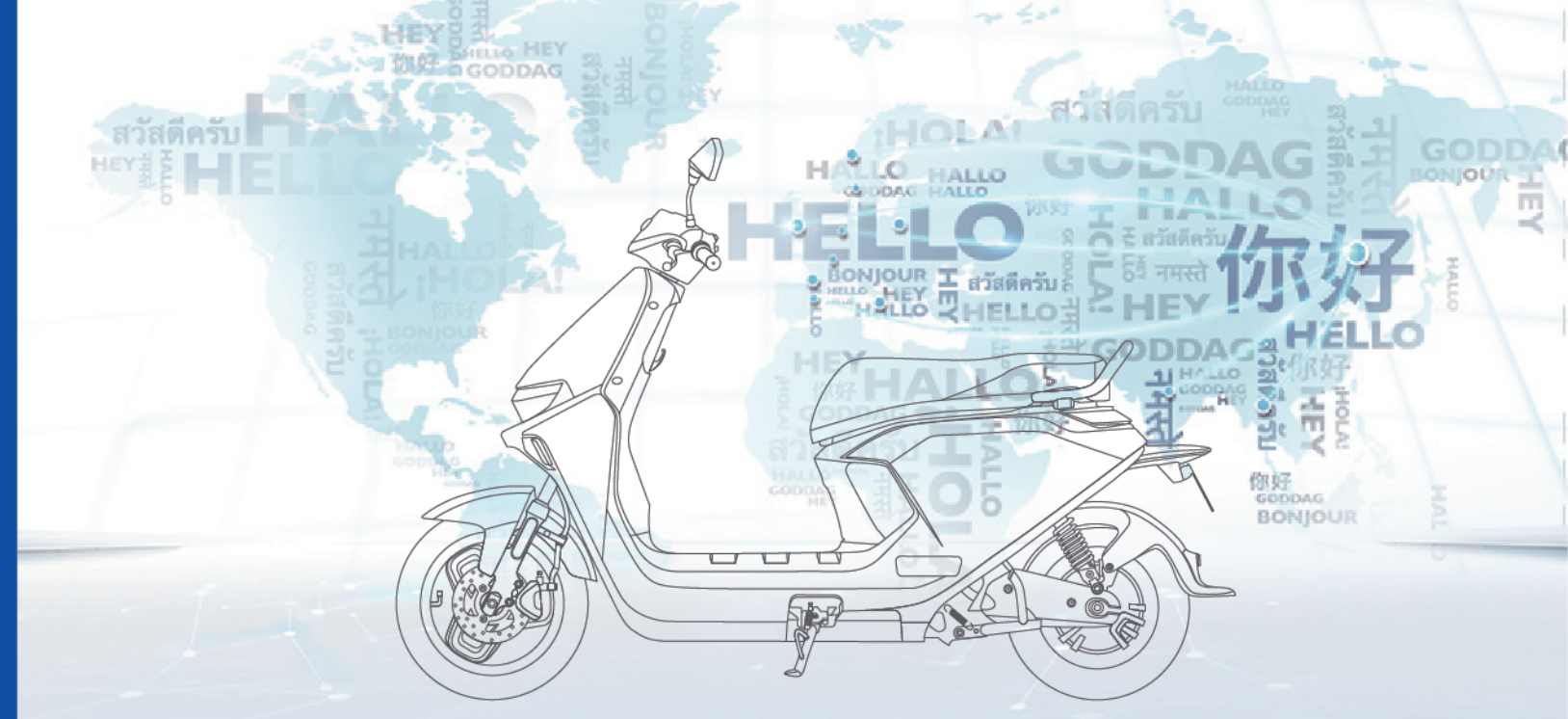




# USER MANUAL

ELECTRIC MOTORCYCLE

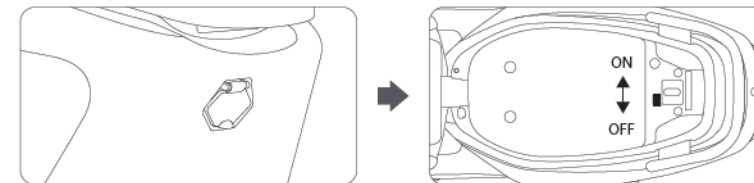
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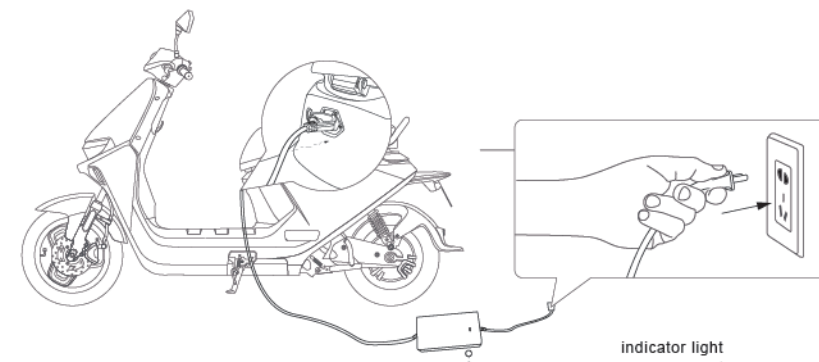
## QUICK START GUIDE

### Vehicle power on

① For the first use, turn the air switch to the ON position to power on the entire vehicle.



② Connect the charger output terminal to the vehicle charging port and 1. Connect the charger to the vehicle. 2. Then plug into the power outlet.



## 1.Safety Instructions

- You need to master driving skills through practice.
- Comply with local laws and licensing requirements.
- You have an obligation to be aware of the laws in your area and comply with the applicable laws.
- For your safety, please do not modify without authorization. If you need to replace parts, please contact after-sales service.
- If the electric scooter makes abnormal noises or malfunctions, please stop using it immediately and contact the after-sales service hotline for professional guidance or maintenance services.
- Do not charge or park in residential buildings. When charging, keep away from flammable materials and the charging time should not be too long.

### Driver's request

The following personnel should not drive electric motorcycles

- i . minor
- ii. Individuals affected by alcohol or drugs
- i-ii. Individuals who are unable to engage in vigorous physical activity due to illness
- iv. pregnant woman

### Driving environment requirements

- Do not drive in inclement weather or when extremely fatigued.
- Please drive slowly with caution on complex road conditions. Driving this electric motorcycle over obstacles, uneven terrain, slippery roads, material evacuation surfaces, steep slopes, or sharp turns on highways may cause the vehicle to lose control.
- Like other road vehicles, when driving in rainy or snowy weather, the tire resistance of electric motorcycle is relatively reduced and the braking distance is relatively increased, which increases the difficulty of driver control and makes it easier

for the vehicle to lose control. To ensure safe driving in rainy and snowy weather, please drive more carefully.

### Preparation before driving

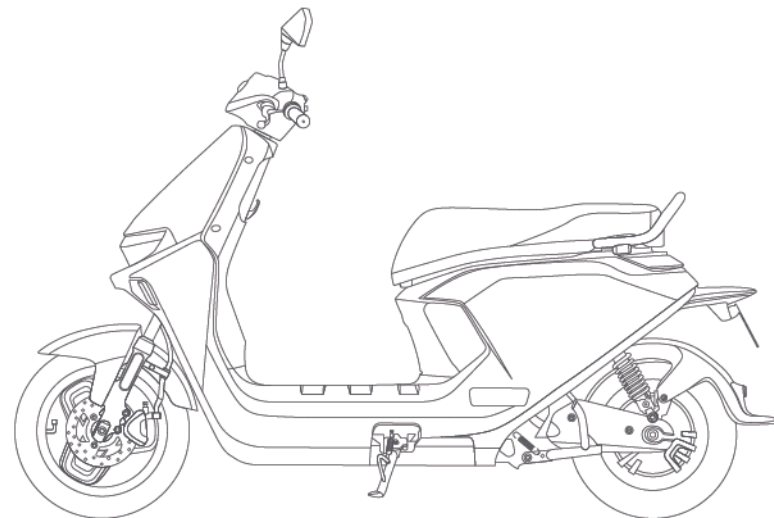
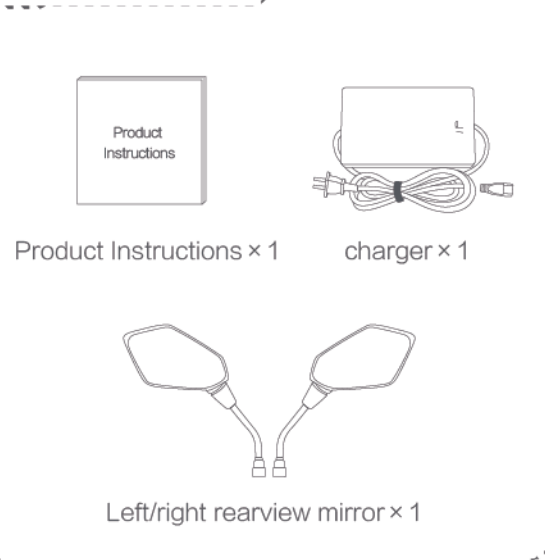
- Before each drive, it is necessary to check the vehicle to ensure that the brakes and tires are in good condition, fasteners are not loose, and parts are not damaged.
- Please ensure that the driver and passengers wear motorcycle helmets and other protective gear.
- Please ensure that the driver has read this manual before use until they have learned the basic operation of this electric motorcycle.
- When the battery level is below 20%, please use the original charger to charge it in a timely manner. Please regularly check the lighting, tire pressure, tire tread, brake lines, rearview mirrors and other components to ensure their normal use.

### Driving instructions

- Please start the electric motorcycle smoothly on a flat road surface. Do not accelerate or brake abruptly while driving.
- Please remain vigilant while driving and always maintain a safe distance from other vehicles. Please slow down when entering unfamiliar environments.
- To avoid distraction, do not use mobile phones, cameras, headphones, earplugs, etc. while driving an electric motorcycle.
- When approaching or passing through intersections, motor vehicle lanes, turns, doorways, etc., please slow down and avoid pedestrians, bicycles, and motor vehicles.
- If there is an abnormality in the electric motorcycle while driving, please stop driving immediately and investigate the problem. If you need assistance, please contact after-sales service in a timely manner.
- When parking, park the electric motorcycle on a flat road and turn off the power to avoid slipping or tipping over and causing harm to you and those around you.

## 2.Product Overview

### Attachment



⚠ Please carefully check if the items inside the packaging box are complete and intact. If there are any missing or damaged items, please call the after-sales service hotline. If the actual item does not match the instruction manual, please refer to the actual product.

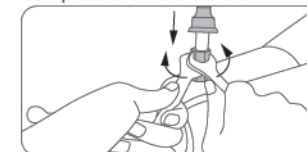
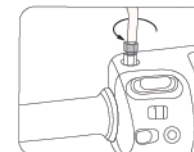
### [1] Installation of rearview mirror

a.As shown in the picture, unscrew the adapter nut.

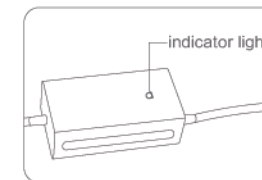
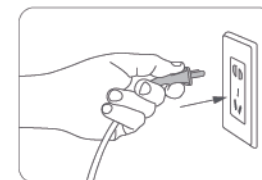
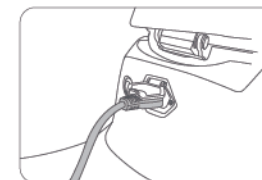
b.Use a wrench to install the adapter nut clockwise onto the steering handle.

c.Screw the rearview mirror counterclockwise into the adapter nut to the appropriate position; Rotate the nut at the bottom of the rearview mirror counterclockwise again until it contacts the adapter nut.

d.Use two open-end wrenches to simultaneously tighten the adapter nut and the nut on the rearview mirror in opposite directions. Move the rearview mirror cover downwards, cover the nut, and complete the installation.

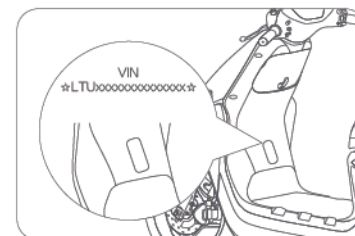


### [2] Use of charging port ( \* Do not turn off the air switch while charging )

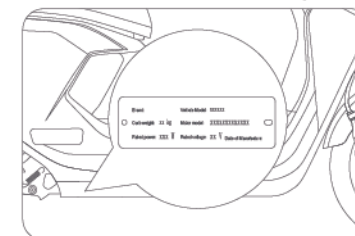


\*When the indicator light turns green, it indicates that the battery pack is fully charged.

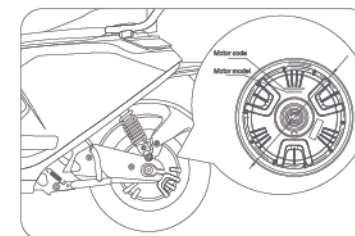
#### VIN number location



#### Location of vehicle nameplate

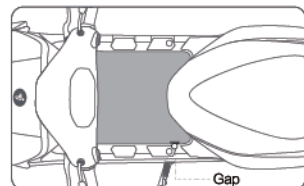


#### Position of motor number

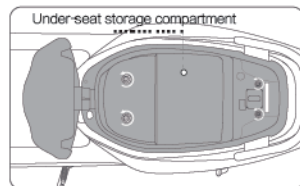


### 3. Battery installation

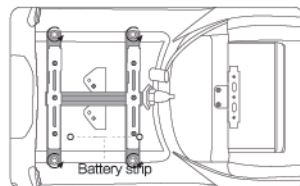
- 1 Use a flathead screwdriver to pry open the battery cover at the gap shown in the diagram and remove the cover.



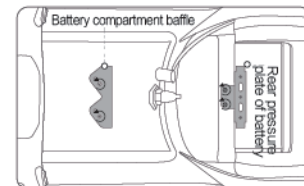
- 2 Open the saddle and use a 10mm socket wrench to remove the 4 screws. Unplug the seat cushion sensor harness and remove the seat bucket.



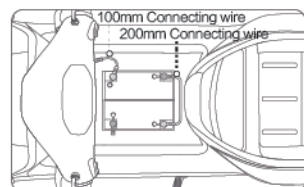
- 3 a. Use a hexagonal wrench with holes inside the plum blossom to remove the 4 screws of the battery pressure strip.



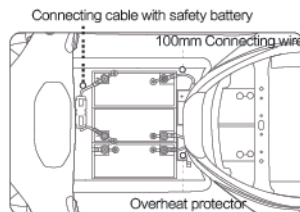
- b. Use a 10mm socket wrench to remove the 2 screws and Two screws for the battery compartment baffle.



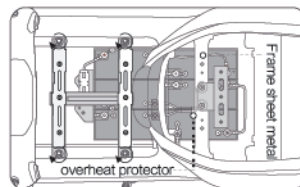
- 4 Connect the connecting wires with lengths of 100mm and 200mm according to the following diagram, and then push them into the inner compartment.



- 5 Connect the positive and negative poles as shown in the diagram to the overheat protector and the safety battery connection wire.

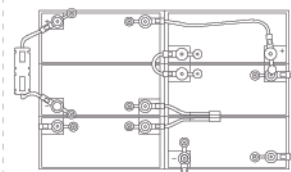


- 6 Remove the battery pressure strip, battery compartment baffle, and battery from step 3. Reinstall the rear pressure plate and screws to their original positions.

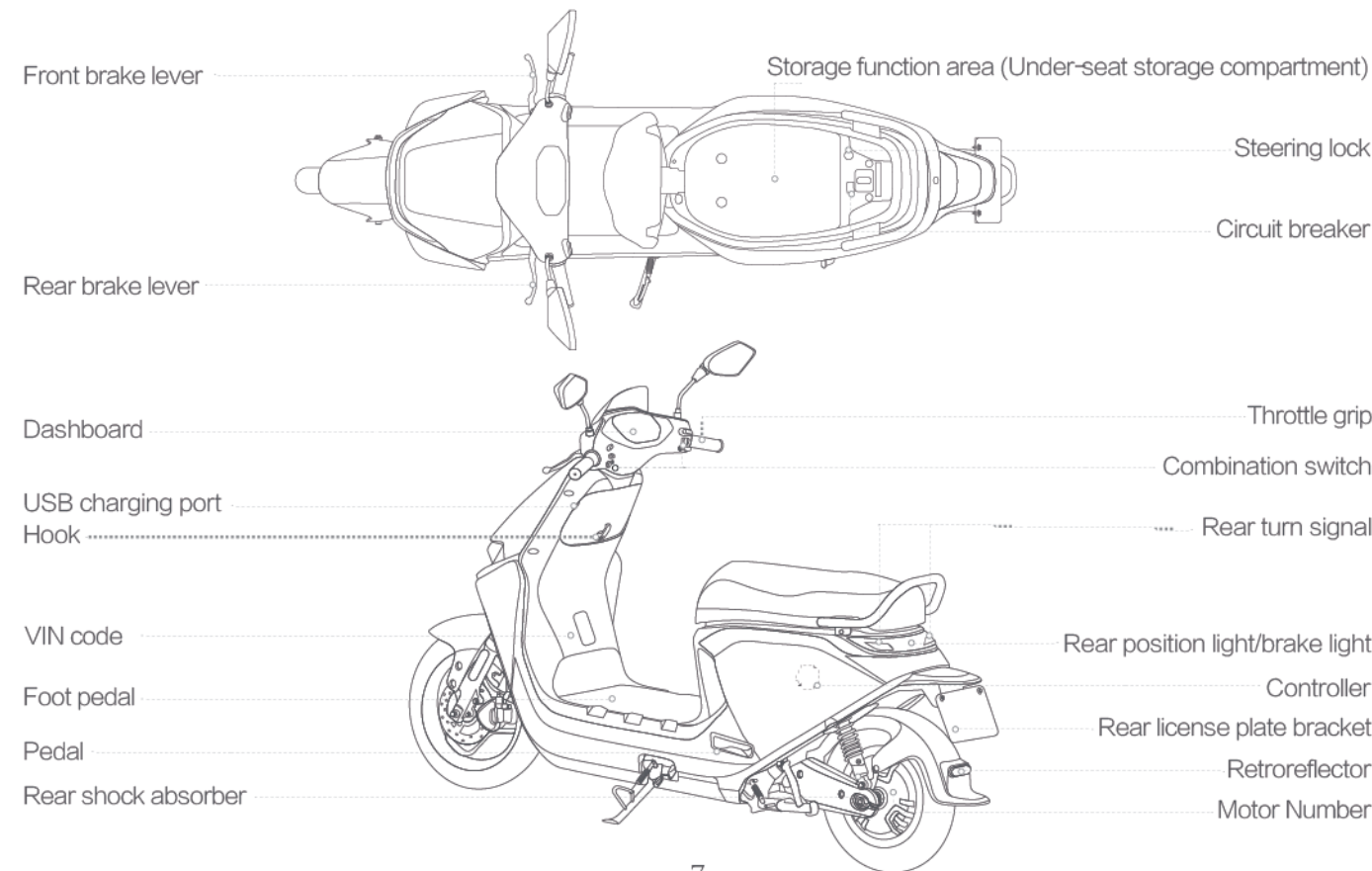


(\*The overheat protector is located under the frame.)

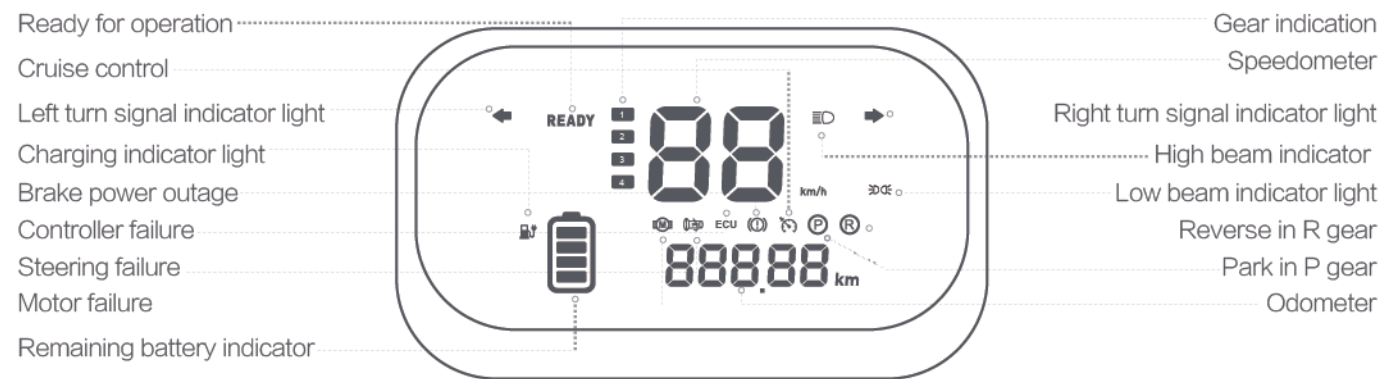
Battery connecting wire schematic diagram:



### 4. Functional diagram

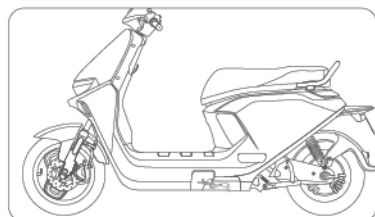


## 5.Schematic diagram of dashboard functions

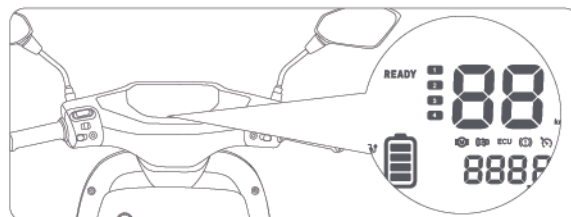


## Cycling

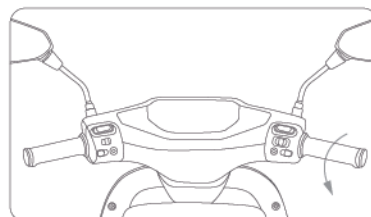
a.After turning on, the dashboard lights up in advance. Sit on the cushion and fold away the side brace.



b. After releasing the P gear, the "Ready" light illuminates.



c. Twist the throttle to accelerate.



## 6.Schematic diagram of combination switch function

### Left combination switch

Danger warning

High beam/  
overtaking light switch

Turn signal switch

Horn switch

Parking (P)

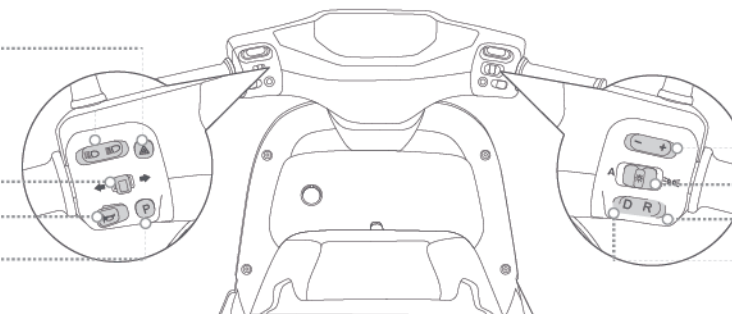
### Right combination switch

Gear key

Headlight switch

Reverse gear (R)

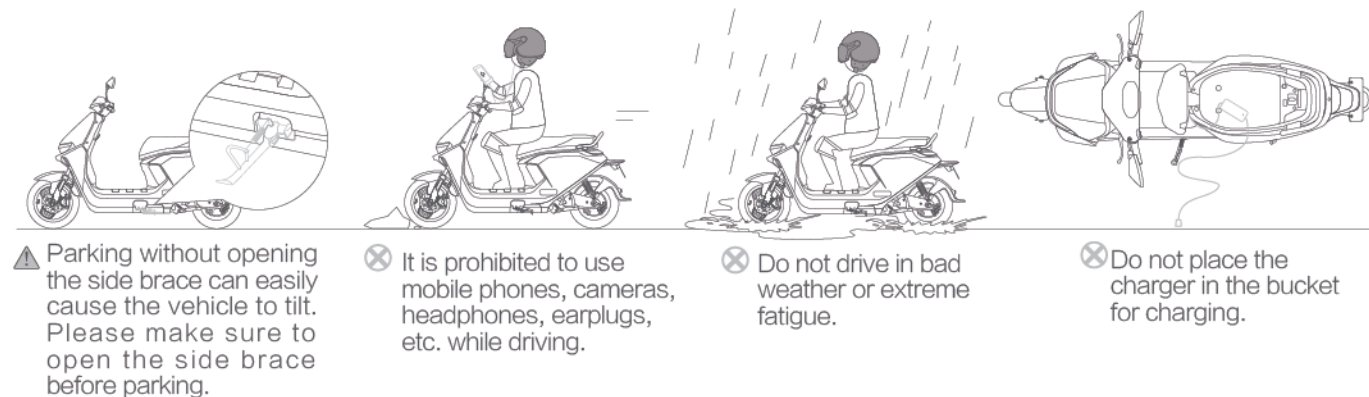
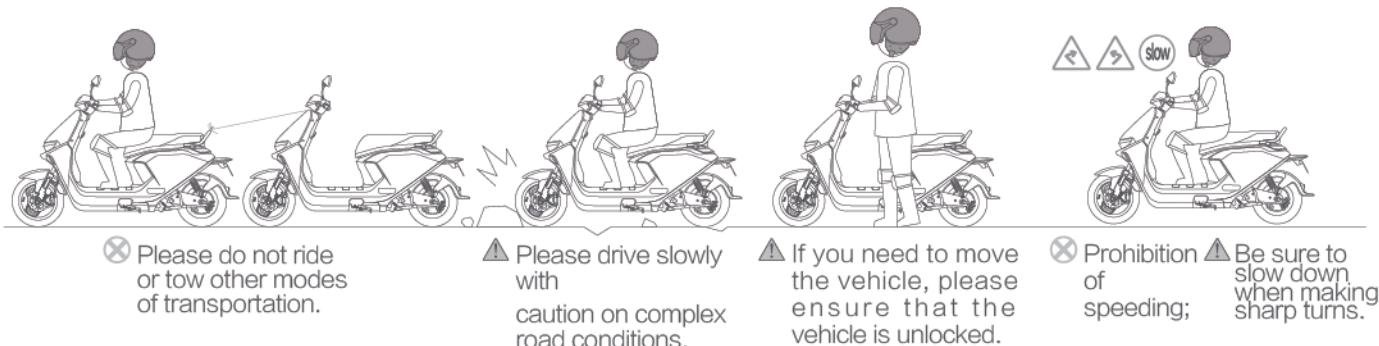
Drive in gear D



| Symbol | Symbol name                                      | Operating instructions                                                                                                                                                                                                                                                                             |
|--------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | High beam headlights/<br>Overtaking light switch | When the headlights are turned on or illuminated:<br>1. Press to the right to turn on the high beam; Press to the middle position to turn off the high beam.<br>2. Press continuously to the left to turn on the overtaking light; Release the automatic reset and turn off the overtaking lights. |
|        | Turn signal switch                               | When turned to the left, the left turn signal light turns on, release and reset; Press the middle position to turn off the left turn signal. When turned to the right, the right turn signal light will turn on, release and reset; Press the middle position to turn off the right turn signal.   |
|        | Horn key                                         | After pressing, the vehicle honks to warn pedestrians or vehicles.                                                                                                                                                                                                                                 |
|        | Parking (P)                                      | Lightly press the P key to turn the handle away. Pinch the brake to automatically release P.                                                                                                                                                                                                       |
|        | Gear key                                         | Right: Gear up → Max speed up    Left: Gear down → Max speed down                                                                                                                                                                                                                                  |
|        | Headlight switch                                 | The power on position light is on so that the front and rear cars can clearly distinguish the size and position of the vehicle. Shift to the middle gear and turn on the headlights.                                                                                                               |
|        | Forward and reverse buttons                      | Move to the left to move forward in gear D; Move to the right, reverse in R gear                                                                                                                                                                                                                   |
|        | Danger warning                                   | Press to flash both turn signals for warning.                                                                                                                                                                                                                                                      |

## 7.Precautions

Safety hazards, be careful to avoid!  Prohibition of drunk driving!



## 8.Battery usage instructions

### Notice before using the battery

- 1.When driving through water, be careful not to let the water level exceed the rear wheel axle position;
- 2.Regularly check the fastening status around the motor, and if any loose nuts are found, tighten them in a timely manner;
- 3.After the vehicle stops running, simple cleaning and protection work can be done to prevent some debris from entering the motor and affecting normal use. Do not spray water directly during cleaning;
- 4.Check if the motor leads are scratched and if there is any abnormal noise during motor operation. If there is any abnormality, please contact after-sales or designated authorized service outlets

### Usage environment

- 1.Please use the battery in an environment between  $-10^{\circ}\text{C}$  and  $45^{\circ}\text{C}$ .
- 2.Avoid soaking the battery with water, beverages, corrosive liquids, etc.
- 3.Please avoid placing the battery near heat sources, open flames, flammable and explosive gases (liquids)
- 4.Prevent metal foreign objects from entering the battery box

\*At low temperatures, the available capacity of the battery will experience varying degrees of decay. The specific reference levels are: 70% available capacity at  $-10^{\circ}\text{C}$ , 85% available capacity at  $0^{\circ}\text{C}$ , and 100% available capacity at  $25^{\circ}\text{C}$ . If the battery has any odor, heat, deformation, or other abnormal conditions, please stop using it immediately, stay away from the battery, and contact the after-sales department.

\*The battery is not a user repairable component. If any abnormal phenomena occur, please contact the after-sales department for maintenance. Disassembling batteries without authorization will not be eligible for the three guarantee policy and may result in the battery generating heat, smoke, fire, or explosion.

## Charging environment

1.Please use the original charger that comes with the battery for charging, and do not use other brands or models of chargers for charging.

2.Please charge the battery at an ambient temperature of 0 ℃~35 ℃.

3.Do not exceed 12 hours of charging time to avoid affecting the battery's lifespan.

\*The battery level rises rapidly in the early stage of charging and slows down in the later stage. This is a program set for charging safety and is a normal situation.

\*When charging in winter, if the outdoor temperature is low and the environment is below 0 ℃, the battery will stop charging, which is a normal phenomenon. Please place the battery at a suitable ambient temperature for charging to ensure charging effectiveness.

\*During the charging process, some aluminum shell chargers have a temperature rise effect, with a high surface temperature, which is a normal phenomenon. Please feel free to use them. Please be careful to avoid contact with children.

## Notice before using the battery

1.Avoid fully discharging the battery. Charge regularly. then fully charge it and cycle it 2-3 times for better results, ensuring that the actual battery capacity matches the instrument display more accurately.

2.Try to keep the battery level at no less than 20% during later use, and charge it in a timely manner to extend the battery's cycle life.

3.When riding normally, it is recommended to use the power-saving mode gear, slowly operate the throttle handle when starting, and gradually accelerate to extend the battery range.

4.As the number of battery uses increases, there may be deviations between the actual capacity of the battery and the instrument display. Please regularly (no more than 3 months) fully charge and discharge the battery. The internal battery cells and intelligent system can automatically calibrate the power level to improve the user experience.

5.It is recommended to check the power plug of the battery every two months to confirm whether there is carbon deposition and oxidation blackening on the contact spring. If there is, please go to the designated network for maintenance.

6.It is strictly prohibited to dismantle batteries without authorization, otherwise it may cause safety accidents such as electric shock, short circuit, fire, explosion, etc.

\*The battery is not a user repairable component. If any abnormal phenomena occur, please contact the after-sales department for maintenance. Disassembling batteries without authorization will not be eligible for the three guarantee policy and may result in the battery generating heat, smoke, fire, or explosion.

## Storage environment

1.If the battery is placed on the entire vehicle, it will consume battery power in real time due to the operation of the vehicle's intelligent system and alarm system. After the vehicle is placed for a period of time, it is normal for the instrument panel to display a decrease in battery power. It is normal for the battery to consume around 1% after being parked for 8 hours.

2.Please store the battery at an ambient temperature of 0 ℃~35 ℃. Do not store the battery in an environment above 40 ℃, as it may cause irreversible capacity degradation.

3.If the vehicle is not used for an extended period (such as during winter, summer, or other special circumstances), the battery must be removed and stored separately, and maintained and charged every two months. Otherwise, the battery may become completely depleted, resulting in irreversible damage. For such issues, battery failure will not be covered under the three-guarantee policy.

4.The most suitable storage capacity for batteries is 50%. Long-term storage at less than 10% or more than 90% of capacity will lead to irreversible capacity loss in the battery.

5.Avoid storing batteries in places where there is a risk of falling. Falling may cause uncontrollable damage to the interior of the battery, and may lead to battery leakage, heating, smoking, ignition, or explosion

\*The improper use mentioned above, which leads to battery undervoltage and power feed issues, is not covered under the three-guarantee responsibilities.

## 9.Daily cleaning and maintenance

### Vehicle cleaning and maintenance

#### Clean

Please turn off the power before cleaning the vehicle; use clean water and a neutral detergent for cleaning, and avoid using a strong water jet for rinsing. After cleaning, use a soft cloth or sponge to wipe down the surface. It is strictly prohibited to use metal brushes, sandpaper, or any other abrasive tools to clean the vehicle surface, as this may scratch the surface of the parts. After cleaning, please use a soft cloth to dry the vehicle.

#### Store

Vehicles should be parked indoors in a dry and shady area to avoid exposure to sunlight and rain, which can cause rusting of parts and shorten their lifespan. When stored for a long period, please turn off the power lock (disconnect the battery plug for lithium batteries) to prevent excessive battery discharge.

Note: If you find any abnormalities during the maintenance process, please contact after-sales service or a designated authorized service outlet.

### Component maintenance

#### Motor

- 1.When driving through water, you must ensure that the water level does not exceed the position of the rear wheel axle.
- 2.Regularly check the fastening condition around the motor, and if any nuts are found to be loose, tighten them promptly.
- 3.After the vehicle has stopped operating, you can perform some simple cleaning and protective work to prevent debris from entering the motor and affecting normal use. Do not spray water directly when cleaning;

- 4.Check whether the motor leads are damaged and whether there are any unusual noises when the motor is running. If any abnormalities occur, please contact after-sales service or an authorised service centre.

#### Controller

Regularly check the connectors to ensure they are securely fastened.

#### Battery

- 1.If the battery exhibits any abnormal behaviour, please contact after-sales service or a designated authorised service centre.
- 2.It is not advisable to use the battery until it is completely drained; try to keep it above 15% and recharge it promptly after use to prolong battery life
- 3.It is strictly forbidden to disassemble the battery without authorisation, as this may cause electric shock, short circuit, fire, explosion, or other safety hazards.
- 4.The battery indicator lights are all on or the charger turns green, indicating that the battery is fully charged.
- 5.The suitable storage temperature for the battery is 0℃~35℃.
- 6.For vehicles with lithium batteries, if not used for a long time, remove the battery after fully charging it and place it in a dry, ventilated place, and use a charger to top it up every two months.
- 7.Do not store batteries in places with a risk of falling, as drops may cause battery damage and lead to short circuits, fire, or explosion.

### Charger

#### Before charging:

- 1.The charger should be dedicated to a specific vehicle, and it is strictly forbidden to charge batteries that cannot be charged
- 2.Do not carry the charger with the vehicle to prevent the internal electronic components of the charger from becoming loose due to jolting;
- 3.Confirm whether the connected power supply is 220V AC.
- 4.If you find that a cable is damaged or a connector is loose, do not use it. Please contact after-sales service or an authorised service centre.

#### Charging:

- 1.When charging, the vehicle should be parked in a safe location, avoiding rain and direct sunlight
- 2.When charging, first insert the vehicle charging port, then plug in the charger power plug;
- 3.During charging, if the indicator light is abnormal, there is an unusual smell, or the charger casing becomes overheated, you should immediately stop charging and contact after-sales service or an authorised service centre.

#### After charging:

- 1.After the battery is fully charged, first unplug the charger from the power socket, then unplug the charger from the device.
- 2.After the charger has cooled down, tidy the power and charging cables and place them in a safe location.

#### ⚠ Warning:

- 1.During charging, the charger must be adequately ventilated, kept away from explosive gases, and fire hazards must be avoided.
- 2.The charger contains high voltage; do not disassemble or replace components inside the charger yourself. If any fault occurs, please contact after-sales service or an authorised service centre.
- 3.Do not leave the charger connected to the power supply for a long time, run it without a load, or charge multiple vehicles simultaneously.
- 4.The charger should be handled with care.

### Maintenance Guide

- 1.The first maintenance should be carried out after 1,000 kilometres or 3 months following delivery of the new car, whichever comes first.
- 2.After the first maintenance, it is recommended to service every 2000 kilometres or every 6 months, whichever comes first.

Note: All maintenance and servicing must be carried out at designated authorised service centres.

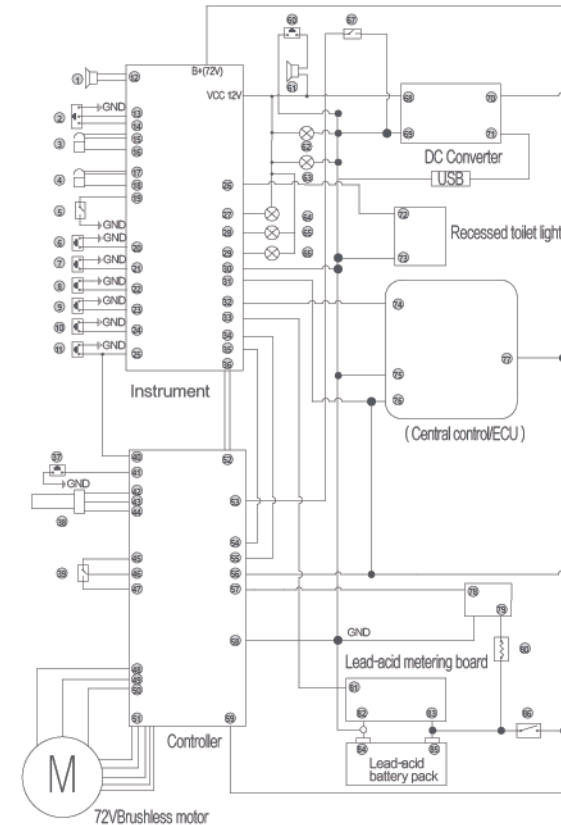
#### Specific maintenance rules, items and requirements

| Project                                            | Maintenance period (month) | 3    | 9    | 15   | 21   | 27   | 33    |
|----------------------------------------------------|----------------------------|------|------|------|------|------|-------|
|                                                    | Maintenance mileage (km)   | 1000 | 3000 | 5000 | 7000 | 9000 | 11000 |
| Adjust or replace the front and rear brakes        |                            | A    | A/R  | A    | A/R  | A    | A/R   |
| Handlebar steering inspection                      |                            | C    | C    | C    | C    | C    | C     |
| Tyre pressure check                                |                            | C    | C    | C    | C    | C    | C     |
| Disc brake system inspection                       |                            | C    | C    | C    | C    | C    | C     |
| Core component fastening                           |                            | T    | T    | T    | T    | T    | T     |
| Core component lubrication                         |                            | L    | L    | L    | L    | L    | L     |
| Front and rear shock adjustment                    |                            | A    | A    | A    | A    | A    | A     |
| Lighting system inspection                         |                            | C    | C    | C    | C    | C    | C     |
| A:Adjust C: Check L: Lubricate T:Fasten R: Replace |                            |      |      |      |      |      |       |

#### Maintenance Instructions

| Buy a car                                                                                                                                                                                                     | The 3rd month (or 1000 kilometres)                                                                                                                                        | Month 9 (or 3000 kilometres)                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The product has undergone comprehensive testing before leaving the factory. When in use, a full check of the vehicle's handlebars, front brakes, rear brakes, tyre pressure, and lighting system is required. | The product has been used for 3 months, and related parts may show wear. The focus is on tightening core components, inspecting the brake system, and checking the tyres. | The product has been used for 9 months, and inspections of the entire vehicle's components have been carried out. The focus is on checking the fastening of all vehicle parts, the brake system, and the tyres. |

## 11. Electrical schematic diagram



- |                                    |                                |                               |                                 |
|------------------------------------|--------------------------------|-------------------------------|---------------------------------|
| ① audio speaker                    | ②③ Left turn signal            | ④⑤ GND(side support)          | ⑥⑦ Brake power cut              |
| ⑧ Dipped beam control switch       | ⑨ Right turn signal            | ⑩⑪ Signal line (side support) | ⑫⑬ 12V (OUT)                    |
| ⑭ Handlebar lock                   | ⑮ P gear signal                | ⑯⑰ 5V(side support)           | ⑱⑲ Negative electrode (GND)     |
| ⑳ toilet seat lock                 | ㉑ Recessed bucket light output | ㉒ U-phase                     | ㉓⑳ Electric door lock           |
| ㉔ Seat switch                      | ㉕ low beam                     | ㉖ V-phase                     | ㉗⑳ 5V (OUT)                     |
| ㉘ Gear up button                   | ㉙ Right turn signal            | ㉚ W-phase                     | ㉛㉔ Recessed bucket light output |
| ㉜ Downshift button                 | ㉝ Left turn signal             | ㉞ Hall                        | ㉟㉔ Negative electrode (GND)     |
| ㊱ Hazard warning button            | ㊲ Cathode (GND)                | ㊳ Serial communication cable  | ㊴㉔ Serial communication cable   |
| ㊵ Left turn button                 | ㊶ Electric door lock           | ㊷ Brake signal                | ㊸㉔ VCC 72V                      |
| ㊹ Right turn button                | ㊺ Serial communication cable   | ㊻ Motor testing               | ㊼㉔ Negative electrode ( GND )   |
| ㊽ P gear button                    | ㊾ 485 communication line       | ㊿ Anti-theft signal           | ㊿㉔ Electric door lock           |
| ㊿ Audio speaker signal             | ㊿ Motor testing                | ㊿ Electric door lock          | ㊿㉔ Charging signal port         |
| ㊿ Automatic light-sensitive signal | ㊿ Anti-theft signal            | ㊿ Charging signal port        | ㊿㉔ Charging port                |
| ㊿ Low beam switch signal           | ㊿ Serial communication cable   | ㊿ B-(GND)                     | ㊿㉔ Charging fuse 15A            |
| ㊿ Steering lock control signal     | ㊿ Cruise control button        | ㊿ B+(72V)                     | ㊿㉔ 485 communication line       |
| ㊿ Steering lock feedback signal    | ㊿ Throttle                     | ㊿ Horn switch                 | ㊿㉔ GND                          |
| ㊿ Toilet seat lock control signal  | ㊿ Side support switch          | ㊿ Horn                        | ㊿㉔ 72V                          |
| ㊿ Toilet seat lock feedback signal | ㊿ Start                        | ㊿ Front position light        | ㊿㉔ B-(GND)                      |
| ㊿ Seat cushion sensor signal       | ㊿ Cruise control signal        | ㊿ Tail light                  | ㊿㉔ B+(72V)                      |
| ㊿ Upshift signal                   | ㊿ 5V(Turn the handle)          | ㊿ Low beam                    | ㊿㉔ Air switch 50A               |
| ㊿ Downshift signal                 | ㊿ GND(Turn the handle)         | ㊿ Right turn signal           |                                 |
| ㊿ Hazard warning lights            | ㊿ Signal cable (twist grip)    | ㊿ Left turn signal            |                                 |

12.Maintenance record

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### 13.Warranty card

Electric scooter model

Motor number

Frame number

User name

Contact number

Contact address

Trade organisation

Sale date

Trade organisation

User signature