

Please read this manual before using this product.
Please use it correctly on the basis of fully understanding the content.
Please keep this book properly for future reference.



OPERATION MANUAL

Please feel free to consult
XUZHOU LILONG LOCOMOTIVE CO.,LTD

 <http://lilong-autobike.cn>

 +86-631-6079995

 sales01@lilong-autobike.cn

Australia Agent/Distributor:
PURITY MANAGEMENT GROUP PTY LTD
1/21 Lonsdale Street Woodville North South Australia
Pmg@pmgcateringsystems.com.au

Warning: Do not use the electric tricycle until you have carefully read the operation manual and understood the performance of the electric tricycle. Use the electric tricycle and ask the user to keep the operation manual properly.

PREFACE	02-02
GENERAL WARNING	03-04
POSITION OF COMPONENTS	05-06
OPERATION INSTRUCTIONS	07-09
PRE-DRIVING CHECKS	10-10
INSTRUCTIONS FOR USE OF APPLIANCES	11-15
MAINTENANCE	16-17
CIRCUIT DIAGRAM	18-18

Preface

Our company is located in Feng county Electric Vehicle Industrial Park in Xuzhou City, northwest of Xuzhou City, Jiangsu Province, in the centre of Huaihai Economic Zone.

Our factory has established four production workshops including "Stamping, Welding, Painting and Assembling" as well as an experienced R&D team.

We have a professional QC team and a perfect quality management system, with ISO9001 certification and EU EEC product certification, to ensure that every tricycle produced is safe and reliable, providing excellent safety for consumers' travelling.

Thank you for being able to purchase and use the electric vehicle products manufactured by our company. In order to help you use and maintain the vehicle correctly, please be sure to read the entire contents of this manual carefully before use, and keep the manual properly after reading. LILONG recommends that you use genuine spare parts and that you use, maintain and repair your vehicle correctly in accordance with the instruction manual.

Replacement or modification of the vehicle with non-genuine parts will affect the performance of the vehicle, especially its safety and durability, and any damage to the vehicle and performance problems arising from such replacement or modification will not be covered by the warranty.

Thank you for choosing LILONG, and we welcome your valuable comments and suggestions. In case of quality problems, please consult the dealer who sold you the product for timely feedback and problem solving.

Copyright Xuzhou Lilong Locomotive Co., Ltd
The contents of this booklet may not be reproduced or copied without the permission of LILONG
All rights Reproduction is prohibited

General Warning

1.Before driving, please read the Instruction Manual carefully and check to make sure that all parts are intact to ensure your driving safety, if there are any problems with your Tricycle, please contact your dealer in time.

2.To ensure your driving safety, wear safety helmets, gloves and other protective gear when driving your vehicle. Do not wear loose clothing, as it may affect your comfort and safety when driving.

3.Please avoid driving fatigue and when you are feeling unwell so that you are in a better situation to control the vehicle. You should not drive after taking drugs, medicines or alcohol.

4.This vehicle is not afraid of rain or snow, but it can not be waded, when the water level exceeds 10 cm depth, forcibly wading through the water, may cause a short circuit of the vehicle's electrical components and circuits. Please be careful!

5.Please obey traffic laws and regulations; slow down in rainy or snowy weather and on slippery roads, and increase the braking distance when braking to ensure safety.

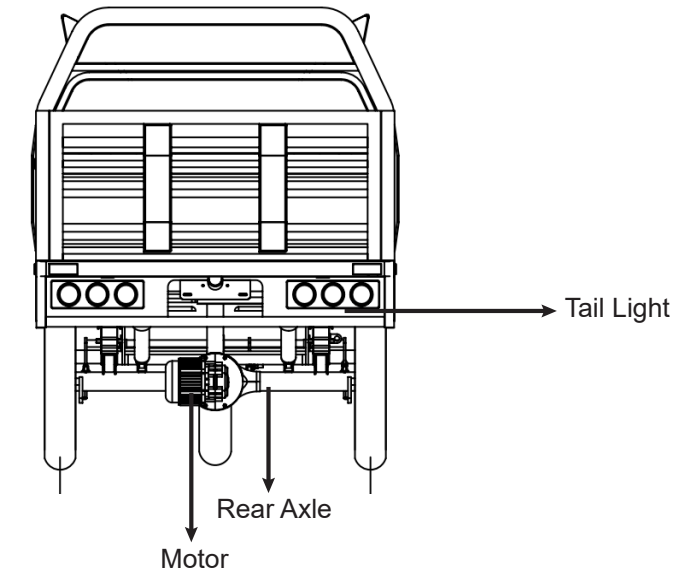
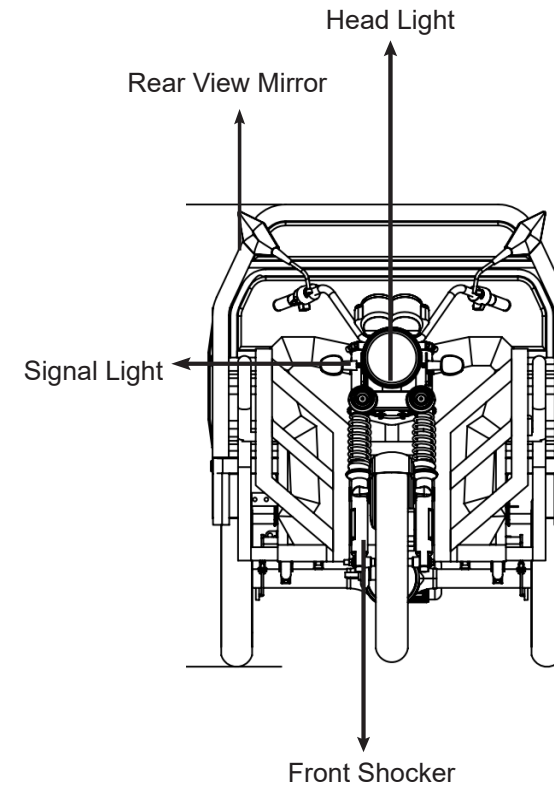
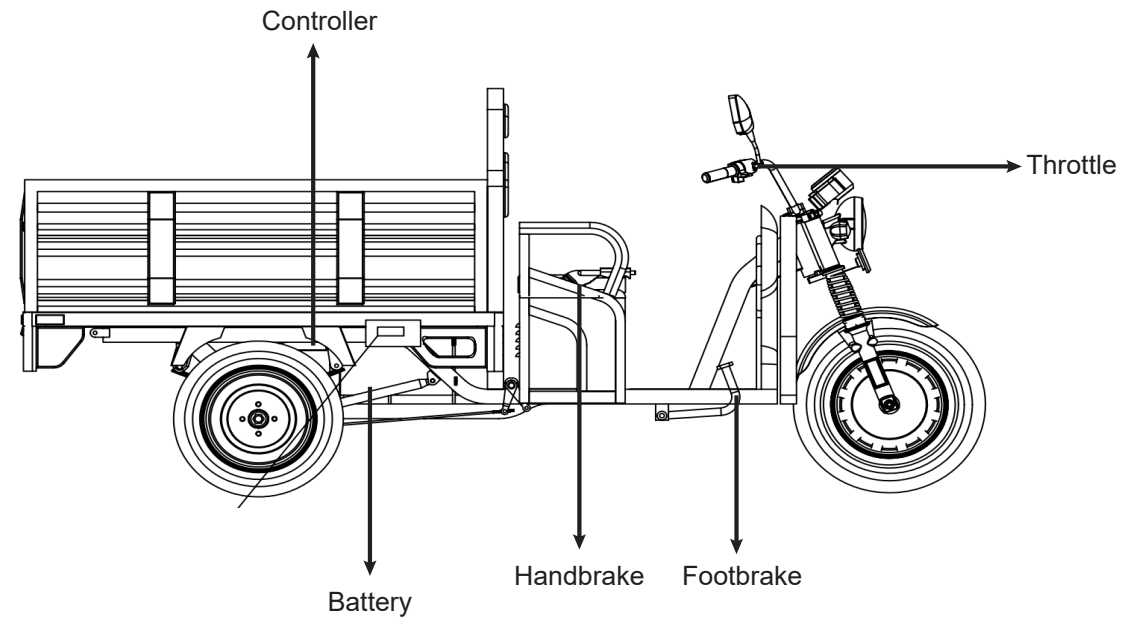
6.Electric three-wheeled motorbikes have certain requirements for the distribution of load weight. The centre of gravity of the occupants or cargo should be as close as possible to the centre of the vehicle and securely fastened to the vehicle. It is strictly prohibited to exceed the load limit of the vehicle. Improper loading of cargo will impair the performance and stability of the vehicle.

7.Please note that the positive and negative electrodes of the power battery used in this vehicle should not be touched at the same time, not to mention that they should not be touched with metal objects at the same time, otherwise, it will cause damage to personal safety or produce a large short-circuit current and lead to accidents, so please pay attention to this!

8.Do not disassemble disassembled parts by yourself, if you want to replace them, please contact a service station or dealer.

9.For the safety of others and to avoid the risk of unnecessary damage to your e-tricycle, do not give your e-tricycle to a person who does not know how to operate it.

Position of components



Operation instructions

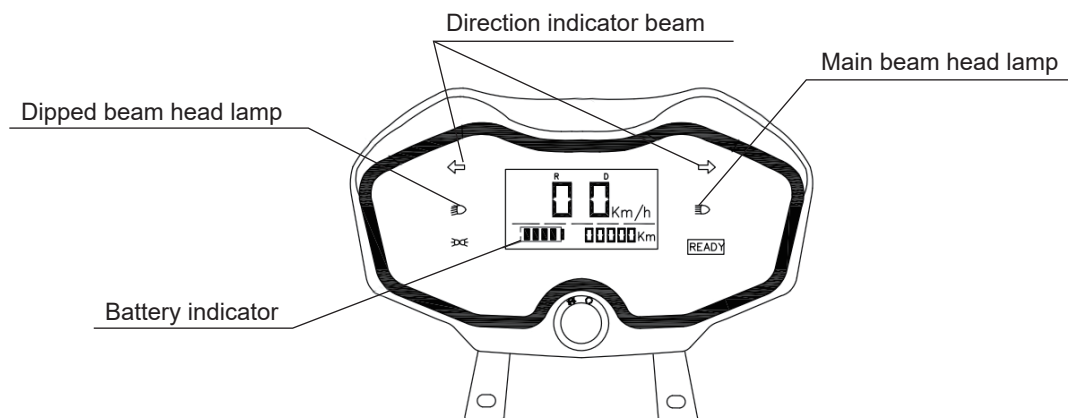
[Circuit main switch]

The position of the electric lock is in the middle lower part of the meter .

(⊗ OFF): the key can only be pushed in or pulled out in "⊗" this position, This position control the whole circuit ..

(○ ON): the key is turned to this position, the circuit is connected and the motor can start running at any time, "○" The key cannot be pulled out in this position.

When the circuit is connected, the "READY" lights up.



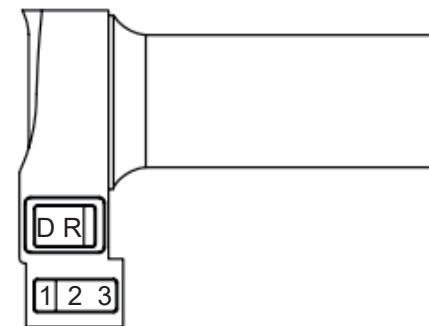
[Right throttle control switch]

1. Speed control handle: The speed control handle is used to control the speed of the motor, turned to its own direction is accelerating, and opposite direction is decelerating.

2. Head lamp switch: when the head lamp switch is pushed to the "☀" position, the head lamp also lights up, and when the head lamp switch is pushed to the "○" position, all the lights go out.

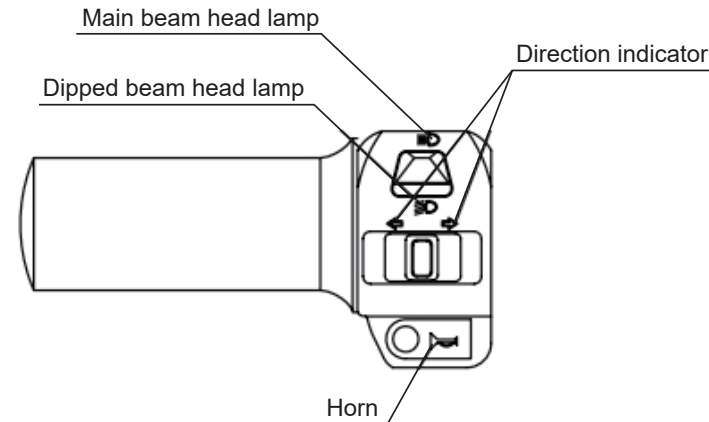
3. Reverse switch: Press left to "F" and turn the speed control handle, the vehicle moving forward; press right to "R" and turn the speed control handle, the vehicle moving backward.

4. Three -speed switch: one to three speed, adjust the number to change the speed.



[Left throttle control switch]

- 1.Dipped beam head lamp and main beam head lamp switch: when the switch is pushed to the "☷" position. Dipped beam head lamp on.
- 2.When the switch is pushed to the "☷" position, the main beam head lamp on .
- 3.Signal Light switch: when pushed to the left to the "⇨" position, the front and rear left signal light flashing; when pushed to the right to the "⇧" position, the front and rear right signal light flashing.
- 4.Horn button: Press the "📢" button and the horn will make a sound.



To strictly follow the above way, you will be comfortable in using it and bring you a better and safer driving experience.

Pre-driving checks

It is important to check the following carefully before driving and not to overlook the importance of these checks

Project	Inspection content
Braking system	1.Adjustment clearance for brake pedal. 2.No "spongy" state where the brakes don't work.
Lighting	Operate all lights - headlights, tail lights, brake lights, dashboard lighting, turn signals.
Speed control handle	Check the operation, condition and clearance of the speed control handle and adjust if necessary.
Handle Bar	1.Sleek and smooth 2.Flexible steering 3.No gaps and no looseness
Parking handle(emergency brake)	Check for flexible and smooth operation and lubricate/adjust if necessary.
Tyres/wheels	Check tyre pressure, wear and damage.
Parts/Fasteners	Check all chassis parts and fasteners. Tighten and adjust if necessary.
Horn	Normal function.

Instructions for use of appliances

[Use and maintenance of electric motors]

- 1.The motor is not allowed to disassemble privately.
- 2.Prolonged overloading is strictly prohibited.
- 3.Keep using environment clean and the airflow dry and unobstructed.

[Use and maintenance of the charger]

1.Insert charger plug before connecting household socket, and the power indicator light is on afterwards. At the same time check whether the charger output plug is loose or the contacting surface is oxidated. These phenomena will lead to plug heating, Excessive heating time will cause short circuit and damage to the charger. Therefore, when above situations occurred, remove the oxides or replace the connector in time.

2.At the beginning of charging, the current is relatively large. With rising of the battery voltage, approximately in 1 or 2 hours the floating light indicator will be on, the charger turn into float charging state, charging during this state for extra 2-3 hours is recommended. But if it didn't change to the state after 10 hours, it is necessary to check whether the battery pack (at least of one battery pack has problems) or the charger is damaged.

3.Charging speed will be slower in cold weathers, so extending charging time 1-2 hours is recommended.

4.If battery power kept in low level over several months, the charger may heat up rapidly when recharge the battery. Disconnect the charger for 30 minutes after half of hour of charging, repeating it several times until it enters into the state of floating charging, and then start continuous charging.

NOTE:

- ◆ **The charger is strictly prohibited to be placed on the seat cushion when charging, and the surrounding area should be ventilated, otherwise the charger may burn out or cause a fire.**
- ◆ **Replace the broken fuse with same model and cannot use metal wire instead.**

[Use and maintenance of batteries]

1.It is strictly prohibited to be stored in a low-power state for a long time. The damage to the battery caused by that state is irreversible. Batteries should be fully charged before storage and recharge it at least once a month to keep in a healthy state.

2.Real charging time should be based on actual usage situation, with reference to the usual frequency of use and mileage, generally the charging time is about 8 hours. If charging happens just after short mileage usage, user should shorten charging time. Overcharging may result in loss of battery water, heating and reducing lifespan. Battery replenishing happens at 30%-40% SOC is recommended.

3.Regular inspection. If endurance range sharply dropped 10+ kilometers in a short time, it is likely one of the battery packs met short-circuit phenomena such as the internal electrode plate disconnected, softening, or active substance shedding. And the battery inspection and repairing should be operated by professional personnel.

4.Long term exposure of electric vehicles to hot sunlight is strictly prohibited. High temperature environment will increase the internal pressure of the battery and force the pressure limiting valve to open automatically and hasten water loss, decrease battery activity, accelerate the softening of the pole plate, cause charging shell heating, bulge, deformation and other fatal injuries.

5.Positive terminal of the battery may produce brownish red lead dioxide film in the process of long-term use, get rid of the film by gauze (or use boiling water to rinse the terminal and fastening bolt nut), the positive terminal will turn into cinerous colour after removing.

5.Positive terminal of the battery may produce brownish red lead dioxide film in the process of long-term use, get rid of the film by gauze (or use boiling water to rinse the terminal and fastening bolt nut), the positive terminal will turn into cinerous colour after removing.

6.The bolts and nuts connection between the battery packs may be loosened due to corrosion or vibration, regularly check and tighten them to avoid sparks, terminals burning, or explosion caused by gas concentration.

NOTE:

- ◆ The new battery should be stored in a dry and ventilated place without direct sunlight, and the temperature should be 5-40 ℃. And cannot be placed upside down, lying down or be subjected by mechanical shock, heavy pressure, and avoid contacting with any liquid and harmful substances, and should not fall into any metal and impurities.
- ◆ The sulfuric acid and water required for the battery shall be battery specific sulfuric acid, deionized water or distilled water.
- ◆ Keep the battery away from sparks, flames and other open flame type of substances.
- ◆ When the battery has abnormal conditions, please contact the vehicle manufacturer or a professional battery manufacturer.

[Use and maintenance of the controller]

- 1.The controller should be inspected without power at least once every 3 months.
- 2.The functions of the controller have been adjusted at the factory and should not be disassembled and adjusted during inspection.
- 3.The controller wiring must not be adjusted; the capacitors in the controller power unit should be kept discharged for a few minutes after disconnecting the power supply.
- 4.Clean the exterior of the controller frequently of dust and debris, but do not rinse the capacitors with water! Dust can be removed with a brush or high-pressure gas.
- 5.It is strictly prohibited to touch the forward and reverse switches during the exercise of the vehicle, or to change the direction of travel before the vehicle has come to a standstill or when the hand is still exerting force on the speed control handle.

NOTE:

- ◆ The charger is strictly prohibited to be placed on the seat cushion when charging, and the surrounding area should be ventilated, otherwise the charger may burn out or cause a fire.
- ◆ Replace the broken fuse with same model and cannot use metal wire instead.

Maintenance

- 1.Please keep the battery clean & dry, prevent dirt & moisture; no loose connection wires and no electrolyte leakage; clean the electrolyte stains on the surface of the battery with insulator in time to prevent leakage and damage to the electrical components.
- 2.If vehicles not be used for a long period of time, it should be charged once a month.
- 3.Mechanical rotation, running parts in a timely manner to add lubricant to ensure that all parts of the operation of flexible, reduce wear and tear.
- 4.Frequently check whether the contact points of each circuit (e.g., wire connections, controller, reverse switch (combination switch), speed controller, and wiring of the motor) are in reliable contact, and there should be no looseness. Especially the main line part, because of the large current flowing through it, should ensure that the contact points of each circuit are in good contact.
- 5.In normal use, if you find any problem that cannot be solved, please send the faulty vehicle to the seller or designated repair station for repair. If you dismantle the vehicle without authorisation, the faults and damages caused will not be repaired free of

charge by our company.

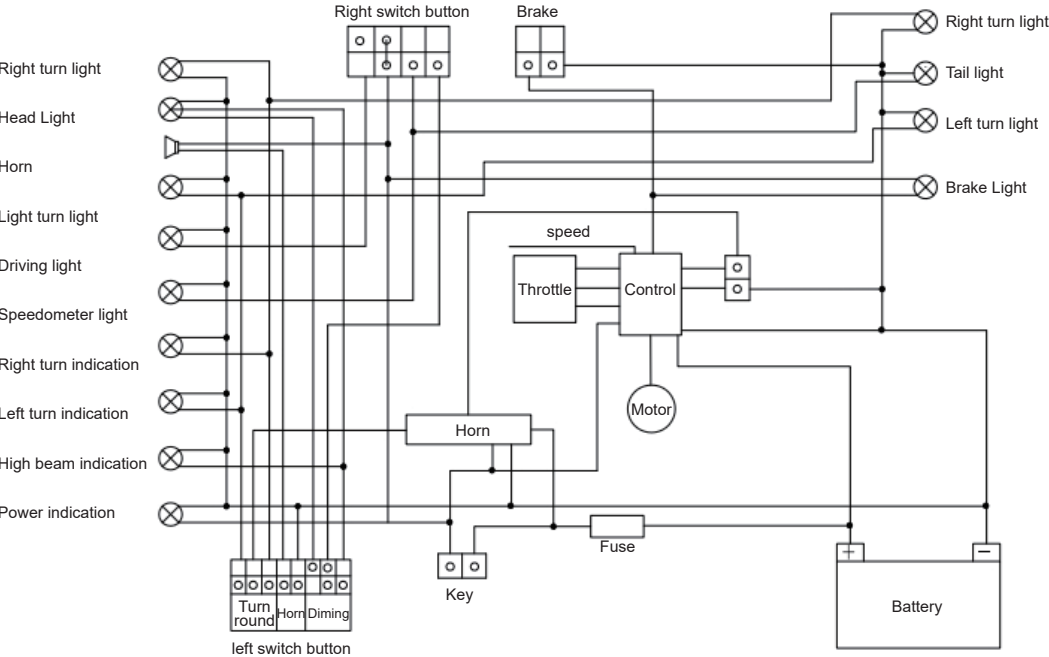
6.Used batteries should be returned to our dealers, after-sales service offices or directly to our company, or can be handed over to the recycling organisations with qualification certificates for recycling.

7.After 200 kilometres of breaking in your new e-vehicle with proper use, servicing is an essential item to follow to ensure your e-vehicle is safe and often fully functional.

8. **Periodic lubrication gauge (in km)**

Time Lubrication parts	Every 6000 km or 6 months	Every 12,000 km or 12 months
Wheel,motor bearings	—	Medium and Heavy Duty Wheel Bearing Lubricants
Brake lever / pedal shaft	lubricant	lubricant grease
Steering bearing	Check / fill loading	Medium and Heavy Duty Wheel Bearing Lubricants
Rear axle differential	Cleaning lubrication	Cleaning lubrication

Circuit diagram



NOTE:
This manual applies only to the configuration and circuits of the standard version model, which may differ from the actual purchased model. In case of malfunction, please visit offline shops and dealers for prompt repair.