

USER MANUAL

OLSO



Special attention

For the safety and happiness of you and your family, please read and follow the following instructions:

Before you become familiar with the basic functions of this electric vehicle and learn how to use it correctly, don't rush into using it.

Before use, it is recommended to practice operating and driving it in an open space. You must be able to drive safely and skillfully. At first, please drive at a low speed.

Do not entrust this product to a minor, a pregnant woman or a disabled person.

No person should operate this product after consuming alcohol or medications that impair driving ability.

Please respect local traffic rules.

Compared with cars and motorcycles, this product has low power output and acceleration performance. Therefore, we remind you not to drive in vehicle lanes to ensure your safety while driving.

Since the lead-acid battery used in this product contains heavy metal (lead), its disposal may cause environmental pollution. In order to protect the environment and maintain a harmonious habitat, please return the used battery to a service center or authorized distributor of our company so that it can be properly collected and processed by the manufacturing factory.

Please ensure that the safety information presented in each chapter of this manual (those highlighted in red letters) is also communicated to your family members or friends.

USER MANUAL

7. For the battery used on vehicles with motor power below 500W, we provide one year warranty. For the battery used on vehicles with motor power above 2500W, the warranty period is six months.

8. For matters not mentioned but concerning the damage of spare parts and affecting the use of the vehicle, we will charge the cost of the parts and replace them free of charge within one year.

Note:

1. You can benefit from the "three guarantees" service (repair, replacement, refund) at the sales unit, presenting the purchase invoice and the warranty certificate.

2. Special company commitment: the battery warranty period begins from the date it leaves the factory.

3. For parts replaced during the "three-warranty" period, the warranty period begins to be calculated from the date of purchase by the customer.

III. Situations not covered by the guarantee

1. Defects caused by improper use, maintenance or adjustments that do not comply with the provisions of the user manual.

2. Damage caused by unauthorized modifications or repairs carried out by the user, as well as malfunctions resulting from use that does not comply with the operating instructions.

3. Defects caused by improper vehicle maintenance or accidents.

4. Lack of warranty certificate and invoice or inconsistencies between them and the product presented.

5. Wear parts and consumables are not covered by the "three guarantees" warranty. Wear parts: plastic components, rubber components, tubes and tires, instrument panel, bulbs and brake pads.

6. When purchasing the product, consumers should pay attention to the external appearance. External damage occurring after commissioning is not covered by the warranty.

7. Unauthorized disassembly of components other than those specified in the user manual.

8. Damage caused by interventions or repairs without the consent of the authorized service station or after-sales service center.

II. Warranty

Users must operate and use the product correctly according to the instructions in the user manual. For malfunctions caused by manufacturing quality, in accordance with the national product warranty regulations such as the "Product Quality Law", the "Law on the Protection of Consumer Rights and Interests" and the "Regulations on the Responsibility for Repair, Replacement and Return for Part of the Products", as well as in accordance with the warranty provisions provided by our company, we are committed to fulfilling the obligations of the "three guarantees" service (repair, replacement, return).

Principles of the guarantee

A. For all spare parts that are defective during the warranty period and under the conditions provided for by the warranty, authorized after-sales service and maintenance stations must provide "three guarantees" services.

B. For all services within the scope of the warranty, presentation of the warranty card and purchase invoice is required.

C. For spare parts that present defects outside the warranty period or conditions, but that meet the technical repair conditions, our company will provide repair for a fee, depending on the case.

D. In case of battery replacement after the warranty period expires, our company will provide a new battery at a preferential price, without exception. However, the old battery must be returned for exchange, one by one, to the manufacturing factory, to prevent environmental pollution.

II. Scope of the guarantee:

1. If the frame, front fork, handlebar, rear fork, or front and rear shock absorbers have welds loose or broken, we will replace them.
2. If the speed control lever, cut-off brake, main switch, control panel
If the instrument cluster, converter, metal horn, light signaling device, brake relay or anti-theft alarm has malfunctions caused by quality problems within six months and can no longer be used normally after repair, we will replace them.
3. If the aluminum front wheel or brake hub cap cracks or breaks,
If they become seriously deformed within six months, we will replace them.
4. If the saddle or rear support fracture within three months, we will replace them.
5. If the controller or charger malfunctions within one year,
we will replace.
6. If the engine has any malfunctions, we will repair it within three years
(for geared motors, the warranty period is two years).

(We provide a three-month warranty on the motor core. Damage to the motor caused by water immersion or unauthorized disassembly is not covered by the warranty. The motor wheel and housing are not covered by the warranty if the damage was caused by external forces.)

Stimați utilizatori,

Vă mulțumim sincer pentru alegerea făcută în favoarea vehiculului nostru electric. Vom parcurge împreună un drum spre o viață mai bună. Prin angajamentul nostru față de calitate, inovație și servicii, ne propunem să vă oferim o experiență în care să cumpărați cu încredere și să folosiți cu plăcere, devenind un partener de nădejde în viața dumneavoastră. Este o onoare pentru noi să vă fim alături.

Pentru a utiliza corect vehiculul electric și pentru a ne permite să vă oferim cele mai bune servicii, protejând totodată drepturile și interesele dumneavoastră legitime, vă rugăm să citiți cu atenție fiecare secțiune a acestui manual și să respectați cu strictețe indicațiile.

După ce veți parcurge acest manual, veți înțelege aspecte importante precum funcțiile și caracteristicile vehiculului electric, modul de utilizare, informațiile legate de siguranță, cerințele de întreținere și îngrijire, procedurile privind satisfacția clientului, precum și serviciile post-vânzare. Vă rugăm să acordați o atenție deosebită informațiilor marcate cu roșu în acest manual.

Formulăm prin prezenta următoarele declarații importante:

Ilustrațiile din acest manual au rol orientativ pentru operare și nu pot fi utilizate ca referință oficială pentru testarea produsului.

Reprezentările grafice din manual pot diferi față de produsul real. Vă rugăm să vă raportați întotdeauna la produsul efectiv.

Compania își rezervă dreptul de a modifica informațiile din acest manual fără notificare prealabilă. Vă mulțumim pentru înțelegere.

Având în vedere că informațiile din acest manual pot fi actualizate după tipărire, vă recomandăm să contactați distribuitorii autorizați ai companiei noastre pentru a obține cele mai recente date.

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Chapter 7 User satisfaction assurance procedure

Your satisfaction is our goal. Our distributors' authorized after-sales service centers handle issues such as maintenance and the application of the "three guarantees" warranty for any vehicle. However, although we want everything to go perfectly, situations may arise that create discomfort and affect your satisfaction with our brand.

If your problem is not resolved satisfactorily, you can resort to the following methods:

1. Talk to the supervisors of the authorized after-sales service center. Generally, they will find solutions that will please you.
2. If the local after-sales service center cannot solve the problem satisfactorily within due to real difficulties or the proposed solution method, you can contact the Customer Relations Department - After-sales Service of the Central Office. To make it easier for you, you can call the company's toll-free hotline, so that your problem is resolved in a timely manner and our services provide you with full satisfaction.

When calling the phone number, please provide the following information to enable Our After-Sales Service Department to handle the request promptly:

1. Your name, address and contact telephone number;
2. Date and place of purchase;
3. Description of the problem and your requirements.

Chapter 8 After-sales service

Dear users, in order to earnestly protect your legitimate rights and interests and improve product quality and civil liability, our company, in accordance with the provisions of the "Law on the Protection of Consumer Rights and Interests", inspired by the spirit of Document No. 35/1966 issued by the National Bureau of Technical Supervision and taking into account the characteristics of the motorcycle / light electric vehicle type product, has developed the following concrete regulations on after-sales service. Please read them carefully.

Please keep the warranty card carefully. It cannot be replaced if lost. The warranty card, together with the purchase invoice, are the valid proof documents for owning the vehicle and benefiting from the services offered by our company.

3. Installing the rear box: fix the box on the rear bracket and install the accessories inside it. It is mandatory to adjust the box to the optimal position and fix it firmly. Check if there is any play or looseness in the fixing.

4. Installation of rearview mirrors: During installation, pay attention to the differentiation between left and right threads. The recommended tightening torque is 20–25 N·m.

5. Battery installation: The battery connection is in series. When installing, check whether the connections are made firmly. There should be no looseness. If the battery holder is a sheet iron box welded to the frame, place the battery according to Figure 5-1 on the right.

The battery clamp must not press on the connection cables, to avoid a possible short circuit caused by a broken electrical wire, which could damage the battery or the vehicle.

6. All installation operations must be carried out with the center stand raised, to avoid accidents or damage to the vehicle caused by its movement following an incorrect maneuver.

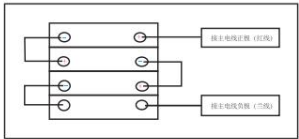


Figure 5-1

Chapter 6

Analysis and troubleshooting of common faults

Common fault	Possible cause of the malfunction	Troubleshooting
You turn on the power, but no display appears on the instrument panel.	1. The electric lock switch is defective or the connector has poor contact. 2. The battery output socket has poor contact or the fuse is blown. 3. The circuit breaker is not turned on.	1. Replace the electric lock or connector assembly; 2. Check and replace the power plug or replace the fuse wire; 3. Turn on the circuit breaker switch.
Turn on the power, but only the power indicator on the instrument panel is on, and the other functions do not work normally.	1. The converter is defective. 2. The converter connector is loose. 3. The converter fuse is blown.	1. Check and replace the converter; 2. Reinsert or replace the connector assembly; 3. Replace the fuse wire.
Turn on the power, other functions are normal, but the engine does not start.	1. The throttle, motor, or controller connector is loose or has come off. 2. The brake or brake pedal does not return to its original position and remains in the off position. 3. The controller is faulty.	1. Check or replace the connector assembly; 2. Check whether the brake or foot brake pedal returns to its original position. If it is faulty, replace it; 3. Replace the controller.
The battery is not charging or not charging fully charged.	1. The fuse inside the battery box is blown; 2. The connector is loose; 3. The charger is defective; 4. There is no power and the charger indicator light does not light up; 5. The battery is worn out and its service life has expired.	1. Replace the fuse wire; 2. Check or replace the connector assembly; 3. Replace the charger; 4. Check the power supply from the mains; 5. Replace the battery.
Turn on the power, other functions are normal, but the motor does not run.	1. Before use, the battery is not sufficiently charged; 2. The tire pressure is insufficient; 3. The battery is worn out or defective; 4. The slope is too steep, the wind is too strong, the braking is too frequent, and the load is too heavy; 5. The battery does not charge or does not charge fully.	1. Fully charge before use; 2. Make sure there is enough compressed air; 3. Replace the battery; 4. Drive at low speed and reduce the frequency of braking and starting; 5. Check as indicated in the column above.
Turn on the power, other functions are normal, but the motor does not run.	1. It is not properly secured or has become loose; 2. The screw or nut has worn threads.	1. Check and fix in time; 2. Replace the standard part with one of the same specification.

Chapter 1

Overview of the exterior components of the assembled vehicle

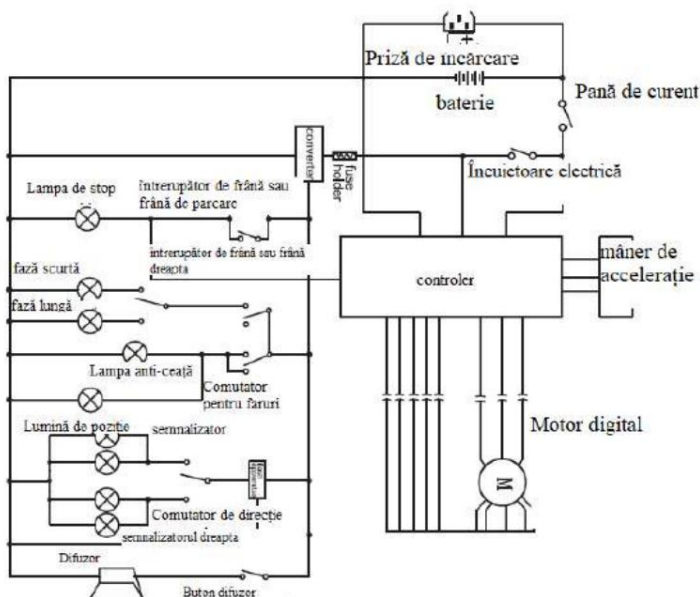
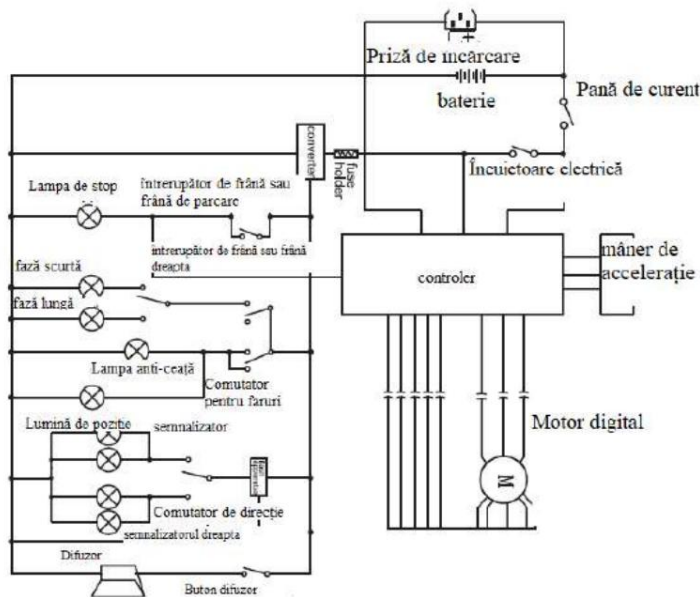


1. Rearview mirror 2. Helmet visor 3. Turn signal 4. Headlight 5. Panel front 6. Front wheel 7. Front shock absorber 8. Side jack 9. Charging socket 10. Rear wheel motor 11. Rear shock absorber 12. Brake 13. Rear box 14. Saddle

For the specific model and details on spare parts, please refer to the after-sales service album.

Chapter 2

Electrical operating principle diagram



5. During operation, the charger will generate a certain amount of heat. It is forbidden to place combustible materials under the charger, such as flammable plastic or foam; it is forbidden to cover the top of the charger or the area around it. Please use the charger in a well-ventilated environment. If you smell an unusual odor during the charging process or find that the temperature of the charger housing is too high (the surface temperature of the housing exceeds 65°C), stop charging immediately and take the charger to an authorized service center for inspection.

6. Frequency of inspections and maintenance

Check: ● Adjustment and maintenance ○ clean ▲ Lubrication △

Layout for general overhaul and maintenance	Every day	Every month
The steering handle rotates easily, without play or interference;	● ○ ▲	● △ ▲
Check whether each signal lamp, speaker and lamp are working normally;	● ○	● ▲
Check that the tire pressure is normal and that the vehicle rolls smoothly, without play;	● ○ ▲	● ○ ▲
Check if the supporting part of the structure has any deformations, cracks or play;	● ○ ▲	● ○ ▲ △
Check if the brake is working properly and if it is worn;	● ○ ▲	● ○ △
Check whether the vehicle's current limiting protection and undervoltage protection are in normal condition;	●	● ○ ▲
Check if the anti-theft alarm function is active and if the other locking functions are working normally;	●	● ○ ▲
Check if the charger is working normally;	●	● ○ ▲
Check if the battery is charged.	●	● ○ ▲

If you perform maintenance according to the above plan, the life of your vehicle will be extended.

V. Assembly instructions

In order to facilitate packaging and transportation, after the quality inspection at the factory, this product is delivered with some parts such as the front wheel, rear box, bumper, rearview mirrors, front fork guard and battery removed. Therefore, the vehicle can only be used after these parts are reassembled. When the vehicle is sold, it can only be used normally and delivered to the customer after it is assembled according to specifications by qualified personnel at the dealer store.

2. Front wheel installation: The nuts required for fixing the front wheel are in the rear box. When installing the speed sensor wheel, it should be checked whether the gear in the brake drum is complete. When installing, align the wheel groove with the gear ring stopper and rotate the front wheel. After the speed indicator needle on the panel works normally and sensitively, fix the front wheel with a tightening torque of 45~50 Nm.

2. Bumper installation: the screw supplied with the vehicle or a screw of the same length and specifications must be used.

Maintenance:

To extend the life of the rechargeable battery, please charge it immediately after each use.
Make it a habit to charge frequently. Once a week, perform a long-term charge (over 8 hours) for regular battery maintenance.

When the power indicator on the instrument panel is in the yellow area, please charge immediately.

Store the battery in a fully charged state and recharge it once a month. Storage in a "discharged state" is prohibited.

Storage environment for the storage battery: avoid contact with fire, heat sources and alkaline substances, and keep away from direct sunlight. It is recommended to store it indoors.

Because the battery temperature is high after use in the summer, it is not recommended to charge it immediately.

Do not charge the Lima special battery with a charger from another brand.

It is forbidden to install a battery of another brand on our electric vehicle, as different polarities may cause the controller to burn out.

IV. General inspection and maintenance of the charger**Overhaul:**

The user must not disassemble the charger for repairs, to avoid the risk of electric shock;

Charging process: When you connect the charger to the power source to charge the battery, the charging indicator light will be red, indicating that the battery is in the constant current charging stage. When the charger enters the constant voltage charging mode, the orange light will be on, indicating that the battery is 90% charged. When the green and orange lights start flashing alternately and then only the green light remains on (after about an hour), it means that the battery is practically 100% charged.

If charging continues, it enters an online maintenance process, maintaining or restoring the battery capacity. After maintenance is complete, the charger will apply a low-intensity top-up current. If charging continues after this, the process returns to the online maintenance phase again.

If abnormal operation is observed, please take the charger to an authorized service center for repair or replacement as soon as possible.

Maintenance:

In areas with unstable mains voltage, it is recommended to use a low-power voltage stabilizer.
If the mains voltage fluctuation exceeds AC220V $\pm 20\%$, there is an increased risk of damage to the charger;

During charging, it is forbidden to cover the charger or battery box with other objects, to ensure proper ventilation and heat dissipation;

When transporting the charger, strong blows or shocks are prohibited, as they may damage it;

When using and storing the charger, avoid letting liquids or metal particles get inside it to prevent internal short circuits and damage to the device.

Chapter 3

Daily checks and adjustments

1. Checking and adjusting the brake system

1.1 Do the left and right brake levers work properly? Can they automatically cut off the power supply during braking?

1.2 When driving on a dry road at a speed of 20 km/h, the vehicle must stop safely in a maximum of 3.8 m in the event of emergency braking.

If the braking distance is too long, it is necessary to adjust the front and rear brakes; refer to Article 1.3 of this chapter for the adjustment method. If the brake disc is worn, please replace it at an authorized service center.

1.3 Checking the front and rear brakes: When the brake lever is pressed, from the moment you start to squeeze it until you feel resistance (i.e. the brake starts to act), the lever travel should be between 1 mm and 20 mm (maximum 25 mm). As shown in Figure 3-1, test whether the travel of the lever ends is within the specified range.

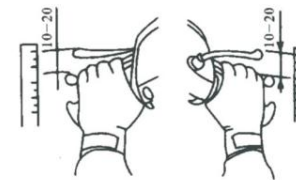


Figure 3-1

1.4 Adjusting the front and rear brakes:

(1) The adjustment of the clearance between the front and rear brakes is shown in Figure 3-2. If the brake does not operate smoothly, it is necessary to adjust the nuts on the adjuster in the direction indicated by the arrow marked "free play decreases" in the figure (generally, the adjustment should be within the range of 1-3 turns). If the wheel feels like it is braking (there is friction between the brake drum and the brake shoes), it means that the brake cable is adjusted too tightly, and the adjustment of the nuts on the adjuster should be made in the direction indicated by the arrow marked "free play increases" (generally, within the range of 1-3 turns).

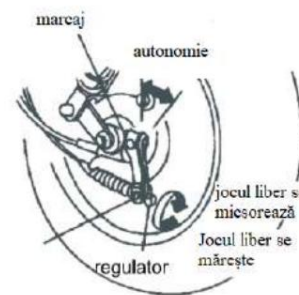


Figure 3-2

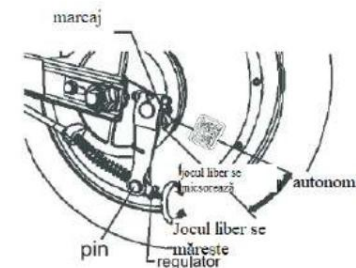


Figure 3-3

(2) The adjustment of the clearance between the rear brakes is shown in Figure 3-3. If the brake does not operate smoothly or the brake cable is adjusted too tightly, the nut on the adjuster should be adjusted according to the adjustment method of "free play decreases" and "free play increases" as shown in the figure.

1.5 Check whether the front and rear brakes are causing interference with the wheels by raising the vehicle on the center stand. With the power off, gently rotate the rear wheel by hand and check whether there is a rubbing noise or if there is a feeling of locking or stalling when rotating. Do the same with the front wheel: raise it, rotate it gently by hand and check for rubbing noise or jamming. If such symptoms are observed, take the vehicle to an authorized service center for inspection: whether there is any deformation or whether there are foreign bodies in the brake drum.

2. Checking the fixation

2.1 Check whether the fixing nuts of the connection clamps for the engine, front wheel, rear fork and front and rear shock absorbers are loose;

2.2 Check for play in the connection between the steering handle and the front fork components;

2.3 If you notice any looseness, fix it yourself; if the thread is worn and cannot be tightened anymore, please take the electric vehicle to a service center for repair.

3. Battery capacity

3.1 Start the electric vehicle, accelerate to normal driving speed, and check the energy indicator on the instrument panel. When the indicator needle is in the F (H) position, it means the battery is fully charged; when it is in the E (L) position, the battery has a low energy level; when it is in the yellow zone, it means the battery is discharged and provides a warning — in this case, it must be recharged immediately; when the indicator reaches the red zone, it means the energy level is critical and the electric vehicle may automatically stop for protection.

3.2 Each time you use it, check the battery capacity and estimate the travel distance based on the total capacity of the battery used, to avoid completely discharging it while traveling and the inconvenience caused by stopping the vehicle.

3.3 It is recommended to charge the battery after each use; if the indicator needle is at the bottom of the yellow zone, charging is mandatory.

4. Tire pressure

4.1 If you have a pressure gauge, you can check that the tire pressure is around 300 kPa;

4.2 If you do not have a pressure gauge, you can visually check whether the rear tire visibly sags when someone sits on the vehicle; if so, it means the pressure is too low and needs to be inflated immediately.

5. Operating system and signaling

5.1 Check whether the steering handle rotation is easy and flexible;

5.2 Check that the regulator handle works properly and that it automatically returns to its original position;

5.3 Check that all turn signals, rear brake light, headlight, overtaking signal light, speaker and instrument panel are working properly;

5.4 If any abnormal operation is found, stop using the vehicle immediately and take it to an authorized service center for repair.

Storage: If the electric vehicle is to be stored for a long period of time, please perform the following maintenance work before storage to avoid blocking or damage to moving parts due to rust.

A. Check the vehicle once every three months and perform maintenance on parts that require lubrication;

B. Remove the battery or battery case from the electric vehicle, fully charge the battery and store it in a dry and cool place, and in the meantime charge the battery once a month according to the battery maintenance rules;

C. Check the tires once a month to see if the pressure is sufficient and inflate them in time if it is necessary;

D. Store the vehicle in a dry and cool place with little temperature variation and no corrosive gases, and cover it with a cloth. Provide protective measures against dust, moisture, theft and corrosion.

II. General overhaul and maintenance of the motor and controller

Overhaul:

1. Current limiting protection function: if the electric vehicle climbs a slope under overload conditions, the motor will automatically stop to prevent it from burning out due to overload.

2. Undervoltage protection function: When the electric vehicle is operating with a battery voltage lower than the factory-set minimum working voltage, the engine will automatically stop to protect the battery from damage and reduced service life caused by over-discharge.

3. Anti-theft alarm function (optional configuration): When the electric vehicle is in anti-theft alarm mode, it will sound an alarm or block the engine if touched.

If abnormal operation is found, the vehicle should be taken to an authorized service center for repair. Unauthorized disassembly results in loss of the right to the free warranty offered by the company.

Maintenance:

1. Cleaning: Avoid corrosion caused by hazardous substances such as acids or bases on the surface of the components. If such deposits appear, clean them immediately with clean water. Washing by immersion in water is prohibited.

III. General inspection and maintenance of the storage battery

Overhaul:

1. Our company uses special high-quality "sealed, maintenance-free lead-acid" batteries, which offer outstanding advantages such as large capacity and long service life.

2. Checking the battery capacity: turn on the electric lock. If the power indicator on the instrument panel is in the green zone F (H), it means that the battery is sufficiently charged; if the indicator is in the red zone E (L), it means that the power level is insufficient.

3. During charging, check whether the charger indicator light changes to "orange" and then to "green". If an abnormal situation occurs, immediately turn off the power and take the charger and storage battery to an authorized service center for inspection and repair.

Chapter 5

Proper vehicle inspection and maintenance

General inspection and maintenance of the fully assembled vehicle

Revision:

1. Insert the key into the power switch and turn it clockwise. At this time, the power indicator and battery level on the display screen will light up, indicating that the vehicle is powered.
2. Check the signal lamps: raise the central jack, turn on the electric lock, switch the headlight, taillight, turn signals and position lamp to the ON position and check whether they light up. Turn the throttle lever and operate the front and rear brake levers (in the case of foot brake, lightly press the pedal). If the brake lamp lights up, it means that the brake system cuts off the power normally.
3. Checking the handlebar: raise the center jack and lift the front wheel off the ground, gently rotate the handlebar and make sure there is no binding, stiffness or excessive play.
4. Check the wheels: check if the tire pressure is sufficient and if the rims have visible and severe deformations or cracks.
5. Checking the supporting structural components: check whether the frame, engine, front wheel, front fork, and front and rear shock absorbers have obvious deformation or cracks.

If any of the above is abnormal, please take the vehicle to an authorized or specialized service center for repair.

6. Check the fastenings: use a suitable wrench to check that the fastening bolts on the front wheel axle, engine, front and rear shock absorbers, and rear swingarm are securely tightened.

Maintenance:

1. Washing and lubrication:

- A. When cleaning plastic parts, use a soft cloth or sea sponge and a mild, neutral detergent. After gently wiping the dirty areas, rinse several times with clean water and dry with a dry cloth.
- B. When cleaning alloy parts, to prevent corrosion caused by detergents remaining on the surface, dry them immediately with a clean cloth and apply an appropriate amount of anti-rust oil.
- C. If the vehicle is driven through areas where there are acidic, alkaline or greasy liquids, wash the tires immediately to avoid rubber aging and decreased wear resistance over time.
- D. After washing, lubricate the pivots of moving parts (such as front and rear axles, shock absorbers and front swingarm). Recommended lubricating oils: HL68 type hydraulic oil and 2# type calcium-based grease.
- E. It is forbidden to wash the electric vehicle with a high-pressure water jet, as this may cause malfunctions due to moisture entering the internal electrical components. It is also forbidden to "bath" the electric vehicle (i.e. completely submerge it in water).

6. Anti-theft security system

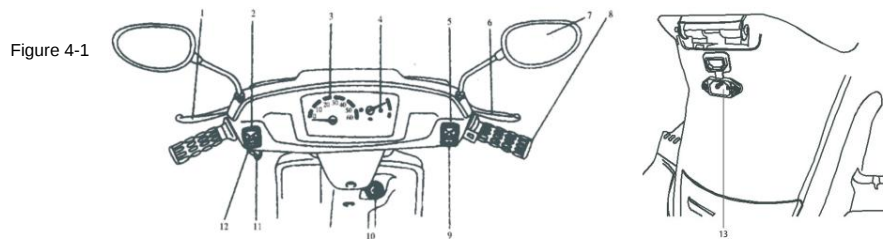
- 6.1 Check whether the four-in-one anti-theft lock can lock the central jack and whether the magnetic reading and password lock cover works properly.
- 6.2 If the vehicle is equipped with an anti-theft alarm, check that it is operating normally.
- 6.3 If an abnormal situation is found, take strict precautions and send the vehicle for repair as soon as possible to prevent material losses.

Chapter 4

Operating instructions for driving the vehicle and important points to keep in mind

1. Function of operating parts

The operating parts structure instructions are shown in Figure 4-1. The function of each part in the figure is as follows:



- 1 - Rear brake handle, 2 - Phase switch (high/low beam), 3 - Speedometer, 4 - Battery level indicator, 5 - Headlight switch, 6 - Front brake handle, 7 - Rearview mirror, 8 - Throttle lever, 9 - Overtaking warning button, 10 - Electric lock, 11 - Horn button, 12 - Turn signal switch, 13 - Charging socket.

1. The rear brake handle (1) is the lever that operates the rear wheel brake and the power cut-off switch. When this lever is operated, the rear brake comes into operation and the rear wheel stops. At this time, the brake light turns on, the controller cuts off the power until the motor voltage drops to zero, the motor stops, and thus provides double safety for the rear wheel.
2. Headlight switch (5) and high beam switch (2). When driving at night, first turn the headlight switch to the first gear. At this time, the position lamp on the instrument panel and the rear position lamp for night driving will light up.
3. Turn the headlight switch to the second position, and the high beam and low beam will start working; you can change the intensity and direction of the headlight beam by controlling the phase switch (dimmer). In the 3D position, the beam shines upward — this is the high beam, with strong light; in the 2D position, the beam shines downward — this is the low beam, with weaker light.
Attention: For safety reasons, when driving at night and encountering an oncoming vehicle, it is necessary to switch the phase switch to the 2D position.
4. When the turn signal switch (12) is turned to the left or right to change the direction of travel, first turn on the turn signal switch. Concrete operation: when you turn it to the R (right) position, the front and rear turn signals on the right side will flash, indicating the intention to turn right. When you turn it to the L (left) position, the front and rear turn signals on the left side will flash, indicating the intention to turn left. The middle position is the OFF position.

4. The speed indicator (3) is the device that indicates the travel speed (unit: km/h) and the distance traveled.

5. The battery level indicator shows the voltage value of the battery. When the needle points to position F (H), it means that the battery voltage is high and the charge is sufficient. If while driving the needle reaches position E (L), it means that the battery is discharged and must be charged immediately.

6. The front brake lever (6) operates the front wheel brake and the brake control switch. At pressing this lever, the rear brake operates and the rear wheel stops. It is important to note that in case of emergency braking, both brake levers (front and rear) must be used simultaneously. Do not use only the front brake, as there is a risk of side skidding.

7. The rearview mirror (7) allows you to observe the presence of pedestrians or vehicles on the left or straight, to ensure safety when turning or overtaking.

8. The speed control lever (8) controls the engine speed, i.e. the travel speed. To accelerate, turn this lever slightly inward (towards you). The wider the rotation, the faster the speed. In the opposite direction, the speed decreases.

9. The overtaking signal button (9) controls the headlight and is used to warn vehicles and pedestrians in front during overtaking maneuvers, preventing accidents.

10. The electrical contact (10) controls the motor controller power switch. Only After the ignition is turned on, the electric vehicle engine can run. In the event of an abnormal failure, when the governor lever no longer controls the engine speed, immediately switch the ignition to the OFF position to stop the vehicle safely and prevent accidents.

11. When the horn button (11) is pressed, the sound signal is activated.

12. The master switch (located in the compartment under the saddle) controls the main power switch. power supply of the electric vehicle. When driving, make sure the switch is in the ON position; when not using the vehicle, turn the switch to the OFF position.

13. The charging socket (13) (located in the underseat compartment or on the center cover) is the charging socket. power supply for charging the electric vehicle battery. When the vehicle is not charging, cover the socket with the rubber cap to prevent contact with other electrical conductors that could touch the charging pins and cause short circuits or ignition malfunctions.

II. Starting the vehicle

1. The position when folding the center stand is shown in Figure 4-2. Hold the rear brake lever with left hand, to prevent the rear wheel from turning; grab and lift the rear handle or stand, then push forward.

(4) As the road becomes slippery in rainy, snowy or icy conditions, please drive at a low speed and brake early. Please note that on rainy days, the braking distance is more than twice that of normal conditions.

IV. Important points to pay attention to while driving

1. Strictly follow traffic rules; do not cut off other vehicles or drive in the lane intended for non-motorized vehicles. When changing direction, turn on the turn signal in time.

2. The rated carrying capacity of the light electric vehicle is similar to that of the motorcycle or the bicycle.

3. It is forbidden to carry an adult. Light electric vehicle that is not equipped with a seat especially for children should not be used for transporting them, to prevent accidents.

4. It is forbidden to ride with objects hanging from the handlebars and to operate the handlebars with only one hand, to avoid wrong maneuvers and accidents.

On uneven, muddy, cobblestone or stepped roads, reduce speed to prevent the electric vehicle from tipping over.

5. When going down slopes or at high speeds, do not brake with one hand or brake suddenly, because there is a risk of overturning. Brake early and reduce speed gradually.

6. At night, turn on night lights to signal your presence to other road users. It is dangerous and wrong to not turn on the lights to save electricity.

7. Do not drive the vehicle in the following situations:

- A. Turn signals, turn signals or taillights are not working properly;
- B. The braking system does not work smoothly;
- C. Night lights (headlight and taillight) do not work – driving at night is not allowed;

D. The structural components (frame, front fork, engine, tires, front wheel axle) have serious quality defects.

8. In the following situations, you must drive at a reduced speed, not exceeding 20 km/h:

- A. In icy, rainy, snowy or foggy weather conditions;
- B. On sloping streets, in residential areas, at intersections or on road sections where there are traffic signs indicating a reduction in speed;
- C. When the vehicle exhibits abnormal behavior.

8. To save energy: on condition of ensuring safety, try to reduce the frequency braking and avoid frequent starts. When starting, turn the throttle lever gradually.

9. On rainy days, avoid driving through water that exceeds the centerline of the wheel to prevent water ingress and damage to the engine or battery.

10. If the electric vehicle suddenly stops, starts intermittently, or stalls when you are riding against the wind, carrying a weight or climbing a slope, this indicates an overload or lack of electrical power. This is a normal phenomenon. If you are on a slope, hold the brake lever firmly to prevent the vehicle from rolling backwards.

3. Charger socket (see Figure 4-16). To charge, insert the charger connector into the battery charging socket.

Charging procedure:

(1) First, you need to insert the charging connector of the charger into the charging socket of the electric vehicle.

(2) Then connect the charger's power plug to a 220V AC mains socket, and charging will begin.

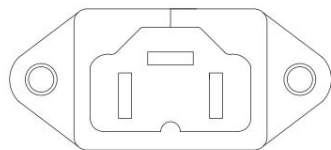


Figure 4-16

(3) After about 6-8 hours of charging, the charger indicator light changes from red to green, which means charging is complete. At this time, you can stop charging.

(4) After charging is complete, first unplug the cable from the 220V AC power outlet, then remove the connector from the electric vehicle charging socket.

If the charging socket is a three-hole type, cover the rubber cap after removing the connector to prevent children from being injured by accidental touching.

If the socket is a "cannon" type, follow the instructions on the warning label: remove the charging connector only after pressing the "PUSH" button, then release the "PUSH" button. Otherwise, you may damage the charger and the charging socket.

! Attention:

- The charger used for this vehicle is specially manufactured by our company and has online maintenance and charging functions, which greatly contributes to extending the battery life. Please do not use other chargers.

- Charging should be carried out in a well-ventilated environment. Please do not charge in places with corrosive or flammable gases.

- If you do not use the battery for a long period of time, you should keep it with a high charge level and make sure to perform a complete charge and discharge cycle once a month. During charging, if you notice that the battery is excessively hot or the charger indicator light is working abnormally, it means that the battery or charger is defective. In this case, stop charging immediately and contact qualified personnel for repair.

- After each use, please charge the battery as soon as possible. This helps to extend its lifespan.

4. Front and rear brake

(1) When equipped with a handbrake, the brake operating mechanisms for the front and rear wheels are mainly located on the left and right levers. The left brake lever operates the rear brake, and the right lever operates the front brake.

(2) If the vehicle has a foot brake, the brake lever on the right side operates the front brake, and the brake pedal operates the rear brake.

(3) When braking, the front and rear wheels must be stopped simultaneously. If only one wheel is braked, the electric vehicle may skid, which is dangerous.

! Attention: At this time, please do not turn the throttle lever, otherwise the electric vehicle will start "by itself" and get out of control.

2. Ride according to the instructions in Figure 4-3. Hold the handlebar with both hands, get on the vehicle from the left side, and sit on the saddle. At this time, the left foot should be on the ground. Before starting the electric vehicle, please do not turn the throttle lever suddenly. You just need to turn it gradually — this not only saves energy, but also allows you to drive safely.



Figure 4-2

! Attention: After turning on the main power, please do not rotate the throttle lever when both the front and rear wheels are on the ground and the rider is not sitting on the saddle, to prevent the electric vehicle from starting suddenly and causing an accident.

3. Observe the surroundings to see if it is safe. Before starting, you must give a starting signal and check whether it is safe in front and behind. At this time, you must hold the rear brake firmly. More importantly, do not turn the throttle lever as shown in Figure 4-4 (press the horn button or signal left/right).

4. After starting, release the rear brake lever, gradually rotate the throttle lever to gradually increase the speed of the electric vehicle, and make sure you understand the operation of the lever during this period, as shown in Figure 4-5. Rotation outward means deceleration, and rotation inward means acceleration. The traveling speed can be controlled by changing the position of the throttle lever. During traveling, please constantly observe the road condition and the surrounding environment.

Figura 4-3



Figura 4-4



Figura 4-5



Figura 4-6

5. The use of the brake is shown in Figure 4-6. Under normal conditions, braking should be done gradually to allow for gradual deceleration. In case of emergency braking, the front and rear brakes should be applied simultaneously. If only the front or rear wheel is braked, the electric vehicle may skid, which may lead to danger.

6. Stopping

- (1) Signaling: You should use your signal in advance to warn other vehicles and pedestrians, then move slowly to the side of the road.
- (2) Turn the throttle lever back, operate the front and rear brake levers — at this moment the brake light comes on, warning pedestrians or vehicles behind.

- (3) After the electric vehicle has completely stopped, turn off the turn signal and turn the key to the OFF position.
- (4) Raise the center jack, as shown in Figure 4-8.
- However, do not park the electric vehicle on soft ground or on a slope to prevent it from overturning, which could cause injury or damage to the vehicle. Especially in places frequented by children, make sure the central jack is locked or warn children not to approach, play with, or climb on the electric vehicle.



Figure 4-7

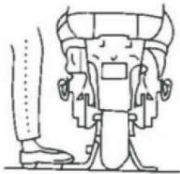


Figure 4-8

5. Locking the handlebar and central jack (for optional models), according to Figure 4-9:

1. Turn the handlebar to the left.
2. Insert the key into the OFF position, press the key, and then let it return to its original position.
3. Turn the key to the LOCK position.
4. Remove the key, turn the lock knob to the right, and the vehicle is locked. When unlocking, there is no need to press — just turn the key from the LOCK position to the OFF position.

! Attention: If the handlebar does not lock, it is not in the correct position. In this case, gently turn the handlebar left and right while turning the key.

7. Using the underseat box. If it is necessary to check the battery, open the underseat as shown in Figure 4-10.

- (1) Insert the electric key into the seat lock hole and turn to the right.
- (2) Lift the back of the saddle and open it.
- (3) Press the saddle lightly and it will lock automatically. If it does not lock, press the saddle firmly and it will lock.

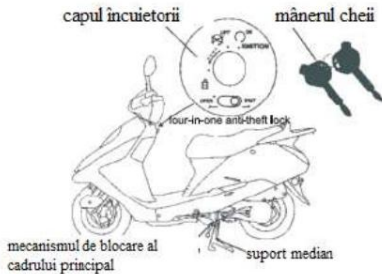


Figura 4-9

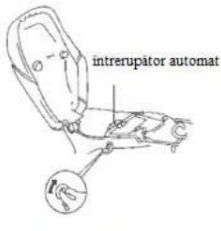


Figura 4-10

III. Operating elements for other parties

1. Flood

2. In the OFF position of the power switch (as shown in Figure 4-11), all circuits are disconnected. In the ON position, the power is on and the engine can be started at any time. In this position, the key cannot be removed.



Note: For vehicle models equipped with "four-in-one" or "five-in-one" anti-theft systems, first align the handle slot vertically and insert it in the direction of the step position on the lock head; the lock can be opened by turning the handle clockwise. At this time, insert the key and turn it clockwise to the position

food.

to turn on the power switch

2. Front box latch, underseat box latch, miscellaneous compartment latch, and rear box latch (see Figure 4-12, Figure 4-13, Figure 4-14).



Figure 4-11

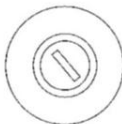


Figure 4-12

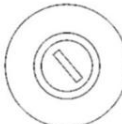


Figure 4-13

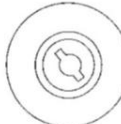


Figure 4-14

2. Controller Instruments and Display (see Figure 4-15)

1. Speed display: indicates the instantaneous travel speed expressed in kilometers per hour (km/h).
2. Distance display: records the total distance traveled by the electric vehicle since first use.
3. Battery level display: indicates the current battery voltage.
4. Power lamp: When the main switch is turned on, this lamp lights up, indicating that power is supplied.
5. Headlight high beam indicator light: When the high beam switch is activated, this light comes on, indicating that the headlight is operating on high beam.
6. Direction indicator lamp: When the left or right turn signal switch is activated, this lamp lights up and indicates that the vehicle is signaling a change of direction.

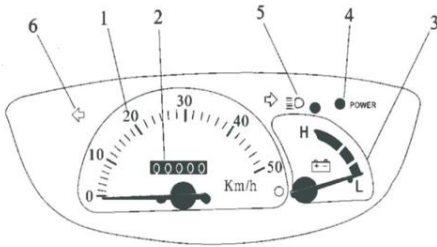


Figure 4-15