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NEOMOR - D01

NEOMOR Automotive

Foreword

Foreword

Thank you for choosing NEOMOR AUTO and becoming a member of the NEOMOR family. This Owner's Manual helps you become familiar with the structure and technical features of your NEOMOR vehicle and understand the correct way to use it. We hope you read this manual carefully before using the vehicle.

The printed version of the "Owner's Manual" included with the vehicle only contains regulations and some important information. Please scan the QR code on the back cover of this manual to view the full electronic version of the owner's manual.

All information in this manual is up-to-date as of the date of publication and is based on product information available at the time of printing.

We are committed to continuously improving our products to meet the ever-growing needs of users. Therefore, the performance, configuration, and appearance of the vehicle you purchased may change without prior notice. If the configuration of the vehicle you purchased is inconsistent with the description in this manual, please refer to the actual product.

If you need to replace vehicle parts, please purchase original spare parts from a NEOMOR authorized service center.

If you have any questions about the vehicle you purchased or this manual, please consult the NEOMOR service center or call the after-sales hotline.

After-sales hotline:02-0239968

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1 Introduction

1.1 Introduction to pure electric vehicles



Please read this manual carefully

This car is a pure electric vehicle.

The key components, system working principles, and characteristics of electric vehicles are significantly different from those of fuel vehicles. Therefore, the instructions in this manual are very important to ensure your personal safety and the safe use of the vehicle. Ignoring these instructions may lead to serious consequences for the safety of the driver and passengers or the vehicle, and may also result in the loss of your vehicle warranty.

This vehicle uses a lithium-ion traction battery pack to store electrical energy. Please ensure the traction battery level is sufficient before driving. During vehicle operation, the traction battery gradually discharges. When the power battery level is low, it must be charged in time, otherwise the vehicle may not be able to run.

This vehicle is equipped with two batteries in total. One is a lithium-ion traction battery (96V), which is used to supply power to the drive motor to propel the vehicle; the other is a lead-acid battery (12V), which is used to supply power to the low-voltage electrical system such as headlights, audio, and horns. The lead-acid battery is charged by the traction battery.

This vehicle traction battery can be charged by connecting the portable charging gun to the power grid. In addition, the vehicle will regenerate energy during deceleration or braking—by generating electricity through the drive motor and store some of the energy into the traction battery, thereby extending the vehicle's driving range.

1.2 Danger/Warning information

In this manual, the warnings and precautions related to personal and vehicle safety are very important.

To ensure the personal safety of drivers and passengers, maintain the vehicle in good condition, and fully enjoy the driving experience, please be sure to carefully read and follow the relevant instructions.

	Danger
	Indicates potential for property damage, personal injury, or death if not avoided.
	Warning
	Indicates that failure to avoid may lead to damage to vehicles and equipment, reducing their service life.
<u> </u>	Notice
	Indicates precautions that should be taken during operation. Ignoring this information may lead to incorrect operation.
0	Reading
	It indicates that before performing a certain operation, be sure to read the relevant sections or contents of this manual first.

1.3 Precautions for beginners

Do NOT overload.

Overload will not only shorten the service life of your vehicle, but also bring hidden dangers to your own safety.

The payload must be limited to the rated value of the vehicle's maximum load capacity, and the load distribution on the front and rear axles should not exceed the axle's carrying capacity. Please refer to the

specifications of the vehicle for relevant information.

Do not modify the vehicle without authorization

Components privately modified are not covered by the manufacturer's warranty. Especially, electrical modifications carry certain risks, and incorrect modifications may result in the burnout of the entire vehicle and casualties. Without the consent of our technicians, any modification by any party is prohibited. Any accidents or losses caused by the user's modification will be borne by the user themselves.

Use qualified oil products

Even during the warranty period, using unqualified lubricating oil, brake fluid, refrigerant, gear oil, etc., which results in vehicle damage, may also void the warranty. Please make sure to use qualified and correct oil products.

Prevent electric shock

All high-voltage cables and connectors of the vehicle are strictly designed, manufactured, and assembled in accordance with national and industry standards.

A Danger

The high voltage cables in the vehicle are wrapped in orange corrugated pipes. Please pay attention to identify them and be sure to comply with the instructions on the high voltage system warning labels.

Except for the necessary operations permitted in the user manual, non-professional personnel are strictly prohibited from touching, dismantling, or replacing any parts in the high voltage system to prevent electric shock.

Other precautions

- Over-discharging will shorten the lifespan of the traction battery. It is recommended to keep the traction battery charge above 20% in daily use, and promptly charge the vehicle when the SOC falls below 20%.
- If the vehicle is not used for a long time, please maintain the power battery charge between 50% and 70%, and disconnect the 12V battery negative terminal cable.

As the years of use and the number of charges increase, there may be a certain degree of decline in the capacity of the traction battery. Due to factors such as individual driving habits, road conditions, ambient

temperature, and other factors, the vehicle's driving range may also decrease.

1.4 Explanation of Indicator Lights

*	Seat belt unfastened		Airbag malfunction		Power battery failure
	Door is open	(P)	Parking indicator		Motor and controller overheated
- +	DCDC malfunction		Charging connection is normal		System failure
((!))	Braking system failure	\$\$\$\$\$ - +	High temperature of traction battery	*	Insulation alarm
	Vacuum alarm	- (;	Motor and controller failure	₹	Smoke alarm indicator
<mark>□</mark> ÿ	Charging status	⊕!	EPS Malfunction		Power battery SOC low
	Traction battery cutoff	∮ FF	Low speed chime off	(!)	Tire pressure warning
	Power limit indicator	(ABS)	ABS Malfunction	() ‡	Rear fog lamp
	Low beam	≣ D	High beam	→ €	Small light
4	Left turn		Right turn	READY	Ready for Drive

1.5 Brief precautions

To maintain the vehicle in good technical condition and ensure driving safety, please inspect, adjust, drive, and maintain the vehicle according to the requirements in this section.

This vehicle is equipped with a high-voltage traction battery, and the drive motor also operates under high voltage. Please do not touch the high-voltage cables (colored orange) and connectors. Do not dismantle or replace the drive motor, traction battery, high-voltage cables, and related components without authorization to prevent electric shock.

▲ Warning

- Do not directly rinse the inside of the cab with water to prevent electronic devices from being damaged by water ingress.
- Do not directly rinse the chassis, motor, battery, and control system with water to prevent damage from water ingress.

▲ Warning

- Do not touch high voltage component with bare hands when high voltage is not disconnected. The high voltage components of this vehicle include: drive motor control unit, high voltage power distribution box, high voltage cables, traction battery, drive motor, charging socket and plug, etc.
- It is strictly prohibited to dismantle the high voltage electrical components in the vehicle without permission, and it is strictly prohibited to unplug or disconnect the high voltage connector and cables without authorization, as it may cause severe electric shock injuries and vehicle damage. The high-voltage cables are all wrapped in orange corrugated pipes, please pay attention to identify them.

∧ Notice

- After driving for a period of time, the surface temperature of devices such as the drive motor and drive controller is relatively high.
- When using air conditioning for cooling during driving, the surface temperature of the electric air conditioning compressor and the radiator is relatively high.
- During the vehicle charging process, the surface temperature of the portable charger is relatively high.

In the aforementioned situation, please do not touch the relevant components with bare hands.

1.5.1 Vehicle inspection before driving

Please check the following items before each drive:

- 1. Is the tire pressure normal?
- 2. Check if the wheel bolts are loose.
- 3. Is the mirror damaged or not?

- 4. Is there any oil leakage under the chassis?
- 5. Whether the brake and parking brake work normally
- 6. Are all the indicators lights on the instrument looking normal?
- 7. Whether the SOC battery capacity can meet travel requirements
- 8. Is the charging port cover closed

1.5.2 Start the vehicle

- 1. Insert the key.
- 2. Turn the key to ON position.
- 3. Wait for the screen to light up (about 2 seconds).

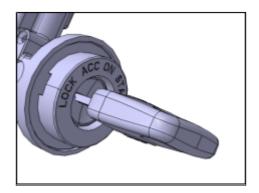
∧ Notice

After turning the key to the 'ON' position, if the system malfunction indicator light turns on, turn the key back to the 'LOCK' position and then turn it to the 'ON' position again.

If the system malfunction indicator light remains on after repeating the above steps multiple times, please disconnect the negative battery cable and wait for 10 seconds or more. Then reconnect the negative battery cable and turn the key to the ON position again.

If the issue remains unresolved, please contact the local service center for assistance.

- 4. While stepping on brake pedal, turn the key to START position, hold for 1 second, then release the key.
- 5. The green 'READY' will be on, showing the vehicle is ready to drive. (If 'READY' does not light up, turn the key to LOCK position and repeat step 2-4).



1.5.3 Driving safely

Tips for using the vehicle safely:

- 1. To start the vehicle, turn the key to the ON position. After the screen lights up for 2 seconds, step on brake pedal, turn the key to START position and stay for 1 second, then release the key. The green 'READY' will be on, showing the vehicle is ready to be driven. (If 'READY' does not light up, repeat the procedure.)
- 2. Before driving, release the handbrake to flat position. (If handbrake is not fully released for a period of time, it will wear and heat up the brake pads, and there will be a burnt smell.)
- 3. For temporary parking, Turn the knob to N position and pull the handbrake to the highest point. (If not in N position, the vehicle might move by mistake. If handbrake not pulled up, it might slip.)
- 4. When leaving the vehicle for a long time, turn the key to LOCK position and pull it out, pull up the handbrake, and lock the door.
- 5. Keep safe distance, pay attention to pedestrians and vehicles. Drive in a good manner, No road rage.

⚠ Notice

- When the vehicle is parked for a long time or loading/unloading goods, please turn off low-voltage electrical equipment.
- If you must turn on the lights or use other electrical equipment, please start the vehicle (with the instrument displaying READY) to charge the 12V low-voltage battery to prevent it from running low.

1.5.4 Common misoperations

1. Turning the key too fast: Fault phenomenon: Unable to start up to READY status, and at the same time, the "Power Battery Cut-off" indicator light is on.

Correct practice: After turning the key to the ON position, wait for 3 seconds for the vehicle to perform a self-check, and then turn it to START after confirming that there are no fault lights.

2. The static vehicle is in D/S/R gear, started without pressing the brake pedal:

Trouble phenomenon: The gear display flickers, and the vehicle cannot be started to "READY". Correct action: Shift back to N gear and press the brake to start.

3. Brake pedal not pressed when shifting gears:

Trouble phenomenon: Unable to change gears.

Correct practice: Press the brake pedal while shifting gears.

4. Power supply is not grounded:

Trouble phenomenon: The vehicle cannot be charged.

Correct practice: Ensure the power outlet is properly grounded.

1.5.5 Charge the vehicle

Use on-board charging equipment

- Power socket: It is required to support 220V/16A
- Power cord for socket: not less than 6 square millimeters of copper wire
- Outlet wiring method: The power outlet must be grounded.

Use public charging piles

- The vehicle can be charged using public AC charging piles.
- Due to different brands of charging piles, there may be matching issues that prevent charging.
- If the vehicle shows no fault and has been charged normally in the past, please try charging at another charging pile when it fails to charge.

♠ Notice

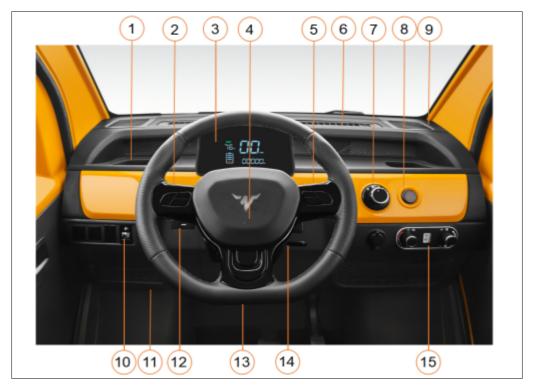
• During the charging process, it is necessary to observe whether the charging pile or the on-board charger is working properly. If there is any abnormality, please unplug the

charging gun and then reinsert it to start charging. If it still fails to charge, please try again by replacing the charging pile or using the portable charger that comes with the vehicle.

- After unplugging the charging gun upon completion of charging, please close the charging port cover to prevent rainwater, dust, and other debris from entering.
- During vehicle charging, please end the charging first in case of an emergency.

2 Know your vehicle

2.1 Dashboard



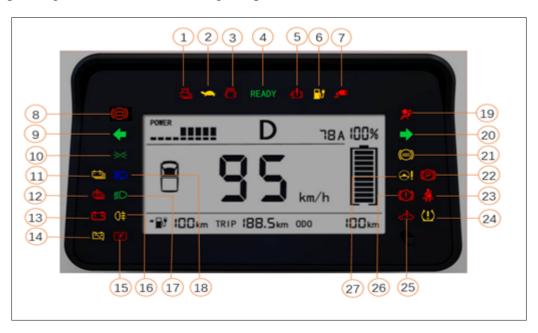
1. Cup holder	2. Light combination switch	3. Combination Instrument
4. Horn	5. Wiper combination switch	6. Air conditioning outlet
7. Shift switch	8. Danger warning switch	9. Loudspeaker
10. Headlight adjustment switch	11. Front hatch switch	12. USB port
13. Steering wheel	14. Ignition switch	15. Air conditioning control panel

2.2 Combination instrument

Indicator lights

1. Working status indicator: It indicates the operating status of the driver vehicle (the corresponding working indicator light remains constantly on).

2. Malfunction indicator: Warns the driver that some system is not functioning correctly (the corresponding malfunction indicator lights up or flashes).



1. High temperature of traction battery	2. Power limit indicator	3. Motor and controller overheated
4. READY indicator light	5. Motor and controller failure	6. Charging status
7. Charging connection is normal or>	8. Vacuum alarm	9. Left turn
10. Small light	11. Traction battery SOC low	12. Power battery failure
13.DCDC Malfunction	14. Traction battery cutoff	15. Insulation alarm
16. Rear fog lamp	17. Low beam	18. High beam
19. Airbag warning	20. Right turn	21. ABS malfunction
22. Parking brake failure	23. Seat belt unfastened	24. Tire pressure warning
25. System failure	26. Brake failure	27. EPS malfunction

⚠ Notice

When the ignition switch is turned to the ON position, the vehicle will perform a system self-check (at this time, some malfunction indicator lamps will illuminate briefly and then turn off). If a malfunction indicator lamp for a certain system remains on or flashes after the vehicle is started, turn the key to OFF and then switch it back to ON. If the malfunction

indicator lamp remains on, please contact the service center for inspection and repair.

2.3 Key

Each vehicle is equipped with a maximum of eight mechanical keys.

- Two long keys are used to start the vehicle and open the door.
- Four short keys are used to open the vehicle toolboxes (each toolbox is equipped with two keys).
- Two keys for the charging port cover (for certain models)

For safety reasons, please divide the keys into two sets and only carry one set for daily use.

Open and close the door lock

Open: Insert the key into the keyhole of the left front side door and turn it clockwise.

Locking: Insert the key into the keyhole of the left front side door and turn it counterclockwise.

♠ Notice

- Each vehicle is equipped with two keys for starting the engine and unlocking the doors.
- It is recommended to keep the spare key in a safe place outside the vehicle to prevent the vehicle from being stolen.
- It is strictly prohibited to turn the key to the LOCK position while driving, otherwise the vehicle may be at risk of losing control.
- Never leave the key in the vehicle when you leave.

2.4 Steering wheel

Press the button marked with on the steering wheel, and the horn will sound immediately The horn can still be used even when the start switch is off.



2.5 Ignition switch

The ignition switch has four switching positions:

- 1. "LOCK": Locked. The key can only be inserted or removed when the switch is in this position, and the steering wheel will be locked after the key is removed.
- 2. Do not turn the key to "LOCK" position while driving, as locking the steering wheel will create extreme danger.
- 3. "ACC": When the key is in this position, the accessory circuit is on.
- 4. "ON": When the key is in this position, the low-voltage circuit is on.
- 5. "START": When the key is turned to this position, the high-voltage circuit will be connected and the vehicle will start. After starting the vehicle, release the key, and it will automatically return to the "ON" position.



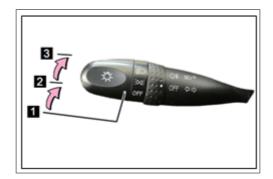
⚠ Notice

- After turning it to START to connect the high-voltage circuit, release the key promptly.
- When the key is in the ACC position, the instrument panel will not light up.
- After parking, please turn the key to OFF position or remove the key.

2.6 Combination light switch

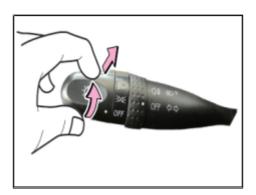
Turn the ignition switch to ON position and rotate the headlamp combination switch:

- 1. OFF: Turn off headlamps
- 2. The front and rear position lights and license plate light are on
- 3. Headlights on, and keep the position lights on



High beam

When the low beam is on, pull the headlamp combination switch away from the steering wheel side and release it to turn on the high beam; push the headlamp combination switch towards the steering wheel side and release it to turn off the high beam.



High beam flashing

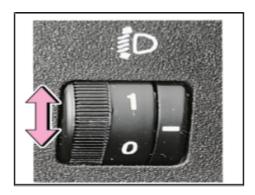
After flicking the headlamp combination switch to the side of the steering wheel and then releasing it, the high beam will flash once, and at the same time, the high beam indicator light on the combination instrument will also flash once.

The high beam can flash when the low beam is off, and it can be turned off by pulling it inwards.

Headlamp lighting distance adjustment switch

The adjustment switch is located on the driver's left side.

The headlamp beam height adjustment knob has four positions (0/1/2/3), which can be adjusted according to the number of passengers and the vehicle's load condition.



Turn signal light

Move the headlamp combination switch upwards to turn on the right turn signal light; move it downwards to turn on the left turn signal light. When the turn signal light is activated, the turn signal indicator on the combination instrument will flash simultaneously.



Rear fog lamp

Rotate the headlamp combination switch to position, and then turn the fog lamp knob to position to turn on the rear fog light. The rear fog light turns off when the fog light knob is turned to OFF position or the ignition switch is switched to LOCK position.



Hazard warning lights

If the vehicle malfunctions or is involved in a traffic accident, please turn on the hazard warning lights to remind other vehicles to avoid it to prevent secondary accidents.

Press the hazard warning light switch, and both side turn signal lights will flash, with the turn signal indicator on the combination instrument also flashing simultaneously; press this switch again, and the turn signal lights and the turn signal indicator will turn off.



⚠ Notice

- When the ignition switch is turned to the LOCK position, the hazard warning lights can still work.
- To prevent the battery level from depleting, please do not turn on the hazard warning lights when the vehicle is not started unless necessary.
- If the vehicle is parked for a long time and not in the READY state, please turn off the headlights to prevent excessive battery discharge that may cause the vehicle to fail to start.

2.7 Wiper system

When the ignition switch is turned to the ON position, the wiper combination switch can be operated. The wiper system has the following working modes:

- 1. Stop mode "OFF": Automatically operates at low speed until it returns to the wiper stop position
- 2. Interval mode "INT": Intermittent operation, where the wiper automatically operates in one cycle every few seconds.
- 3. Low-speed mode "LO": Slow continuous operation
- 4. High-speed mode "HI": Fast and continuous operation



⚠ Notice

- Do not operate the wiper when the windshield is dry, as it may damage the wiper blade or scratch the windshield.
- Do not operate the wiper when there are obstacles on the windshield, otherwise it may scratch the windshield or damage the wiper motor.

Spray water

When the ignition switch is turned to the ON position, pull the wiper combination switch towards the steering wheel and hold it. The front washer will start spraying water, and at the same time, the front wiper will start operating. Release the combination switch, the front washer stops working, but the wiper still operates several times.



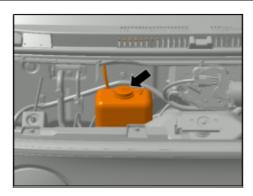


⚠ Notice

The water spray operation should not exceed 10 seconds at one time, and must not be operated when the fluid reservoir is empty of glass detergent, otherwise the water spray motor may be damaged.

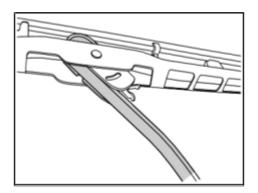
Refill detergent

Open the front compartment cover to access the reservoir for washer fluid. After filling the washer fluid, please close the reservoir cap.



Replace wiper blade

- 1. Lift and hold the front wiper arm, turn the wiper blade to the horizontal position, then pull the wiper blade down to remove it.
- 2. In reverse order, install the new wiper blade and ensure the retaining clip is securely locked. Check and confirm that the front wiper is working properly.



Rearview mirror

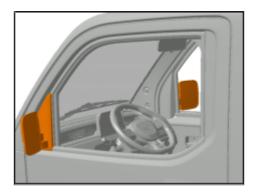
Interior mirror (some models)

The interior mirror is located next to the dome light and is used to observe the situation behind the vehicle. The position and angle of the mirror can be manually adjusted according to the driver's needs.



Exterior mirror

The exterior mirror is manually adjustable, allowing the driver to adjust it in advance according to the actual situation so that they can see the areas along both sides of the road behind the vehicle and some of the field of view on both sides of the vehicle.



2.9 Door glass regulator

The driver can raise and lower the door glass through the handles on the left and right doors according to their needs.

Please close the door glass when leaving the vehicle on rainy days.



2.10 USB port

The USB port is located on the upper left side of the dashboard.

The USB interface (max) supports 5V/2A output, which can be used for charging low-power electrical appliances such as mobile phones.



2.11 Bluetooth audio

This vehicle is equipped with a bluetooth module, allowing users to connect their mobile phones to the vehicle's bluetooth device (Bluetooth Name: DL Niu Mo Wang).

The speaker is located on the top right corner of the dashboard. After successful Bluetooth connection, you can use your phone to play music or make/receive calls, and adjust the speaker volume through your phone.



- When connecting to Bluetooth for the first time, users need to search and match via the Bluetooth settings on their mobile phones.
- If the Bluetooth pairing information on the mobile phone is not deleted, the Bluetooth will automatically connect when the vehicle is started and the signal is normal. When connected, the

Bluetooth device will automatically answer incoming phone calls.

• When reversing, the volume of Bluetooth music will be reduced by half.

2.12 Air conditioning system

Air conditioning control panel

The temperature and airflow of the air outlet can be adjusted using the air-conditioning control panel.



Mode adjustment knob (left)

Use this knob to switch the air conditioning working mode. Rotating the knob clockwise activates heating mode, while rotating it counterclockwise activates cooling mode, and the corresponding indicator light will be on.

Airflow adjustment knob (right)

The airflow adjustment has 8 levels, and the current level is displayed on the control panel. Rotate clockwise to increase airflow, and rotate counterclockwise to decrease airflow. To turn off the air conditioner, adjust the air volume to "0".

Cooling

Rotate the mode dial to the cooling mode, and the cooling indicator light will illuminate. Adjust the air volume to an appropriate level as needed, and the temperature inside the cab will begin to drop.

In hot seasons, after vehicles are exposed to the sun, the temperature inside the cabin will be very high. You can quickly reduce the temperature inside the car by following these steps:

- 1. Lower the window glass.
- 2. Start the vehicle and adjust the air flow to the maximum level.
- 3. Turn on the air conditioning to cool down.
- 4. After the temperature drops, close the window glass in a timely manner, and use the indoor circulation mode to achieve rapid cooling.

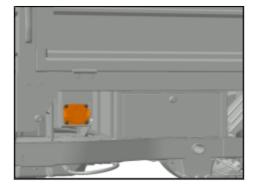
Heating

Rotate the mode dial to the heating mode, and the heating indicator light will illuminate. Adjust the air flow to an appropriate level as needed, and the temperature inside the cab will start to rise.

2.13 Charge the vehicle

This vehicle is equipped with a 3.3kW portable charger.

When the "low battery" warning light on the dashboard lights up, the vehicle needs to be charged. The charging port is located on the left side of the vehicle. Locate and open the vehicle's charging port cover (as shown in the diagram below), then insert the charging gun to start charging.



Charging operation steps:

1. Park the vehicle in a suitable location to connect the charging cable.

- 2. Turn off the vehicle power and pull up the parking brake handle to prevent the vehicle from moving during charging.
- 3. Open the charging port cover and check for any foreign objects inside the charging port to prevent poor contact during charging.
- 4. Insert the charging gun into the vehicle's charging port to start charging.

Charging process

- 1. During charging, the "charging connection indicator light" on the instrument panel will be on. At the same time, the "charging status lights" will also light up. The dashboard will display information such as charging current and battery level.
- 2. The vehicle cannot be driven while the charging gun is connected.
- 3. After charging is completed, the SOC value will display 100%, and the "charging status light" will turn off.

Stop charging

- 1. After charging is complete, unplug the charging gun from the charging port.
- 2. Close the charging port cover in time to prevent dust and foreign objects from entering the charging port.

△ Notice

- When the 12V battery is dead, it will not start charging. During daily use, please maintain the 12V battery well to ensure sufficient power.
- During charging, if the ignition switch is at ON position, the vehicle cannot be started. After unplugging the charging gun upon completion of charging, you need to turn off the vehicle power before starting the vehicle.
- After inserting the charging gun in the READY state, the vehicle will automatically switch to ON state, and the READY indicator light will turn off.

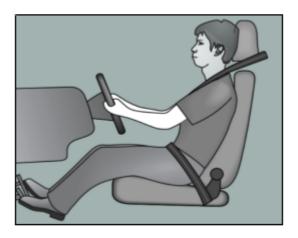
3 Driving introduction

3.1 Seat and seat belt

Seat

The seat, headrest, and seatbelt all contribute to protecting passengers. Please follow the following suggestions:

- 1. Adopt an upright sitting position with the lower back leaning backwards as much as possible, and ensure that the backrest inclination does not exceed 22°.
- 2. Do not position the seat too close to the dashboard. When driving, you should hold the steering wheel with your arms slightly bent. The feet should also be slightly bent to be able to press the pedals to the floor.
- 3. The seat shoulder belt should pass through the center of the outer shoulder, fit snugly, and diagonally across the chest. Do not let the seat belt pass through the neck. The lumbar belt should fit snugly around the hips, not the stomach.



Seat adjustment

Backrest adjustment

Pull up the handle on the left side of the seat and use your body weight to change the inclination of the seatback. After adjusting the seatback to the desired angle, release the handle to secure the seatback.

Back and forth adjustment

Pull up the adjustment lever located at the front bottom of the seat to move it forwards or backwards.

After adjusting to the appropriate position, release the adjustment lever and then rock the seat forwards and backwards to confirm that the seat is locked onto the slide rail.



Seat belt

After getting on the vehicle, please adjust the seat, then fasten the seat belt and ensure it is not loose, twisted, or obstructed.

Wear seat belt

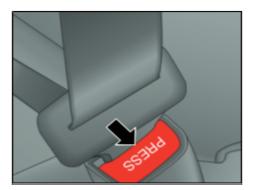
Pull out the seat belt and insert the seat belt plug into the seat belt buckle until you hear a "click" sound. If the seat belt cannot be pulled out, please pull it hard once and release, then the seat belt will be smoothly pulled out.

⚠ Notice

Insert the seat belt into the buckle until you hear a "click" sound; otherwise, the seat belt may not be properly locked.

Unbuckle the seat belt.

Press the red button on the seat belt lock with your finger to eject the seat belt buckle.



▲ Warning

- Please regularly check if the seat belt is damaged or worn.
- A stretched seat belt (such as after a traffic accident) must be immediately replaced by contacting an authorized service center, and the related components of the seat belt should also be checked.

3.2 Starting and shutting down the vehicle

Introduction to Gear Positions

N (Neutral): This gear should be engaged before starting the vehicle and after turning off the ignition switch.

D (Drive): After starting the vehicle, press the brake pedal, shift to D gear, release the brake pedal, and lightly press the accelerator pedal, then the vehicle will drive normally.

S (Sport): Generally used for climbing hills and overtaking. The maximum speed in S gear is higher than that in D gear.

R (Reverse): After starting the vehicle, engage the reverse gear to move backwards.



Start the vehicle

- 1. Open the door, sit down and adjust the seat, fasten the seat belt, adjust the inside and outside mirrors.
- 2. Insert the key into the ignition switch, turn it to the ON position, wait for two seconds, and then turn it to the START position to start the vehicle.
- 3. Confirm that the green "READY" indicator light on the instrument panel is illuminated and that no fault lights are on.
- 4. Press the brake pedal and rotate the shift knob to the corresponding gear.
- 5. Release the brake pedal, disengage the parking brake, and lightly press the accelerator pedal to move the vehicle forward.

When the vehicle speed is below 20 km/h, the vehicle will emit a "ding-dong" sound to alert pedestrians outside. When reversing, the vehicle will also emit the same warning sound.

Shut down the vehicle

- 1. After parking the vehicle in an appropriate position, rotate the shift switch to the N gear.
- 2. Turn off the electrical equipment in the vehicle and turn the key to OFF.
- 3. Pull up the handbrake to ensure the vehicle is stably parked.
- 4. Unbuckle the seat belt and close the window.
- 5. Lock the car door with the key after getting off.

3.3 Braking system

This vehicle adopts an ABS+EBD braking system, utilizing an electronic vacuum pump as the vacuum source. The vacuum pump provides vacuum assistance to the vacuum booster, thereby reducing the force required to press the brake pedal.

ABS system

The full name of ABS is the Anti-lock Braking System, which can prevent the road wheels from locking up and still allow the vehicle to maintain steering performance even during emergency braking, enabling you to avoid obstacles.

The ABS system integrates the Electronic Brakeforce Distribution (EBD) system, making the ABS system perform more superiorly. The ABS system does not function during normal braking, it only operates during emergency braking to avoid wheel lockup. During braking, if the brake pedal shudders and makes a sound, it indicates that the ABS system is working. These are normal phenomena. Please do not release the brake pedal at this time.

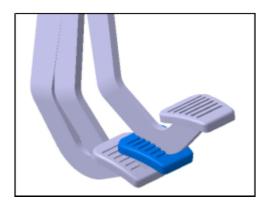
Vacuum boosting system

When the brake pedal is pressed, the vacuum booster starts to work and consumes the vacuum in the system. When the vacuum degree drops to the range set by the vacuum tank (controller), the vacuum pump starts to work and exhausts the air inside the vacuum booster and vacuum tank into the atmosphere. At this time, there will be a "clacking" sound at the lower part of the front compartment, which is normal.

Brake pedal

If the vehicle is towed or the vacuum booster fails to work due to a malfunction, more force is required to press the brake pedal.

It is not recommended to lay floor mats or other coverings on the floor around the brake pedal. If it is indeed necessary, please make sure that the placed floor mats do not interfere with pedal movement and do not slide.



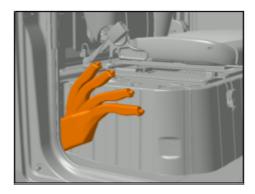
⚠ Notice

- 1. If the fault light for the brake system on the dashboard is illuminated, it indicates a fault in the mechanical part of the brake system or excessively low brake fluid level.
- 2. Please regularly check the brake fluid level as required. If the brake fluid level is found to be too low, please immediately add brake fluid to keep the level between MAX and MIN.
- 3. During vehicle operation, if the indicator is on, it indicates a malfunction in ABS system. Please visit an authorized service center for inspection and repair as soon as possible.

Parking brake (Handbrake)

The mechanical parking brake system uses mechanical cables for braking, and the brake lever is located to the right rear of the driver.

After parking, the parking brake handle should be pulled up tightly to prevent the vehicle from rolling.



Use parking brake

1. Pull up the parking brake lever to apply the parking brake. If the ignition switch is turned on, the parking brake indicator light will illuminate.

- 2. To release the parking brake, slightly pull up the parking brake lever, press the release button on the lever, and then lower the lever.
- 3. The parking brake system acts on the rear wheels. You can apply the parking brake more easily by pressing the brake pedal while pulling up the parking brake lever.

3.4 Steering system

The performance of the steering system directly affects the stability of the vehicle, playing a crucial role in ensuring safe driving, reducing traffic accidents, protecting the safety of drivers, and improving driving conditions.

This vehicle is equipped with an Electric Power Steering (EPS) system, and the presence of a malfunction

in the steering system can be determined by the EPS malfunction indicator lamp on the instrument panel. If the EPS malfunction indicator lamp is illuminated, please visit an authorized service center for inspection and repair.

⚠ Notice

To avoid damaging the steering assistance system:

- Please do not turn the steering wheel when the vehicle is stationary.
- When driving, do not turn the steering wheel to the full lock (to the left or right stop point) for more than 5 seconds.

If the steering assistance system fails, the vehicle may lose steering assistance. At this point, you can still turn the steering wheel, but it will require a lot of effort.

Driving introduction

If the vehicle veers off course or sways while driving, please check:

- 1. Are the tire pressures of the two front wheels the same or close?
- 2. Whether the tire wear is uniform
- 3. Whether the suspension components are loose or worn
- 4. Whether the steering components are loose or worn
- 5. Whether the four-wheel alignment is correct
- 6. After replacing chassis components, is the EPS correctly calibrated?

3.5 Tire

Tires are critical components for driving safety. Please check if the tire inflation pressure is normal, and if there are any damages or leaks before driving. Tires should not be used for a long time with insufficient or excessive air pressure.

Recommended tire inflation pressure

• Standard inflation pressure: 250kPa.

• Maximum inflation pressure: 290kPa.

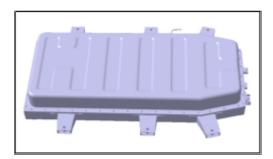
4 Maintenance

4.1 Maintenance of electric drive system

Compared with traditional fuel vehicles, electric-driven vehicles have higher reliability and simpler maintenance, but require regular maintenance of the electric drive system. Please follow the maintenance manual and visit the authorized service center on time to inspect and maintain the electric drive system.

Traction battery maintenance

The power battery pack provides power for vehicle operation, including a lithium-ion battery pack, Battery Management System (BMS), thermal management system, and high-voltage safety system. The battery pack is installed underneath the compartment and can be charged using household electricity.



Before driving

Before driving the vehicle, check if the traction battery is fully charged and if the indicator lights are displaying correctly. If the battery SOC is low, charge it before driving.

Not driving for a long time

- If the vehicle will be parked for a very long time, it is recommended to charge it before parking (SOC should be no less than 50%).
- Check the traction battery every month. If the SOC is found to be below 40%, please charge the traction battery to 80% (it is recommended to keep the SOC between 40% and 80%).
- Meanwhile, maintain the battery well and disconnect the battery negative line if it is parked for a long time.

Wash your vehicle

Maintenance

When washing the vehicle, make sure to tightly close the car doors, front compartment cover, and trunk lid to prevent water from directly wetting the high voltage system and battery pack, which may cause a short circuit in the high voltage system.

Drive motor maintenance

Routine inspection and maintenance items:

- Clean the drive motor housing and cables.
- Secure the wire harnesses for the fixed and accessory parts of the drive motor.
- Check if there is any abnormal noise from the drive motor during vehicle operation.
- Check the drive motor housing for any cracks, damage, and rust, and the cables for any open circuits and short circuits.

Regular inspection and maintenance items:

- Check and clean the housing of the drive motor.
- Check if the drive motor connectors are securely fastened.
- Check if the bolts of the drive motor are tightened.
- Check the insulation of the drive motor.
- Check if there is any abnormal noise from the drive motor during vehicle operation.
- Check if the resistance value of the stator winding of the drive motor meets the technical standards.
- Check whether the resistance value of the drive motor resolver sensor meets the technical standards.
- Check whether the resistance value of the motor temperature sensor meets the technical standard.

4.2 Vehicle maintenance

Routine maintenance

First maintenance

The new vehicle needs to undergo its first maintenance at an authorized service center after being used for 3 months or driving 3,000 km. The first maintenance usually requires replacing the brake fluid and

rear axle gear oil, as well as conducting a safety check on the vehicle.

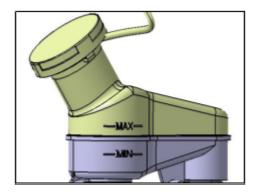
Regular maintenance

The regular maintenance interval for the vehicle is 10,000 km or 12 months. Please visit the service center on time to change the gear oil and conduct a safety inspection. The inspection items include:

- Exterior and interior lights (replace damaged bulbs and clean all glass and mirrors)
- Brake fluid level
- Glass detergent level
- Tire pressure and wear status
- Coolant level
- Check for leaks in pipes and hoses
- Whether the air conditioner works well
- Whether the hand brake works well
- Whether the horn works well
- Whether the fastened parts are loose

Check brake fluid level

Open the front compartment cover to see the brake fluid reservoir. The brake fluid level should be between the "MIN" and "MAX" marks. If it is below the "MIN" mark, please add brake fluid by yourself as soon as possible or take it to the service center.



The brake fluid must be replaced every 2 years or 40,000 km.

▲ Warning

- 1. Brake fluid has strong water absorption, so please do not open the brake fluid reservoir cap for a long time.
- 2. If brake fluid spills onto parts or the vehicle body paint surface, please wipe it off with a wet sponge or rinse it clean with water to prevent corrosion of parts or paint surface.
- 3. Do not allow this liquid to come into contact with skin or eyes. If this happens, rinse the affected area with plenty of water and seek medical attention immediately.

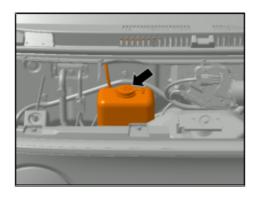
Check 12V battery

The battery is located under the driver's seat. Your vehicle is equipped with a maintenance-free battery. The use of other types of batteries is not recommended. The specifications of the new battery need to match the old one.



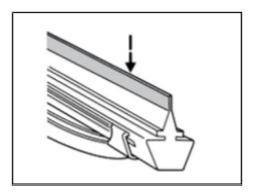
Check the glass washer fluid

Open the front compartment cover, and you can see the glass washer reservoir. The capacity of the fluid reservoir is 1.2 L. Please replenish the glass washer fluid in a timely manner according to actual needs. Please cover the reservoir cap after filling the washer fluid.



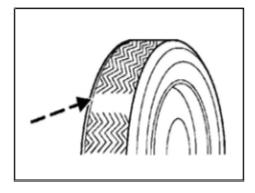
Check wiper blades

- Slide your fingertips along the edge of the wiper blade to check for roughness and stiffness.
- Rough or stiff wiper blades will fail to clean the glass properly, and they need to be replaced in such cases.
- Butter and silicone grease may cause abnormal operation of the wiper blades. It is recommended to use glass washer fluid to clean the wiper blades.



Check tires

- Tire pressure should be ensured to be normal during high loads and high-speed driving. Insufficient tire pressure can affect vehicle stability, increase rolling resistance, accelerate tire wear, and in severe cases, may even lead to accidents.
- If you must mount the curb, please do so slowly. Approach the curb at a right angle with the road wheel as much as possible and avoid vertical and sharp-edged obstacles. Be careful not to scratch the tire sidewall when parking.
- Regularly check the tire surface for cuts, foreign objects, and uneven wear. Uneven wear on tire tread indicates that the road wheel alignment may be incorrect.
- When the tread wear reaches the limit of 3 mm, wear indicator bars will appear on the tread, at which point tire performance and safety are significantly reduced, and the tires must be replaced as soon as possible.

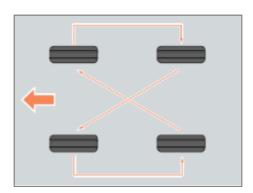


Tire rotation

Maintenance

To maintain uniform wear on all tires, it is recommended to rotate the front and rear tires in the sequence as shown in the diagram.

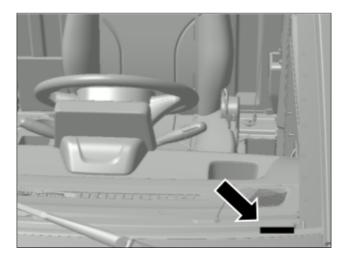
Replace every 10,000 kilometers. The recommended tightening torque for wheel nuts is $120\pm10~N\cdot m$.



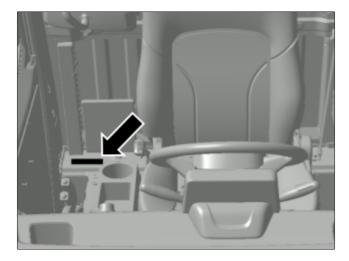
5.1 Vehicle Identification Number (VIN)

Vehicle Identification Number

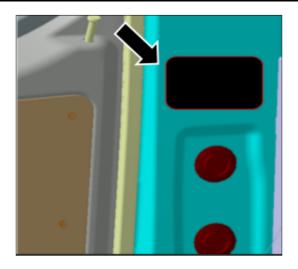
The VIN code is located under the left glass of the dashboard inside the cab.



The other VIN code is located on the crossbeam at the right rear of the driver's seat.

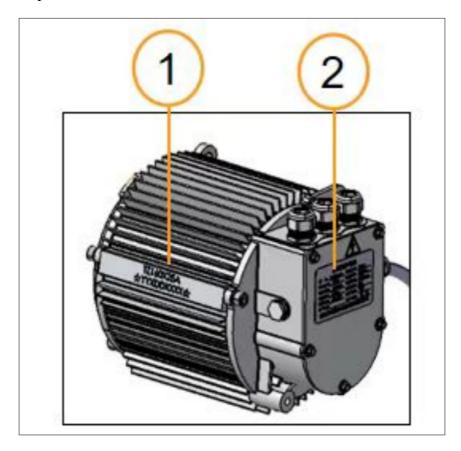


The nameplate is located in the middle of the inner side of pillar B on the right side within the driver's cab.

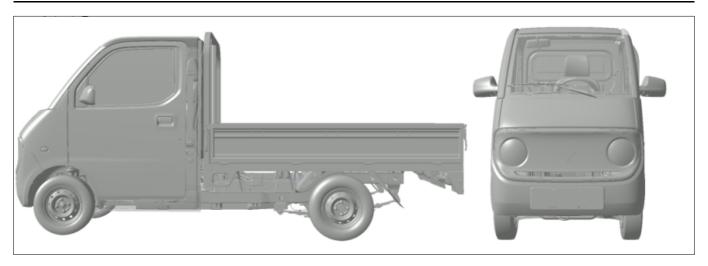


Motor number

- 1. The motor number is located in the middle of the motor housing.
- 2. The motor nameplate is fixed on the rear end cover.

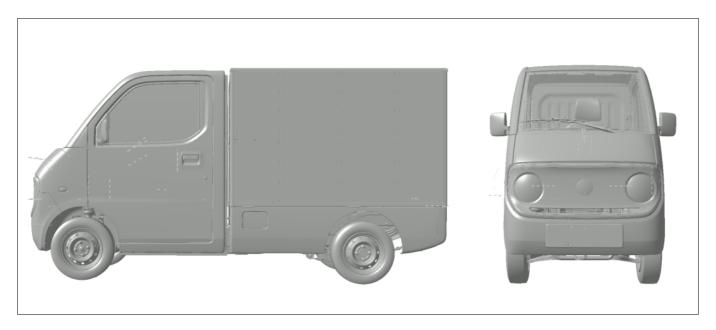


5.2 Overall vehicle dimensions



Micro truck

Vehicle type	Micro truck
Overall vehicle length*width*height (mm)	3495*1200*1705
Internal dimensions of cargo compartment (mm)	1800*1120*320
Wheelbase (mm)	2200



Van truck

Vehicle type	Van truck
Overall vehicle length*width*height (mm)	3300*1080*1700
Internal dimensions of cargo compartment (mm)	1662*1033*1033
Wheelbase (mm)	2200

5.3 Chassis parameters

Drive form

Item	Туре
Driving mode	Rear-mounted rear-wheel drive
Suspension	Front McPherson independent
	Rear leaf spring (non-independent)
Steering system	Electric Power Steering
Braking system	Front disc and rear drum brakes

Wheel and tire

Item		Parameters
Tire type		135/70 R12
Rim material		Steel rim
Tire pressure (kPa)	Front tire	250
	Rear tire	250
Torque of wheel nuts		120±10N·m

Four-wheel alignment parameters

	Item	Parameters
	Camber angle of the front wheel	20'±30'
Front tire	Kingpin caster angle	8°50′±1°
From the	Kingpin inclination angle	4°22′±45′
	Toe-in of front wheels	0'±4'

If the vehicle drifts while driving or abnormal tire wear is found, it may indicate that the wheels need to be re-aligned. Please perform front wheel alignment after replacing the steering gear or disassembling related parts.

Oil specifications

Filling volume

	Filling volume	Specifications
Rear axle gear oil (ml)	800	GL-4 85W/90
Brake fluid (ml)	330	DOT4
A/C refrigerant (g)	260±20g	R-134a
Refrigeration oil		POE68
Glass washer fluid (L)	1.2	

6 Warranty

We provide you with a 3-year or 100,000-kilometer warranty for the whole vehicle, and a 4-year or 150,000-kilometer warranty for core components.

6.1 Warranty period

Warranty for Complete Vehicle

Cate	egory	Parts	Warranty period
BMC system		Traction battery pack, Drive motor, MCU	4 yr / 150,000km
	Key parts	BIW, frame, door assembly, subframe assembly, HV harness, DCDC controller, HV Power box, seatbelt, seat, rim	3 yr / 100,000km
Vehicle	Important parts	Electronic compressor and controller assembly, instrument cluster, CCB assembly, glass, rear axle, halfaxle, swing arm, final reduction drive, drum brake, steering knuckle with disc brake, hydraulic ABS HECU assembly, brake pedal, vacuum pump, vacuum tank, steering gear, electric steering column, intermediate shaft dust cover, BCM, T-BOX, leaf spring, U-bolt, rear suspension, accelerator pedal, shift switch, door lock, side door hinge, battery panel hinge, hood lock, door handle, hub bearing	2 yr / 50,000km
	General parts	Other unspecified parts	1 yr / 20,000km
Vulnerable and consumabl	Class A	LV Battery, Tire	6 mo / 20,000km
е	Class B	Cargo door lock, cargo door hinge, wind hook, wind hook seat, emblem	6 mo / 10,000km

Warranty

Class C	Door seal, weatherstrip, glass groove, Glass seal, top decoration strip, fuse, relay, plug, wiper blade, brake tube, clip, bulb, etc.	1 3 mo /
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Warranty for Spare Parts

Cate	egory	Parts	Warranty period
BMC system		Traction battery pack, Drive motor, MCU	12 mo / 20,000km
	Key parts	BIW, frame, door assembly, subframe assembly, HV harness, DCDC controller, HV Power box, seatbelt, seat, rim	12 mo / 20,000km
Vehicle	Important parts	Electronic compressor and controller assembly, instrument cluster, CCB assembly, glass, rear axle, halfaxle, swing arm, final reduction drive, drum brake, steering knuckle with disc brake, hydraulic ABS HECU assembly, brake pedal, vacuum pump, vacuum tank, steering gear, electric steering column, intermediate shaft dust cover, BCM, T-BOX, leaf spring, U-bolt, rear suspension, accelerator pedal, shift switch, door lock, side door hinge, battery panel hinge, hood lock, door handle, hub bearing	12 mo / 20,000km
	General parts	Other unspecified parts	3 mo / 5,000km
X7 1 11	Class A	LV Battery, Tire	
Vulnerable and consumabl e	Class B	Cargo door lock, cargo door hinge, wind hook, wind hook seat, emblem	None
	Class C	Door seal, weatherstrip, glass groove, Glass seal, top decoration strip, fuse, relay, plug, wiper blade, brake	

Warranty

	tube, clip, bulb, etc.	