Hudson

eBUDDY

USER MANUAL

MAINTENANCE AND WARRANTY MANUAL

Preface

Congratulations and thank you for purchasing the new energy electric vehicle produced by Hudson Automotive EV

This manual has been prepared to help you understand all the characteristics of your vehicle and use it in the best possible way. It contains important information, suggestions and instructions on how to use your vehicle to help you get the most out of your vehicle. It also provides instructions and tips for special features and contains essential information for correct maintenance, repair, safe driving and use.

This manual includes the latest information up to the time of printing. Hudson Automotive EV is solely responsible for the revision and explanation of this manual, and reserves the right to update the product after the printing of this manual without further notice. You can consult the authorized dealer of Hudson Automotive EV for information on product updates. This manual is applicable to all models. You may find that some of the equipment and functions introduced in it may not be available on a specific model of vehicle you purchased. Some of the pictures in this manual are schematic diagrams for reference only. If the pictures do not match the actual objects, the actual objects shall prevail.

Please read this manual carefully before use and keep it properly after reading so that you can use it when you need it. If you want to resell the vehicle, please give this manual and a full set of accompanying documents to the new owner so that the new owner can use it when needed.

Special Statement

Please be sure to read this manual carefully before using this product to avoid losing the right to enjoy the quality warranty service provided by our company due to violation of regulations.

This manual specifies the maintenance cycle and maintenance items of Hudson Automotive EV Please be sure to maintain your car within the specified time and mileage. After completing the specified maintenance items, the authorized service station of Hudson Automotive EV will make corresponding records of the maintenance status to prove that your car has completed the necessary maintenance as specified in this manual. Once your vehicle breaks down, the maintenance certificate in this manual is one of the important bases for the company to confirm the warranty.

Please fill in the "Hudson Automotive EV User Information Card" in this manual and have it stamped by our authorized dealer or authorized service station so that our company can contact you in time when necessary. When the vehicle is delivered, please carefully check the relevant certificates provided to you by the authorized service station staff. If you find that the authorized service station staff has violated the quality warranty service regulations, please contact our service support department in time to coordinate and resolve. During the inspection and maintenance process, the authorized service station of Hudson Automotive EV is obliged to decide on the repair or replacement of equivalent parts according to the situation after consultation with the user.

If you have any questions while reading this manual carefully, please consult Hudson Automotive EV and its authorized service stations for more detailed explanations . We also welcome valuable suggestions from all users.

Wish you a pleasant ride!

User Information Card

Name of purchasing organization or individual:_____

Contact Number:_____

Buyer's detailed address:_____

Province_____City_____Country (District)_____

User Name: _____Contact Number:_____

Purpose of purchase: Company ☐ Private ☐

Vehicle regular use address: _____

Model:_____VIN: _____

Motor Number:_____Power battery pack number:_____

Date of manufacture:_____Date of purchase:_____

Car sales unit (official seal):_____Sales Unit Code: _____

Note:

1. This card consists of three copies. The first copy is filled in and stamped by the authorized dealer and retained by the user for use. The second copy is mailed to the Service Support Department of Hudson Automotive EV by the authorized service station after mandatory maintenance . The third copy is retained by the authorized dealer for filing.

2. If the car is used by an organization, the buyer or user can write the name of the organization; if the user is not certain, please be sure to fill in the buyer's information.

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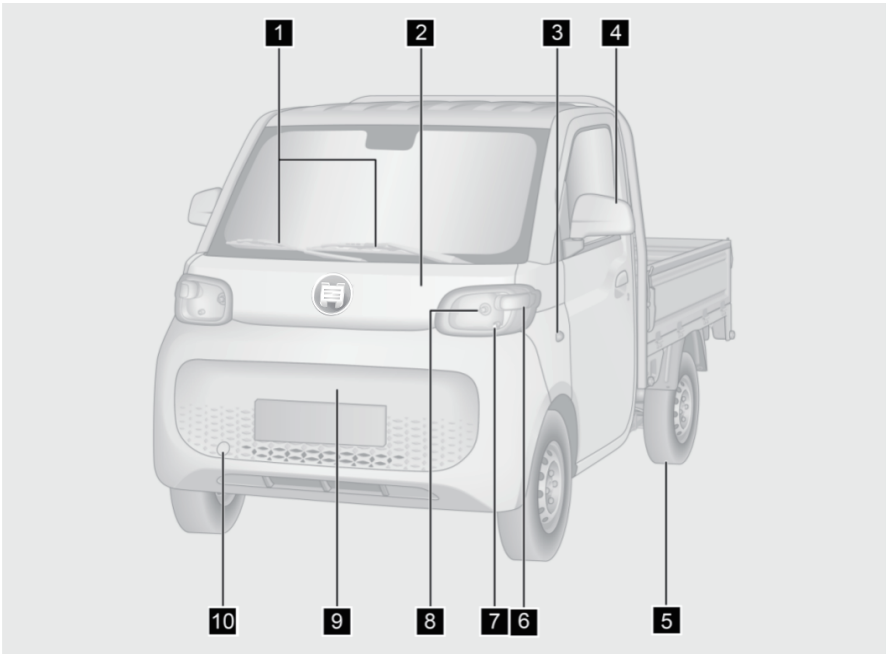
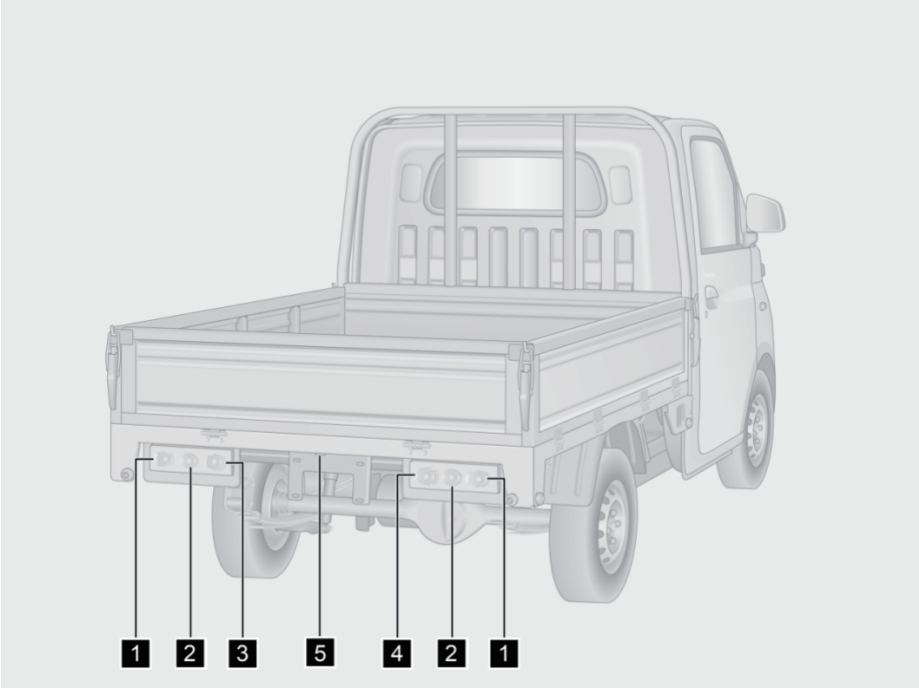
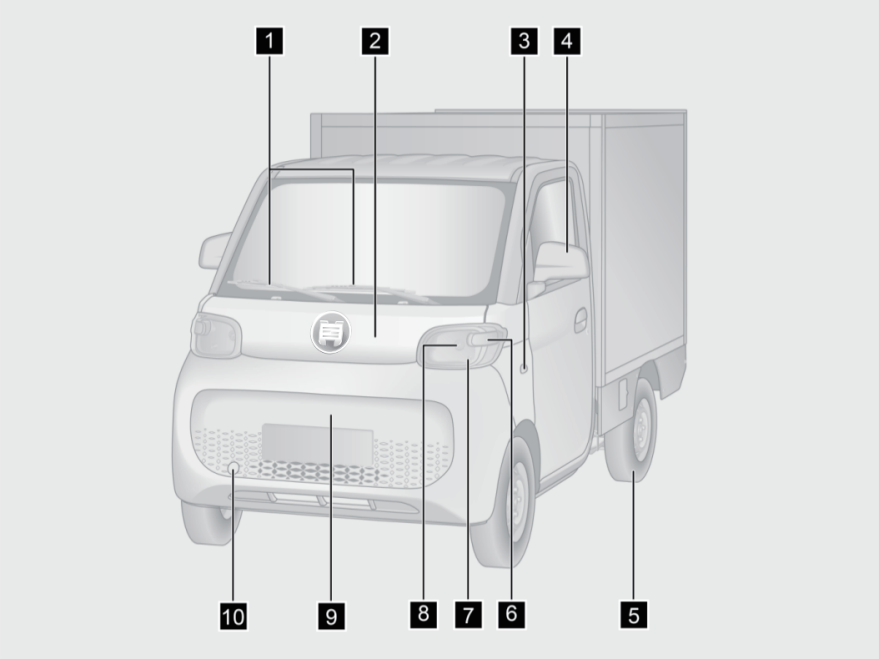


1 Main/auxiliary wiper blade
2 Front cover
3 Side turn signal
4 Exterior mirrors
5 wheel
6 Turn signal
7 Position lights
8 High/Low Beam
9 Front bumper
10 Tow hook cover



1 Position/brake lights
2 Turn signal
3 Rear fog lamp
4 Reversing lights
5 License plate lights



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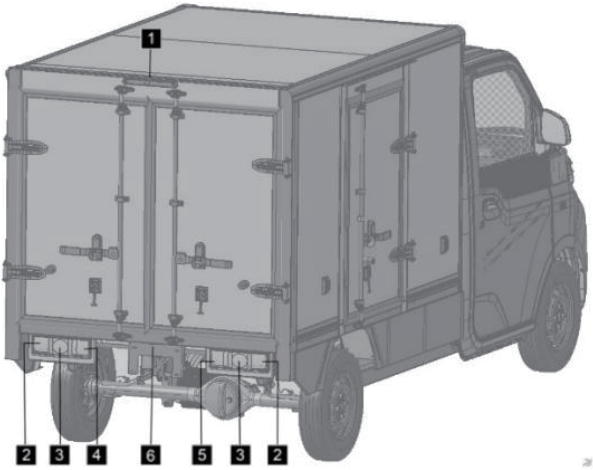
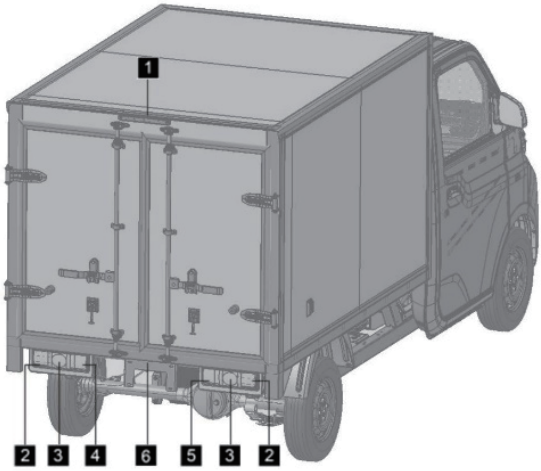
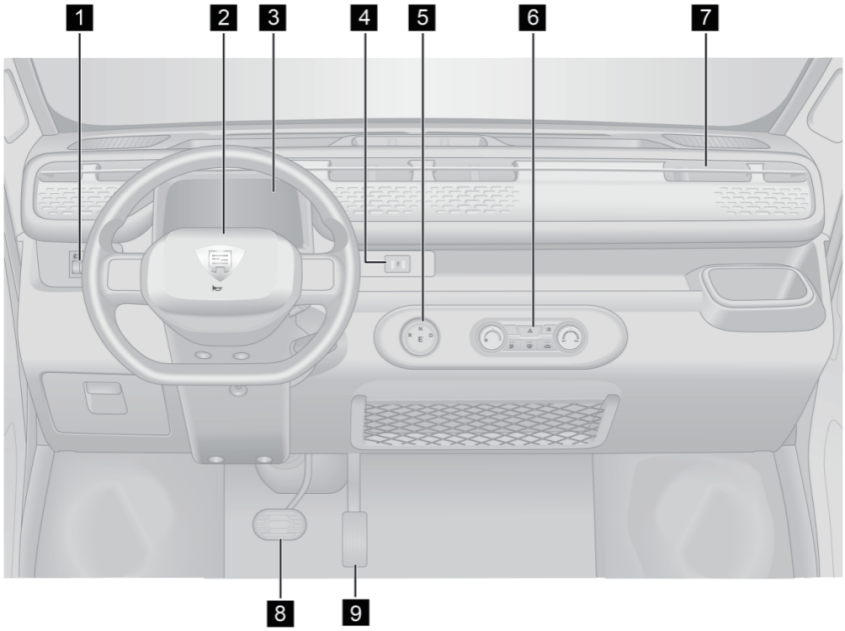


With side door



Without side door

1 High mounted brake light
2 Position/brake lights
3 Turn signal
4 Rear fog lamp
5 Reversing lights
6 License plate light



1 Headlight adjustment switch
2 trumpet
3 Multi-function display
4 USB charging case
5 Electronic shifter
6 Air conditioning control panel
7 Air outlet
8 Brake pedal
9 Accelerator pedal

TableofContents

1-1. Vehicle Equipment

Vehicle Equipment

Please note that this manual contains all standard equipment, national standard equipment and special equipment for this model series. Therefore, some equipment or functions described in this manual may not be installed on your vehicle or may only be available in certain markets. For specific configuration information, please refer to the relevant sales information or consult the dealer where you purchased the vehicle.

1-2. Spare Parts and Modifications

Spare parts and modifications

If you need to replace parts, it is recommended to use the original parts of Hudson Automotive EV for replacement and installation.

Hudson Automotive EV does not provide any guarantee and does not assume any responsibility or obligation for the use of non-original parts of Hudson Automotive EV In addition, vehicle damage and performance problems caused by the use of non-original parts of Hudson Automotive EV are not covered by the quality warranty.

Any modification of the vehicle is not permitted, as it may adversely affect the safety, durability and other performance of the vehicle and violate the limited warranty conditions of the vehicle.

1-3. Timeliness of the Manual

Manual Timeliness

The contents of this manual are the latest information as of the time of publication . In order to meet the needs of users and technological progress, our company will continue to improve and perfect all models. Therefore, our company reserves the right to change vehicle equipment, product design and technical features at any time without prior notice.

1-4. New Car Running-in

New car Running-in

Due to processing and assembly errors, the friction resistance between the moving parts of a new car is much greater than normal in the initial use. The running-in of a new car is mainly to improve the surface quality and friction state of the moving parts and extend their service life.

To ensure the best performance and reliability of the vehicle in the future, the following principles should be followed during the initial 1000 km (kilometer) running-in period of a new vehicle:

•During the running-in period, try to drive on flat roads and avoid driving on muddy or sandy roads.

•Generally, you should not drive at a speed exceeding 50 km/h (kilometers per hour).

•Avoid emergency braking within the first 200 km (kilometers) of a new car, because the brakes do not have ideal friction at this time, and the braking distance during emergency braking is longer than the braking distance after running in. At this time, you can increase the reduced braking force by pressing the brake pedal hard.

•New tyres do not have optimum adhesion when first used, so they should be driven with caution during the first 200 km (kilometres).

•of a new vehicle must be tightened to the specified torque after 1000 km of driving. Similarly, if the wheels have been replaced or the wheel nuts have been loosened, the wheel nuts should be tightened again according to the specified torque after 1000 km of driving.

•Specified torque: 100±10 N•M (Newton meter)

•The rear axle final reducer requires replacement of the rear axle oil during mandatory maintenance after the running-in period.

The drive motor, CDU on-board power supply three-in-one and motor controller are all in normal use after the running-in period.

1-5. Prompt information

Tips

Read
Indicates that you must read the relevant chapters in this manual before any operation.

Notice
Indicates that if not avoided, it may cause damage to the vehicle and equipment and reduce the service life.

Warning
Indicates that if not avoided, property damage, personal injury, or death could result.

Environmental Friendly
It means that waste must be properly handled or disposed of in accordance with local environmental regulations, otherwise it will pollute the environment.

2-1. Multi-Function Display

Multi-function display

Multi-function display view - high configuration

1. Multi-function button
2. Instrument window display area
3. Power battery pack information
4. Page turning button
5. Subtotal mileage
6. Drive system instantaneous power
7. Gear position indicator
8. Power battery pack capacity and cruising range
9. Speedometer
10. Tachometer
11. Total odometer

Multi-function display view - low configuration

1. Subtotal reset button
2. Power battery pack capacity
3. Drive system instantaneous power
4. Subtotal mileage
5. Speedometer
6. Total odometer
7. Tachometer
8. Gear position indicator
9. Time display

Multi-function buttons in instrument window area - high configuration

The following functions can be realized by pressing the button:

1.Short press to operate the instrument window area to achieve the following functions

- Activate the instrument window
- Switch to the first level interface
- Enter the secondary menu of the secondary page
- Confirm your selection

2.When the power switch is in the ON position , press and hold the button 2 If the mileage is reset to zero after a certain period of time , the subtotal

mileage value will be reset to zero (there is no limit on the number of times the subtotal mileage can be reset to zero) .

■ Instrument window display area

It can display multiple screen information, including the main interface, fault interface and setting interface.

■ Power battery pack information

Displays the voltage and current of the power battery pack.

■ Multi-function button

Short press the button to operate the content in the multimedia window area on the right, details are as follows:

- Activate multi-function
- Switch to the first level interface
- Enter the secondary menu of the secondary page
- Confirm your selection

■ Page turning button

Forward/up, backward/down buttons.

■ Subtotal mileage

the total mileage since the last mileage meter was reset or the battery was disconnected. The operating range is from 0 ~ 999.9 km (kilometers). If the battery is disconnected, the sub-mileage will be cleared to zero. When the sub-mileage reaches the maximum value, it will also be cleared to zero (starting to accumulate again from zero).

■ Drive system instantaneous power

Displays the instantaneous power of the drive system (unit: kw (kilowatt)).

■ Gear position indicator

Displays the vehicle's current gear.

■ Power battery pack capacity and cruising range

Displays the remaining power of the power battery pack and the possible driving range.

■ Speedometer

Displays the current vehicle speed (unit: km/h (kilometers per hour)).

Speedometer

Displays the current vehicle speed (unit: km/h (kilometers per hour)).

Tachometer

Displays the motor speed (unit: rpm (revolutions per minute)).

Total odometer

Displays the total mileage of the vehicle (unit: km (kilometers)).

⚠ Notice

- The cruising range is calculated by the on-board computer and is for reference only.
- The actual cruising range is related to many factors, including the current road conditions (such as driving up a long slope), driving habits (such as frequent acceleration and deceleration), temperature (such as low temperature), and whether electrical equipment (such as the air conditioning system) is turned on.
- Do not run the motor at too high a speed for a long time. Long-term high-speed operation may cause the motor to overheat and be seriously damaged.

2-2. Working/fault indicator light

Working/fault indicator light

When the power switch is in the ON position, some fault indicator lights will light up for a short time to perform system self-check. If a system fault indicator light remains on or flashes after the vehicle is started, please immediately contact the authorized service station of Hudson Automotive EV for inspection.

The working indicator light is used to remind the driver of the operating status of a vehicle system, and the corresponding working indicator light will light up. The fault indicator light is used to remind the driver of a vehicle system function failure, and the corresponding fault indicator light will light up or flash.

Vehicle READY status indicator		After the vehicle is started, the indicator light comes on to indicate that the vehicle is ready.
ECO indicator		After the vehicle is started, the indicator light goes out, indicating that the vehicle driving mode is normal mode. The indicator light comes on, indicating that the vehicle driving mode is energy-saving mode.
Left and right turn signal indicator		When you turn on the left or right turn signal, the corresponding turn signal indicator light will also flash. When the hazard warning light switch is turned on, the left and right turn signal indicators will flash simultaneously.
Low beam indicator		This indicator light comes on when the low beam headlights are on.
High beam indicator		This indicator light comes on when the high beam is on.

Position light indicator		This indicator light comes on when the position lights are turned on.
Rear fog lamp indicator		This indicator light comes on when the rear fog lights are turned on.
ABS fault light		If the indicator light is on while driving, it indicates that the ABS system is faulty. Please contact the authorized service station of Hudson Automotive EV for inspection and repair as soon as possible.
EPS fault light		If the indicator light is on while driving, it indicates that the EPS system is faulty. Please contact the authorized service station of Hudson Automotive EV for inspection and repair as soon as possible.
Drive system power limit fault light		If the indicator light is on while driving, it indicates that the drive system may be faulty. Please contact the authorized service station of Hudson Automotive EV for inspection and repair as soon as possible.
Power battery pack low power warning indicator		If the indicator light is on, it means the remaining power of the power battery pack is low. Please arrange your trip reasonably.

Battery charging fault indicator		If the indicator light is on while driving, it indicates that there is a fault in the battery charging system. Please contact the authorized service station of Hudson Automotive EV for inspection and repair as soon as possible.
Driver seat belt unfastened reminder indicator		This indicator light is used to remind the driver that the seat belt is not fastened or not properly fastened. Check and confirm that the seat belt is properly fastened before driving safely.
External charging connection indicator		When charging, this indicator lights up to indicate that the charging cable is connected. If the indicator light does not light up during charging, please check whether the connectors of the charging cable are connected securely.
Vehicle system fault indicator light		If the indicator light is on while driving, it means that the vehicle control system has a fault. Please contact the authorized service station of Hudson Automotive EV for inspection and repair immediately.
Parking indicator		The indicator light comes on when the parking brake is applied. The indicator light goes off when the parking brake is released.
Brake system fault indicator light		This indicator light is used to remind the driver that the brake fluid level is low or the electronic brake force distribution system is faulty. Please check the brake fluid level or contact the authorized service station of Hudson Automotive EV for inspection and repair.

Door not closed indicator light		When the door is not closed, the warning light will be on. When the door is closed, the warning light will be off.
Drive motor fault indicator		If the indicator light is on, it indicates that the drive motor system is faulty. Please contact the authorized service station of Hudson Automotive EV for repair immediately.
Drive motor overheat indicator		If the indicator light is on, it means the drive motor is overheated. You need to pull over immediately to cool down and contact the authorized service station of Hudson Automotive EV for repair.
Power battery pack overheat warning indicator		If this indicator light is on, it means the temperature of the power battery pack is too high. You need to pull over immediately to cool it down and contact the authorized service station of Hudson Automotive EV for maintenance.
Vehicle insulation fault warning indicator		If the indicator light is on, it means that the vehicle circuit may be leaking electricity. You need to contact the authorized service station of Hudson Automotive EV for repair immediately.
Power battery pack cut-off fault indicator		If the indicator light is on, it means that the power battery pack is disconnected and cannot provide power. Please contact the authorized service station of Hudson Automotive EV immediately.

Power battery pack fault indicator		If this indicator light is on, it means that the power battery pack has a fault and the vehicle may not be able to drive normally . It is necessary to pull over and contact the Hudson Automotive EV authorized service station for inspection and repair ; when the battery is low, this light and the low battery warning light are on at the same time, which is a normal phenomenon and needs to be charged in time.
Power battery pack charging status indicator		The indicator light is used to indicate the current charging progress of the power battery pack. Red indicates charging, yellow indicates trickle charging, and green indicates charging is complete.

2-3. Instrument window area

Multi-function display

1 Instrument window area

• Instrument window activation (short press button): When the instrument window is activated, the main, fault, and setting interfaces of the instrument window can be used / operated.

Vehicle Status Interface - High Configuration

Displays the vehicle's non-fault working status/mode, including static/dynamic vehicle model pictures, text, values/bars, etc.

Vehicle status list:

Status Item		Display content	
Door not closed	Left door	Left door not closed	
	Right door	Right door not closed	
	Double Door	Both side doors are not closed	

Status Item		Display content	
Charge	Fault	Charging failure	
	Finish	Charging complete	
	Charging	Charging + Estimated charging completion time	
Driving	Energy Output	Energy output + average power consumption per 100 kilometers	
	Energy recovery	Energy recovery + average power consumption per 100 kilometers	

Fault interface

Display vehicle fault pictures and fault text descriptions

Fault graphic list:

Fault Item	Fault picture	Fault text
Power battery overheating		Power battery overheating
Vehicle insulation failure		Vehicle insulation failure
Drive motor overheating		Drive motor overheating
Power battery failure		Power battery failure
Drive motor failure		Drive motor failure

Fault Item	Fault picture	Fault text
Vehicle system failure		Vehicle system failure
Drive system power limit		Power limited
Braking system failure		Low brake fluid level
Low power battery		Low power battery
ABS malfunc-tion		ABS malfunc-tion

Fault Item	Fault picture	Fault text
EPS Failure		EPS Failure
EPS Not calibrated		EPS Not calibrated
VCU disconnect-ed		VCU communica-tion failure
BMS offline		BMS communica-tion failure

Fault Item	Fault picture	Fault text
MCU offline		MCU communi-cation failure
CDU offline		CDU communi-cation failure
ABS discon-nection		ABS communi-cation failure
EPS Dropped		

Settings interface

key ⏮ ⏭ can only be operated when you are in the setup screen and the instrument window is active

When you go to the settings interface, the brightness settings, subtotal clearing, version query, and configuration query items of the subordinates are displayed simultaneously.

Backlight brightness adjustment:

• Position lights are off, indicating daytime;

The position lights are on, indicating night time.

• When the position light is off, go to Settings → Brightness Settings to adjust the daytime brightness.

Daytime brightness adjustment parameters:

Default value: 70%

Adjustment range: 10% ~ 100%;

Adjustment step value: 10%.

• When the position light is on, go to Settings → Brightness Settings to adjust the brightness at night.

Night brightness adjustment parameters:

Default value: 20%

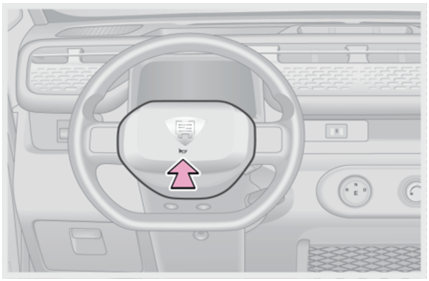
Adjustment range: 10% ~ 100%;

Adjustment step value: 10%.

• The day and night brightness of the multi-function display are not linked.

2-4. Steering wheel

trumpet



Press the center of the steering wheel to sound the horn.

Read

Strictly abide by local regulations on the use of horn.

2-5. Rearview mirror

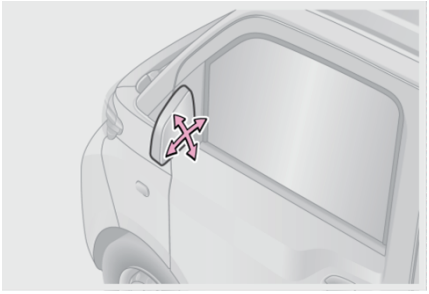
Interior rearview mirror (if equipped)

Adjusting the interior rearview mirror position

Before driving, manually turn the interior rearview mirror to the appropriate position to ensure the driver has the best view.

Exterior mirrors

Manually adjustable exterior mirrors



exterior rearview mirror supports overall four-way adjustment, and you can adjust it in different directions by manually turning the outer shell of the exterior rearview mirror.

Warning

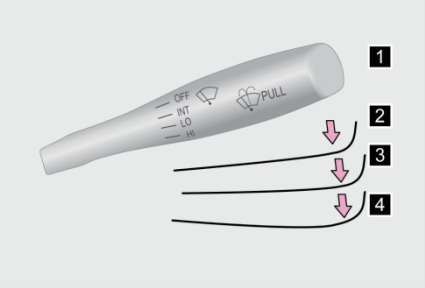
•Do not adjust the exterior mirrors while driving, as this may result in an accident and personal injury or death.

•The exterior mirrors must be unfolded and adjusted properly before driving. Do not drive the vehicle with the mirrors folded.

2-6. Wiper system

Wiper operation

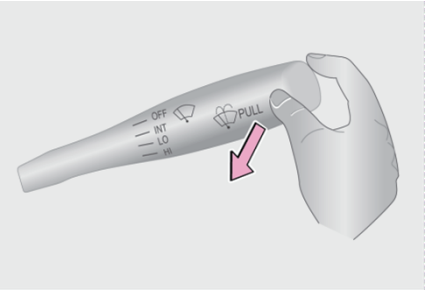
Wiper combination switch



Put the power switch to the ON position and turn on the wiper combination switch:

1. OFF: Turn off the windshield wipers
2. INT: Intermittent wiper
3. LO: Low speed wipe
4. HI: High speed wiper

Pre-washing operation



Put the power switch to the ON position, push the wiper combination switch toward the steering wheel and hold it, the front nozzles start to spray water and the wipers work at the same time, release the wiper combination switch, the front nozzles stop spraying water and the wipers will run in low speed mode for 3 cycles.

Warning

- In freezing weather, it is very dangerous to use windshield washer fluid without antifreeze agent because it may freeze on the windshield, obstructing your vision and causing an accident.
- Using worn or dirty wiper blades will greatly reduce the clarity of the front field of vision and affect driving safety. Therefore, damaged or worn wiper blades that cannot clean the windshield properly must be replaced in time.

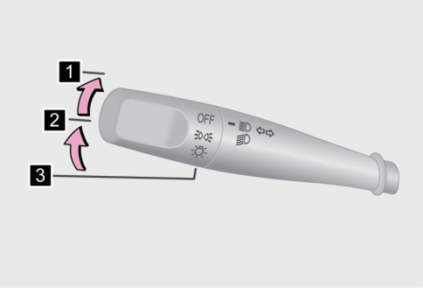
Notice

- Do not use the wipers when the windshield is dry; otherwise, the windshield and wipers may be damaged.
- If the wiper combination switch is pulled and held for a long time, it may cause damage to the washer pump.
- If the windshield washer fluid cannot be sprayed out, check and confirm that the front nozzle is not blocked, and check whether there is washer fluid in the windshield washer fluid bottle.
- When the nozzle is clogged, please do not use a needle or other objects to remove foreign matter by yourself, otherwise the nozzle will be damaged. Please contact the authorized service station of Hudson Automotive EV for inspection and repair.

2-7. Lighting system

Outdoor lighting

Front combination light switch



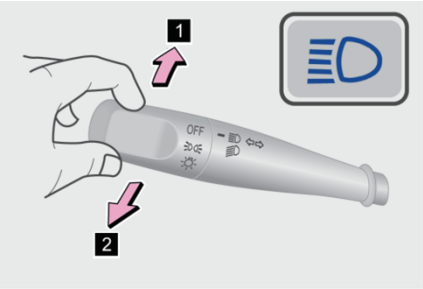
Turn the power switch to the ON position and rotate the front combination light switch:

1. OFF: Turns off the front combination lamps.
2. The position lights, license plate lights and backlights are on.
3. Low beam and all the above lights are on.

Read

Before parking the vehicle for a long time or leaving it, make sure the front combination light switch is turned off to prevent the battery from being discharged excessively and causing the vehicle to be unable to start.

Front combination lamp high beam

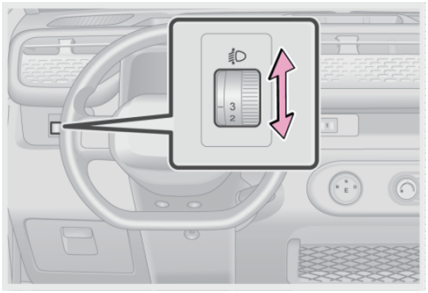


1. When the low beam is on, push the front combination light switch away from you to turn on the high beam. Pull the switch back to its original position to turn off the high beam.
2. Pull the control handle toward you and release it to flash the high beams once.

Warning

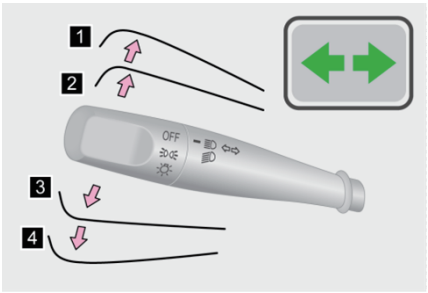
Always switch from high beam to low beam when approaching oncoming vehicles or vehicles ahead of you. High beam can temporarily blind other drivers and could result in a collision.

Front combination lamp beam height adjustment



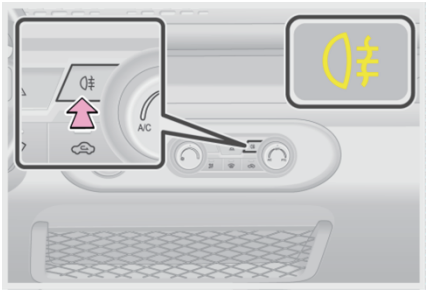
After turning on the front combination lights, you can manually adjust the height of the front combination light beam (0 - 3 levels) according to the number of passengers and the vehicle's load conditions. The larger the value, the lower the light beam .

Turn signal



1. Turn right
2. Change lane right (move the lever to the mid-position and release)
3. Change lane left (move the lever to the mid-position and release)
4. Turn left

Rear fog lamp



When the front combination lamps are in low beam mode, press the rear fog lamp switch on the air conditioning control panel to turn on the rear fog lamps, and the rear fog lamp indicator on the multi-function display screen lights up.

Press the rear fog lamp switch again to turn off the rear fog lamp and the rear fog lamp indicator on the multi-function display goes out.

Read

- When the position lamps are turned off, the rear fog lamps are turned off at the same time.
- Strictly abide by local regulations on the use of fog lights.

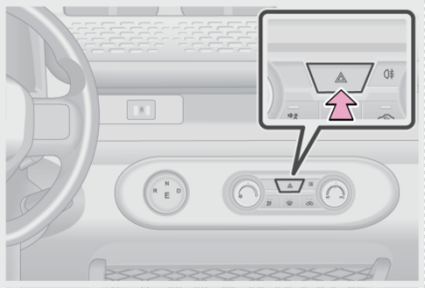
Brake lights

Depress the brake pedal and the brake lights and high-mounted brake light (if equipped) illuminate.

Reversing lights

When the power switch is in the ON position and the gear is shifted to R, the reverse light will come on.

Hazard warning lights

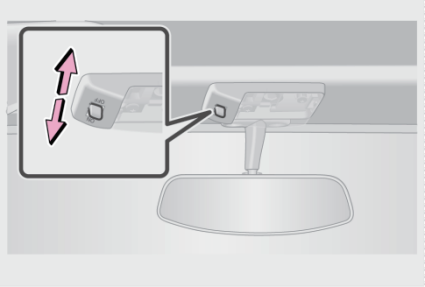


Press the hazard warning light switch, the turn signal flashes, and the turn signal indicator on the multi-function display also flashes; press the switch again, and both the turn signal and the turn signal indicator go out.

If the vehicle breaks down or encounters a traffic accident, please turn on the hazard warning lights to alert other vehicles to give way to avoid a secondary accident.

Interior lighting

Front reading light



ON: Turn on the front reading lights.

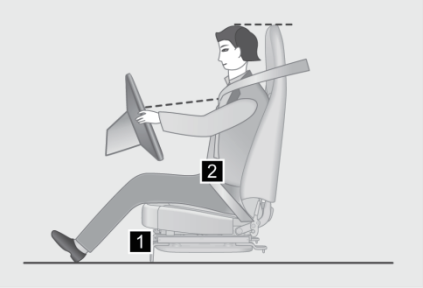
OFF: Turns off the front reading lights.

> ⚠ Notice
>
> Avoid using the front reading lights when driving at night or in dark conditions. A brightly lit passenger compartment can reduce visibility outside the vehicle, which could result in an accident.

2-8. Seats

Correct sitting posture

Seats and seat belts help protect passengers, and making full use of them can provide you with more protection.



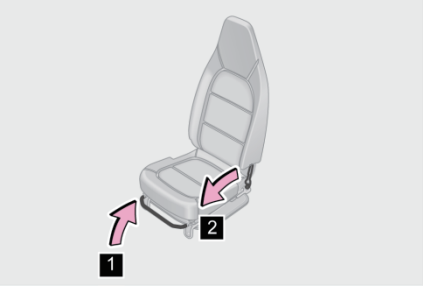
1 Adjust the seat so that you can fully depress the pedals and hold the steering wheel with your arms slightly bent.

2 Fasten your seat belt correctly.

Warning

Before driving, adjust the seat and rearview mirror to the proper position to ensure safe driving.

Front seats



1 Seat fore-aft position adjustment lever

2 Seat back folding adjustment handle
The driver's seat design position (rearmost position) slides forward 120 mm (millimeter) and the backrest angle is not adjustable.
The passenger seat cannot slide forward and backward, and the backrest angle cannot be adjusted.

Warning

- Make sure the seat adjustments are locked in place. Failure to securely lock the adjustable seat and backrest is very dangerous. In the event of an emergency stop or collision, the seat or backrest may move unexpectedly, causing personal injury. Try sliding the seat forward and backward and rocking the backrest to make sure it is locked in place.
- Be careful when adjusting the seat position to ensure that other occupants are not injured when the seat is moved.
- Do not allow a child to adjust the seat. Allowing a child to adjust the seat is very dangerous. If a child's hands or feet are caught, serious injury may occur.
- Do not adjust the seat while driving; otherwise, the seat may move unexpectedly and cause the driver to lose control of the vehicle.

Warning

- If the seat is damaged, it is very dangerous to drive the vehicle at this time. Please contact the authorized service station of Hudson Automotive EV in time for processing.
- Do not place a cushion between the driver or passenger and the seatback. Cushions prevent proper sitting posture and reduce the effectiveness of the seat belt.

2-9. Seat belts

Use seat belts correctly

Before driving, make sure all occupants in the vehicle have fastened their seat belts.

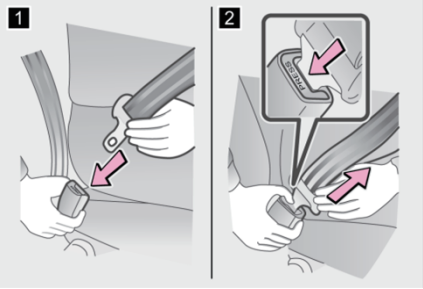
•Stretch the shoulder belt so that it lies diagonally across your shoulder without touching your neck or slipping off your shoulder.

•Position the lap belt as low as possible across your hips.

•With the seatback securely locked, sit upright and lean back.

•Do not twist the seat belt.

Fastening and loosening seat belts



1 Fasten your seat belts

Insert the locking plate into the buckle until you hear a click.

2 Unfasten the seat belt

Press the release button.

Seat belt precautions

Warning When children are in the car

Do not allow children to play with the seat belts. If the seat belt gets wrapped around a child's neck, it could cause strangulation or other serious injury resulting in death. If this happens and the buckle cannot be loosened, cut the seat belt with scissors.

Warning Pregnant women

Please follow your doctor's advice and wear your seat belt correctly.

Pregnant women should also wear the lap belt as low as possible across the hips as other passengers do. The shoulder belt should be stretched diagonally along the shoulders and avoid the belt touching the bulging abdomen. If the seat belt is not fastened correctly, the pregnant woman and the fetus may be seriously injured or even killed in the event of emergency braking or collision.

Damage and wear to seat belts

•Make sure the seat belt and locking plate are locked and the seat belt is not twisted.

•Do not allow the doors to pinch the seat belts, latches or buckles, as this may damage the seat belts.

•Check the seat belt assembly regularly. Check the seat belt fittings for cuts, wear and looseness. Do not use damaged seat belts and replace them. A damaged seat belt will not protect the occupants from serious injury or even death.

•If the vehicle is involved in a serious accident, even if the seat belt is not obviously damaged, you should contact the Hudson Automotive EV authorized service station for inspection and repair.

•Do not install, remove, modify, disassemble or discard the seat belts without authorization. Please contact the authorized service station of Hudson Automotive EV for necessary repairs.

Warning When children are in the car

To reduce the risk of injury during emergency braking, emergency steering, or an accident, please follow the precautions below, as failure to do so could result in serious injury or even death.

•Always wear your seat belt correctly.

•Do not place the shoulder belt under your arm.

•Make sure all occupants have fastened their seat belts.

•Always wear the lap belt as low as possible across the hips.

•Do not insert objects such as coins or paper clips into the buckle as this may interfere with the insertion of the cleat.

•Patients are advised to follow their doctor's instructions and wear their seat belts correctly.

Notice

•Do not allow moisture to penetrate into the seat belt retractor and buckle mechanism.

•Do not use chemical cleaners, boiling water, bleach or dyes to clean the seat belts.

When cleaning the seat belts, use a neutral detergent or warm water, then dry them naturally. Do not use artificial heating to clean them.

•Do not attempt to repair or lubricate the seat belt retractor, buckle mechanism, or repair the seat belt in any way, otherwise Hudson Automotive EV will not be responsible for any problems caused thereby.

2-10. Child safety information

Child safety information

Please observe the following precautions when children are in the vehicle.

Warning

Children may also injure themselves when playing with car windows or other vehicle equipment. In addition, the temperature inside the car is too high or too low, which may cause fatal injuries to children.

3-1. Key information

key

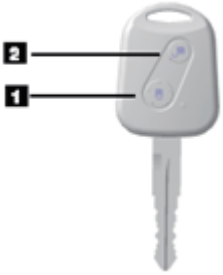
1 Straight key

2 Remote control key

Each new car is equipped with 2 keys , including two mechanical keys (low-end and standard); one mechanical key and one remote control key (high-end). Please keep one of them as a spare.

For safety reasons, please keep the key number plate in a safe place to prevent others from illegally duplicating the key.

Remote control key



1 Straight key

2 Remote control key

Functional limitations

The battery may become exhausted even if the remote control key is not used. The following symptoms indicate that the remote control key's battery is low or may be exhausted. Replace the battery with a new one if necessary.

·The remote control key function does not work.

·The LED indicator on the face of the remote control key does not light up.

·The range for operating the remote control key's functions becomes smaller.

Prevent damage to the key

·Do not disassemble the key.

·Do not drop the key and avoid strong impact or bending.

·Do not expose the key to high temperatures for a long time.

·Do not stick stickers or other objects on the surface of the key.

·Do not get the keys wet or clean them in an ultrasonic cleaner, etc.

·Do not attach metal or magnetic materials to the key or place the key near such materials.

The remote control key function may not work properly in the following situations.

·When the remote control key's battery is exhausted.

·When near TV towers, power plants, gas stations, radio stations, large displays, airports, or other facilities that generate strong radio waves or electrical noise interference.

·When carrying a portable radio, mobile phone or other wireless communication device.

·When there are multiple remote control keys nearby.

·When a metal object touches or covers the remote control key.

·When another remote control key (which transmits radio waves) is being used near the vehicle.

·When the remote control key is placed near electrical equipment (such as a personal computer).

·When there is window film containing metallic components or metal objects adhered to the vehicle window.

Replace the key battery

There is a lithium battery in the remote control key, which can generally be used for 2 years. When the remote control distance gradually shortens (you must get closer to the vehicle to successfully control the remote control), it indicates that the battery is low. The battery in the key cannot be charged. When the battery is exhausted, it is recommended to go to the authorized service station of Hudson Automotive EV to replace the battery.

Step 1: Remove the key cover. Use a screwdriver to remove the back screws and separate the key back cover.

Step 2: Take out the PCB board inside the remote control key .

Step 3: Remove the old battery from the control module and install the new battery (+ side facing up).

Environmental Friendly

Discarded lithium batteries cannot be disposed of as general household waste. Please dispose of discarded batteries in accordance with local environmental laws and regulations.

Notice

·Make sure the positive and negative poles of the battery are installed correctly.
·When inserting the battery, be careful not to bend the electrodes and terminals.
·Please make sure your hands are dry and away from water when replacing the battery.
·Only use the battery type recommended by Hudson Automotive EV (3 V (volt) CR2032 lithium battery).
·Do not touch new batteries with oily fingers, as this may cause corrosion.
·Do not touch or move any parts inside the smart key, otherwise it will affect normal functions.
·Do not forcefully remove the battery cover, as this may damage the cover.

Warning

·Keep new and removed batteries out of the reach of children.
·Do not swallow batteries. Doing so may cause chemical burns.
·If a battery is accidentally swallowed or gets inside your body, seek medical attention immediately.

Vehicle anti-theft system

If the system detects forced entry, it will sound an alarm and cause the hazard warning lights to flash continuously.

After all passengers get out of the vehicle, close all doors and lock all doors using the lock button on the remote control key. At this time, the vehicle anti-theft system is activated.

alarm

The alarm can be triggered in the following situations:

·When the anti-theft system is activated and no unlock signal is received from the remote control key, open any door.

Dismiss or stop an alarm

To dismiss or stop the alarm, do any of the following:

·Unlock the doors using the remote control key.

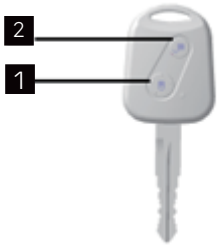
·Without any operation, the alarm will automatically stop after about 28 seconds and re-enter the anti-theft mode.

⚠ Notice
Do not modify or disassemble the system. If modified or disassembled, the system cannot be guaranteed to operate properly.

3-2. Door

Locking and unlocking doors from outside the vehicle

Remote control key

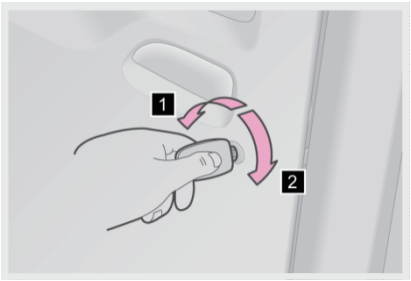


1 Locking the doors

With the power switch off and all doors closed, press this button to lock all doors. Check that the doors are securely locked.
If any door is not closed, pressing this button will not lock it.

2 Unlock the door

Mechanical key



1 Locking the doors

2 Unlock the door

Read
After locking the vehicle using the door mechanical switch, please check whether each door is locked. If it cannot be locked, please contact the authorized service station of Hudson Automotive EV immediately.

Security Features

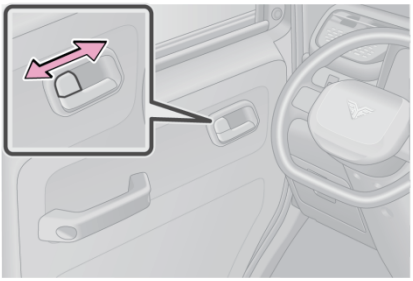
If the doors are not opened within approx. 30 seconds after being unlocked using the remote control key, the safety function automatically locks the car again.

Automatic unlock function

When the vehicle is locked, if the power switch is turned off, the doors are automatically unlocked.

Locking and unlocking the doors from inside the vehicle

Door lock button



1 Push the lock button backwards to unlock the door.

2 Push the lock button forward to lock the door.

Warning

The following precautions should be observed while driving the vehicle, otherwise the occupants in the vehicle may be thrown out of the vehicle due to accidental opening of the door, resulting in serious injury or even death.

·Always wear your seat belt.

·Always lock all doors.

·Make sure all doors are properly closed.

·When leaving the vehicle and no one is in it, remove the key, close all windows and lock all doors to prevent others from entering or theft.

·It is dangerous to leave a child alone in an unlocked vehicle when you leave the vehicle. A child could lock themselves in a hot vehicle and possibly die.

·Always check that the area around the vehicle is safe before opening the door. Opening the door suddenly is very dangerous and may hit passing vehicles or pedestrians and cause an accident.

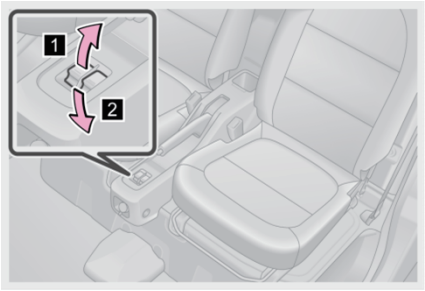
·After closing the door, always check that it is securely closed. An open door is dangerous, and if you drive the vehicle with the door open, the door may open accidentally, causing an accident.

Notice

When leaving a vehicle unattended, you must lock all doors and take the keys with you. Leaving the doors unlocked can make the vehicle vulnerable to theft.

3-3. Car windows

Electric windows -mid-high configuration



With the power switch in the ON position, operate the window lift switch:

1 Long press to manually raise the window

2 Long press to manually lower the window

Releasing the operating switch while the window is moving will stop the window at the midway position.

Warning

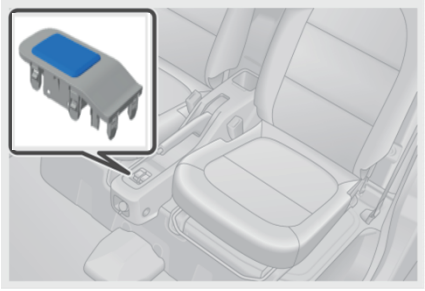
·As the vehicle is not equipped with an anti-pinch feature, check to ensure that no part of the occupant's body will be pinched when operating the windows.

·The driver is responsible for the operation of all power windows, including those operated by passengers. To prevent accidental operation (especially by children), never allow children to operate the power windows. The power windows can pinch body parts of children and other passengers.

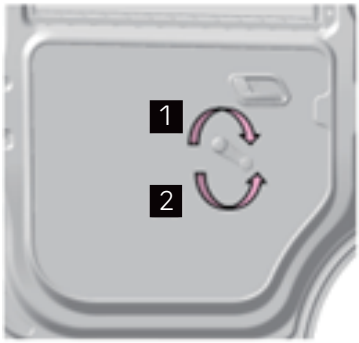
·When leaving the vehicle, please turn off the power switch, take the key and get off the vehicle with the child. Children may be naughty and cause accidents due to accidental operation.

·The switch should be released when the power window is fully opened or closed, otherwise the power window system may be damaged.

Manual windows -low configuration



Schematic diagram of rubber cover for auxiliary instrument panel glass lift switch (low-end)



The glass can be raised or lowered by directly operating the handle without powering on the entire vehicle:·

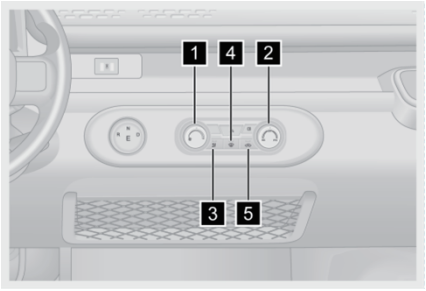
1 Direction rotating handle window raising

2 Direction rotary handle window lowering

Rotating the handle to any position will stop the window at the midway position.

3-4. Air conditioning system

Air conditioning control panel



1. Air volume adjustment knob
2. Temperature adjustment knob
3. Blowing mode button
4. Front windshield defog mode button
5. Internal/external circulation mode button

Notice

·When using the air conditioning system, if the power battery pack is too low, the air conditioning will be automatically turned off. Please charge the vehicle in time.

·The air conditioning system can only perform cooling or heating when the vehicle is in READY status and the air volume gear is not lower than gear 1.

·If the air conditioning system is on when the vehicle power switch is turned OFF, the air conditioning system will automatically turn on the next time the vehicle power switch is turned ON.

Warning

When the vehicle is not in the READY state, do not use the air conditioning system for a long time to prevent the 12 V (volt) battery from being exhausted and causing the vehicle to be unable to start.

Air conditioning operation

Air volume adjustment

To adjust the fan speed, turn the adjustment knob clockwise (to increase air flow) or counterclockwise (to decrease air flow).

Temperature Regulation

Turn the knob clockwise (warm air) or counterclockwise (cold air) to adjust the temperature setting. When the knob is in the middle OFF position, cooling and heating are turned off.

Note: The heating-only air conditioner does not have an A/C function position.

Blowing mode

When the fan is turned on, air flows towards the driver and passenger's faces.

Windshield defog mode

When the air conditioning is turned on and the external circulation mode is used, the airflow blows towards the front windshield, which can quickly eliminate the fog.

Increasing airflow and temperature will defog the windshield faster.

Internal/external circulation mode

Press the internal/external circulation mode touch button to switch between internal circulation mode (indicator light on) and external circulation mode (indicator light off).

Note: The heating-only air conditioner does not have the internal/external circulation function.

Warning

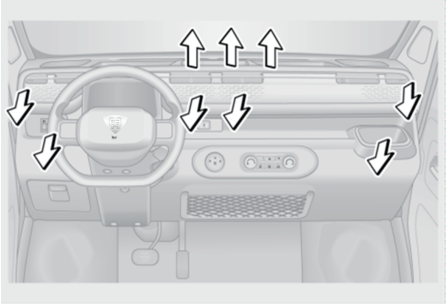
- Do not use the windshield defog mode during cooling operation in extremely humid weather. The temperature difference between the outside air and the windshield may cause the outer surface of the windshield to fog up, obstructing your vision.
- Do not place anything on the dashboard that could cover the air vents, as this could block the airflow and prevent the windshield from defogging.
- Do not drive in internal circulation mode for a long time, otherwise you may feel sleepy.

Read

When driving on dusty roads such as tunnels or roads with heavy traffic, use the recirculation mode. This effectively prevents outside air from entering the vehicle. During cooling operation, using the recirculation mode will also effectively reduce the temperature inside the vehicle.

Air outlet

Air outlet position

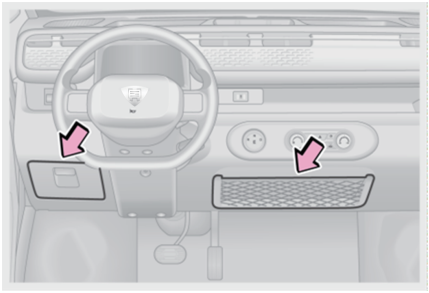


The air outlet and air volume change according to the selected air flow mode.

3- 5. Storage space

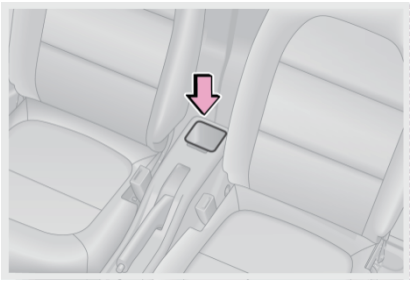
Storage space

Dashboard center net pocket and lower left storage box

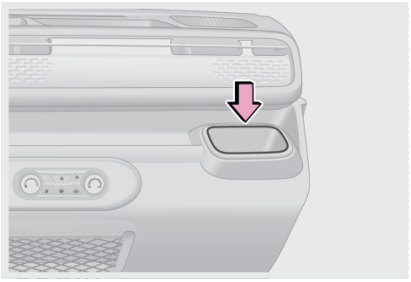


The central net pocket on the dashboard and the storage box on the lower left can store some small items.

Cup holder



The cup holders are located at the lower rear of the console.



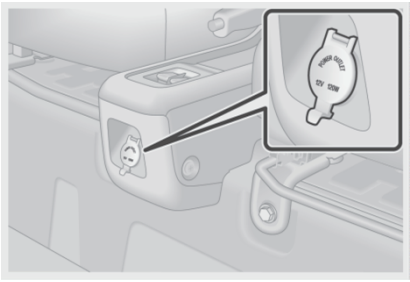
The cup holders are located on the right side of the dashboard.

Warning

- When using the cup holder to store bottles, tighten the cap tightly.
- It is dangerous to place a cup containing scalding liquids in the cup holder while the vehicle is moving. If the liquid in the cup splashes out, it may cause burns.
- Do not place sharp objects in the storage box; in the event of an emergency stop or accident, these objects may pop out and cause serious injury or even death.
- Do not store lighters or aerosol cans in the storage space, as they may explode when the vehicle compartment temperature rises. If they come into contact with other stored items, the lighter may catch fire or the aerosol can may release gas, causing a fire.

3- 6 . Power socket

Power outlet



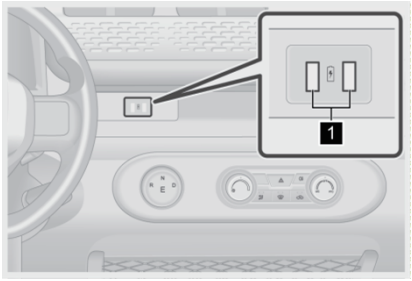
The front power socket is located at the lower front of the console. This socket can be used to power 12 V (volt) electrical appliances.
It can be used when the power switch is in the ON position.

Warning

- Keep electrical sockets out of the reach of children.
- Keep electrical outlets free of dust and foreign matter. Also, make sure to clean electrical outlets regularly.
- Do not use accessories with a rated voltage exceeding 12 V (volts) or a rated power exceeding 120 W (watts) , as this may damage the vehicle or electrical equipment, or even cause a fire or explosion.
- Do not leave the vehicle while it is in the READY state and the device is connected to a power outlet.

3- 7. USB charging box

USB charging box

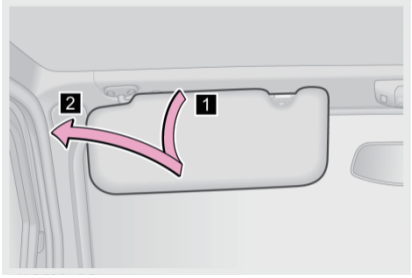


1 Slow charging is possible.

The USB charging box is located on the right side of the multi-function display. It is ready for use when the power switch is in the ON position.

3- 8 . Sun visor

Sun Visor



1 Front position
Flip down the visor.

1 Side position
Flip down the visor, unhook it and pull it to the side.

4-1. High voltage safety

High voltage safety

The high-voltage system components mainly include power battery pack, CDU three-in-one on-board power supply, high-voltage wiring harness, motor controller, drive motor, electric compressor assembly and PTC core assembly.

•The orange cables on the vehicle are high-voltage component harnesses and connectors. Do not touch exposed or damaged orange high-voltage harnesses, otherwise there is a risk of electric shock.

•There are high-voltage warning labels on high-voltage components. Please pay attention to the relevant warnings. To avoid electric shock, do not touch high-voltage components, high-voltage wiring harnesses and their connectors.

Logo	Meaning
	High voltage danger
	Be safe

4-2. Precautions for using electric vehicles

Precautions for using electric vehicles

This vehicle is a pure electric vehicle. To ensure your safety and to help you better understand and use pure electric vehicles, please follow the following suggestions during use:

•When washing the vehicle or in rainy days, keep the doors and charging port cover tightly closed to prevent water from directly wetting the high-voltage system components and power battery pack to avoid causing a short circuit in the high-voltage system.

•In hot summer weather conditions, it is recommended not to expose the vehicle to high temperatures for a long time. It is best to park it in a well-ventilated, cool place.

•The charging efficiency of the power battery pack will be reduced when used in winter. It is recommended to charge the vehicle as soon as possible after use in winter to avoid the power battery pack temperature dropping, resulting in a long charging time and affecting use.

•The capacity of the power battery pack may decay to a certain extent with the age of use, the number of charging times, personal driving habits, road conditions, environmental factors and other factors, resulting in a decrease in cruising range. This is normal.

•When a vehicle is driving in a low-temperature environment, the discharge amount of the power battery pack will be reduced, and the vehicle's power and cruising range will decrease, but they will recover after the temperature rises.

•The service life of the power battery pack is related to the depth of discharge, so avoid deep discharge of the power battery pack. Therefore, when the vehicle prompts to charge or stops using it, you should charge the vehicle in time, which is beneficial to protect the cycle life of the power battery pack.

•When the vehicle is driving, sudden acceleration will dramatically increase the discharge of the power battery pack, which is not conducive to the use of the power battery pack. It is recommended to maintain slow acceleration as much as possible, which can significantly improve the cruising range and life.

•It is recommended that the vehicle be fully charged for the first time, and then charged to 100% at least once every half a month . This will help calibrate the remaining power/range of the power battery pack and increase the service life of the power battery pack.

•If the vehicle is left unused for a long time, please keep the power battery pack SOC at 50% - 70%, and disconnect the 12 V battery negative terminal connection cable.

•If the vehicle's power battery pack is hit by the bottom, collided, or soaked in water, or a serious fault alarm appears on the multi-function display (such as power battery pack overheating, insulation alarm, etc.), or the power battery pack shell and plug-in are seriously deformed or cracked, please immediately contact Hudson Automotive EV's authorized service station to inspect the vehicle.

4-3. Vehicle Charging

Charging information

When do you need to charge your vehicle?

•It is recommended that new vehicles perform charge and discharge maintenance on the power battery pack, first discharge it to about SOC 20%, then charge it, and ensure that the first charge is to the SOC display of 100%.

•If the low battery warning light comes on while the vehicle is driving, it means that the power battery pack is low on power and needs to be charged as soon as possible.

•When the power gauge shows that the remaining power is low, or the cruising range cannot meet travel needs, charging is necessary.

⚠ Notice
If conditions permit, it is recommended to charge the vehicle while it is parked. Shallow charging and shallow discharge of the power battery pack is beneficial to prolong the life of the power battery pack. Do not charge the power battery pack after it is exhausted, as this may be detrimental to the next trip and the life of the power battery pack.

Charging precautions

During the vehicle charging process or at the end of charging, please pay attention to the following safety precautions to avoid high voltage electric shock or more serious injuries.

•If you have a pacemaker or cardiovascular defibrillator, please do not stay in the vehicle for a long time while it is charging, otherwise it may affect the function of the electronic medical device and cause personal injury or death.

•Please choose to charge in a well-ventilated environment away from liquids and fire. The recommended ambient temperature for charging is between 0 and 35 ° C . Avoid charging in low or high temperatures (it is recommended to charge at noon in winter and in the morning and evening in summer).

•Before charging, please make sure to wipe off the rain and stains near the charging seat of the vehicle body before opening the charging seat cover to charge. Pay special attention to the fact that there should be no water stains on the charging seat and its surrounding areas.

•Please make sure that the charging port and charging plug are free of water or other debris, rust or corrosion. If there is water or rust on the charging port or charging plug, please do not charge to avoid short circuit or electric shock, or even casualties.

•Before charging, please check and confirm that the power socket is intact, the internal ground wire is properly grounded, and the contact copper sheets of the live wire, neutral wire, and ground wire are not burned, loose, or in poor contact. Otherwise, it may cause a fire or electric shock.

•Before charging, please check whether the surface and shell of the charging cable are damaged. If the above conditions occur, please contact the authorized service station of Hudson Automotive EV for repair or replacement. It is forbidden to use damaged charging cables.

•Before charging, make sure the parking brake is applied to the vehicle to prevent it from moving.

•Do not touch the metal parts of the charging port or charging base during charging. If sparks occur in the vehicle or CDU three-in-one on-board power supply, do not touch the vehicle or any device, otherwise you may receive an electric shock and cause personal injury or death.

•During charging, ensure that the charging cable is in a natural state and not hanging in the air.

•If you find any special smell or smoke in the car, cut off the power supply under safe conditions and contact the authorized service station of Hudson Automotive EV in time.

•In case of heavy rain, lightning, heavy snow, hail and other weather conditions, do not touch the charging port during or at the end of charging to avoid personal injury due to electric shock.

•After charging is complete, please hold the insulating part of the plug when unplugging it. Do not pull or tug on the charging cable directly.

•After charging is completed, please make sure to close the charging port cover and make sure the charging plug is unplugged from the charging port before starting the vehicle.

Warning

•Please only use charging equipment approved by Hudson Automotive EV or the national compulsory inspection department for charging.

•If charging with a charging cable, please use only the charging cable provided with the vehicle or specified by the manufacturer for this vehicle.

•It is strictly forbidden to use damaged charging cables. If you find that the charging cable or power supply is abnormally hot, please stop charging and go to the authorized service station of Hudson Automotive EV for inspection.

•It is strictly forbidden to use multiple adapter sockets and extension cords for charging, and it is prohibited to extend or modify the charging cables or plugs without permission, otherwise it will easily cause danger.

•Children are prohibited from performing charging operations. The charging plug is a high-voltage electrical device and is strictly prohibited for children to use.

•It is prohibited to disassemble or modify the charging station without permission.

Warning

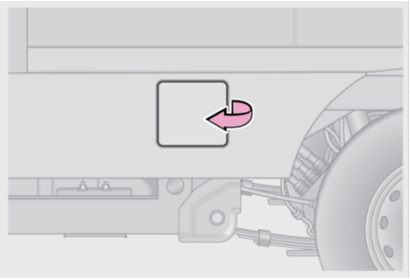
•It is strictly forbidden to dismantle the high-voltage wiring harness and accessories connected to the high-voltage wiring harness without permission, otherwise it may cause serious damage to the vehicle and cause electric shock injuries to people.

•When charging, do not squeeze the charging cable to avoid electric shock or fire.

•It is strictly forbidden to leave the charging cable in the car while charging.

Charging method

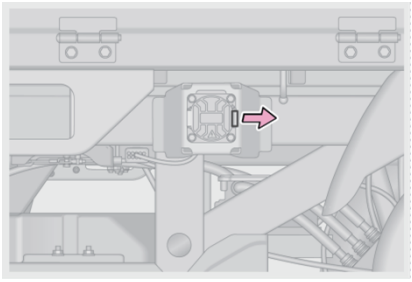
Charge using household (220 V AC) power supply

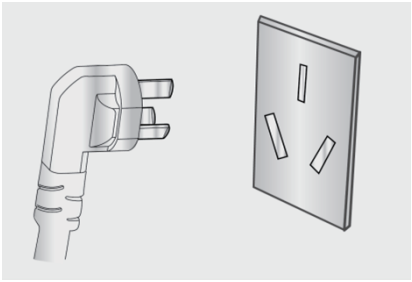


Start charging

Step 1: Park the vehicle in an AC charging area, turn off the power switch and remove the key, and apply the parking brake.

Step 2: Take out the charging cable and check whether it is intact.





Step 3: Open the charging port cover (if equipped).

Step 4: Push the switch to the right to open the charging dock cover.

Step 5 : Connect the three-prong plug to the electrical outlet.

Step 6 : Remove the charging gun protective cover.

Step 7 : Connect the charging gun to the vehicle charging dock until you hear a "click" sound, the charging gun is locked , and the charging device starts automatically .

Stop charging

Step 1 : Press the release button and pull out the charging gun.

Step 2 : Cover the charging gun protective cover and close the charging dock cover and cover outer panel (if equipped).

Step 3 : Unplug the three-pin plug from the power socket and keep the charging cable properly.

Read

Under different ambient temperatures, power levels, etc., the full charging time may vary to a certain extent, which is normal. When the ambient temperature is low, the charging efficiency is reduced and the charging time is longer.

Warning

•When charging with a household power source, you must confirm that the selected power source or cable has a carrying current greater than or equal to 16 A (4mm2) and is reliably grounded. Otherwise, it may cause fire or electric shock, posing a risk of fatal injury.

•A household 16 A (ampere) power socket that meets standard requirements should be used, and other sockets are prohibited.

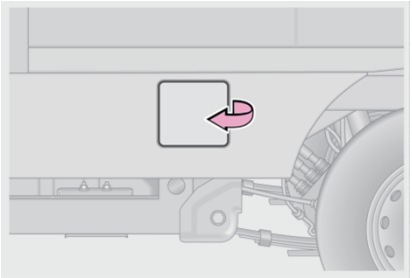
•Do not touch the metal parts of the plug and other connectors during charging to prevent electric shock and damage.

•When charging, do not touch the charging cable and plug with wet hands, and do not charge the vehicle in a wet place, otherwise you may get an electric shock.

Indicator lights on the control box

		
Red	Blue	Green
Charging indicator light display mode		
Not connected	Solid blue	
Connected	Blue Flashing	
Charging	Flashing Green	
Charging complete	Solid green	
Fault table		
Overheat protection	Red flashes 1 time	
Undervoltage protection	Flashes red 2 times	
Overvoltage protection	Flashes red 3 times	
Ungrounded wire	Solid red	
Temporary overcurrent protection	Flashes red 5 times	
Permanent overcurrent protection	Flashes red 6 times	
Leakage protection	Flashes red 7 times	
Communication protection	Red light flashes 8 times	

Charging with AC charging station



Start charging

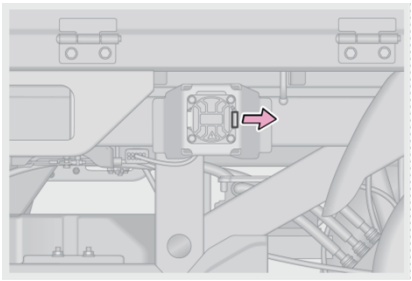
Step 1: After the vehicle is safely parked and the parking brake is applied, turn off the power of the vehicle.

Step 2: Open the charging port cover (if equipped).

Step 3: Push the switch to the right to open the charging dock cover.

Step 4: Remove the charging gun from the charging pile and insert it into the vehicle charging dock. Make sure the charging gun is properly inserted.

Step 5: Follow the operating instructions on the charging station to complete the payment and start charging, and confirm whether the vehicle is charging normally.



Step 6: After charging is complete, unplug the charging gun correctly and cover the charging dock cover and cover outer panel (if equipped) .

Step 7: Insert the charging gun into the charging pile correctly.

Power battery pack

The power battery pack is located under the vehicle chassis and provides driving power for the vehicle.

In winter, the discharge performance of the power battery pack will decrease as the temperature drops, and this performance change can be restored as the temperature rises. It is recommended that you avoid sudden acceleration and long-term high-speed driving when using the vehicle in low temperatures in winter, arrange the use of air conditioning and heating reasonably, and charge the vehicle in time.

According to the national regulations "Power Battery Traceability Management Regulations", when you encounter a power battery pack that needs to be replaced, please go to the company's contracted authorized service station for replacement. When the vehicle is scrapped, please go to the national regular scrapping agency to handle the scrapping procedures. Randomly discarding power battery packs will pollute the environment and even cause personal injury. Relevant laws and regulations also require that this type of waste be recycled and disposed of.

•If the power battery pack is not handled properly, it may cause serious accidents, damage the power battery pack or harm personal safety. To avoid accidents, pay attention to the following matters:

•Do not expose the vehicle to an environment above 60 °C for more than 24 hours, and place the vehicle in a cool environment in time.

•an environment below -30 ℃ , please charge and heat the vehicle before using it.

Power battery pack recycling

When a vehicle reaches the scrap requirement, it should be sent to a scrapped vehicle recycling and dismantling enterprise, and the used power battery pack should be handed over to a recycling service outlet designated by Hudson Automotive EV If the used power battery pack is handed over to other units or individuals, and the power battery pack is dismantled or disassembled privately, the corresponding responsibility shall be borne by the individual for any environmental pollution or safety accidents caused thereby.

Read

The power battery pack should be used and maintained correctly. Daily slow charging and discharging are critical to maintaining its performance. At the same time, due to chemical characteristics, the power battery pack capacity has a natural attenuation phenomenon. If the vehicle's mileage is reduced, it is recommended to contact the Hudson Automotive EV authorized service station for inspection. If there is no fault, the reduction in mileage is due to the normal attenuation of the power battery capacity.

Warning

It is prohibited to dismantle or disassemble the power battery pack without permission. When relevant professionals are handling the accident, please do not cut or hit the power battery pack box to prevent the power battery pack from leaking or deforming, which may cause personal injury.

Notice

•Do not use the vehicle's power battery pack for other purposes.

•To extend the service life of the power battery pack and ensure driving safety, try to avoid driving when the power battery pack is less than 10% charged.

•After purchasing the vehicle, please charge the power battery pack to 100% in time before the vehicle power level drops below 30% to facilitate maintenance of the power battery pack.

4- 4. Check before driving

For the safety of yourself, all passengers and other road users, please check the following items before driving each time:

Check before entering the vehicle

•Check and clear away snow, fallen leaves, etc. on the vehicle body.

•Check the tires for excessive wear, normal tire pressure, and any foreign objects embedded in the tread.

•Check whether the charging port cover and cargo box are closed and locked.

•Check that all windows and mirrors are clean.

•Check for obstacles around the vehicle.

Check after entering the vehicle

•Check that all doors are fully closed.

•Check and clear any loose debris from the dashboard.

•Adjust the seat position and make sure the seat is locked.

•Check that all occupants are wearing their seat belts.

•Check whether the vision at all angles is clear and good (front view, side door view and rearview mirror view).

Vehicle start inspection

•Check whether the vehicle lighting, turn signal lights, brake lights, etc. function normally.

•Check the remaining power and range of the power battery pack to ensure that the vehicle can reach its destination smoothly.

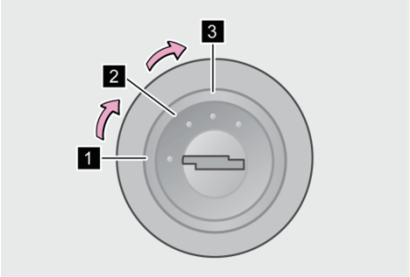
•Check whether each pedal can be stepped on smoothly. If you need to lay a floor mat, please use a floor mat suitable for this vehicle. If the floor mat is not in the right shape, is not laid in the right position, or is laid in two layers, it will affect the pedal operation and may cause an accident.

•Check whether there is a fault light on the multi-function display screen that is always on. If the fault light is always on after the vehicle is started and you are not sure whether it affects the driving safety of the vehicle.

4- 5. Vehicle power mode

Power switch

Insert the key into the power switch and turn it to switch the power switch position.



1 LOCK
The steering wheel is locked and the key can be removed.
To lock the steering wheel, remove the key and turn the steering wheel until it locks.
If the key will not turn when you unlock the steering wheel, turn the key while gently turning the steering wheel left and right.

2 ACC
Some electrical equipment can be used.

3 ON
Without pressing the brake pedal, switch the power switch to the ON position, and the low-voltage electrical appliances of the vehicle can be used.
Press the brake pedal and switch the power switch to the ON position at the same time, or press the brake pedal when the power switch is in the ON position. The vehicle enters the READY state . The system starts .

⚠ Notice

•Do not leave the key in the ACC or ON position for a long period of time, as this may cause the 12 V (volt) battery to become drained.

•Never remove or turn the key while driving. Otherwise, the steering wheel may lock, the driver may lose control of the vehicle, and the brake assist may disappear, resulting in vehicle damage and casualties.

4-6 . Start-up and operation

Normal startup and shutdown

Starting the vehicle

Step 1: Check to make sure the parking brake is applied.

Step 2: Check and confirm that the gear position is in N.

Step 3: Insert the key, depress the brake pedal, and turn the power switch to the ON position until the READY indicator on the multi-function display illuminates.

Turn off EV system

Step 1: Come to a complete stop.

Step 2: Put the gear in N position.

Step 3: Apply the parking brake.

Step 4: Turn off the power switch to shut down the EV system.

If you cannot enter the READY state

If the READY indicator on the multi-function display is not on, it means that the vehicle is not in the READY state. Please check whether the power switch is in the ON position and the brake pedal is pressed.

If the multi-function display does not display anything when the power switch is in the ACC or ON position, the 12 V battery may be low and needs to be charged. It is recommended that you contact the authorized service station of Hudson Automotive EV

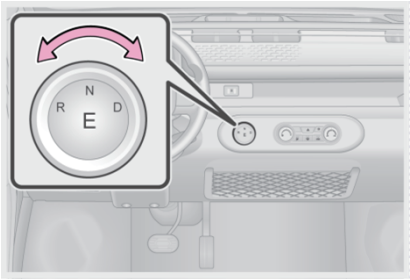
Parking

Before leaving the vehicle, turn the power switch to the LOCK position, remove the key, and turn the steering wheel until it locks.

When parking on a slope, fully apply the parking brake and double-check that the doors and windows are fully closed before leaving the vehicle.

4- 7 Gear shift control

Gear shift control



When the vehicle is in READY state, press the brake pedal and gently turn the electronic shifter to switch to the desired gear. The gear position on the multi-function display is displayed as the current gear position. The corresponding gear position indicator on the electronic shifter will also light up.

When the vehicle is in the READY state and stationary, depress the brake pedal to shift the electronic shifter to D or R position.

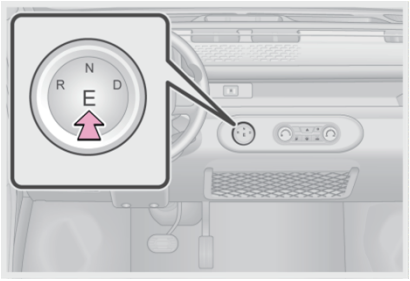
When the vehicle is in the READY state, if the power switch is switched from the ON position to the ACC position, if the gear is in N gear, it will remain in N gear; if the gear is in R or D gear, it will switch to N gear.

Gear	Function
R	This position is the reverse gear. When reversing, switch to R gear and be sure to stop the vehicle completely and step on the brake pedal.
N	This position is neutral and the vehicle neither moves forward nor reverses. Shift to N gear when the vehicle is parked. When the power switch is turned on, the gear position is N gear by default.
D	This position is the forward gear. When switching to D gear, press the brake pedal first.

⚠ Warning
Do not allow children to operate the electronic shifter as this may cause the vehicle to move unexpectedly.

4- 8 . Driving Mode

Driving Mode



Press the driving mode button E (default is normal mode) on the electronic shifter to switch between normal mode and energy-saving mode. When the E indicator light is on, it is energy-saving mode; when the E indicator light is off, it is normal mode.
In energy-saving mode, the vehicle will control the output of the drive motor power to achieve energy-saving effects.

4- 9. Pedestrian reminder system

Pedestrian warning system

Since pure electric vehicles make relatively little noise when driving at low speeds, it is difficult for pedestrians to detect them. To improve driving safety, the pedestrian warning system can emit warning sounds of different frequencies when the vehicle is moving forward or reverse and the speed is less than 30 km/h (kilometers per hour), so that pedestrians around can better detect them.

4-10. Braking energy recovery

Braking energy recovery

When the vehicle reaches the specified speed during driving, release the accelerator pedal or press the brake pedal. If the system determines that the energy recovery conditions are met, the vehicle will recover energy. The mechanical energy during driving is converted into electrical energy and stored in the power battery pack to increase the driving range.
Energy recovery working range:

- soc ＜95%.
- 5℃ ＜Power battery pack temperature＜60℃.
- In economic mode, the vehicle speed is >15 KM/h (kilometers per hour), and in normal mode, the vehicle speed is >10 KM/h (kilometers per hour).

4-11. Steering system

Electric Power Steering (EPS)

The electric power steering system provides steering assistance for the vehicle. The system does not require power steering fluid, which greatly facilitates the daily maintenance of the vehicle.

When the power switch is turned on, the EPS fault indicator light will light up briefly. If the EPS fault indicator light does not go out or lights up during driving, it indicates that the EPS system is faulty. Immediately contact the authorized service station of Hudson Automotive EV for inspection.

Under extreme conditions of long-term high-load operation (for example, turning the steering wheel fully and keeping it there for a long time or repeatedly moving the vehicle into a garage at a low speed and at a large angle), the electronic power steering system may trigger the thermal protection function due to excessive temperature of the electrical components.

After entering the thermal protection state, the system will reduce the power assistance, and you need to use more force to turn the steering wheel. If you need to restore normal power assistance, you can turn the steering wheel at a small angle or increase the speed, and restart the vehicle if necessary.

Warning

An illuminated EPS malfunction indicator light may indicate that the electronic power steering column is not functioning properly. Failure to maintain the steering column in good working order could result in a crash, causing personal injury and damage to your vehicle or other property.

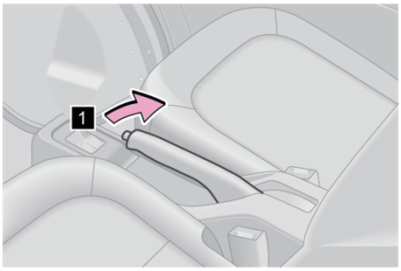
Notice

The electronic power steering system adjusts the power according to the vehicle speed. Therefore, the steering wheel is lighter at low speeds and relatively stable at high speeds.

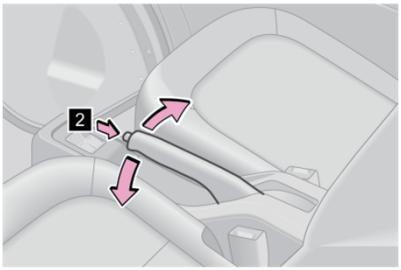
4-12. Braking system

Parking brake system

How to use



1 Apply parking brake
Depress the brake pedal and fully pull up the parking brake handle while making sure the vehicle is stationary.



2 Release the parking brake
Depress the brake pedal, press the lock button, and then slightly lift and fully lower the parking brake handle.

Warning

If the parking brake is not properly engaged, the vehicle may move out of control and cause danger in certain situations (such as when parked on a slope). If necessary, contact the authorized service station of Hudson Automotive EV for adjustment.

Notice

Before driving, fully release the parking brake. Driving the vehicle with the parking brake not released will cause the brake components to overheat, which will affect braking performance and increase brake wear.

Service brake

The braking system is designed for braking performance under a wide range of driving conditions. The braking process reduces vehicle speed through friction between the brakes and the tires and the ground. Slight friction noises and tire-ground friction noises during braking are normal and do not require special treatment. Occasional squealing noises during braking are also normal. Squealing noises may be caused by other substances adhering to the friction surface during vehicle use, or by rust on the friction surface after long periods of non-use or rain. As long as the squealing noises are not frequent, no special treatment is required.

If the brakes temporarily lose their ability to stop due to overheating, park the vehicle in a safe area and wait for the brakes to cool.

If the brakes temporarily lose their ability to stop due to wet components, follow these steps to restore normal performance:

Step 1: Check to see if there are any vehicles behind you.

Step 2: Maintain a safe driving speed and ensure there is ample space behind and to the sides of your vehicle.

Step 3: Carefully apply the brakes until normal performance is restored.

Warning

•Before driving, please check whether the brake lights are working properly. After starting, you should drive at a low speed and check the braking performance, especially after washing the car.

•Wet brakes can cause accidents. When the brakes are wet, they cannot brake well and may cause the vehicle to sway and lose control. Therefore, after wading or washing the car, drive the vehicle at a low speed and gently press the brake pedal intermittently to dry the brakes.

Notice

•To avoid affecting the pedal travel, do not lay thick carpets in the brake pedal area and do not pile up debris on the floor, such as wrenches, beverage bottles, etc.

•When the vehicle is driven at high altitudes, continuous braking may result in increased brake pedal force.

•If the brake pedal does not return to its original position or the brake pedal travel becomes longer, it indicates that the brake system may be faulty. Please contact the authorized service station of Hudson Automotive EV to check the vehicle.

•If there is a fault in one of the oil circuits, it will be harder to press the brake pedal (or the pedal will feel softer) and the braking distance will increase ; if the vacuum boost system fails, the brake pedal will become harder and more difficult to press, and the braking distance will increase. It is strongly recommended to contact the Hudson Automotive EV authorized service station immediately to check and repair the brake system.

•In order to run-in the friction pads and brake discs and ensure performance and life, it is best to avoid emergency braking or prolonged braking within 200 km (kilometers) after purchasing the vehicle and installing new friction pads.

4-13. Anti-lock Braking System (ABS)

Anti-lock Braking System (ABS)

Anti-lock brakes help prevent the vehicle from sliding and losing control, and provide maximum braking ability on slippery roads.

When the power switch is turned on, the ABS fault indicator light will light up briefly. If the ABS fault indicator light does not go out or lights up during driving, it indicates that the ABS is faulty. Please contact the authorized service station of Hudson Automotive EV immediately.

During braking, the ABS system monitors the speed of each wheel. If one wheel shows signs of locking, the system will control the brakes of both front wheels and the rear wheel separately. When ABS is working, the brake pedal will usually vibrate slightly and there will be noise.

Notice

- If the anti-lock braking system is faulty, it may not work, the wheels may lock during emergency braking, and the vehicle may not be able to steer or may steer suddenly.
- ABS neither changes the time required for the brakes to engage nor shortens the stopping distance. Even with ABS, you must allow adequate stopping distance.

Warning

- Always drive carefully and make sure to slow down when turning.
- When the anti-lock braking system fails, please go to the Hudson Automotive EV authorized service station for inspection and repair as soon as possible.
- The anti-lock braking system can ensure the best braking effect, but the braking distance will vary greatly depending on the road conditions.
- When driving in the rain, please control the speed reasonably. If the wheels spin or slip, the anti-lock braking system will not be able to control the vehicle.
- The anti-lock braking system cannot eliminate the dangers caused by being too close to the vehicle in front, wading through water, turning too fast or on bad roads, nor can it prevent accidents caused by careless and improper driving.
- Anti-lock brakes help control the vehicle, but be sure to drive carefully, maintain a moderate speed, and keep a safe distance from the vehicle in front. Even when the anti-lock brakes are working, there are limits to vehicle stability and steering wheel operation.

> ⚠ Warning
>
> •The anti-lock braking system cannot guarantee to shorten the braking distance in all conditions. When equipped with tire chains, on sand or snow, the braking distance of a vehicle equipped with an anti-lock braking system may be longer than that of a vehicle not equipped with an anti-lock braking system.

Electronic Brake-force Distribution (EBD)

EBD uses a high-speed computer to sense and calculate the different surfaces that the four tires are attached to at the moment of vehicle braking, and obtains different friction values, so that the four tires can brake in different ways and with different forces according to different situations, and continuously adjust at high speed during movement, thereby ensuring the stability and safety of the vehicle.

4-14. Remote monitoring system

Remote monitoring system

This vehicle is equipped with a vehicle condition information collection system, which will collect information such as the vehicle's power battery pack voltage, current, temperature, drive motor current, temperature, speed, and vehicle condition, and upload the collected information to the National New Energy Electric Vehicle Monitoring Center.

Hudson Automotive EV may use this data to perform the following operations, including but not limited to:

•Vehicle status monitoring.

•Vehicle troubleshooting guide.

•Vehicle quality, function and performance evaluation and analysis.

Hudson Automotive EV will not disclose vehicle recorded data to any third party unless:

•With the consent of the vehicle owner or lessee.

•A formal request from the police, court or government agency.

•It will be used for research and development, data analysis and research purposes to improve vehicle performance, but will not disclose the owner's information.

4-15. Operational safety

Operational safety

•Non-professional maintenance personnel are strictly prohibited from arbitrarily touching, disassembling or replacing any accessories in the high-voltage system to prevent electric shock.

•The high-voltage wiring harness in the vehicle is wrapped with an orange-yellow corrugated tube. Non-professionals are strictly prohibited from plugging or unplugging the high-voltage wiring harness plug-in.

•It is strictly forbidden for non-professionals of Hudson Automotive EV to dismantle the power battery pack.

•It is strictly forbidden to use organic solvents to clean the outer shell of the power battery pack, as it may damage the surface insulation coating and create insulation risks.

•It is strictly forbidden to place metal appliances together with the power battery pack, do not park the vehicle where sparks may splash, and do not park the vehicle in puddles.

4-16. Fault protection

Automatic power-off protection for high voltage fault

The vehicle has an automatic power-off function for high-voltage faults. When a high-voltage accessory in the vehicle fails, the vehicle will automatically cut off the high-voltage power supply to protect the people on board.

⚠ Notice

•In case of power failure, please immediately contact the authorized service station of Hudson Automotive EV for inspection and repair.

•When a power outage occurs during driving and the vehicle enters a coasting state, you should turn on the hazard warning lights and drive the vehicle to the emergency lane or a safe area, then contact the Hudson Automotive EV authorized service station for inspection and repair as soon as possible.

•During the charging process or after charging is completed, the vehicle cannot be started if the charging gun is not unplugged. At this time, the vehicle can be restarted after unplugging the charging gun.

5-1. Parking assistance system

Reversing camera system

The reversing imaging system collects images from behind the vehicle through a rear-view camera, and displays the images from behind the vehicle and auxiliary vehicle lines on a multi-function display screen, thereby assisting the driver in reversing safely and easily. When using the system, be sure to pay attention to the surrounding area.

Turn on the reversing camera system

When the power switch is in the ON position, switch the gear to R to enter the reversing image interface, which displays the reversing image and vehicle auxiliary lines.

Turn off the reversing camera system

•When the power switch is in the OFF position.

•When shifting to a gear other than R.

Auxiliary line calibration distance

Static auxiliary lines

When the reversing image is activated, the screen will display static auxiliary lines according to the calibration. The static auxiliary lines will be calibrated according to the distance between the obstacle and the cargo box and divided into three colors: red, yellow and green. Red is 20 cm (centimeter) - 50 cm (centimeter) (±5%) , and yellow is 50 cm (cm) - 150 cm (cm) (±5%) , Green 150 cm (cm) - 300 cm (cm) (± 10%).

Notice
Be careful not to scratch the mirror surface when cleaning dirt or snow from the camera surface.

Warning
•When backing up, make sure the cargo box is securely closed. •Do not let images on the monitor distract you from surrounding traffic conditions. •Due to the limited monitoring range, the reversing imaging system cannot see under the cargo box or in the corners of the cargo box. •The camera may not be able to detect children, small animals and objects around you, so be extra careful when reversing.

Warning

•Because the camera uses a wide-angle lens, the distance of objects seen in the reversing image system is different from the actual distance.
•Do not strike the camera, as this may cause a malfunction or damage, resulting in a fire or electric shock.
•When washing the car body with high-pressure water, do not spray water around the camera, otherwise water droplets will enter the camera and condense on the lens, causing malfunction, fire or electric shock.
•The reversing image system provides convenience, but it cannot replace the correct reversing operation. When reversing, be sure to look around to check whether it is safe to perform the operation, and reverse slowly.
•The camera lens will magnify and distort the field of view, making the objects on the display screen different from the real objects or failing to accurately reflect the real objects, and there will be blind spots and a slight delay.

6-1. On-board tools

Vehicle Tools

The reflective vest, warning triangle , front trailer hook and tool bag are placed behind the passenger seat.

If the vehicle breaks down or encounters a traffic accident, wear the reflective vest with the reflective strip facing outwards, and use the reflective properties of the reflective vest to remind other vehicles to give way to avoid a secondary accident.

If the vehicle breaks down or encounters a traffic accident, use the reflective properties of the triangle warning sign to alert other vehicles to give way to avoid a secondary accident.

> ⚠ Notice
>
> •On general roads, drivers should set up warning signs 50 m (meters) away from the direction of oncoming vehicles.
> •Warning signs should be set up 150 m (meters) away on highways.
> •For example, on rainy days or at a bend, be sure to place a warning sign 150 m away so that vehicles behind can spot the warning sign as soon as possible.

6-2. If the 12 V battery is exhausted

If the 12 V battery is exhausted

Jump start

If you have a set of jumper cables and another vehicle with a 12 V (volt) battery, you can jump start your vehicle by following these steps.

Step 1: Open the left front door and remove the driver's seat.

Step 2: Connect the jumper cables as follows:

1. Connect the positive jumper cable clamp to the positive (+) terminal of your vehicle's battery.
2. Connect the clip on the other end of the positive cable to the positive (+) terminal of the other vehicle's battery.
3. Connect the negative cable clamp to the negative (-) terminal of the other vehicle's battery.
4. Attach the clip on the other end of the negative cable to a solid, fixed, unpainted metal part of the vehicle.

Step 3: Start another vehicle to charge your vehicle's battery.

Step 4: Switch the vehicle's power switch to the ON position, and then apply high voltage to the vehicle.

Step 5: Once the vehicle has started successfully, remove the jumper cables in the reverse order of connection.

Note: Once the vehicle is started, please contact the authorized service station of Hudson Automotive EV for inspection and repair as soon as possible.

Notice

- If the battery is often low on power, please go to the Hudson Automotive EV authorized service station for inspection as soon as possible.
- Do not connect the negative battery terminal of the rescue vehicle directly to the negative battery terminal of the low-power vehicle.
- Make sure the jumper cables are connected correctly and keep a certain distance between the terminals to avoid contact between the jumper cables or other metal parts on the vehicle.

Warning

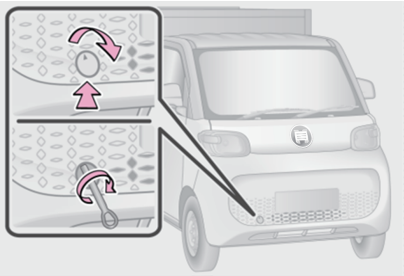
- Keep batteries away from children.
- Do not smoke, use matches, lighters or light open flames near batteries.
- Do not allow the positive and negative clips of the jumper cables to touch each other.
- Make sure that each jumper cable is connected to the correct terminal and does not accidentally contact other terminals besides the correct one.
- Always remove the negative (-) terminal first. If you remove the positive (+) terminal and touch any metal in the surrounding area, sparks could occur, which could cause a fire and possibly electrical shock, resulting in serious injury or death.
- When working on the battery, always wear safety goggles and be careful not to allow any battery electrolyte to come into contact with your skin, clothing, or body of the vehicle.
- If the battery electrolyte contacts the skin or eyes, wash the contacted area with water immediately and go to the hospital for treatment. Before going to the hospital, cover the contacted area with a wet sponge or cloth.

6-3. Traction

If the vehicle needs to be towed, Hudson Automotive EV recommends using a lift-type cargo trailer or a platform cargo trailer, and have it towed by a Hudson Automotive EV authorized service station or a professional rescue company.

All towing must use safety chains and comply with all national/state/city regulations.

Install the trailer hook



Step 1: Press the edge of the trailer hook cover with your hand to make it tilt up, pull up the tilted part and remove the cover.

Step 2: Install the trailer hook into the trailer hook hole in a clockwise direction and tighten it with a tool.

Notice

- Only use the specified tow hook, otherwise damage to the vehicle may occur.
- When towing a vehicle, you should drive slowly and smoothly. The impact caused by excessive pulling force may damage the vehicle.
- Only install a tow rope or tow bar when the tow hook is in place.

Warning

Make sure the tow hook is securely installed, otherwise the tow hook may come loose during towing, causing a serious accident resulting in serious injury or even death.

Towing vehicle

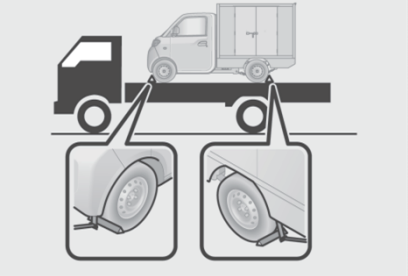
Towing from the front using a wheel lift trailer

Place the towing dolly under the rear wheels.

It is strictly prohibited to use a lifting cargo trailer for towing

Do not use a lifted truck for towing to avoid damage to the vehicle body.

Using a flatbed trailer



•Apply the parking brake and turn the power switch to the OFF position.

•Use chocks under all 4 wheels to prevent the vehicle from moving.

•Secure the vehicle by lashing the tires to the trailer's bed as shown.

> ⚠ Notice
>
> •When lifting a vehicle using a wheel lift trailer, make sure that the vehicle has sufficient ground clearance for towing. Otherwise, the vehicle may be damaged during towing.
>
> •When using a flatbed trailer, do not drive over the blocks as this may damage the tires.
>
> Do not tie down the vehicle to accessories other than the tires (e.g. suspension).

When towing a vehicle, if a platform truck cannot be used, a trailer hook can be used temporarily to tow the vehicle. This towing method can only be used for a short distance at a low speed on a hard paved road.

When towing a vehicle with a tow hook, the following conditions must be met:

•Turn the power switch to the ON position.

•Shift the gear to N.

•Unlock the parking brake.

The towing vehicle must not exceed a speed of 30 km/h (kilometers per hour) and the distance must not exceed 50 km (kilometres). Otherwise there is a risk of damage to the electric drive or high-voltage components.

The vehicle must be removed on a flatbed if:

•The vehicle cannot be driven, and the power switch is in the ON position, and the warning light and indicator light are not on.

•Clearly feel the vehicle's braking effect increasing or pulsating.

•It has been confirmed to be a mechanical failure in the transmission system.

⚠ Notice

•Do not perform emergency towing of the vehicle for a long period of time.

•Secure the tow cable, tow chain or tow bar to the vehicle's tow hitch.

•Both drivers must be familiar with the characteristics of the towing process, otherwise they cannot carry out towing work.

•Try to tow in a straight line and do not pull the vehicle from the side, as this may cause damage to the vehicle.

•If the vehicle does not start, the power-assist system does not work, and braking and steering are more difficult than usual, so operate with caution.

•If the towed vehicle still cannot move, please do not tow it forcibly to avoid causing secondary damage to the vehicle. Hudson Automotive EV strongly recommends that you seek help from professional maintenance personnel or Hudson Automotive EV authorized service stations.

⚠ Warning

•During the towing process, other people except the driver should stay away from the towing vehicle as much as possible, otherwise personal injury may occur.

•When towing a vehicle, avoid sudden starts and unstable driving operations, otherwise excessive force may be applied to the tow hook, tow cable, tow chain or tow bar, causing them to break, resulting in vehicle damage or even personal injury.

6-4. Accident handling

Due to the particularity of pure electric vehicles (the whole vehicle is equipped with a power battery pack and a high-voltage system), pure electric vehicles must comply with the following requirements when a vehicle accident occurs.

Collision

After a vehicle collision, please turn on the hazard warning lights immediately and set up hazard warning signs behind the vehicle as required by regulations to avoid subsequent accidents.

■Please contact the authorized service station of Hudson Automotive EV immediately to confirm the vehicle failure status and handling suggestions, and then contact the insurance company for processing.

■When a serious collision occurs, the vehicle control system will automatically cut off the high-voltage system of the vehicle and the vehicle cannot continue to drive. At this time, the following precautions should be observed:

•If you find exposed wires inside or outside the car, do not touch them to avoid electric shock. Do not touch high-voltage components, orange high-voltage cables and their connectors inside the car, otherwise serious injuries or electric shock casualties may occur.

•If liquid leaks or flows into the accessories in the car, do not touch the liquid, which may be the liquid leaking from the power battery pack. If the skin or eyes accidentally come into contact with the liquid, rinse with plenty of water and seek medical attention immediately to avoid causing greater harm.

•If you cannot confirm whether the vehicle is damaged or safe, you should stay away from the vehicle. Be sure to inform the emergency personnel who come to deal with the accident that the vehicle is an electric vehicle. No one else is allowed to approach, touch or move the vehicle.

•When an accident causes a vehicle fire, you should immediately flee to a safe place, then call 119 to notify the fire department, and contact the Hudson Automotive EV authorized service station or call the Hudson Automotive EV service hotline.

Water accidents

When the vehicle is partially or completely submerged in water, turn off the power switch and evacuate in time. If there are no bubbles or buzzing sounds during salvage, you can proceed with the salvage operation. If bubbles or buzzing sounds are found, you need to wait until there are no bubbles or buzzing sounds before proceeding with the operation. The salvage operation must be performed by professionals using professional equipment.

Fire accidents

If a fire occurs, leave the vehicle immediately and, while ensuring personal safety, perform the following operations if possible:

•Call the police according to the situation on site, and contact the Hudson Automotive EV authorized service station or call the Hudson Automotive EV service hotline.

•If you can confirm that the fire is small and does not involve the high-voltage system, you can try to use a special fire extinguisher for electrical fires (water-based fire extinguisher) to put out the fire; otherwise, you should immediately stand upwind away from the vehicle and quickly notify the firefighters. Never use water to put out the fire by yourself to avoid the risk of electric shock.

•If anyone inhales smoke, remove them as quickly as possible and seek medical attention.

Warning

•The combustion of lithium batteries will produce high temperatures and harmful gases, so you should stay away from the burning vehicle as much as possible.

•Please do not touch any liquid leaked from the power battery pack. If your skin or eyes accidentally come into contact with the leaked liquid, please rinse immediately with plenty of water and seek medical attention in time to avoid causing greater harm.

•When firefighters use water to put out a fire, please do not touch the water on the ground to avoid the risk of electric shock.

•Since lithium batteries may reignite, even if the flame is extinguished, do not approach the vehicle easily and pay attention to whether the vehicle is still producing thick smoke or flames.

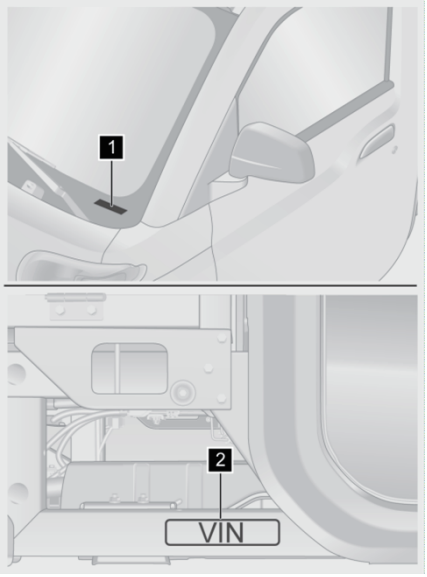
7-1. Signage location

Vehicle Identification Number (VIN)

Find your Vehicle Identification Number (VIN)

Before leaving the vehicle, turn the power switch to the LOCK position, remove the key, and turn the steering wheel until it locks.

When parking on a slope, fully apply the parking brake and double-check that the doors and windows are fully closed before leaving the vehicle.



1 The Vehicle Identification Number is located on the upper left side of the driver's side instrument panel and is visible from the outside through the front windshield.

2 The vehicle identification number is located on the right rear lower frame member.

⚠ Notice
Covering, painting, welding, cutting, drilling or removing the Vehicle Identification Number (VIN) and the surrounding area is prohibited.

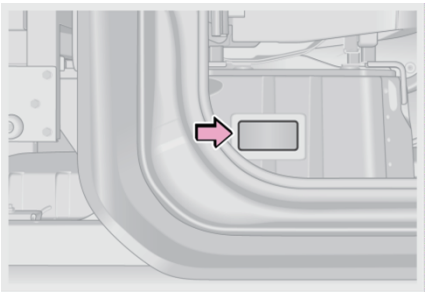
Reading the Vehicle Identification Number (VIN)

Use Hudson Automotive EV's special diagnostic instrument to read the vehicle identification code:

Turn the power switch to the ON position and connect the data cable of Hudson Automotive EV's special diagnostic instrument to the OBD interface at the bottom of the driver's side instrument panel. Read the vehicle identification number (VIN) through the special diagnostic instrument.

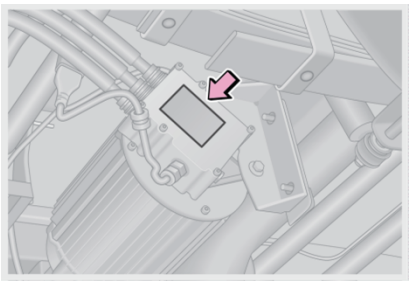
> ⚠ Notice
>
> Covering, painting, welding, cutting, drilling or removing the Vehicle Identification Number (VIN) and the surrounding area is prohibited.

Vehicle Parameter Nameplate

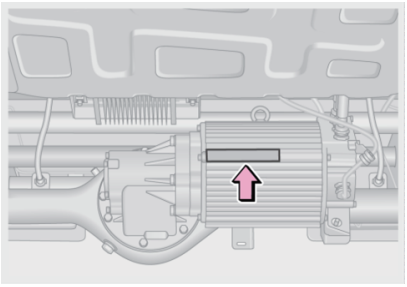


The vehicle parameter nameplate is located on the right rear floor baffle, as shown in the figure.
The nameplate contents include: company name, vehicle identification code (VIN), brand, vehicle model, drive motor model, drive motor peak power, drive battery system rated voltage/rated capacity, vehicle curb weight, maximum allowable gross weight, and manufacturing year and month information.

Drive motor nameplate



A drive motor nameplate is affixed to the side surface of the drive motor, and the contents include: motor name, motor model, number of phases, Party A part number, rated voltage, rated power, peak power, rated torque, peak torque, cooling method, peak speed, protection level, insulation level, weight, working system, manufacturer name, etc.



The drive motor model and serial number are engraved on the bottom of the drive motor (visible after the vehicle is lifted).

7-2. Vehicle specifications

Vehicle mass and driving range

Basic Information		Basic	Basic	Struggle Model	Struggle Model	Withdrawal	Withdrawal
Vehicle model		HLD1020P1 C23BEV	HLD5020XX Y3BEV	HLD1020P1 C23BEV	HLD5020XX Y3BEV	HLD1020P1 C23BEV	HLD5020XX Y3BEV
Configuration code		TC101-1	TC101-2	TC101-3	TC101-4	TC101-5	TC101-6
Cargo box form		Railing	Box cargo	Railing	Box cargo	Railing	Box cargo
Curb weight(kg)		850	910	850	910	850	910
Axle load	Front axle(kg)	480	480	480	480	480	480
	Rear axle(kg)	370	430	370	430	370	430
Full axle load	Front axle(kg)	650	650	650	650	650	650
	Rear axle(kg)	1050	1050	1050	1050	1050	1050
Maximum allowable total mass (kg)		1700	1700	1700	1700	1700	1700
Cruising range (km)		150	150	150	150	150	150
Number of seats		1	1	2	2	2	2

Vehicle size

Basic Information		Basic	Basic	Struggle Model	Struggle Model	Withdrawal	Withdrawal
Vehicle model		HLD1020P1 C23BEV	HLD5020XX Y3BEV	HLD1020P1 C23BEV	HLD5020XX Y3BEV	HLD1020P1 C23BEV	HLD5020XX Y3BEV
Dimensions	Length(mm)	3820					
	Width(mm)	1480					
	Height(mm)	1680	1925	1680	1925	1680	1925
Wheelbase(mm)		2630					
Overhang length	Front overhang (mm)	460					
	Rear overhang (mm)	730					
Track width	Front(mm)	1290					
	Rear(mm)	1290					

Vehicle performance

Basic Information	Basic	Basic	Struggle Model	Struggle Model	Withdrawal	Withdrawal
Configuration code	TC101-1	TC101-2	TC101-3	TC101-4	TC101-5	TC101-6
Minimum ground clearance (Ready/Fully loaded)(mm)	160/140					
Approach angle (°)	41					
Departure angle(°)	38					
Maximum speed without load (km/h)	71					
Maximum climbing grade	20%					

Warning

•The maximum speed is 71. The speed on a long downhill slope will exceed 71. If this continues for a long time , the vehicle will lose power , so it is prohibited to exceed the maximum speed .

Motor

model	TZ160X15H-115
type	Permanent magnet synchronous motor
Cooling method	Natural air cooling
Rated power (kW)	15
Maximum power (kW)	30
Rated voltage(V)	115
Maximum torque (N·m)	110
Maximum speed (r/min)	8200

Power battery pack

Basic Information	Basic	Basic	Struggle Model	Struggle Model	Withdrawal	Withdrawal
Configuration code	TC101-1	TC101-2	TC101-3	TC101-4	TC101-5	TC101-6
type	Lithium Iron Phosphate					
Single nominal voltage (V)	3.2					
Monomer capacity (Ah)	67	67	67	67	67	67
Power battery pack rated voltage (V)	115.2	115.2	115.2	115.2	115.2	115.2
Power battery pack nominal energy (kWh)	15.437	15.437	15.437	15.437	15.437	15.437

CDU vehicle mounted 3 in 1

OBC	Input voltage range (Vac)	90-264
	Output voltage range (Vdc)	65-144
	Rated output voltage (Vdc)	96
	Maximum output current (A)	20
	Power Factor	> 0.94
	Rated output power(Kw)	2
DCDC	Input voltage range (V)	65-144
	Output voltage range (V)	14±0.2
	Rated output current (A)	58
	Rated power (W)	800

Suspension system

Front suspension	McPherson independent suspension
Rear Suspension	Leaf spring non-independent suspension

Braking system

Reasonable range of brake pedal free travel	Less than 9 mm (millimeters)
Reasonable use range of brake friction pair	Friction material thickness 8.5 mm (millimeter), needs to be replaced after 7.5 mm (millimeter) of wear The initial thickness of the brake disc is 8 mm (millimeter), and it needs to be replaced after a single-side wear of 0.5 mm (millimeter).

Oil

Project	Specification	Capacity
Brake fluid	DOT4	0.4 ± 0.015 L (liter)
Rear axle gear oil	GL-5 85W-90	1. 0 L (liter)
Air conditioning refrigerant	HFO-1234yf	3 0 0 ± 10 g (gram)

Wheel alignment

Front Wheel	**Toe-in**	0.074°
	Extraversion	0.383°
	Kingpin inclination	11.2°
	Caster	3.852°
Rear Wheel	**Toe-in**	0°
	Extraversion	0°

Wheels and Tires

Rear Wheel		145 R12LT8PR
Cold tire pressure (kPa) (fully loaded)	**Front Wheel**	300
	Rear Wheel	410
Wheel dynamic balancing requirements		Dynamic unbalance ≤ 15 g (grams)

Battery

Steering system

Power Steering Type	No Power Steering/electronic Power Steering
Steering Gear Type	Rack And Pinion

Bulb Specifications

Light Bulb Name	Light Source/model	Bulb Wattage
High/low Beam Bulb	H4	55W
Position/brake Light Bulb	P21/5W	5W
Rear Fog Lamp Bulb	P21W	21W
Reversing Light Bulb	P21W	21W
Front Turn Signal Bulb	PY21W	21W
Side Turn Signal Bulb	W5W	5W
Rear Turn Signal Bulb	PY21W	21W
License Plate Light Bulb	led	0.2W × 3pcs
Front Reading Light Bulb	W5W	5W

Drive type

Drive Type	Rear-engine, Rear-wheel Drive

8-1.Maintenance and care

Cleans and protects vehicle exterior

Do the following to protect your vehicle and keep it in top condition:

•Rinse the body, wheel wells and underside of the vehicle with plenty of water from top to bottom to remove dirt and dust.

•Use a sponge or soft cloth (such as a chamois cloth) to scrub the body of the car.

•For marks that are difficult to remove, use car shampoo and rinse thoroughly with water.

•Wipe away the water.

•The vehicle should be waxed after the waterproof coating ages. If water beads cannot form on the clean body surface, wax the body after the body cools down.

Washing the vehicle

•Fold the mirrors before washing your car. Start washing from the front of the vehicle. Make sure the mirrors are unfolded before driving.

•Brushes used in automatic car washes can scratch the vehicle's surface, accessories (wheels, etc.) and damage the paint.

⚠ Warning

•When washing the vehicle, do not rinse the interior of the front compartment with water, as this may cause fires in electrical components, etc.

•Before washing the car, be sure to turn off the power switch and inform the car washer that the car is a pure electric vehicle. Do not use a water gun to wash the front cabin and front grille, as well as the power battery pack. Otherwise, the vehicle may be damaged or cause an electric shock accident.

•Avoid using too high a pressure on the water gun. Water can enter the vehicle and damage its interior.

Wheels

•Please use a neutral detergent to remove all dirt.

•After using detergent, rinse off with water immediately.

⚠ Notice

•Be sure to follow the precautions listed below to protect the paint from damage.
•Do not use acidic, alkaline or abrasive detergents.
•Do not use a hard brush.
•Do not use cleaning agents on the wheels while they are hot, for example after driving or when parked in hot weather.

Bumper

Do not scrub with abrasive cleaners.

Underbody maintenance

Corrosive substances used in de-icing, de-snowing and dust prevention can accumulate on the underbody of the vehicle. If these substances are not removed, corrosion and rust will occur more rapidly.

Rinse the underbody with clean water regularly. Be careful to clean areas where dirt easily accumulates. Loosen dirt in enclosed areas before flushing.

Prevent paint aging, corrosion of car bodies and components (steel wheels, etc.)

If your car's paint is peeling or scratched, repair it immediately.

To prevent wheel corrosion, store the wheels clean of all dirt and in a low humidity environment. Wash the vehicle immediately in the following situations:

•After driving on the beach
•After driving on saline roads
•If the paint has coal tar or tree sap
•If there are dead insects, insect droppings or bird droppings on the paint surface
•After the vehicle is driven in an area polluted by coal ash, oil smoke, mineral dust, iron powder or chemical substances
•If the vehicle is heavily dusty or muddy
•If liquids such as benzene and gasoline are splashed onto the painted surface

Cleans and protects vehicle interiors

•Use a vacuum cleaner to remove dirt and dust. Dampen a cloth with lukewarm water and wipe the dirty surface.
•If the dirt cannot be removed, use a soft cloth soaked in a neutral detergent diluted to about 1% to remove it. Wring out the damp cloth and then wipe off the remaining detergent and water thoroughly.

Carpet cleaning

A variety of commercially available foaming cleansers can be used.

•Use a sponge or brush to apply the lather, scrubbing in overlapping circles.

•Wipe dirty surfaces and let them dry.

•Do not use water.

•Keep the carpet as dry as possible for best results.

Detergent

Do not use polishing wax or polishing cleaners. Doing so may damage the paint on the dashboard or other interior accessories.

Do not use the following types of detergents, as they may discolor your vehicle's interior or streak or damage the paint:

•Non-seat areas: organic substances such as benzene or gasoline, alkaline or acidic solutions, dyes and bleaches

•Seat area: Alkaline or acidic solutions, such as thinner, benzene and alcohol

Warning

•Do not spill liquids inside the vehicle, as this may cause electrical components to malfunction or catch fire.

•When cleaning the interior, especially the dashboard, do not use polishing wax or polishing cleaners. Otherwise, the dashboard may be reflected on the windshield, obstructing the driver's field of vision and causing an accident, resulting in serious injury or even death.

8-2.Maintenance

Maintenance Instructions

Maintenance and servicing are divided into two categories: one is routine maintenance, which can be done by customers themselves; the other is regular maintenance, inspection and repair, which needs to be completed by Hudson Automotive EV's authorized service station.

For details on routine maintenance inspection and maintenance methods, please refer to this section for routine maintenance. Regular maintenance allows you to discover and eliminate hidden dangers in a timely manner and prevent malfunctions. Regular maintenance of your vehicle is essential. Please strictly follow the maintenance schedule in this manual to ensure that your vehicle maintains the best performance and good operating condition, effectively extending the service life of the vehicle.

Please use the fluids recommended by Hudson Automotive EV, otherwise the vehicle may be damaged.

Hudson Automotive EV serves you

It is ideal to send the vehicle to the authorized service station of Hudson Automotive EV for maintenance, inspection and repair.

original accessories required to provide repairs and services to your vehicle , and all after-sales service personnel have received professional management and technical training to ensure that the vehicle's maintenance and repair work is completed quickly and efficiently, ensuring that your vehicle always has good technical performance.

Rubber hoses used in brake systems, etc. should be inspected by professionals strictly according to the maintenance schedule. Rubber hoses deteriorate over time, causing expansion, wear or rupture. Therefore, if the hose shows any signs of deterioration or damage, please be sure to contact Hudson Automotive EV's authorized service station immediately for replacement.

Does your vehicle need repairs?

Be alert to changes in vehicle performance and sounds, as well as visual signs that your vehicle needs service. Here are some important signs:

•Significant loss of power

•Abnormal sound

•There is fluid leakage from the underside of the vehicle (however, it is normal for the air conditioning system to drip after use)

•Flat tires, excessive tire noise when turning, uneven tire wear

•The vehicle veers off the road when driving straight ahead on a flat road

•Abnormal noise related to suspension movement

•Brake failure, soft brake pedal, pedal almost touching the floor, vehicle swerving when braking

If you find any of the above signs, please send the vehicle to the Hudson Automotive EV authorized service station as soon as possible.

⚠ Warning
If your vehicle is not properly maintained, severe damage may occur to the vehicle and could result in serious injury or even death.

8-3. Routine maintenance

General maintenance

It should be noted that some maintenance work requires special tools and professional skills. These works are best completed by qualified technicians. Even if you have extensive experience in self-maintenance, we still recommend that you go to Hudson Automotive EV's authorized service station for standardized repairs and maintenance. They will record your car's maintenance information to help you apply for warranty service. Any damage caused by failure to follow the recommended maintenance methods is not included in the warranty.

Daily inspection and maintenance items list

<table>
<tr><th>Serial Number</th><th>Inspection And Maintenance Items</th><th>Inspection And Maintenance Contents</th></tr>
<tr><td>1</td><td>Power Battery Pack Maintenance</td><td>1.1. It is recommended that pure electric vehicles that are running normally be automatically fully charged at least once every three to seven days .
1.2. For vehicles that have been stored for more than 15 days and not used, with a storage capacity SOC of 50%-70%, the power battery pack should be maintained at least once every three months. The maintenance method is to put the power switch in the ON position, power on the vehicle and leave it in the ON position for 7 hours, and then perform a full charging operation after the end of the standing time.
1.3. It is forbidden to lift the forklift near the power battery pack.</td></tr>
<tr><td>2</td><td>Pre-departure Inspection</td><td>2.1. Observe the vehicle's multi-function display screen to confirm that the power battery pack system is in normal condition and whether there are any abnormal alarms or fault codes.
2.2. When the soc is less than 30%, the battery power is low and should be charged in time.
2.3. Check whether the braking system is normal.
2.4. Check whether the tire pressure is normal.</td></tr>
<tr><td>3</td><td>Daily Operation Vehicle Requirements</td><td>3.1. When the temperature is 0 ℃ or below, the operating vehicles should be charged as soon as possible after parking to prevent the battery pack temperature from being too low, which will extend the charging time of the battery pack and affect driving operations.
3.2. If the vehicle falls into water or is soaked by accumulated water due to an accident, it is prohibited to power on the vehicle.
3.3 When driving on flooded roads, please note the following :
<table>
<tr><th>Wading depth</th><th>Driving speed</th><th>Passing time</th></tr>
<tr><td>≤10 cm (cm)</td><td>≤20 km/h (kilometers per hour)</td><td>≤5 min</td></tr>
</table>
3.4. If the depth of water on the road exceeds 20 cm , passage is prohibited.</td></tr>
</table>

⚠ Notice

•Before closing the front hood, check whether tools, cotton cloth, etc. are left in the front compartment.

•Add oil to the appropriate location c orrectly. If oil splashes onto the car body, wipe it clean with a damp cloth to avoid damaging the paint surface.

Warning

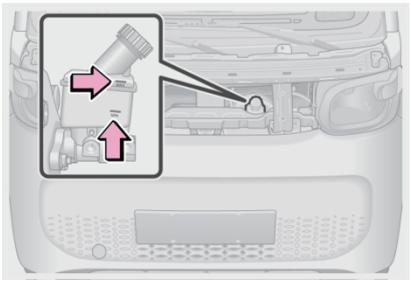
To avoid serious injury or even death, please observe the following precautions when working on the vehicle.

- Keep hands, clothing, and tools away from rotating fans.
- Do not smoke, cause sparks, or expose open flames near 12 V batteries. The fumes emitted by 12 V batteries are flammable.
- Be extremely careful when working with 12 V (volt) batteries. Batteries contain sulfuric acid, which is toxic and corrosive.

Warning

- Never touch, disassemble, remove or replace high-voltage accessories, wiring harnesses and their connectors. Failure to do so may cause severe burns or electric shock, resulting in serious injury or even death.
- Please wear safety goggles to prevent flying or falling objects, sprayed liquids, etc. from entering your eyes.

Checking the brake fluid level



The brake fluid level should be between the MIN and MAX marking lines. If it is at or below the MIN marking line, brake fluid needs to be added in time.

Notice

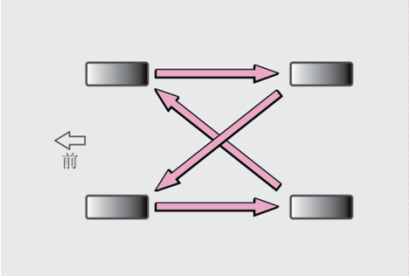
- Brake fluid has strong water absorption capacity, so do not open the brake fluid reservoir cap for a long time.
- Only brake fluid recommended by Hudson Automotive EV can be used, otherwise the direct or indirect losses will be borne by the customer.
- If brake fluid splashes onto the painted surface of the vehicle, wipe it off with a damp sponge or rinse it off with clean water to prevent corrosion to accessories or the painted surface.
- Please use DOT4 brake fluid of the same brand and specification, otherwise the fluid may deteriorate.

> ⚠ Warning
>
> Do not allow brake fluid to come into contact with your skin or eyes. If brake fluid splashes into your skin or eyes, rinse immediately with plenty of water and seek medical attention if necessary.

Check your tires

Check the condition of your tires before driving and check tire pressure at least once a month.

Check the tire tread according to the wear marks on the tread. When the tread wear reaches a certain limit, the tread will be on the same plane as the wear belt. At this time, the performance and safety of the tire are greatly reduced and the tire must be replaced.



To ensure even tire wear and extend the life of your tires, we recommend that you rotate your tires every 12 months or 10,000 km (kilometers), whichever comes first.

When to replace your tires

Tires should be replaced in the following situations:

•The tires show signs of tread wear.

•Tires often lose air or become unrepairable due to the size, location, or other damage of the cut.

•When the tire has cuts, breaks, deep cracks that expose the tire plies, or bulges that indicate damage inside the tire.

■Please observe the following precautions, otherwise accidents and personal injury may occu r:

•Do not use tires that have been used from other vehicles.

•Do not mix tires with significantly different degrees of wear.

•Do not use tires for which you are not familiar.

•Do not mix tires of different makes, models or tread patterns.

•Do not mix tires of different constructions (e.g. radial, bias-belted, or bias-ply tires).

■Please maintain proper tire pressure, otherwise the following situations may occur and cause accidents and personal injury:

•Excessive wear.

•Poor handling.

•Uneven wear.

•Poor tire bead seal.

•The wheel is deformed or the tire has fallen off.

•A tire blowout may occur due to overheating.

•Poor road conditions are more likely to cause tire damage.

Environmental Friendly

Do not discard scrapped tires at will; they should be handled in accordance with local environmental regulations.

Notice

•It is normal for the tire pressure to increase after the vehicle has been running for a period of time.

•If the tire needs to be inflated frequently, please go to the Hudson Automotive EV authorized service station for inspection as soon as possible.

•If a tire leaks air while driving, do not continue driving, as driving even a short distance may cause irreparable damage to the tire.

•Make sure the tire valve caps are installed properly, otherwise dust will enter the valve core and cause blockage. If the valve cap is lost, please install a new valve cap as soon as possible.

Check the 12 V battery

Check that the battery terminals have no corrosion, loose connections, external cracks, or loose retaining clips.

Chemicals in Batteries

12 V batteries contain sulfuric acid, which is toxic and corrosive, and may generate flammable and explosive hydrogen gas. To reduce the risk of serious injury or even death, observe the following precautions when working on or near 12 V batteries:

- Do not touch the battery terminals with tools to avoid sparks.
- Do not smoke or light matches near the battery.
- Avoid contact with eyes, skin and clothing.
- Do not inhale or swallow electrolyte.
- When working near batteries, wear safety goggles.
- Keep children away from batteries.

> **Warning**
>
> Always charge the battery in an open area. Do not charge the battery in a garage or closed room with poor ventilation.

> **Notice**
>
> Never charge the 12 V battery after the vehicle has been started. Also, always turn off all accessories.

Check the windshield washer fluid

If the front nozzles cannot spray washer fluid, the windshield washer fluid bottle may be empty, please add washer fluid.

1 Open The Right Front Door And Then The Washing Pot Cover As Shown In The Figure .

1 Open The Lid Of The Washing Pot.

1 Pull Out The Extension Tube Of The Filling Port Of The Washing Pot And Add Washing Liquid.

Notice

•Do not use soapy water or antifreeze instead of washer fluid. Doing so may cause streaking on the vehicle's paint.
•When the temperature is below zero, do not use clean water instead, otherwise the wipers will be damaged after the water freezes.

Check the windshield washer fluid

Run your finger along the edge of the wiper blade to check its roughness. If it is too rough, it will affect the wiping effect of the wiper blade.

Notice

•Do not use the wiper blades to defrost or de-ice the windshield.
•When there are small dents on the windshield caused by gravel, the glass should be maintained in time.
•To prevent damage to the wiper blades in winter, make sure the wiper blades are not frozen to the glass before operating the wipers.
•Grease, silicone and fuel may prevent the wiper blades from working properly. It is recommended to use detergent to clean the wiper blades.

Wiper blade maintenance

•When washing the car, do not use a high-pressure water gun to directly rinse the wiper blades, as this will cause the wiper blades to deform.

•To prevent the formation of schlieren, clean the wiper blades regularly with windshield washer fluid, recommended once a week.

•After washing your car in an automatic car wash, rinse the windshield and wiper blades with pure water to remove any remaining wax.

•Do not use wiper blades on a dry windshield, otherwise the glass will be scratched and the wiper blades will be permanently damaged.

•Do not use fuel, nail polish remover, paint thinner or similar liquids to clean the windscreen as these may damage the wiper blades.

•Avoid using glass coating agents and hydrophobic agents on the front windshield. After use, the hydrophobic layer will slowly fall off, causing uneven friction on the windshield surface and abnormal shaking and noise from the wipers.

•When the windshield surface is frosted or iced, or is stuck with dried dirt, insect stickers or other solid particles, wipe it clean promptly with a wet cloth. Do not use a dry cloth or directly use the wiper blades to scrape it, otherwise the glass and wiper blades will be damaged.

Use of wipers

•Do not swing the wiper arm with force manually, otherwise the wiper may be damaged.

•When there is snow, leaves, branches or other debris on the windshield, you should clear the debris before operating the wipers.

•The detergent should be added on time and tap water should not be used as a substitute.

•In cold seasons, please check whether the wiper blades are frozen to the windshield before using them. If frozen, they must be thawed before use. Please use air conditioning heating and ventilation devices to heat them. Do not use hot water to directly rinse the wiper blades, otherwise it may cause the windshield to burst or the wiper blades to deform.

8-4. Regular maintenance

Mandatory maintenance (first maintenance)

1. Mandatory maintenance is also called running-in maintenance (first maintenance). It is the first comprehensive inspection of the vehicle after it leaves the factory. It eliminates harmful substances such as metal particles and burrs worn out during the running-in period of the reduction mechanism gears, checks the looseness of important connecting parts, and ensures that their working conditions meet the designed operating conditions. It plays a very important role in improving the reliability, economy, safety of vehicle use and extending the service life of the vehicle.

2. After the new car is sold, it must be subject to mandatory maintenance within 3 months or 3,000 km (kilometers) (whichever comes first). The mandatory maintenance is completed by the authorized service station. After the user signs and confirms on the "Hudson Automotive EV Mandatory Maintenance Form", the authorized service station will mail the red copy to the Service Support Department of Hudson Automotive EV If any of the time and mileage conditions exceed the specified requirements, the right to free maintenance will be lost. Free maintenance includes the labor and material costs of the maintenance work. Any maintenance costs (including subsequent regular maintenance) outside the free service shall be borne by the user.

3. warranty service will not be available for the contents related to the mandatory maintenance and the failures caused by it .

4. Quality problems found during maintenance work will be handled in accordance with the regulations of the quality warranty service.

5. During mandatory maintenance, the costs of non-quality warranty content that exceeds the warranty scope shall be borne by the user.

Routine maintenance (regular maintenance)

In order to better maintain users' vehicles and extend their service life, it is specially stipulated that vehicles must undergo regular routine maintenance.

1. During the warranty period, after the mandatory maintenance, the user's vehicle must be serviced at our authorized service station every 12 months or 10,000 km (kilometers) (whichever comes first).

2. We recommend that users have each maintenance performed at a designated service station. After the maintenance is completed, the designated service station will fill out the "Routine Maintenance Service Record Form" and the user will confirm and sign it.

3. Any related failures caused by failure to perform routine maintenance will not be covered by the quality warranty service.

4. The labor and material costs of routine maintenance (except mandatory maintenance) shall be borne by the user.

5. After the vehicle has been maintained or repaired, record the date, odometer reading and name of the repairman in the form provided in the appendix of this manual, and keep all receipts in a safe place .

Routine maintenance (periodic maintenance) specification schedule

Regular inspection and maintenance schedule : When the vehicle is used in a flat road and dust-free environment, maintenance should be performed in accordance with the requirements of the regular inspection and maintenance schedule or in advance as appropriate. The time and mileage shall prevail whichever comes first. The key parts replacement and maintenance specifications are as follows:

Regular inspection and maintenance schedule

Maintenance Frequency		Mandatory Maintenance	First	Second Time	The Third Time	Fourth	Fifth	Sixth
Maintenance Interval		3 months	12 months	12 months	12 months	12 months	12 months	12 months
Maintenance Interval Mileage (Km)		3000	10000	10000	10000	10000	10000	10000
Chassis Transmission	Rear Axle Reducer Gear Oil	G	G	G	G	G	G	G
	Fasteners on chassis	N	N	N	N	N	N	N
Steering	Loose And Damaged Steering System	J.T.	J.T.	J.T.	J.T.	J.T.	J.T.	J.T.
Brake System	Brake Fluid	J	J	J	J	G	J	J
	Brake Pad Wear	J	J	J	J	J	J	J
	Brake Line Loose And Damaged	J	J	J	J	J	J	J
	Parking Brake Function	J	J	J	J	J	J	J

Regular inspection and maintenance schedule

Maintenance Frequency		Mandatory Maintenance	First	Second Time	The Third Time	Fourth	Fifth	Sixth
Maintenance Interval		3 months	12 months	12 months	12 months	12 months	12 months	12 months
Maintenance Interval Mileage (Km)		3000	10000	10000	10000	10000	10000	10000
Suspension	Rear Leaf Spring Damaged	J.T.	J.T.	J.T.	J.T.	J.T.	J.T.	J.T.
	Saddle Bolt Fastening	N	N	N	N	N	N	N
	Shock Absorber Performance	J	J	J	J	J	J	J
	Swing Arm Bolt Tightening	N	N	N	N	N	N	N
Wheel	Tire Wear And Tire Pressure Check	J	J	J	J	J	J	J
	Nut Tightening	N	N	N	N	N	N	N
	Check And Adjust Toe/tire Rotation	J	J	J	J	J	J	J
	Four-wheel Alignment, Dynamic Balancing	J	J	J	J	J	J	J
	Brake Friction Pad Inspection	J	J	J	J	J	J	J
Box Top Installation	Box Body Riding Bolt	N	N	N	N	N	N	N
	Bbox Limit Bolt	N	N	N	N	N	N	N
	Skirts , Fenders , Bolt Fastening	J	J	J	J	J	J	J
Power Battery Pack	Appearance Safety Protection Status Of The Power Battery Pack And Its Plug-in-/protective Plate	J	J	J	J	J	J	J
	Tightening Status Of Power Battery Pack Mounting Bolts	N	N	N	N	N	N	N
	Power Battery Pack Insulation Inspection	J	J	J	J	J	J	J
	Power Battery Pack System Parameters	J	J	J	J	J	J	J

Regular inspection and maintenance schedule

Maintenance frequency		Mandatory maintenance	First	Second time	The third time	Fourth	Fifth	Sixth
Maintenance Interval		3 months	12 months	12 months	12 months	12 months	12 months	12 months
Maintenance interval mileage (km)		3000	10000	10000	10000	10000	10000	10000
Motors, controllers and high voltage electrical systems	High-voltage wiring harness and its various high-voltage accessories connection status, drive motor, motor controller	J	J	J	J	J	J	J
	in status of CDU vehicle-mounted three-in-one (charger, DCDC converter, distribution box)	J	J	J	J	J	J	J
	High voltage system insulation inspection	J	J	J	J	J	J	J
	High-pressure system plug-in and bolt tightening status	N	N	N	N	N	N	N
Low voltage electrical system	Battery charge and wiring harness connection status	J	J	J	J	J	J	J
	Light and signal status	J	J	J	J	J	J	J

Explanation of symbols in the table :

J-check.
J.T.-check or adjust, replace if necessay.
N-N-Tighten to the specified torque
G-Replace

If the vehicle is in the following severe conditions, the maintenance time and mileage should be shortened.

- Frequent use of brakes.
- Frequent sudden acceleration, sudden deceleration, or high-speed driving.
- often driven when the outdoor temperature is below 0 °C or above 35 °C .
- Frequent driving on dusty roads, or in hilly or mountainous areas.

9-1. User Notice

This manual is an important document that accompanies the vehicle and is the basis for providing you with quality warranty services. This manual will not be reissued if lost. In order to protect your legal rights, please read the details in this manual carefully before using the vehicle. During the vehicle's use period, you are required to properly keep this manual and the customer information and repair and maintenance records in it, and hand it over to the new owner when the vehicle is resold or transferred.

This manual specifies the vehicle maintenance cycle and maintenance items. Please be sure to maintain your car within the specified time and mileage. You will be able to obtain original accessories and professional technical services at the authorized service stations of our company, and quality warranty can only be realized at the authorized service stations of our company. After completing the prescribed maintenance items, the authorized service station will make corresponding records of the maintenance situation to prove that your car has completed the necessary maintenance in accordance with the provisions of this manual. Once your vehicle breaks down, the maintenance certificate in this manual is one of the important bases for our company to confirm the warranty. To ensure the good operation of the vehicle, please carefully read the relevant requirements in this manual before using the vehicle, operate the vehicle correctly and use the specified refrigerant, brake fluid and other oils, etc. Damage caused by improper operation and use of oils is not within the scope of our company's quality warranty service. Our company is not responsible for any problems caused by the use of non-original accessories (including but not limited to other violations of laws and regulations caused by the use of non-original accessories).

The vehicle's "Certificate of Conformity", purchase invoice and this manual are the credentials for vehicle registration and warranty service. Please keep them properly.

After the user leaves the vehicle, please do not store valuables in the vehicle, otherwise the company will not assume any responsibility if any valuables are lost.

The times and mileages in this manual are based on whichever comes first and will not be specified unless necessary.

If any matters not covered in this manual are inconsistent with relevant national laws and regulations, the relevant national laws and regulations shall prevail.

9-2. Quality warranty service

Quality warranty service regulations

1. Vehicles produced by our company are provided with quality warranty service during the quality warranty period. The warranty period for the whole vehicle is 2 years or 50,000 km (kilometers) (whichever comes first). Under the premise that users comply with the provisions in this manual, if the failure is indeed caused by product quality problems such as improper materials, manufacturing, processing, and assembly, free repair will be given after appraisal by the " Service Support Department " or " Special Service Station"; if quality problems that cannot be repaired occur, qualified accessories or assemblies can be replaced free of charge after appraisal.

2. During the quality warranty period, if the vehicle needs necessary repairs due to defects within the scope of the quality warranty service, please allow the authorized service station reasonable and sufficient time to carry out the necessary repairs. The authorized service station will return your vehicle to you as quickly as possible. At the same time, the parts replaced under warranty belong to Hudson Automotive EV The quality warranty requested by the user must ensure the original condition of the faulty parts and explain the truth.

3. In addition to the mandatory provisions of Chinese law, the quality warranty service provided in this manual is the sole responsibility of our company to the user.

4. The product quality warranty period of Hudson Automotive EV is calculated from the date the seller delivers the new vehicle.

5. Replacement or repair of parts during the warranty period cannot extend the original quality warranty period of the vehicle or parts.

6. When the user's vehicle is within the quality warranty period, you must take the purchase invoice (or copy) and this manual to our company's authorized service station for maintenance or quality warranty service according to the time or mileage regulations. Otherwise, you will not be eligible for the quality warranty service for contents related to the quality warranty service and faults caused by it.

7. In case of vehicle failure, users must keep the vehicle in its original condition to facilitate identification and contact our company's authorized service station as soon as possible. Without the permission of the authorized service station, users are not allowed to dismantle the vehicle by themselves.

8. The "Service Support Department" is the department of our company that directly handles quality warranty services. The "Service Support Department" and the "Special Service Stations" established across the country are the units that handle quality warranty services. Any other units and individuals, without the authorization of the "Service Support Department", handle all expenses and all consequences arising from issues involving the scope of quality warranty services. The "Service Support Department" or "Special Service Station" shall not bear any responsibility.

User rights and obligations

For new vehicle parts and self-paid parts, users are entitled to quality warranty services on the premise of fulfilling basic obligations and complying with other relevant provisions of this manual. The following are the basic obligations that users need to fulfill in order to enjoy the quality warranty service rights:

1. During the warranty period, please go to a special service station for regular maintenance according to the provisions of this manual, and use and operate the product correctly according to the provisions in this manual.

2. original accessories provided by our company , and all maintenance, repairs, replacements, etc. are carried out at authorized service stations and valid certificates can be provided.

3. In order to ensure the safety of users and vehicles, users should keep the faulty vehicles in their original condition as much as possible and contact Hudson Automotive EV or a special service station as soon as possible. Without the permission of Hudson Automotive EV or a special service station, users are not allowed to disassemble or repair the vehicle by themselves.

4. According to the national regulations "Power Battery Traceability Management Regulations", when you need to replace the power battery pack, please go to our company's authorized service station for replacement. When the vehicle is scrapped, please go to the national formal scrapping agency to handle the scrapping procedures. The company does not assume any responsibility for violations of national regulations caused by users' private disposal of waste power battery packs.

Scope of quality warranty service

1. Defects within the scope of quality warranty service: refers to vehicle defects caused by product design, manufacturing, assembly and raw material defects during the quality warranty period, as identified by Hudson Automotive EV or a special service station.

2. During the quality warranty period, the user will not be charged for material costs and labor costs incurred for vehicle repairs caused by defects within the scope of the quality warranty service.

3. Auxiliary material costs (such as rear axle gear oil, brake fluid, etc.) that must be incurred due to quality warranty service will not be charged to the user.

⚠ Notice

•The old parts replaced under warranty belong to Hudson Automotive EV

•Please comply with the provisions of this manual and use, maintain and service the vehicle properly.

•When the user requests a quality warranty, the original condition of the damaged parts must be preserved and the truth must be explained.

•Replacement or repair of parts during the warranty period cannot extend the warranty period of the vehicle or parts.

Scope of quality warranty service

In the following circumstances, the right to quality warranty service will be automatically waived or the quality warranty service will not be enjoyed, but paid repairs can be carried out, and the costs shall be borne by the user.

1. Forging or illegally obtaining relevant vehicle purchase certificates, vehicle manuals, etc.;

2. Failure caused by self-modification, installation or use of non-designated genuine parts ;

3. There is no valid purchase invoice and this manual, or the manual content is inconsistent with the actual vehicle, and there is no information to prove that the purchased product is within the quality warranty service period;

4. Cheating behavior during the warranty period, including but not limited to intentionally changing the odometer;

5. Refuse to accept the quality warranty service of our company or authorized service station;

6. Secondary failures caused by continuing to drive the car when it breaks down;

7. Product failure or accessory loss caused by improper use, storage or maintenance by the user, including but not limited to failure of various accessories such as drive motors or electrical equipment due to vehicle wading, or failure caused by theft, overloading, abnormal operation, racing, exposure to the sun, long-term parking, etc.;

8. Damage caused by traffic accidents, natural disasters or other force majeure, including but not limited to traffic accidents, fires, floods, sandstorms, landslides, hail, earthquakes, mudslides, military operations, etc.;

9. Failure to use rear axle oil, brake fluid, refrigerant, etc. in accordance with the provisions of this manual;

10. Defects such as damage, rust, fading, scars, etc. caused by human or external factors, including but not limited to scratches by foreign objects, contamination by animal excrement, environmental pollution, etc.;

11. Under normal circumstances, sensory phenomena that do not affect the quality and function of the vehicle, including but not limited to minor noise or vibration;

12. Economic losses or additional expenses caused by the inability to use the vehicle normally, such as time loss, loss of personal property and income, parking fees, storage fees, board and lodging and communication fees, etc.;

13. If a product has a quality problem and the consumer handles the product improperly, causing damage;

14. Accessories that are faulty or damaged due to user or third-party reasons; Failures caused by failure to perform regular inspection, maintenance and adjustment according to this manual;

15. Failure caused by the user not storing, keeping or using the product as required by the manual;

16. Product quality problems that occur after wearing parts exceed the quality warranty period;

17. The capacity of all power battery packs will gradually decrease after a period of use. The normal loss of power battery capacity for this model is not covered by the warranty.

18. Failure to fully perform basic user obligations.

Read

•To keep the vehicle in good operating condition, the user is responsible for performing necessary inspections and maintenance.

•In order to maintain the vehicle in good operating condition, it is necessary to use original accessories. Hudson Automotive EV's authorized service station will provide you with original accessories.

•The quality warranty is based on the reasonable use of original parts and designated oils and fluids, and the purpose is to ensure the quality of the vehicle. If non-original parts are used or original parts are not suitable for this vehicle, or oils other than those specified are used, it may affect the performance of the vehicle and reduce its durability.

•Some parts will be worn out during driving and repeated operation. For example, friction plates and other parts that consume themselves to achieve their functions, and grease used in various parts for lubrication and cooling will be consumed and deteriorate as the vehicle is driven. The painted surface and the instrument panel inside the car will gradually lose their luster and fade over time. These phenomena caused by daily driving and operation and changes over time are not covered by the quality warranty.

•Special sounds and vibrations are sometimes caused by abnormal road conditions, and sometimes they are also produced by normal operations. In this case, there is no problem with the quality or function of the car.

Scope of quality warranty service

The vehicle you purchased can enjoy quality warranty service according to the specified purchase time or mileage. If the vehicle time or mileage exceeds any of the conditions, it will be considered as exceeding the quality warranty period:

Serial Number	Category	Warranty period	
1	Vehicle Warranty Period	2 years or 50,000 km, whichever comes first	
2	Core Components	Power battery（including battery management system）	5 years or 150,000 km whichever comes first
3	Consumable Parts	Steering System: Electric Steering Pump, Steering Tie Rod, Hydraulic Steering Gear, Steering Column, Steering Hose Drive axles: camshafts, camshaft mounts, dampers and damper brackets, brake assemblies, ESC/ABS sensors, half shafts Air conditioning systems: compressors, condensers, evaporators, PTC heaters	12 months or 20,000 km whichever comes first
		Brake System: Air Brake Valve, ESC/ABS Valve Body, EPB, Air Brake Pipe, Tires, Brake Shoes Rubber parts, various types of oil seals, sensors, 12V/24 batteries, cameras	6 months or 5,000km whichever comes first
		Lubricants, Grease, Coolant, Antifreeze, Fuses and Relays, Air Conditioning Filter, Remote Control Battery, Light Bulb, Wiper Blade	No warranty
		Parts and components not listed in the table above	24 months or 50,000 km whichever comes first

4. The quality warranty period for newly purchased accessories (except wearing parts) is 12 months or 20,000 km (kilometers), excluding tires, wiper blades, brake friction pads, remote control batteries, light bulbs, fuses and ordinary relays (excluding integrated control units) and batteries.

5. The warranty period for accessories replaced free of charge during the warranty period is the same as the warranty period for the same parts of the original vehicle, and ends when the warranty period of the original vehicle ends.

6. Situations not covered by warranty: normal wear or aging of vulnerable and consumable parts, such as seals, light bulbs, fuses, brake pads, wiper blades, tires and rubber products, as well as wear or corrosion of interior decoration, paint or other exterior parts.

Necessary conditions for self-paid accessories warranty:

Original accessories provided by the authorized service station of Hudson Automotive EV , and accessories purchased by users at their own expense and repaired and assembled at the authorized service station of Hudson Automotive EV

When applying for warranty of self-paid accessories, the following information should be provided:

When applying for warranty for self-paid replacement of parts, you need to provide the settlement statement and invoice issued by the authorized service station of Hudson Automotive EV at the time of self-paid replacement.

Note: When making a claim for self-paid accessories warranty, you need to protect the accessories in their original damaged state.

Hudson Automotive EV MANDATORY MAINTENANCE ORDER

User Information			
Owner Name			
Owner's	Province City (region) District (county) Street (road, town, township)		
Guarantor		Contact Number	
Vehicle Information			
License plate		Power battery	
Vehicle VIN		Motor number	
Date of	Year Month Day	Purchase Date	Year Month Day
Mileage		Date of	
Maintenance items	☐Replace rear axle gear oil ☐Steering check ☐ Brake check ☐ Suspension check ☐ Wheel check ☐ Power battery pack check ☐Motor, controller and high voltage electrical system inspection ☐ Low voltage electrical system inspection ☐ Others: In accordance with the requirements of the maintenance inspection items during the running-in period		

Note : This form consists of three copies. The white copy is kept by the user, the red copy is mailed to the service support department of Hudson Automotive EV , and the green copy is archived by the authorized service station.

Signature of the person submitting the insurance: Date of issuance of insurance: Name of the authorized service station (signature and seal):

First Link User Retention

Hudson Automotive EV MANDATORY MAINTENANCE ORDER

User Information			
Owner Name			
Owner's	Province City (region) District (county) Street (road, town, township)		
Guarantor		Contact Number	
Vehicle Information			
License plate		Power battery	
Vehicle VIN		Motor number	
Date of	Year Month Day	Purchase Date	Year Month Day
Mileage		Date of	
Maintenance items	☐Replace rear axle gear oil ☐Steering check ☐ Brake check ☐ Suspension check ☐ Wheel check ☐ Power battery pack check ☐Motor, controller and high voltage electrical system inspection ☐ Low voltage electrical system inspection ☐ Others: In accordance with the requirements of the maintenance inspection items during the running-in period		

Note : This form consists of three copies. The white copy is kept by the user, the red copy is mailed to the service support department of Hudson Automotive EV, and the green copy is archived by the authorized service station.

Signature of the person submitting the insurance: Date of issuance of insurance: Name of the authorized service station (signature and seal):

Second Link Hudson Automotive EV Service Support Department Archive

Hudson Automotive EV MANDATORY MAINTENANCE ORDER

User Information			
Owner Name			
Owner's	Province City (region) District (county) Street (road, town, township)		
Guarantor		Contact Number	
Vehicle Information			
License plate		Power battery	
Vehicle VIN		Motor number	
Date of	Year Month Day	Purchase Date	Year Month Day
Mileage		Date of	
Maintenance items	☐Replace rear axle gear oil ☐Steering check ☐ Brake check ☐ Suspension check ☐ Wheel check ☐ Power battery pack check ☐Motor, controller and high voltage electrical system inspection ☐ Low voltage electrical system inspection ☐ Others: In accordance with the requirements of the maintenance inspection items during the running-in period		

Note : This form consists of three copies. The white copy is kept by the user, the red copy is mailed to the service support department of Hudson Automotive EV, and the green copy is archived by the authorized service station.

Signature of the person submitting the insurance: Date of issuance of insurance: Name of the authorized service station (signature and seal):

Archives of the Third Alliance Special Service Station

Maintenance and repair records				
date	Odometer reading	Maintenance personnel name	authorized service station	Maintenance records

Routine maintenance service record

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine maintenance service record

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

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Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

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Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine maintenance service record

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

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Service Date:
DD_____MM_____YY_____

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Service Date:
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ODO: _____KM

Authorized Service Station Stamp：_____

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Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine maintenance service record

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Routine Service Record

Service Date:
DD_____MM_____YY_____

ODO: _____KM

Authorized Service Station Stamp：_____

Instrument cluster replacement record

Cluster Change Recrod

Date: _____DD_____MM_____YY

Previous(ODO): _____KM

Change Reason: _____

_____

Authorized Service Station Stamp: _____

Cluster Change Recrod

Date: _____DD_____MM_____YY

Previous(ODO): _____KM

Change Reason: _____

_____

Authorized Service Station Stamp: _____

Cluster Change Recrod

Date: _____DD_____MM_____YY

Previous(ODO): _____KM

Change Reason: _____

_____

Authorized Service Station Stamp: _____

Cluster Change Recrod

Date: _____DD_____MM_____YY

Previous(ODO): _____KM

Change Reason: _____

_____

Authorized Service Station Stamp: _____

User record change table

Current user information					
License Number		User Name		Telephone	
User Address				post code	
Original user information					
License Number		User Name		Telephone	
User Address				post code	
Vehicle Information					
Model		Vehicle VIN			
Motor number		Date of manufacture		Date of purchase	

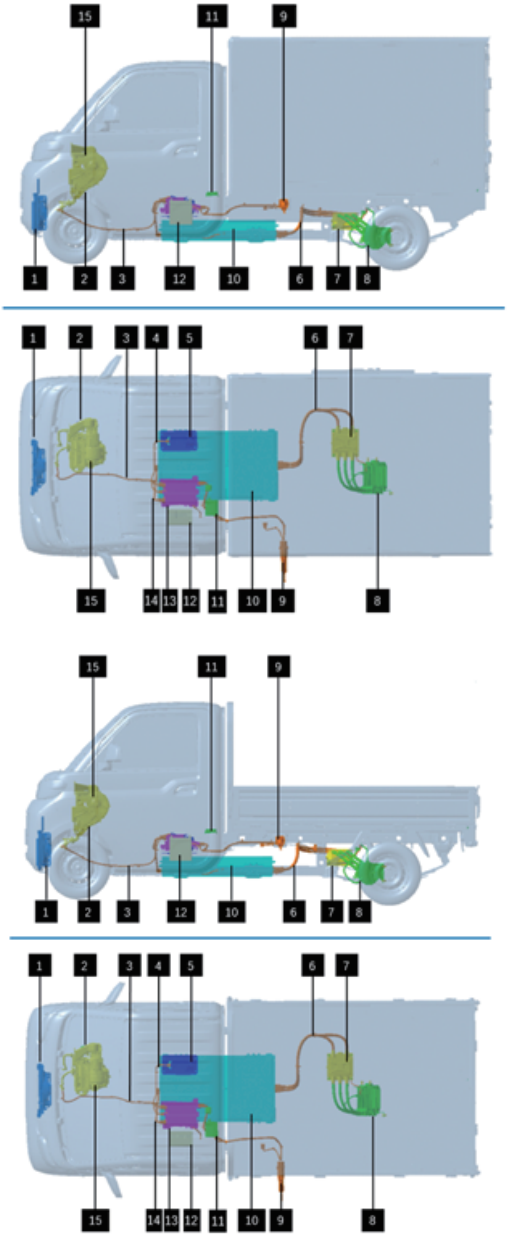
Note:

1. When user information needs to be changed, this copy must be completed by the authorized service station and stamped to be valid;
2. This copy is kept by the user as an important basis for enjoying warranty service (keep this copy and do not tear it off) .

Non-quality warranty paid service records

date	Mileage	Failure and maintenance	Authorized service station code	Service staff

Rescue Information Card



1 Condenser And Fan

2 Body Controller

3 Vehicle Power Three-in-one -ptc High Voltage Wiring Harness

4 Vehicle Power Three-in-one - Compressor High Voltage Wiring Harness

5 Compressor

6 Power Battery-drive Motor Controller High Voltage Wiring Harness

7 Motor Controller

8 Drive Motor

9 Charging Gun/ Charging Stand (Including Wiring Harness)

10 Power Battery Pack

11 T-box Host

12 Battery

13 Cdu Car Power Three In One

14 Power Battery-vehicle Power Three-in-one High-voltage Cable

15 Air Conditioning Box