



PROTON
e.MAS

e.MAS5

OWNER'S MANUAL

Foreword

Dear users,

Thank you for your trust in choosing Proton vehicle, which will provide you with excellent safety, comfort, power, and economy. We are looking forward to bringing fun to your work and life with our high-quality products and services.

Please read and comply with the contents of this Manual before using your vehicle for the first time. It will help you to better understand and use your PROTON, ensuring that your new vehicle will be in good technical condition and always perform at its best in the future. The more you know about your vehicle, the more you will enjoy the safety and fun of driving it.

If you find any problems in driving, contact nearby authorised PROTON e.MAS service outlet, which will provide high-quality service for you in vehicle maintenance and repair. Make sure to maintain your vehicle according to the periodical service maintenance schedule as specified in this manual.

This manual provides the all information on all variants in this vehicle model. The configuration mentioned in the manual herein may differ from that of your vehicle. Therefore, the actual configuration of your vehicle shall prevail as far as the configuration is concerned. This manual is a part of the complete vehicle. Please make sure to keep this manual in the vehicle all the time. If you sell this vehicle, please make sure to hand over this manual to the new owner.

Perusahaan Otomobil Nasional Sdn Bhd (PROTON) reserves the right to make changes to the design and specifications and/or to make additions or improvements to the vehicle without any obligation to install the same on vehicles previously manufactured. The driver is required to strictly comply with all laws and regulations governing the use of this vehicle.

This Manual has been written in compliance with such laws and regulations currently in force. PROTON reserves the right to make such amendments and/or revisions to this Manual as and when required. This Manual is a copyright owned by PROTON. This Manual or any part thereof shall not be reproduced, stored in any retrieval system, or transmitted in any form or by any means without the prior written permission of PROTON.

All the data contained in the manual are the latest data at the time this manual is published. In the event of any conflict or discrepancy between the provisions of the English language version of this Manual and Manuals of any other language provided, the provisions of the English language manual shall prevail for the purpose of interpretation and applicability.

Note: The cover and pictures in this Manual are only for reference, which shall be subject to the actual vehicle.

This vehicle has comply to MCMC requirements.

The shown label is the certification mark approved for compliance to standards according to the Communications and Multimedia (Technical Standards) Regulations 2000.



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emas.proton.com (1-300-88-8877)

Scan the QR Code at the back cover of this Manual to access the PROTON e.MAS official application.

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Notes to Users

Manual Instructions

- The Multimedia Manual, an important part of this Manual, is used to introduce the entertainment system of the vehicle. See the Multimedia Manual for detailed operations of the entertainment system.
- All the information in this manual is the latest information as of the time of publication. The contents of this manual are based on the product information at the time of publication. In order to meet the requirements of customers and laws and regulations, the vehicle configuration and performance will continue to be optimised and improved. Your vehicle may be different from the description in this manual.
- The software version of the vehicle and settings may be upgraded later. Before the upgrade, you will be notified to obtain your consent. The information displayed after the upgrade may be different from the description in the User Manual delivered with the purchased vehicle. The actual situation shall prevail in terms of specific information.

Vehicle Overview

- Please read the instructions in this Manual carefully before initial use, otherwise it may cause personal injury and property damage, and may also result in you losing your maintenance or warranty rights.
- Before driving, keep the power battery fully charged as much as possible. During driving, the power battery is in a

state of gradual discharge. When the power battery is at low power, it must be recharged otherwise the vehicle may not be able to run.

- This vehicle is equipped with two types of batteries. One is power battery (high voltage) used to supply power to drive motor and propel the vehicle. The other is low-voltage battery used to supply power to low-voltage electrical systems such as headlights, audio, horns, etc. The electricity of the low-voltage battery comes from the power battery.
- This vehicle uses a charging plug to connect to the power grid for power battery charging. Additionally, this vehicle has energy recovery function. During braking, the motor generates electricity and stores part of it in the power battery so as to extend the driving range of the vehicle.
- This vehicle features the creep function. That is, when the vehicle is in a drivable state (the ready for operation indicator is on) and in Drive (D) or reverse (R) gear, releasing the brake pedal and parking brake will make the vehicle move forward or backward slowly.

High Voltage Safety

The following information is helpful to keep passengers and emergency personnel safe from high voltage:

- The high voltage fuse (inside the power battery) provides short-circuit protection for the power battery.
- Positive/negative high-voltage cables connected to power battery are usually controlled by high-voltage relay. When

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disconnecting the vehicle high voltage power supply, the relay is disconnected to prevent the current from flowing out of power battery.

- The power supply of the vehicle needs to be cut off for 5 minutes before the voltage drops to a safe level for human touch. To prevent serious injury or death caused by accidental contact with high-voltage electricity, it is strictly forbidden to touch, cut off or damage any orange high-voltage cables or high-voltage components.
- The high-voltage cables are all insulated from the metal body of the vehicle. The high-voltage current flows through these cables but not the metal body of the vehicle. As the metal body is insulated from high voltage parts, it is safe to touch the metal vehicle body.

Warning Information

- When a fault occurs in the power system or due to improper user operation, the meter instrument automatically displays warning information; please read the information and follow the instructions. If the warning light illuminates, a warning message is displayed, or the low-voltage battery fails, the power system may not start. In this case, please try to start the system again. If the Ready indicator does not turn on, contact an authorised PROTON e.MAS service outlet as soon as possible.
- When the collision sensor detects a certain level of impact, the system and high voltage current output will be urgently cut off to minimise the risk of

electric shock. If the emergency shut-off system is activated, the vehicle cannot be restarted. To restart the vehicle, please contact an authorised PROTON e.MAS service outlet.

- The removal and replacement of any high-voltage components in the vehicle may affect the performance and high-voltage safety, therefore any work involving the removal and replacement of high-voltage components must be the responsibility of an authorised PROTON e.MAS service outlet.



The vehicle is equipped with high voltage DC and AC systems as well as 12V low voltage system. High voltage DC and AC equipment systems are extremely dangerous. Serious injury or death may occur in case of failure. ◀

Important Tips

- Please check tyre wear and tyre pressure regularly as per the methods recommended herein and tyre pressure requirements.
- Always use the oil and fluid recommended in this manual and perform maintenance according to the requirements.

Safety Precautions

- To avoid serious injury or even death, do not touch high-voltage cables, connectors, and high-voltage components (motor controllers, power batteries, etc.).
- If exposed wires extend into or outside the car, do not touch the wires, otherwise electric shock accidents may occur.

- Do not touch the positive and negative poles on the power battery body with both hands at any time.
- Do not crush, pierce, burn the power battery and the like, which will damage the battery system.
- When the vehicle catches fire, passengers inside the vehicle should quickly leave the vehicle, reach a safe location, and immediately call the Emergency Services to notify the rescue personnel that the vehicle on fire is a pure electric vehicle equipped with high-voltage components.
- Never disassemble, sell, transfer, modify, or store the power batteries without authorization. It should be the responsibility of PROTON e.MAS service outlet to recycle and remove the power battery from the vehicle according to the prescribed procedures to prevent safety accidents.
- When cleaning the vehicle, it is not permitted for a high pressure water cleaner to be aimed at bottom connector of the chassis for flushing.
- The ambient temperature for vehicle parking should be between -30 and 55 ° C, otherwise it may cause the vehicle to malfunction.
- The vehicle is equipped with the Anti-lock Braking System (ABS). Press the brake pedal firmly rather than pumping it.
- This vehicle is equipped with airbags. For the safety of children, do not use the backward child restraint system on a seat with frontal airbag protection (enabled).
- The vehicle operating environment should be free of corrosive, explosive and insulating gas or conductive dust, and be away from heat sources.
- It is necessary to use and place the floor mat with appropriate size properly. The floor mat should not affect the normal use of each pedal, so as to avoid affecting the action of the pedal due to the sliding of the floor mat, thus causing traffic accidents.

Accessories, Spare Parts and Modifications

- For your safety, do not remove or replace any vehicle parts or components arbitrarily.
- Refitting or adding devices is not allowed. PROTON shall not bear any responsibility for the direct or indirect losses incurred from refitting or adding equipment.
- PROTON is responsible only for tested and certified original hardbound accessories and options. PROTON original hardbound accessories are preferred in order to ensure the vehicle performance and safety is maintained.

Prompt Information

This manual provides information on all models. Due to the variation of configurations and models, the descriptions in this manual may differ from the actual configuration of your vehicle. The vehicle you actually receive shall prevail.

Warning



Ignoring the warning may cause serious injury or death. The stated steps or requirements must be strictly followed. ◀

High Voltage



It means that the event stated here is related to the high voltage circuit of vehicle and must be strictly observed. Otherwise it may lead to electric shock, serious injuries or even death. ◀

Caution



Steps and requirements stated in the caution must be strictly observed. Otherwise, your vehicle might be damaged. ◀

Description



Indicative descriptions for your better use of the vehicle information. ◀

Environmental Protection



Issues described are related to environmental protection. ◀

Asterisk

The asterisk “*” symbol following a title or name indicates that the configuration or

function described is only featured on certain models. Your vehicle may not necessarily have it. ◀

Graphical Information



Indicates a descriptive object.



Indicates the movement direction of an object.



Indicates the rotation direction of an object.



Indicates that this action is forbidden or this situation must not occur.

Event Data Recorder (EDR)*

PROTON vehicle is equipped with an event data recording system that conforms to the relevant national standards. This system is used to record the relevant information when a vehicle collides, such as the vehicle's driving speed (the signal comes from the chassis controller and is obtained from the sensor, indicating the vehicle speed at the time of the event) and braking status (indicating whether the vehicle is braking at the time of the event).

When a collision occurs, the current event data can overwrite the previous non-locked event data according to the time sequence of the accident data storage.

EDR helps relevant personnel understand the state of the vehicle at the time of the event, and facilitate relevant parties to act in accordance with relevant laws and regulations. In addition, the information can be used for engineering research and help continuously improving vehicle product quality and safety.

According to the requirements of national laws and regulations, PROTON vehicle may need to disclose relevant recorded data to certain authorities (such as the Police, relevant public organisations, or other institutions that have access to the event data recording system). Special data reading equipment conforming to corresponding standards shall be used to read data. The special equipment is connected to the OBD interface of the vehicle or the EDR controller is separately connected to extract the data. Only authorised individuals or organisations can read or extract the data.

Access to data reading equipment: If necessary, you can contact an authorised PROTON e.MAS service outlet and apply to the manufacturer for access to the equipment with their assistance.

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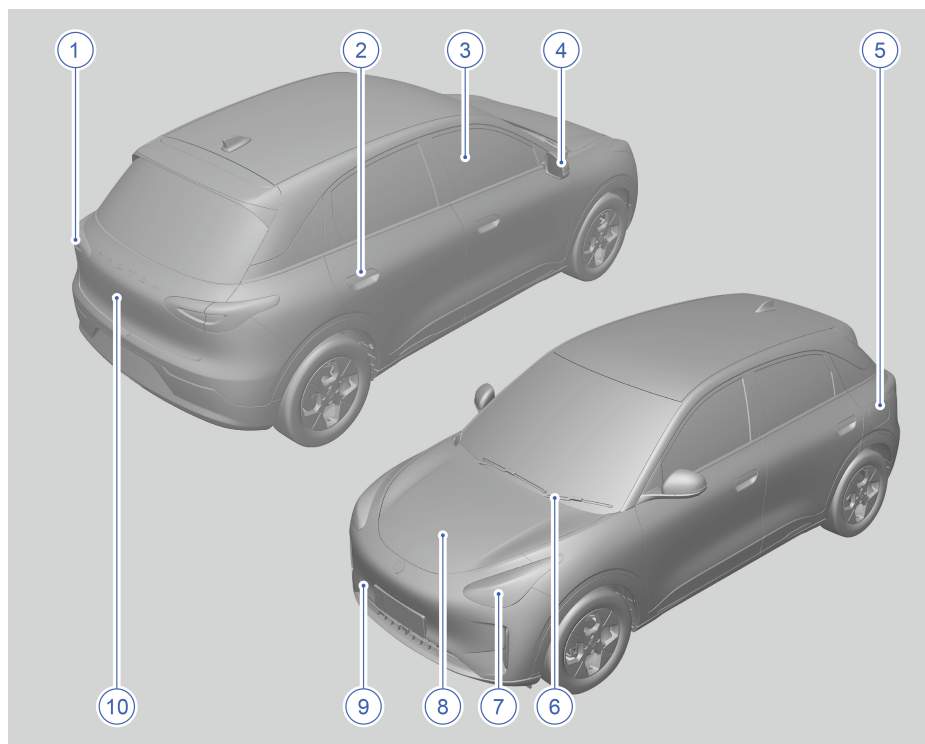
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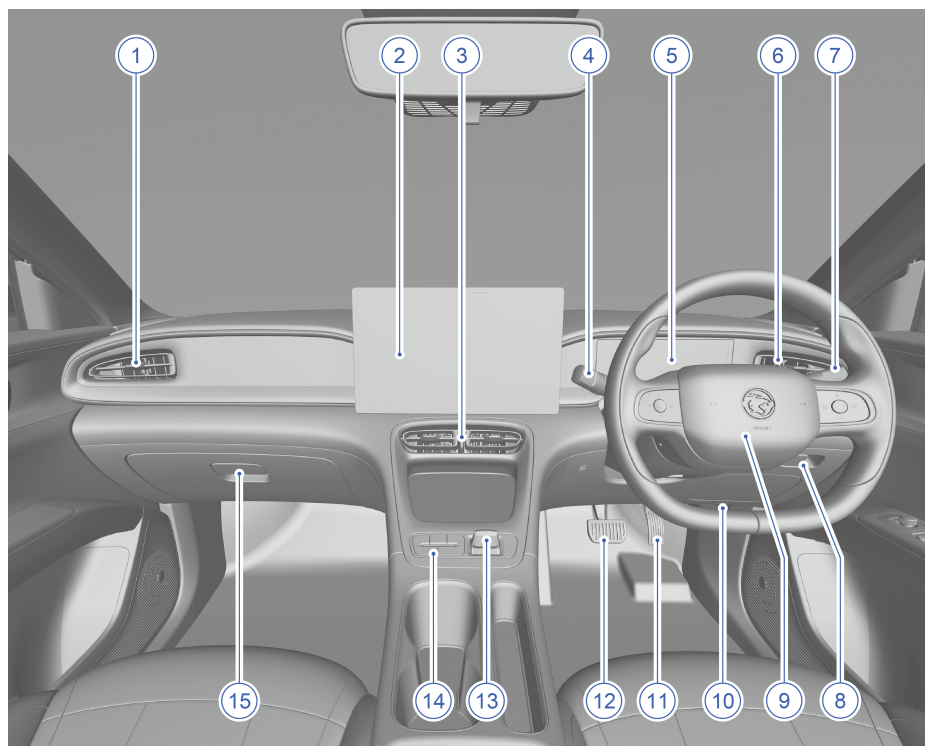
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Overview of Exterior



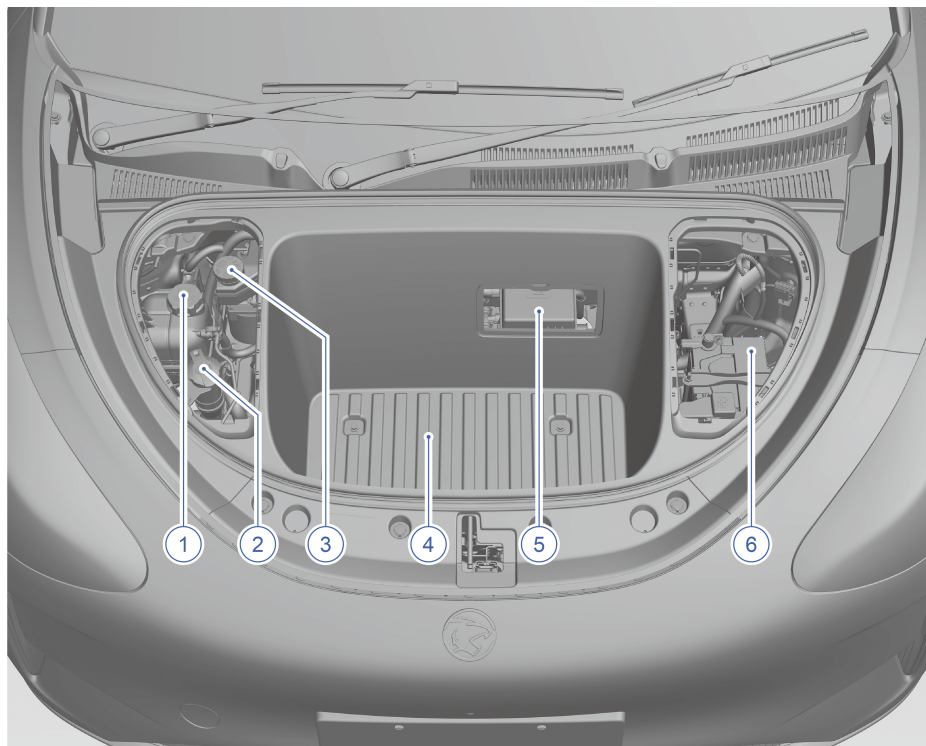
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|--|----------------------------------|
| 1. Rear combination lamp | 6. Front wiper |
| 2. Exterior door handle | 7. Front combination lamp |
| 3. Window | 8. Front compartment lid |
| 4. Side mirror
(Exterior rearview mirror) | 9. Front towing hook cover plate |
| 5. Charging port (high voltage) | 10. Tailgate |

Overview of Interior



- | | |
|--|--|
| 1. Left air vent (air outlet) | 9. Steering wheel |
| 2. Multimedia display | 10. Front compartment lid opening handle |
| 3. Centre air vent (air outlet) | 11. Accelerator pedal |
| 4. Light combination switch | 12. Brake pedal |
| 5. Meter instrument display | 13. Gear shift lever (gear selector) |
| 6. Right air vent (air outlet) | 14. Control switch on front centre console |
| 7. Wiper combination switch | 15. Glove box |
| 8. Electric parking brake (EPB) switch | |

Overview of Front Compartment



- | | |
|---------------------------|---------------------------------------|
| 1. Coolant expansion tank | 4. Storage space in front compartment |
| 2. Washer fluid reservoir | 5. Fuse box in front compartment |
| 3. Brake fluid reservoir | 6. Low voltage battery |

Overview of Seat Belts

 When the vehicle is running, all passengers should wear seat belts properly. In case of emergency braking or an accident, wearing seat belts properly can reduce the injury to passengers.

- Improper wearing or not wearing seat belts may cause serious injuries or even death!
- No passenger should sit in the area without a seat belt or on a seat with damaged seat belt.
- Each seat belt can only be used by one person. Do not share a seat belt with others (including children).
- Do not pass the shoulder belt across the neck or pass through the armpit.
- Do not remove, disassemble or modify the seat belt.
- The seat belt in the vehicle is primarily designed according to the body shape of adults, and children should use appropriate child restraint system (CRS).
- Do not clean the seat belt with bleach, dyes or chemical solvents. ◀

Proper Wearing of Seat Belts

 When driving, do not tilt the seat backrest heavily, stretch your head or arm out of the window or lean forward too close to the airbag to avoid serious injury. ◀

- The seat backrest should be in a vertical position and your back should make full contact with the backrest.
- The seat belt should not be twisted.



- The shoulder belt should be fastened across the shoulder and chest.
- The lap belt should be fastened as low as possible to ensure contact with the hip.

Seat Belt Safety Guidelines for Pregnant Women

Before a pregnant woman drives a vehicle, consult a doctor prior to driving. The method for pregnant women to wear seat belts is basically the same as that for normal use, but the following matters should be noted:

1. Lower the waist seat belt as much as possible and place it under the bulging abdomen.
2. The shoulder belt should pass over the shoulder, but should avoid the abdomen, so that it is located in the chest.

 If a pregnant woman uses the seat belt incorrectly, the seat belt may cause serious injury to the mother and fetus in case of emergency braking or collision. ◀

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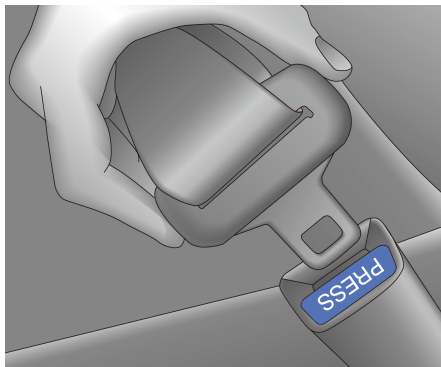
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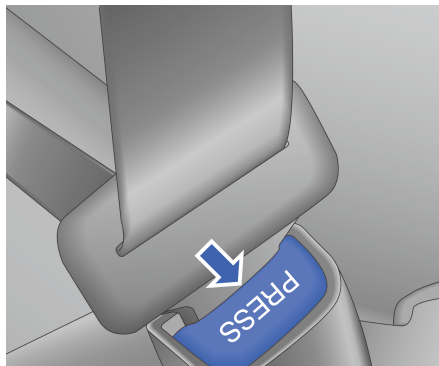
Three-point Seat Belts

1. Pick up the latch plate, and pull the seat belt across body. Do not twist the seat belt;

The three-point seat belt may be locked when being pulled across body too fast. If this occurs, release and retract it a little to unlock it. Then, pull the seat belt slowly across your body.



2. Press the latch plate into the buckle until a “click” sound is heard;
Pull the latch plate to make sure it is locked. Confirm the correct position of the release button on the buckle to facilitate unfastening of the seat belt when necessary.
3. The lap belt can be tightened if the shoulder belt is pulled up.
4. To release the seat belt, press red button on the buckle. The seat belt should return to unused state.



 Take care to prevent foreign objects such as food scraps, nut shells, buttons, coins, viscous liquid from falling into the seat belt buckle. It may cause the failure of the seat belt reminder function and the locking or unlocking function of the buckle. ◀

 It is forbidden to insert objects other than the vehicle latch plate into the buckle, otherwise, it may cause failure of the buckle. This will reduce the protective effect of the seat belt and may cause serious personal injury or death. ◀

 In order to prevent the seat belt from damaging the surrounding area due to excessively fast retraction or an obstruction due to too slow retraction, please return the seat belt to the original position after unfastening the seat belt. ◀

 Ensure that the seat belt is not caught in the door before closing the door. Otherwise, the seat belts and doors will be damaged. ◀

Seat Belt Pretensioner

Seat belts are equipped with seat belt pretensioners. When the vehicle collides and seat belt device reaches the triggering condition, the seat belt will be tightened to ensure passenger safety. The pretensioner can only work once. After a collision, it is necessary to contact the authorised PROTON e.MAS service outlet to replace the new pretensioner, and other components of the seat belt system may need to be replaced.



- Properly fastening the seat belt can lower the risk of being hurt at emergency braking and traffic accidents. Thus, the driver and passengers must all fasten seat belts properly during driving.
- Please pay attention to the illuminated warning light on the meter instrument; otherwise, serious personal injury and property damage will be caused. ◀

Seat Belt Unfastened Reminder

This vehicle is equipped with seat belt unfastened reminder function. When the seat belt unfastened reminder is triggered, the seat belt unfastened warning light  on the meter instrument display will illuminate in different states, and the seat with the seat belt unfastened will be displayed on the meter instrument display.

When the power system is activated, the warning light illuminates if the seat belt is not fastened. When the vehicle speed is more than 10 km/h or the forward driving distance is greater than approximately 300 m, this light will flash with a warning tone if the seat belt is unfastened. The warning light in the corresponding position will turn off and the warning tone will disappear once the seat belt is fastened.

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Overview of Airbag



- Airbags are an important part of the passive safety system, but they cannot replace seat belts. All passengers in the vehicle must fasten seat belts during driving.
- Depending on the collision position, angle, degree and type of object during the collision, airbags may not be deployed in all accidents. The airbags usually deploy with significant force, so the driver and front passengers should adjust their seats to have a sufficient safety distance from the frontal airbags, wear seat belts correctly and maintain correct sitting posture to avoid serious personal injury or death.
- It is necessary to ensure that there are no obstacles in the path of airbag deployment. It is forbidden to place any object between the passenger and the airbag. If any obstacle exists between the passenger and airbag, the airbag may not be inflated normally, or the obstacle may be forced into human body during deployment, resulting in severe injuries or death.
- After the airbag is deployed, do not touch it to avoid scalding.
- When the airbag is deployed, some gas and dust will be released, which may irritate the skin and eyes. Please seek medical treatment if required.
- Do not maintain, repair or replace any part of the airbag system without authorisation. Otherwise, the system

may not work normally, causing serious personal injury or death.

- The protection function of the airbag system can only be used once. If the airbag has been deployed, it must be replaced at an authorised PROTON e.MAS service outlet immediately. ◀



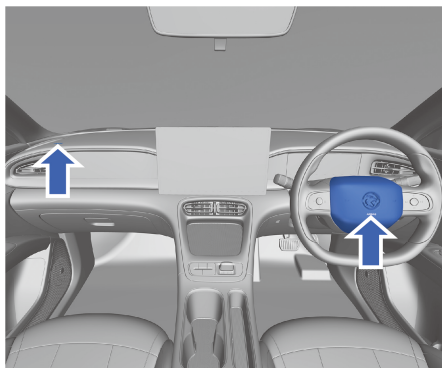
Due to the considerable speed and force when the airbag is unfolded, do not let infants or children on the front seat or hold them on the front seat to avoid serious injury. ◀

Position of Airbags

Front Airbag

In case of front impact, the front airbags can effectively protect passengers and reduce damage from front impact.

When the vehicle suffers from moderate to severe front impact or nearly front impact which meeting the triggering condition of the system, the airbag will be inflated with gas so as to buffer the forward moving speed of driver and front passenger, and prevent them from hitting on the steering wheel and instrument panel directly.



One airbag is mounted in the centre of steering wheel and the other in the instrument panel above the glove box respectively, marked with "AIRBAG".

 Deployment and deflation of airbags are completed in a very short time and are disposable. They will not have protective effects on a possible follow-up second collision. ◀



- Do not press or hit the driver airbag cover plate violently to avoid the deployment of driver airbag and cause personal injury.
- Do not put things or pets in front of the instrument panel or glove box as well as on the steering wheel with airbags installed. They may hinder the deployment of airbag or cause severe injury or death to the passengers due to its large projection force.
- Do not modify, remove, knock or open any front airbag components or cables; otherwise, the airbag may suddenly inflate or the system will become inoperable, resulting in serious personal injury or death. ◀



During the operation of the vehicle, do not sit on the side of the seat or lean against the instrument panel, because any person standing against or very close to the airbag may be seriously injured or killed when the airbag inflates. The drivers and occupants must ensure that they keep a distance of at least 25 cm from the airbag. ◀



When the following conditions occur, contact an authorised PROTON e.MAS service outlet immediately:

- Front airbags have been deployed.
- The front part of the vehicle is impacted without triggering deployment of the front airbag.
- The front airbag cover has cracks, scratches or other forms of damage. ◀

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Side Airbag

Side airbag provides further protection for the driver and front passenger, based on the safety protection provided by seat belts. In case of a moderate or severe side impact, the side airbag can reduce personal injury by inflating and working with the seat belts simultaneously.

Side airbags can mainly reduce chest injuries for driver or front passenger.



Side airbags are mounted in the backrests of driver seat and front passenger seat; the seat is marked with "AIRBAG".

 Due to the side airbag inflates with significant speed and force, do not place your head or hands outside the window or near the side airbag deployment area while the vehicle is in motion; otherwise, serious injury to passengers may occur. ◀

 Do not install seat cover on the seat equipped with side airbag. Otherwise it may affect the deployment of side airbag.

◀

 When the following conditions occur, immediately contact an authorised PROTON e.MAS service outlet:

- Side airbags have been deployed.
- The door is impacted without triggering deployment of the side airbag.
- The cover of seats at the side airbag assembly has cracks, scratches or other forms of damage. ◀

 Before consulting the personnel of an authorised PROTON e. MAS service outlet, do not make any of the following operations that may affect the normal operation of side airbags:

- Install electronic devices such as mobile two-way radio communication devices.
- Refit the passenger side body structure.

◀

Side Curtain Airbag*

The side curtain airbag provides further protection for the driver, front passenger and rear outboard passengers, based on the safety protection provided by seat belts.

In case of a moderate or severe side impact, the side curtain airbag can reduce personal injury by inflating and working with the seat belts simultaneously. Side curtain airbags can mainly reduce head injuries for the driver, front passenger and rear outboard passenger.



The side curtain airbags are installed above the doors on left and right sides of the vehicle and are labeled with a marking “AIRBAG”.



As the side curtain airbag has considerable speed and force when it is deployed, do not put your head and hands outside the window or close to the area where the side curtain airbag is deployed when the vehicle is in motion; otherwise serious injury may occur. ◀



Do not install any decorative parts around the side curtain airbag, such as windshield, door glass, side pillar, roof side, or stick microphone or any other equipment inside the roof and on auxiliary handles. When the side curtain airbag is deployed, these items will be thrown out under the strong deployment force of side curtain airbag, resulting in personal injuries or malfunction of side curtain airbag. ◀



When the following conditions occur, immediately contact an authorised PROTON e.MAS service outlet:

- Side curtain airbags have been deployed.

- The door is impacted without triggering deployment of the side curtain airbag.
- When the front pillar, rear pillar and roof side member decoration or ceiling fitted with side curtain airbags have been scratched, cracked or damaged in other forms. ◀



Before consulting the personnel of an authorised PROTON e.MAS service outlet, do not make any of the following operations that may affect the normal operation of side curtain airbag:

- Install electronic devices such as mobile two-way radio communication devices.
- Refit suspension system.
- Repair at or near the bracket. ◀

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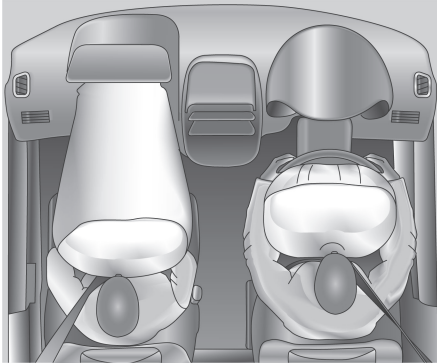
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Deployment of Airbags

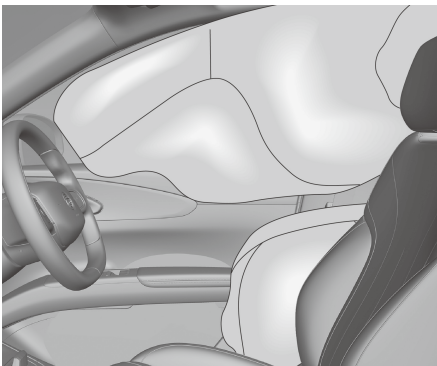
Deployment of Frontal Airbags

When the vehicle impacts with solid wall at a speed of 25 km/h or above, the frontal airbag will be deployed.



In the event of a collision, whether the airbag works depends on the collision object, the collision direction and the speed of vehicle deceleration caused by the collision. The frontal airbag will be deployed in the event of a frontal collision and when the airbag device reaches the trigger condition.

Deployment of Side Airbags and Side Curtain Airbags



When the vehicle has a moderate or severe side impact and reaches the designed action value, the front side airbag and side curtain airbag (if equipped) will deploy.

In case of side impact, the deployment of the side airbag and side curtain airbag (if equipped) can reduce the risk of upper body and pelvis injury.

Cases in which Frontal Airbags May Not Deploy

- The vehicle is not started.
- Collision with easily deformable objects such as trees.
- When the vehicle collides against low objects like steps during driving.
- When the vehicle falls down into a trench or pit suddenly.
- In case of crash (underride collisions) against the rear of truck.
- Rollover.
- Side impact, rear impact and slight frontal impact.
- Airbag system is faulty.
- Other special cases.

Cases in which Side Airbags and Side Curtain Airbags May Not Deploy

- Frontal impact or nearly frontal impact.
- Rear impact.
- Rollover.
- Minor side impact.
- Airbag system fault.
- Other special cases.

Child Restraint System (CRS)

CRS for Infants and Young Children

Both seat belt and airbag systems on the vehicle are not designed for protecting infants and young children. Corresponding child restraint systems should be used for infants and young children.



- If the shoulder belt twines around the neck of a child, the child may be severely injured and even die when the seat belt is retracted. Do not let children stay alone in the vehicle or play with the seat belts.
- Do not carry an infant or young children in your lap while riding. In the event of a crash, infants and young children cannot be held due to the impact of the crash, and they should be fixed in appropriate child restraint system.
- The neck of an infant or young child is not fully developed, and his/her head is heavier than other parts of the body. In order to reduce the risk of neck and head injuries in a crash, infants and young children need comprehensive support. ◀

CRS for Older Children

Older children who are beyond the range of child restraint systems must wear seat belts. The instructions attached to child restraint system states the weight and height limits for the children sitting in it. Children who meet the following applicable conditions must use the child restraint system together with the seat belt:

- The children's knees cannot bend on the edge of seat when they try to sit on the seat as backward as possible. Children's knees cannot bend on the edge of seat.
- The shoulder belt cannot put on the children's shoulder when the seat belt is fastened well.
- It is impossible to wear the seat belt at a lower position and be close to the hips of children.
- The seat belt cannot be always fastened properly during vehicle driving.

An older child must wear the seat belt correctly, ensuring that the seat belt is not positioned across the child's face or neck and fits snugly against the hips. This allows the seat belt to provide optimal restraint force during a collision.

Make sure not to fasten the seat belt on abdomen. Otherwise, serious injury may occur in the event of a collision.

Children who do not have their seat belt fastened may run into others who have fastened their seat belts or be thrown out of the vehicle in case of collision, resulting in serious injury or death.



Do not let two children sharing with one seat belt, otherwise the seat belt cannot properly disperse the impact force, which may lead to serious injury or even death in the event of a collision. ◀



Do not let the seat belt be pressed on the back of a child when the child wears a seat belt. Otherwise, serious injury or even death may be caused in case of a collision. The seat belt should be fastened across the shoulder and chest. ◀

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Description of Child Restraint System (CRS)

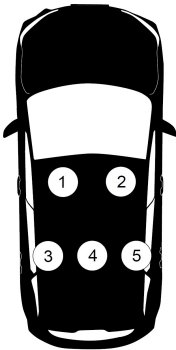
It is generally recommended to use the rearward-facing child restraint system for infants and young children aged under 3~4 years.

For children who are not suitable for rearward-facing child restraint systems due to their large size, the forward child restraint systems can be used.

For children whose body size is too large to fit in the forward child restraint system, use an auxiliary soft seat cushion (such as booster) to fasten the seat belt.

Selection of Child Restraint System (CRS)

This 5-seater vehicle is capable of supporting the following child restraint system (CRS):

Seat position number		1	2	3	4	5
	Seating position suitable for universal belted (Yes/No)	No	No	Yes	No	Yes
	i-Size seating position (Yes/No)	No	No	Yes	No	Yes
	Seating position suitable for ISOFIX lateral fixture (L1/L2)	No	No	No	No	No
	Seating position suitable for ISOFIX rearward facing fixture (R1/R2/R3)	No	No	R1/ R2/ R3	No	R1/ R2/ R3
	Seating position suitable for ISOFIX forward facing fixture (F2/F2X/F3)	No	No	F2/ F2X/ F3	No	F2/ F2X/ F3

ISOFIX size classification and anchorage points on the CRS

- A – ISO/F3: Full height forward toddler CRS;
- B – ISO/F2: Reduced height forward toddler CRS;
- B1 – ISO/F2x: Reduced height forward toddler CRS;
- C – ISO/R3: Full height backward toddler CRS;
- D – ISO/R2: Reduced height backward toddler CRS;
- E – ISO/R1: Compact Rearward Facing Toddler CRS;
- F – ISO/L1: Left lateral position CRS (Folding bed type);
- G – ISO/L2: Right side position CRS (Carrycot type);



Before installing any child restraint system, make sure the headrests are removed (applicable to seatback with removable headrest). ◀

Information of the Recommended CRS

Child Weight	Recommended CRS
Group 0 : Less than 10 kg	Joie i-Spin 360
Group 0 + : Less than 13 kg	Joie i-Spin 360
Group I : 9 ~ 18 kg	Joie i-Spin 360
Group II : 15 ~ 25 kg	-
Group III : 22 ~ 36 kg	-



The recommended CRS above is based on the available CRS technology and components at the time of the testing is done. ◀



When full-sized rearward facing toddler CRS is installed on a rear seat, the front seat's seatback angle should be adjusted with upright angle corresponding to a torso angle of 15 degrees, then the CRS can be installed correctly without interference with front seat. ◀



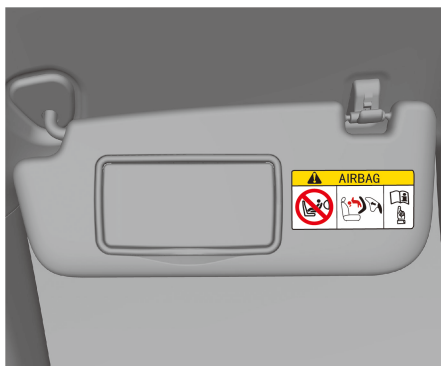
Please refer to the CRS's manual for details regarding the CRS attachment positions and the headrest on the CRS before placing and securing the child in the CRS. ◀

Installation of Child Restraint System

It will be safer if children and infants are properly fixed in a child restraint system on rear seats.

 Before fixing a CRS on the rear seat, please carefully read the instructions attached to the CRS and ensure that it is suitable to be mounted on this vehicle. ◀

Warning Label

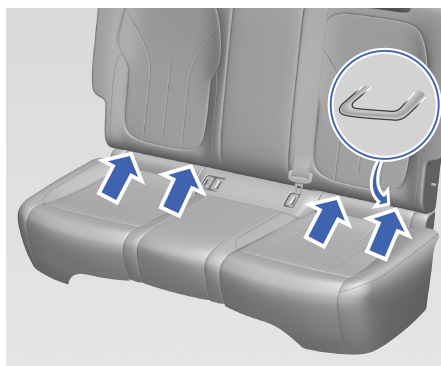


There are warning labels pasted on the front and back of the sun visor at the front passenger side, reminding that the vehicle is equipped with frontal airbags and the related precautions shall be observed.



- Do not use a rearward facing child restraint on a seat that is protected by an activated frontal airbag.
- It is prohibited to place a rearward-facing CRS on the front passenger seat. Infants and younger children will be severely injured or killed when airbag is inflated if they cling to or are too close to airbag. ◀

Installation of ISOFIX Child Restraint System



Dedicated fixing points that meets ISO specifications (ISOFIX) are mounted in the gaps on both sides of the rear end of the seat cushion. This fixing interface is used to install the CRS with standard ISO specification on the rear seat. It is not necessary to fix the CRS with a seat belt at this time. When installing and using the CRS, please follow the instructions of the manufacturer. Otherwise, the protective effect may be affected.



Confirm with the manufacturer whether the CRS can be used for this model. ◀

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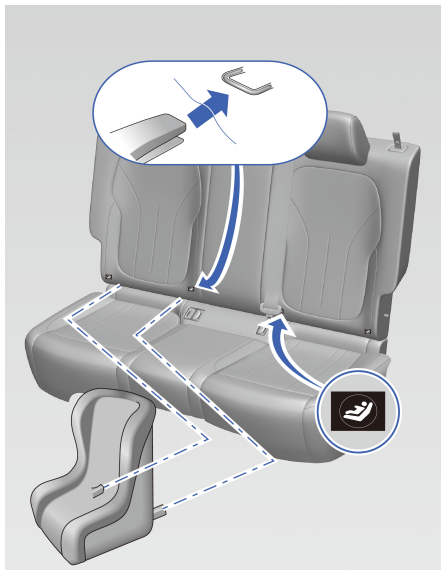
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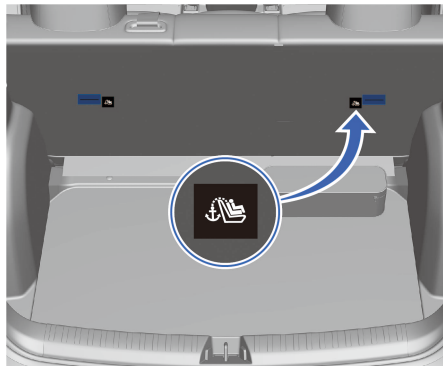
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Install the child safety seat (child restraint system) with ISOFIX and top tether according to the following procedures:



1. Locate the ISOFIX fixing interface on the vehicle seat;
2. Align the ISOFIX connectors on the CRS with the vehicle's ISOFIX anchorage points and insert them securely.
3. Check that the buckles are properly locked;
4. Hook the child safety seat strap into the seat backrest fixing interface (Top Tether).



 Ensure the top tether belt is securely fastened. Push and pull the CRS in multiple directions to verify it is firmly installed. Follow the manufacturer's instructions for proper installation. ◀

 If the CRS is not installed to the ISOFIX fixing interface correctly, it may not work properly. Severe injury or even death may occur to the child. When installing a child safety device, make sure to strictly follow the instructions of manufacturer.

The child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for seat belts, harnesses, or for attaching other items or equipment to the vehicle.

Always mount CRS when the vehicle is stationary. When the ISOFIX child restraint system is correctly fixed to the ISOFIX fixing interface, a “click” sound will be heard. ◀

Child Safety Lock



The left/right rear doors are fitted with child safety locks. Please use child safety locks

when left/right sides of rear seat are occupied by children.

The child safety lock switch is located on the outer edge of rear door; toggle the safety lock switch in the arrow direction as shown in the figure, then the child safety lock will be at the “locked” position at this moment; the door cannot be opened from the inside but can be opened from the outside to protect the safety of children.



After setting the child safety lock, be sure to check whether the door can be opened from inside to ensure child safety lock functions normally. ◀

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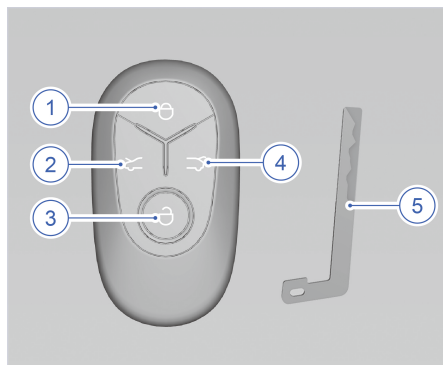
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Intelligent Key

Intelligent Key Buttons

The intelligent key is already paired with the vehicle system. If it is lost, damaged, or stolen, please contact an authorised PROTON e.MAS service outlet immediately to disable its vehicle control functions, including unlocking and locking. If the key is later recovered, these functions can be reactivated by the authorised PROTON e.MAS service outlet.

 When replacing an intelligent key, it must first be paired with the vehicle by an authorised PROTON e.MAS service outlet. ◀



1. Locking/vehicle search button
2. Front hood unlock button
3. Unlocking button
4. Tailgate unlock button
5. Mechanical key (for emergency use)

Vehicle Search

If you forget the vehicle's parking position, press the locking/vehicle search button on the intelligent key twice consecutively to locate the vehicle. The turn signals flash and the horn sounds.

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Locking and Unlocking via Key

Remote Locking

When the locking/vehicle search button on the intelligent key is briefly pressed, all doors will lock. A locking confirmation (prompt) sound will be emitted, the turn signal lamp will flash, the interior lights will turn off, and the audio entertainment system will shut down. If any door (including front hood or tailgate) is not fully closed, the vehicle will not lock when the locking/vehicle search button on the intelligent key is pressed.

Click the following on the multimedia display in sequence:

Vehicle Settings → **Sound** → **Prompt Sound**, and then enable or disable the locking prompt sound in the interface.

When the locking prompt sound function is enabled, a confirmation sound will be heard and the turn signal lamp will flash when the vehicle is successfully locked.

If the locking prompt sound is disabled, only the turn signals will flash as a reminder upon successful locking.

Remote Unlocking

After a short press on the unlocking button of the intelligent key, the vehicle is unlocked and the turn signals flash several times.

Long press the front hood unlock button or tailgate unlock button to unlock the front hood or tailgate respectively.

If equipped with and electric tailgate (power tailgate), long press the tailgate unlock

button on the intelligent key, and the tailgate will automatically open.



Never allow children to enter the rear storage compartment (or luggage compartment). Always ensure the tailgate is securely closed when the vehicle is unattended. If a child becomes trapped inside the luggage compartment, they may be unable to escape, which could lead to heatstroke or other serious injuries. ◀



- Keep the spare intelligent key in a secure location and do not store it inside the vehicle.
- Electronic interference from items containing built-in anti-theft chips may cause the intelligent key system and anti-theft system to malfunction, potentially preventing the vehicle from starting.
- When locking the vehicle with the intelligent key, ensure all four doors, the front compartment lid, the tailgate and the charging port lid are properly closed. If any door, the hood or the tailgate is left open during locking, the horn will sound and the turn signals will flash as a warning. ◀



If the intelligent key is affected by signal interference, the vehicle may not be able to detect the key, which could prevent functions such as starting, unlocking, and locking from operating properly.

- The intelligent key may not function properly if it is covered by metal objects, such as when it is placed together with

other intelligent keys or mobile phones with metal casings.

- Placing the intelligent key near the 12V power socket, or within the interference range of external devices powered through the 12V socket, may affect its proper operation.
- Placing the intelligent key next to or together with electronic devices with strong interference such as laptop, Bluetooth headset, active power converter, phone charger, Bluetooth access card, intercom and other similar devices, may affect its performance. ◀

 Do not modify the signal frequency or increase the transmission power of intelligent key without authorisation, including the installation of frequency amplifiers part. Additionally, do not connect external detection antennas or use other signal transmission or detection antennas without prior approval.

If the anti-theft alarm is triggered by unlocking the door with the mechanical key, the door must be unlocked again using the intelligent key to deactivate the alarm. ◀

Keyless Entry System

Keyless Locking and Unlocking



Locking the Vehicle via the Driver's Door Handle

After ensuring that all four doors, the front hood, and the tailgate are fully closed, press the lock/unlock button on the driver's side exterior door handle to lock the vehicle.

Upon successful locking:

- The turn signal lamp will flash.
- A locking sound will be heard (if locking prompt sound is enabled).
- The interior lights will gradually turn off.

Unlocking the Vehicle via the Driver's Door Handle

While carrying a valid intelligent key and standing within range of the driver's door, press the unlock/lock button on the driver's side exterior door handle to automatically unlock all four doors.

Then, pull the exterior door handle to open the corresponding door. Once the vehicle is successfully unlocked, the turn signal lamp will flash to confirm.

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Keyless locking will fail under the following conditions:

- Any door is not fully closed.
- The front hood or tailgate is not properly closed. ◀

When performing a keyless locking operation, if the turn signal indicator and lamp does not flash or the locking confirmation sound is not heard (when locking prompt sound is enabled), it indicates that the locking has failed.

Possible causes include:

- **Prevention of Key Lock-In:** If the vehicle is locked and the tailgate is subsequently opened and closed, the vehicle will not re-lock if the intelligent key used for locking was left inside the luggage compartment. This prevents the key from being locked inside the vehicle.
- **Keyless Locking Delay:** To prevent accidental operation, there is a 1 second delay after unlocking the vehicle using the front door handle before the keyless locking function can be activated. Similarly, keyless unlocking cannot be performed within 1 second after locking.
- **Detection Range Blind Spots:** The intelligent key has detection blind spots. Do not place the key in remote or enclosed areas such as storage shelves, as it may not be detected properly.

Intelligent Key Operating Range: The intelligent key operates only within a specific range, which may be affected by physical obstacles or environmental conditions. For safety, always confirm whether the vehicle

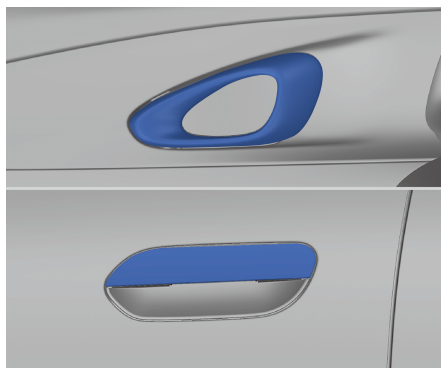
has successfully locked after performing a locking operation.

Signal Interference and Intelligent Key

Function: When the vehicle is near to the source of strong signal interference (such as charging stations, large parking lots, substations), or when the intelligent key is stored together with electronic devices (e.g. mobile phones, Bluetooth headsets, laptops, or inverters), the intelligent key's signal may be disrupted. This can occasionally cause abnormal behavior, such as failure to lock or unlock the vehicle.

If this occurs, wait for approximately 3 seconds before attempting to unlock or lock the vehicle again by placing your hand to press the lock/unlock button on the driver's side exterior door handle.

Door Handle



1. Interior door handle
2. Exterior door handle

After unlocking, open the door by pulling the vehicle's interior or exterior door handle.

Central Unlocking

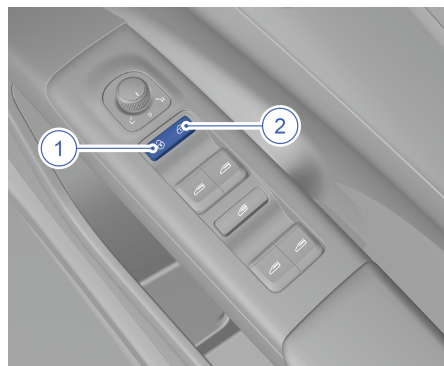
Locking

and

Automatic Unlocking

Locking

and



1. Central unlock button
2. Central lock button

Central Unlocking: Pressing the central control unlock button will unlock all doors when they are locked.

Central Locking: Pressing the central control lock button will lock all doors when they are closed.

i Unlocking the doors using the central unlock button inside the vehicle is only possible when the anti-theft system is disarmed. Unlocking is not available in other anti-theft states. ◀

Automatic Re-locking

If the vehicle is unlocked using the intelligent key but none of the four doors or the tailgate is opened, the system will automatically re-lock all doors after a short period. Once the interior lights turn off, the anti-theft system is re-armed.

Automatic Locking During Driving

When the vehicle speed increases from below 10 km/h to above 10 km/h, all four doors will automatically lock for safety.

Automatic Unlocking When Parking

This feature is enabled by default. After the vehicle is brought to a stop, and the driver shifts the gear into Park (P) and unfastens the seat belt, all four doors will automatically unlock.

Collision Unlocking

In the event of a severe collision, and the system detects a collision signal, all four doors will automatically unlock to allow passengers to exit quickly. Whether this function activates depends on the specific impact force and the type of accident.

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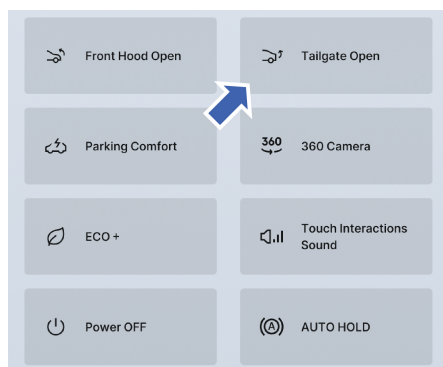
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Opening and Closing the Tailgate

Opening the Tailgate

 When opening or closing the tailgate manually, avoid using excessive force (open or close it slowly). Failure to do so may cause damage or result in malfunction of the tailgate. ◀

Opening the Tailgate from Inside the Vehicle*

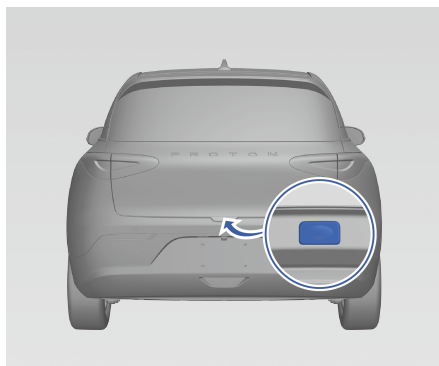


The tailgate can be opened by pulling down the HiBoard (slide down finger from top to bottom of multimedia unit display screen) and press the **Tailgate Open** button.

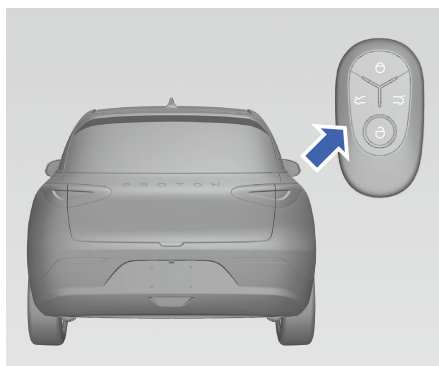
Opening the Tailgate from Outside the Vehicle

When the vehicle is parked, and the interior tailgate switch is in unlock position with the anti-theft system is in disarm mode, press the exterior tailgate switch on the tailgate door to open it.

For vehicle without power tailgate, push the tailgate door upward to open it.



Unlocking Tailgate with Intelligent Key



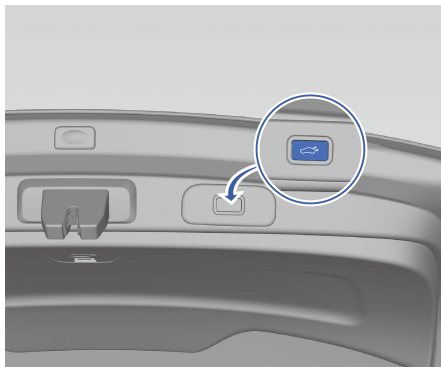
When the vehicle is stationary, briefly press the tailgate unlock button on the intelligent key to unlock it. Press the exterior tailgate switch on the tailgate door or push it upward to open the tailgate.

Adjusting the Tailgate Opening Height*

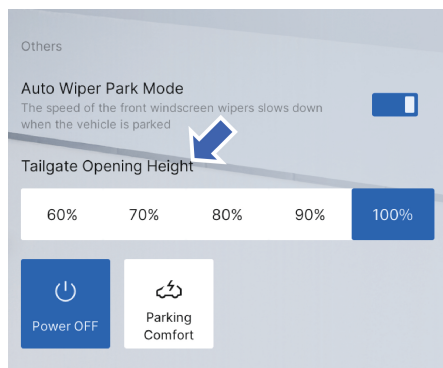
Setting Tailgate Opening Height via Tailgate Close Button*

1. Press the tailgate close button on the tailgate door from outside the vehicle to pause the tailgate while it is opening.

2. Press and hold the tailgate close button until a single beep is heard. This sets the current height, and the tailgate will open to this height automatically in future operations.
3. To change the set height, manually adjust the tailgate to the desired position, then repeat Step 2 to save the new height.



Setting Tailgate Opening Height via the Multimedia Display

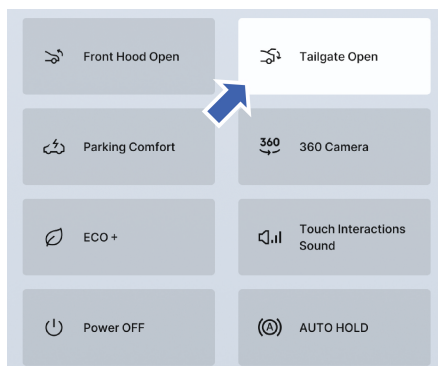


Click the following on the multimedia display in sequence:

Vehicle Settings → **Vehicle Control** → **More** → **Tailgate Opening Height** to set the tailgate opening height in the interface.

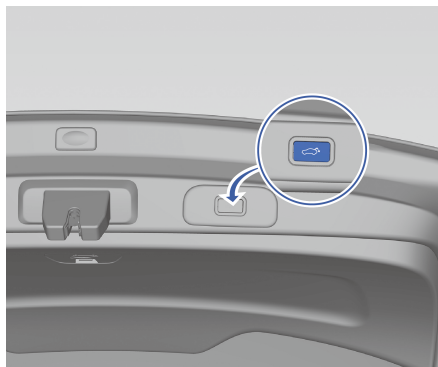
Closing the Tailgate*

Closing the Tailgate from Inside the Vehicle



Pull down the HiBoard (slide down finger from top to bottom of multimedia unit display screen) and press the **Tailgate Open** button again to close the tailgate.

Closing the Tailgate Outside the Vehicle



When the vehicle is stationary and the tailgate is open, press the tailgate close button on the tailgate door to close it.

Closing Tailgate via Intelligent Key

When the vehicle is parked and the tailgate is open, press and hold the tailgate unlock button on the intelligent key to automatically close the tailgate.

Anti-theft System

This vehicle is equipped with an anti-theft system. It will automatically disarm when the brake pedal is pressed, the gear is not in Park (P) position, and a valid intelligent key is detected inside the vehicle.

If the vehicle cannot be started, follow these steps immediately:



- Place the intelligent key in the key symbol area inside the front cup holder.

If the vehicle still cannot be started, contact an authorised PROTON e. MAS service outlet for repair and a new intelligent key.



Do not leave the intelligent key or any device that can disable the anti-theft system inside the vehicle. ◀

Anti-theft Alarm System

The anti-theft alarm system triggers audible and visual alerts when a potential theft is detected. It automatically arms 30 seconds after the vehicle is locked.

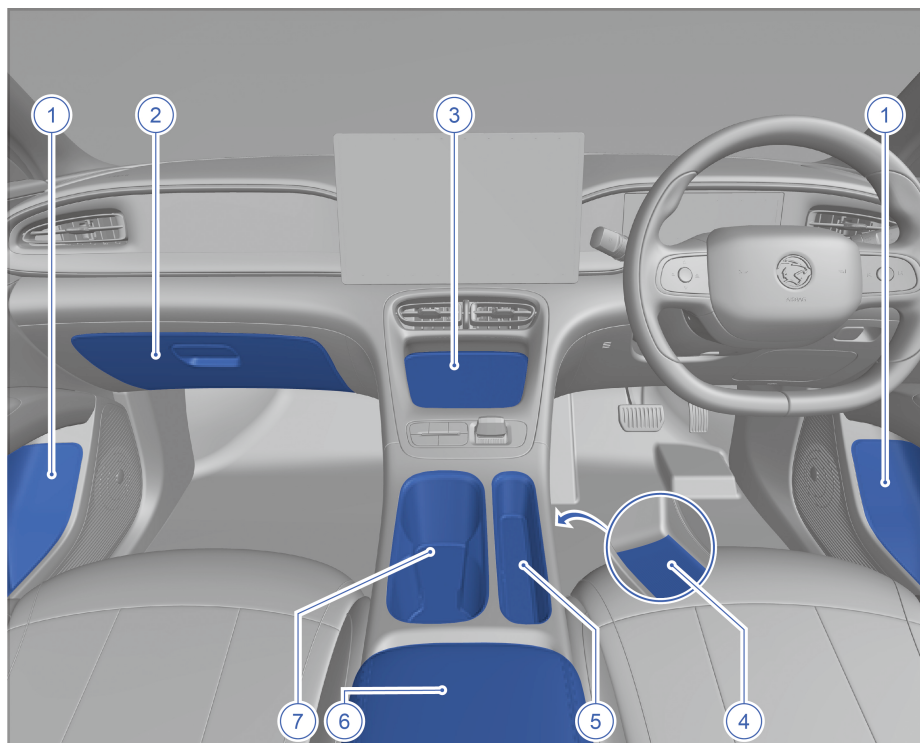


When armed, the anti-theft alarm will activate if the doors, front hood, or tailgate are opened improperly.

The alarm can be deactivated in any of the following ways:

- Starting the Vehicle (with a valid intelligent key within the vehicle's detection range)
- Unlocking the vehicle with a valid intelligent key. ◀

Front Storage Compartment



1. Door storage compartment
2. Glove box
3. Front storage compartment of centre console
4. Lower storage compartment of centre console
5. Upper storage compartment of centre console
6. Front centre armrest storage box
7. Cup holder

Opening and Closing of the Front Centre Armrest



A storage box is located beneath the front centre armrest and can be accessed by lifting the armrest.



Never open the storage box beneath the centre armrest while driving. ◀

Opening and Closing of the Glove Box



Pull the glove box handle to open it. Push the glove box cover forward to close it.

Rear Storage Compartment



1. Map pocket

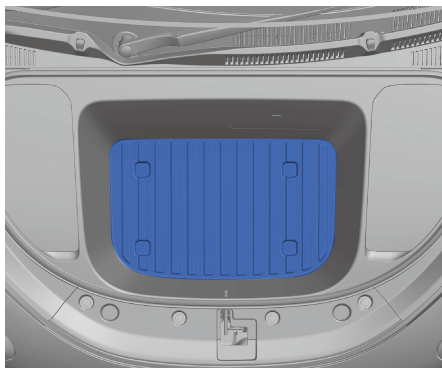
2. Rear storage box of centre console

The map pocket is located on the back of the front seat and is designed to hold small items such as newspapers, maps, and similar objects.



Do not place heavy or sharp objects in the map pocket to prevent damage. ◀

Front Luggage Compartment



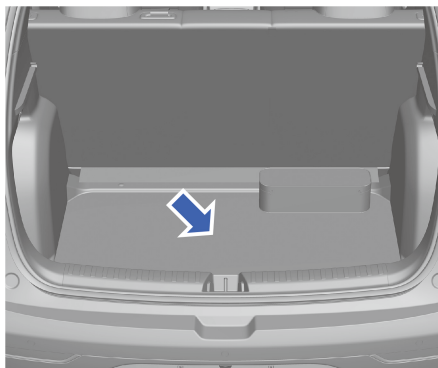
Open the front hood to access the front luggage compartment.

 Do not place pets in the front luggage compartment, as it may cause accidental injury. ◀



- When storing liquids, ensure containers are tightly sealed to prevent leaks and possible vehicle damage. Clean up any spills immediately.
- The height of stored items must not exceed the front hood's upper edge to prevent potential damage to the front hood.
- Do not place items weighing more than 25 kg in the front luggage compartment, as this may cause damage.
- Items may shift during sudden braking or a collision. Secure all objects properly to maintain driving safety. ◀

Rear Luggage Compartment



When the rear luggage compartment is open, objects can be loaded into it.

 Do not leave pets in the rear luggage compartment, as it may cause accidental injury. ◀



- If the weight of the loaded goods exceeds the vehicle's capacity, or if the load is unevenly distributed, the vehicle's handling will be seriously affected, reducing driving safety. In the event of a traffic accident or emergency braking, luggage in the loading area may shift. To minimize risk, place objects as low and as far forward as possible, ideally close to the rear seat's seatback.
- When loading tall or large objects, ensure they do not exceed the height of the seatback or the compartment, and secure them firmly in the vehicle to maintain driving safety. ◀

Adjustment of Seat

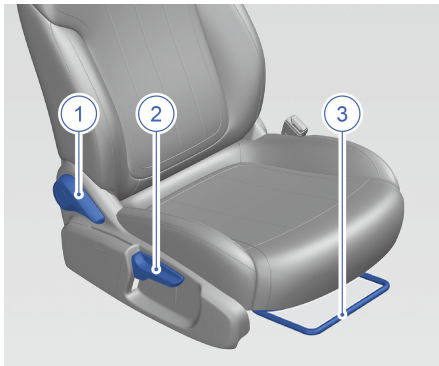


Do not adjust the seat while driving, as it may cause loss of control and lead to serious injury or death. ◀



- Do not recline the seatback excessively while driving, as this may cause serious injury or death in a collision.
- In an accident, the seat belt provides maximum protection only when you maintain the correct sitting posture. ◀

Manual Adjustment of the Driver Seat



1. **Seatback angle adjustment lever**
Lift the seatback angle adjustment lever to unlock the seatback. Gently lean back or move away to rotate the seatback to the desired position. Release the lever to lock the seatback in place.
2. **Seat height adjustment lever**
Lift the seat height adjustment handle to raise the seat or press it downward to lower it. Release the handle once the desired height is set.

3. **Seat forward/backward adjustment lever**
Hold the center of the forward/backward adjustment lever and pull it up. Lean slightly against the seat and slide it to the desired position. Release the lever and ensure the seat rail clicks, confirming it is locked in place.

Manual Adjustment of the Front Passenger Seat



1. **Seat forward/backward adjustment lever**
Hold the center of the forward/backward adjustment lever and pull it up. Lean slightly against the seat and slide it to the desired position. Release the lever and ensure the seat rail clicks, confirming it is locked in place.
2. **Seatback angle adjustment lever**
Lift the seatback angle adjustment lever to unlock the seatback. Gently lean back or move away to rotate the seatback to the desired position. Release the lever to lock the seatback in place.

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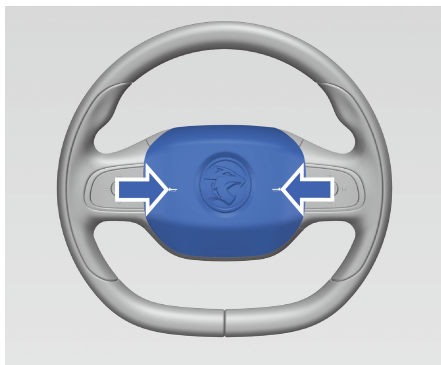
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Horn



Press the horn icon on the steering wheel to sound the horn.

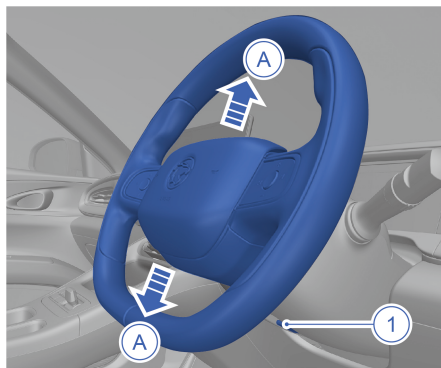
Adjustment of Steering Wheel



Do not adjust the steering wheel while the vehicle is moving, as this may cause injury, death, or property damage. ◀



After adjusting the steering wheel, ensure it is securely locked to prevent injury or property damage. ◀



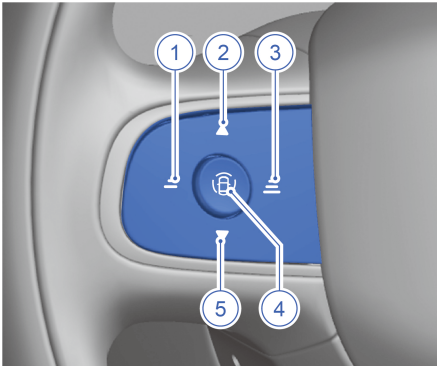
1. Steering wheel locking lever

Adjust the steering wheel to the proper position by following these steps:

- Adjust the seat to the correct driving position;
- Turn the steering wheel to the straight-ahead position;
- Fully release the steering wheel locking lever;
- Hold the steering wheel firmly with both hands and adjust it up or down (direction A) to the optimal position;
- Fold the steering wheel locking lever completely in position to lock the steering wheel.

Buttons on Steering Wheel

Left Steering Wheel Control Buttons



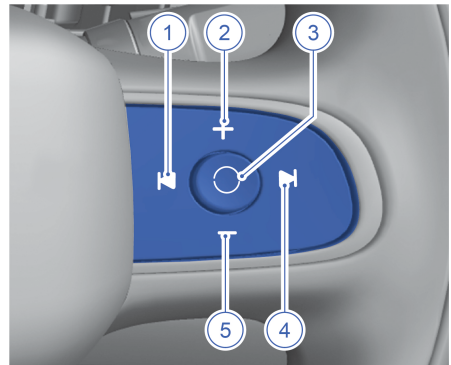
1. **Headway Decrease Button:**
Short press to decrease the headway distance.
2. **Speed Increase and Cruise Resume Button:**
 - Short press: increase the cruise speed by 5 km/h.
 - Long press: continuously increase the cruise speed in 1 km/h increments.
 - After deactivating the function: press this button to resume Adaptive Cruise Control (ACC).
3. **Headway Increase Button:**
Short press to increase the headway distance.
4. **OK Button:**
Press this button to enable, disable or exit the Adaptive Cruise Control (ACC) system:
 - Short press when ACC is off : enable or turn on ACC (ACC in standby mode).

- Short press after activation: deactivate ACC (ACC return to standby mode).
- Press and hold: exit and turn off (disable) the ACC system.

5. Speed Decrease and Cruise Set Button:

- Short press: decrease the cruise speed by 5 km/h.
- Long press: continuously decrease the cruise speed by 1 km/h.
- Press to activate the Adaptive Cruise Control (ACC) system and sets the current speed as the Set Cruise Speed.

Right Steering Wheel Control Buttons



1. Left Button:

When the meter instrument menu is closed:

- Short press to switch to the previous song or channel.
- Short press to hang up a Bluetooth call.

Press and hold to access the meter instrument menu.

When the meter instrument menu is open:

- Short press to cycle through menu options.

2. Up Button:

- Short press to increase the volume of multimedia or Bluetooth phone audio.
- Short press to unmute when the audio is muted.

3. Multi-control Function Button:

- Press to hide ordinary pop-up warning messages or pause multimedia audio playback.
- Press and hold to activate the voice function; press and hold again to deactivate it.
- When the meter instrument menu is open, short press to turn off the menu.

4. Right Button:

When the meter instrument menu is closed:

- Short press to switch to the next song or channel.
- Short press to answer Bluetooth phone calls.
- Short press during a call to mute the microphone.

Press and hold to access the meter instrument menu.

When the meter instrument menu is open:

- Short press to cycle through menu options.

5. Down Button:

- Short press to decrease the volume of multimedia or Bluetooth phone audio.
- Press and hold to mute the audio.



Press and hold the multi-control function button for more than 10 seconds to restart the meter instrument and multimedia system.

For driving safety, this operation is only permitted when the vehicle is in Park (P) position and not in READY mode. ◀

Exterior Rearview Mirrors (Side Mirrors)

 Adjusting the exterior rearview mirrors (side mirrors) while the vehicle is running is strictly prohibited, as it may cause personal injury or property damage.

- Make sure to unfold the exterior rearview mirrors (side mirrors) and adjust them properly before driving.
- Do not touch the exterior rearview mirrors (side mirrors) while adjusting them to avoid personal injury. ◀

 When the exterior rearview mirror (side mirror) is frozen, do not operate the side mirror adjustment switch or scrape the ice on the mirror with a sharp tool. Instead, use the heating function of the exterior rearview mirror (side mirror) to remove the ice on its surface. After that, adjust the exterior rearview mirror (side mirror).

Do not touch the exterior rearview mirror (side mirror) when adjusting it to avoid personal injury. ◀

Adjustment of Exterior Rearview Mirrors (Side Mirrors)

The side mirror adjustment switch is located on the interior trim panel of the driver door.

1. When the vehicle power mode is not in OFF state, rotate the mark on the side mirror adjustment switch knob to L (left) or R (right) to select the corresponding left or right exterior rearview mirror (side mirror).
2. Toggle the side mirror adjustment switch knob left/right, up/down to adjust the

angle of exterior rearview mirror (side mirror) glass.

3. After that, reset the exterior mirror adjustment knob to its initial position (0).

Folding and Unfolding of Exterior Rearview Mirrors (Side Mirrors)



Manually push the exterior rearview mirror (side mirror) inward to fold it.

Manually push it outward to unfold it.

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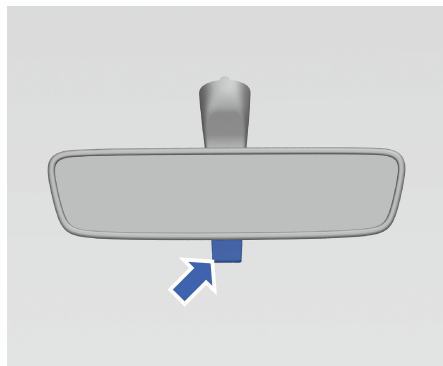
Interior Rearview Mirror

Adjustment of Interior Rearview Mirror

The interior rearview mirror can be adjusted to the desired position by turning it.

 Do not adjust the interior rearview mirror while driving. Doing so may cause severe personal injury, death, or property damage. ◀

Mechanical Dimming Interior Rearview Mirror

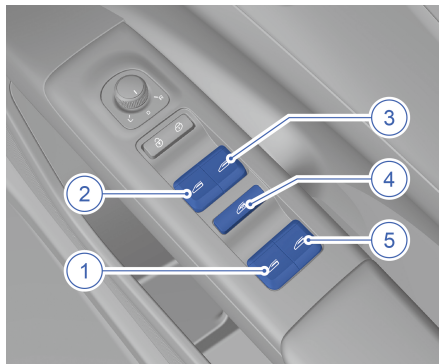


Pull the bottom lever of the interior rearview mirror to activate the dimming function by changing the angle of view; push the lever back to return the mirror to the normal position and disable the dimming function.

 Do not paste stickers or install a dashboard camera in front of the interior rearview mirror, as this may affect its function. ◀

Opening and Closing of Windows

 It is strictly prohibited to leave children, incapacitated adults, or pets in a locked vehicle with the windows closed. High temperatures may trap them inside, leading to injury or death from heat exposure. ◀



1. Left rear window switch
2. Left front window switch
3. Right front window switch
4. Window lock switch
5. Right rear window switch

Manual Operation

Open: Press down the window switch to the manual (middle) position and hold to open the window.

Close: Pull up the window switch to the manual (middle) position and hold to close the window.

Automatic Operation

Press down or pull up the window switch to the auto position, then release it. The window will open or close automatically. To

stop the window during automatic operation, press or pull the switch again.

Remote Opening and Closing of Windows

When the vehicle power is switched to OFF or ACC position, press and hold the unlocking button on the intelligent key to open all four windows simultaneously.

Press and hold the locking/vehicle search button on the intelligent key to close all four windows at the same time (if equipped with this function).

Window Lock Switch

Press the window lock switch to enable the window locking function and the window lock switch indicator will illuminate. The window switches at the front passenger's door and the rear doors will be disabled.

At this time, the front passenger's window and the rear windows can still be opened or closed only by using the driver's side window switches.

Press the window lock switch again. The window lock switch indicator will turn off indicating that the window lock function has been turned off.

Auto Close Windows after Locking

Select on the multimedia display as following:

Vehicle Settings → **Vehicle Control** → **Doors and Windows**, and then enable or disable the automatic window closing feature when locking the vehicle.

Overheat Protection for Power Windows

Repeated operation of the window within a short time may cause the power window control switch to temporarily stop functioning to protect the motor's lifespan. Please wait before resuming window operation.



If the automatic recovery time is long and you need to operate the window immediately, go to **Vehicle Settings** → **Vehicle Control** → **More** on the multimedia display, tap the **Power Off** button, then power the vehicle off and on again to resume power window operation. ◀

Anti-pinch Function

During automatic closing, if an object is caught between the glass and the window frame, the window will stop closing and return to its initial position. A hard impact on the window may also trigger the anti-pinch function even without an object being caught. If the anti-pinch function does not operate properly, the power window system needs to be re-calibrated through a self-learning process.

Anti-pinch Power Window Self-learning

If the vehicle's low-voltage battery is reconnected after a power failure or is not functioning normally, the power windows with anti-pinch function must undergo self-learning again.



Ensure the low-voltage battery has sufficient power before performing self-learning. ◀

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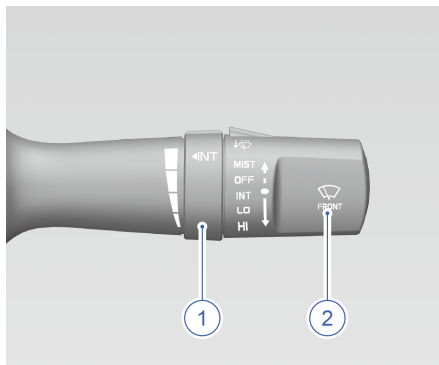
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The self-learning steps are as follows:

1. Pull up the window switch to the manual up position until the window glass is fully raised to the top position, then pull up and hold the switch for more than 3 seconds before releasing it.
2. Press down the window switch to the manual down position until the window glass is fully lowered to the bottom position, then press down and hold the switch for more than 3 seconds before releasing it.
3. Pull up the window switch until the glass is fully raised to the top position again.
4. Repeat the full up and down movement for the other windows to complete self-learning.
5. If the power windows still do not work properly after these steps, contact an authorised PROTON e. MAS service outlet for maintenance.

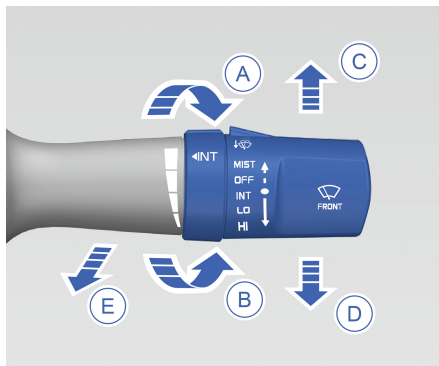
Wiper Combination Switch

Wiper Control Combination Switch Lever



1. Intermittent wiper speed adjuster
2. Wiper control lever

Operations of Wiper Combination Switch



- Do not use the wipers on a dry front windshield, as this may scratch the glass and reduce the service life of the wiper blades.

- If dust or sand is on the front windshield, clean it off before using the wipers; otherwise, the wipers may scratch the glass and reduce the front windshield service life. ◀

Mist Wiping of Wipers

Move the wiper control lever toward **C** to the **MIST** position and release it.

The lever will automatically return to OFF, and the front wiper will perform a single wipe.

Wipers Off

When the wiper control lever is in the **OFF** position, the wipers are turned off.

Intermittent Wiping of Front Wipers

Move the wiper control lever toward **D** to the **INT** position to activate intermittent wiping.

Adjust the wiping speed by turning the intermittent wiper speed adjuster toward A or B.

When the scale bar indicated by the mark ◀ changes from narrow to wide (direction C), the wiping speed increases from slow to fast.

Low-speed Wiping of Wipers

Move the wiper control lever toward **D** to the **LO** position to activate low-speed wiping.

High-speed Wiping of Wipers

Move the wiper control lever toward **D** to the **HI** position to activate high-speed wiping.

Front Windshield Washing

Move the wiper control lever toward **E** to spray washer fluid while the wipers wipe the

front windshield. After releasing the lever, the washer stops spraying, and the wipers continue wiping a few more times before pausing briefly and then repeating the cycle.

Front Wiper Maintenance Mode

Method 1:

Within 10 seconds after switching the vehicle power mode from ON to OFF (and ensuring the wipers are in the parked position), move the wiper control lever from **OFF** position toward **C** to the **MIST** position and hold it for 2 seconds.

The wipers will then operate and stop on the windshield to facilitate maintenance.

After switching the vehicle power mode to ON, move the wiper control lever to any operating position to resume normal wiper operation and exit service mode.

Method 2:

When the vehicle is stationary and the wiper combination switch is in OFF position, click the followings on the multimedia display in sequence :

Vehicle Settings → **My Car** → **Service and Maintenance**, to enable the **Wipers in Maintenance Position** function in this interface. The wipers will automatically move to the replacement position; To exit wiper service mode, disable the **Wipers in Maintenance Position** function.

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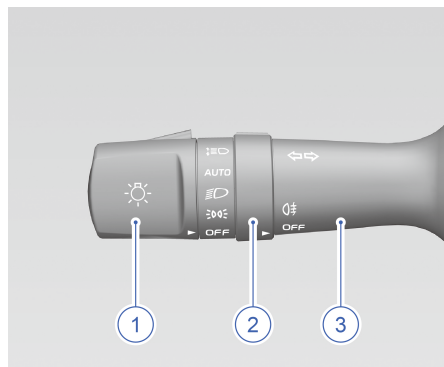
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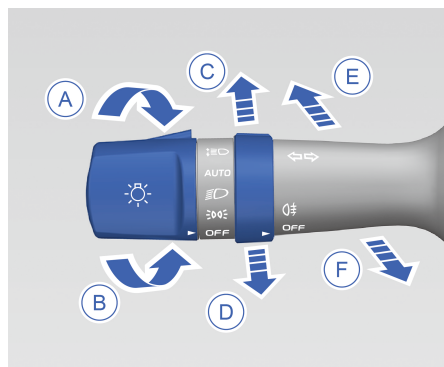
Light Combination Switch

Light Combination Switch



1. Light control switch
2. Fog light control switch
3. Light control switch lever

Operations of Light Combination Switch



Position Light

When the vehicle is started, turn the light control switch toward position B until the mark ► points to the 3000 position, and the rear position light and front position light are on. Turn the light control switch in the

direction of A until the mark ► points to the OFF position, and the rear position light and front position are off.

Automatic Light*

When the vehicle is started, turn the light control switch toward position B until the mark ► points to the AUTO position to turn on the automatic lighting function of the headlights. The automatic light system will automatically control the lighting and turning off of the headlights according to the external light intensity.

The automatic light system detects dark road conditions and tunnels, automatically turning on the position lights and low beams. When ambient light is sufficient, the lights will automatically turn off after a brief delay.

 The system includes a manual priority function within automatic mode. When a light signal input is detected, the system will exit automatic light mode. ◀

Low Beam

Turn the light control switch toward position B until the mark ► points to the 3000 position, and the low beams are on. Turn the light control switch toward position A until the mark ► points to the OFF position or 3000 position, and the low beams are off.

High and Low Beam Switching

With the low beam on, push the light switch lever forward to the limit position (direction E) to turn on the high beam. Push the lever backward (direction F) to turn off the high beam.

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High Beam Flashing

Push the light switch lever to the limit position in the F direction to flash the high beam. After releasing the lever, the high beam will turn off automatically. Repeat the action to flash the high beam again.

Turn Signal

Move the light switch lever to the limit position in the C (right) or D (left) direction to activate the turn signal. After completing the turn, the lever will automatically return to the neutral position, and the turn signal will turn off.

Lane Changing Light Function

Move the light switch lever briefly to the middle position in the C (right) or D (left) direction to flash the turn signal.

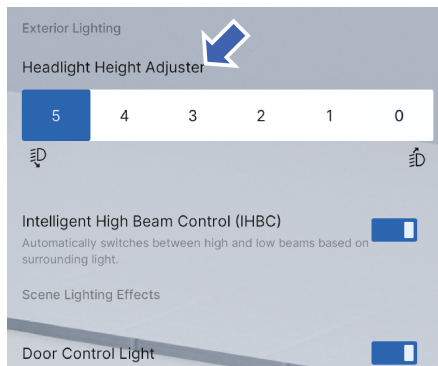
Rear Fog Lights

With the low beam turned on, turn the fog light control switch toward position B until the mark ► points to ④ to turn on the rear fog lights. Turn the fog light control switch toward position B until the mark ► points to the ④ position, and the rear fog lights turns off.

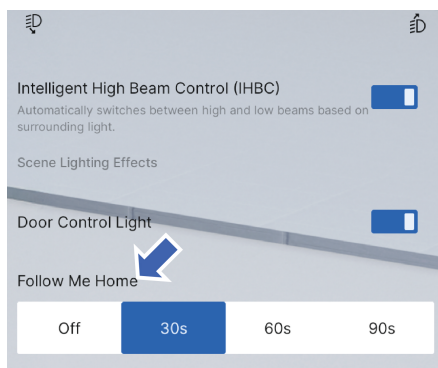
Headlight Levelling

Adjust the headlight beam level based on the number of passengers and vehicle load. Click the following on the multimedia display in sequence:

Vehicle Settings → **Lights** → **Exterior Lights** → **Low Beam Levelling**, and then select the desired low beam level in this interface.



Follow Me Home



Follow Me Home On

Click the following on the multimedia display in sequence:

Vehicle Settings → **Lights** → **Follow Me Home**, and then select a desired duration in the Follow Me Home setting interface to activate the function.

At night, when the vehicle's anti-theft system is disarmed and the "Follow Me Home" feature remains enabled on the multimedia display, the low-beam headlights will stay on. After the vehicle is locked and powered off, or shut down via the power

switch on the multimedia display, the "Follow Me Home" function will activate automatically.

Follow Me Home Off

Click the following on the multimedia display in sequence:

Vehicle Settings → **Lights** → **Follow Me Home**, then select Off in the Follow Me Home settings interface to disable the function.

Follow Me Home will be temporarily disabled if any of the following conditions are met:

- The vehicle power supply is not turned off.
- The set time expires.
- The high beam is turned on.

Timing of Follow Me Home

Click the following on the multimedia display in sequence:

Vehicle Settings → **Lights** → **Follow Me Home**, and then select a desired timing duration under the Follow Me Home settings interface.

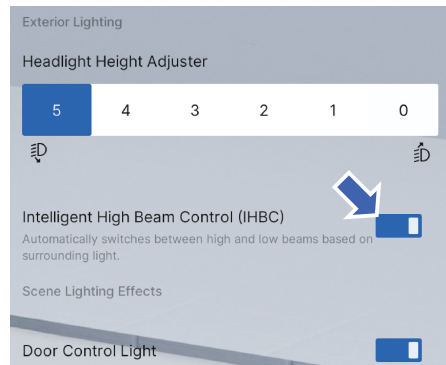
When Follow Me Home is activated, the headlights remain on for the pre-selected duration. Before the timer expires, if any door (including front hood and tailgate) is opened and then all doors are closed, the timer will reset to the pre-selected duration.

Intelligent High Beam Control (IHBC)*

The intelligent high beam control automatically switches between high and low beams at night. Using the front camera, the system detects light sources and adjusts the beams based on oncoming traffic, vehicles ahead, and ambient lighting.

When headlights of oncoming vehicles, taillights of vehicles ahead, or other light sources are detected, the system switches from high beam to low beam to prevent glare. Once the vehicle has passed the oncoming vehicle, completed overtaking, or when no ambient light is present, it automatically switches back to high beam.

Function Enabling and Activation



Click the following on the multimedia display in sequence:

Vehicle Settings → **Lights** → **Exterior Lighting** to enable or disable the Intelligent High Beam in this interface.



Adjust the lighting control combination switch to AUTO level.

At night, after the front combination lights automatically turn on, the Intelligent High Beam Control (IHBC) is activated automatically.

After the Intelligent High Beam Control (IHBC) system is activated, if all of the following conditions are met, the Intelligent High Beam Control (IHBC) system will turn on the high beam automatically:

1. Vehicle speed is 40 km/h or higher;
2. No relevant traffic participants or other light sources are detected.

If any of the following conditions is met, the Intelligent High Beam Control (IHBC) system will turn on the low beam automatically:

1. Vehicle speed is less than or equal to 25 km/h;
2. Relevant traffic participants or other light sources are detected.

 When Intelligent High Beam Control (IHBC) system has turned on the high beam, and the vehicle speed maintains in

25~40 km/h, the Intelligent High Beam Control (IHBC) system can still remain the high beam until the light source information is detected and Intelligent High Beam Control (IHBC) will turn on the low beam automatically. ◀

Function Display

When the Intelligent High Beam Control (IHBC) system controls the high and low beams of the vehicle headlight, the Intelligent High Beam Control (IHBC) indicator lights up in black, and when the Intelligent High Beam Control (IHBC) system fails, the Intelligent High Beam Control (IHBC) indicator lights up in yellow.



When the driver operates the lighting combination switch to select the high beam, the driver's selection prevails. ◀



Intelligent High Beam Control (IHBC) system is an auxiliary function of light control. It is recommended to use this function when driving on highway. But the system cannot completely substitute the driver instead. The driver should always switch the high/low beam according to the requirements of road laws and regulations as well as road changes. ◀



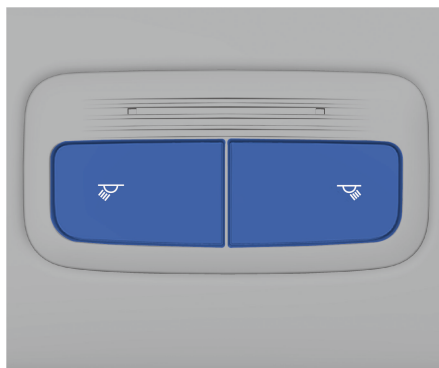
In the following examples, the system does not work or only works to a limited extent, which may require the driver's response:

- Under climatic conditions such as rainstorm, heavy snow or heavy fog, which are extremely unfavorable for driving.

- Traffic participants (such as pedestrians, cyclists) with poor illumination, railway or waterway traffic near the road, or the road with animals present.
- In the environment with strong reflective views (such as traffic signs on highways).
- When the front windshield is covered with fog, dirt or covered by labels or ornaments. ◀

Interior Light

Front Interior Lights



Press the front interior light to switch it on or off.

When the interior light door-control function is enabled (if equipped with automatic lighting), the front interior light turns on automatically when any door or the tailgate is opened, and turns off automatically when all doors are closed.



The interior light door-control function can be turned off through the multimedia display. ◀



Avoid using the front interior lights while driving at night. Bright light may reduce the driver's visibility and increase the risk of an accident. ◀

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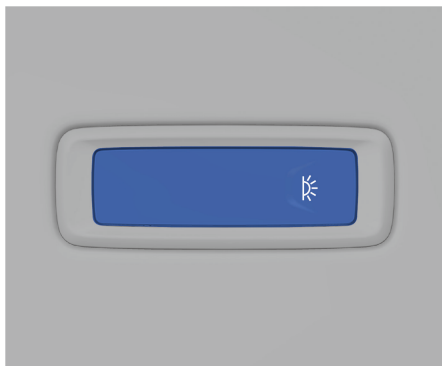
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Rear Interior Lights



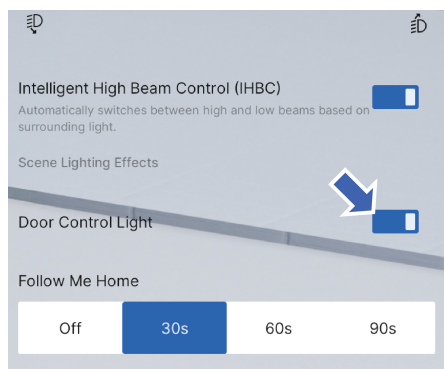
Press the rear interior light switch to switch the rear lights on or off.

 Make sure to turn off the rear interior light when leaving the vehicle to avoid draining the battery. ◀

When the door control function is enabled, the interior light automatically turns on when a door is opened and turns off when it is closed.

 The interior light door-control function can be turned off through the multimedia display. ◀

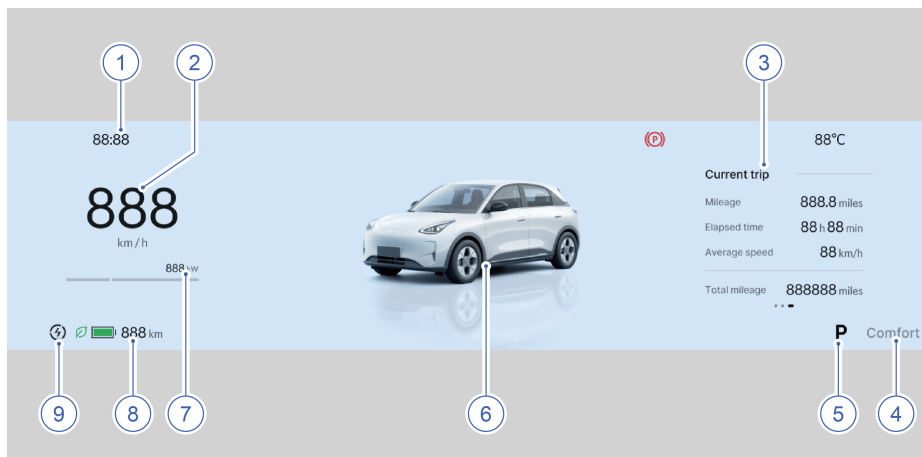
Interior Light Door-control Function



On the multimedia display, select the following in sequence:

Vehicle Settings → **Lights** → **Door Control Light** to enable or disable the interior light door-control function.

Overview of Meter Instrument



1. Clock

The time format, calendar, and clock settings can be adjusted in the multimedia display.

2. Speedometer

The speedometer displays the current vehicle speed.

3. Information Menu

Displays multimedia, average power consumption, and current mileage.

Average power consumption shows the average power used to drive a certain distance.

On the multimedia display, select the following in sequence:

Energy Management → **Mileage Statistics** → **Energy Consumption Curve**.

Switching between Last 50 km and Last 100 km will update the average power

consumption displayed on the meter instrument.

The Power Consumption Curve is calculated from the vehicle's power usage over the last 50 km or 100 km.

4. Drive Modes

The display shows Eco, Comfort, or Sport, depending on the drive mode selected by the driver.

5. Gear Display

R, N, D, or P is displayed according to the gear selected by the driver.

6. Current Function Display Area

Displays information such as the status of intelligent driving functions.

7. Power Meter

The power meter displays the drive motor's current output and recovered power.

A positive value indicates the motor is consuming electrical power, while a negative value indicates it is recovering energy to charge the power battery.

8. Power Battery Driving Range

Shows the estimated remaining driving range.

9. Energy recovery level

Displays the energy recovery level.



The meter display mode can be set through the multimedia display. ◀



The images shown on the instrument display are for reference only. Actual display may vary depending on the vehicle.

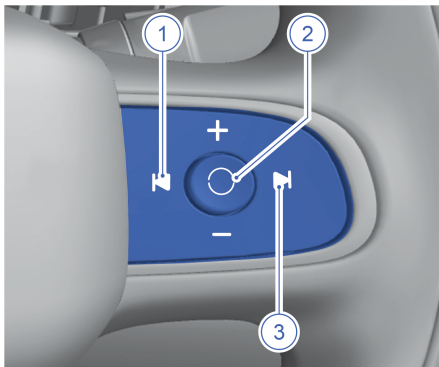


Display Settings



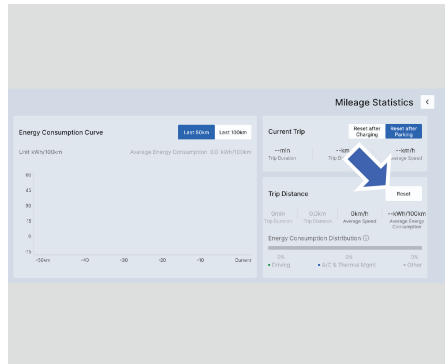
Do not adjust the meter instrument display while driving. ◀

Steering Wheel Button Adjustment Mode



1. **Left selection button:** Press and hold to access the meter instrument menu. When the menu is open, short press the same button to cycle through menu options.
2. **VR Button:** Short press to block common alarm messages (during pop-up alerts, steering wheel controls prioritize meter instrument interaction; after that, control priority is released) or to pause/play multimedia music. When the meter instrument menu is open, short press to turn off the menu.
3. **Right selection button:** Press and hold to access the meter instrument menu. When the menu is active, short press the button to cycle through menu options.

Trip computer reset



Click the following on the multimedia display in sequence:

Energy Centre → **Mileage Statistics**, and you may select Charge Reset / Park Reset or Trip Odometer Reset to clear the trip computer data.

Warnings and Indicators

Introduction to Warnings and Indicators

Image	Name	Description
	Left Turn Signal Indicator	The left turn signal lamp is on.
	Right Turn Signal Indicator	The right turn signal lamp is on.
	Low Beam Light Indicator	The low beam light is on.
	High Beam Light Indicator	The high beam light is on.
	Position Light Indicator	The position light is on.
	Intelligent High Beam Control (IHBC) Indicator*	The Intelligent High Beam Control (IHBC) is on
		The Intelligent High Beam Control (IHBC) has a failure.
	Rear Fog Light Indicator	The rear fog light is on
	Airbag Failure Warning	The airbag system has a failure
	Power Limit Indicator	The vehicle has encountered specific faults, and power output is limited.
	Powertrain Failure Warning	The powertrain system has a failure.
	Power Battery Level Indicator	The high voltage battery level is insufficient
	Power Battery Failure Warning	The power battery (high voltage battery) has a failure.
	Low Voltage Battery Charging Failure Warning	The low voltage battery (12V) charging system has a failure
	Charging Cable Connection Indicator	The vehicle is connected to charging cable
	Electric Power Steering (EPS) Status Indicator	The Electric Power Steering (EPS) system has a failure

Image	Name	Description
	Electronic Stability Control System (ESC) Status Indicator	Always on: The Electronic Stability Control System (ESC) has a failure. Flashing: The Electronic Stability Control System (ESC) is activated.
	ESC OFF Indicator	The Electronic Stability Control System (ESC) is turned off
	Tyre Pressure Monitoring System (TPMS) Status Indicator	Abnormal tyre pressure.
	Brake System Status Indicator	The brake system has a failure.
		Electronic Braking-force Distribution (EBD) function has a failure Low brake fluid level or brake fluid level sensor has a failure
	Anti-lock Braking System (ABS) Failure Warning	The Anti-lock Braking System (ABS) has a failure
	Electric Parking Brake (EPB) Status Indicator	Always on: Electric parking brake function is enabled
	Auto Hold (AVH) Status Indicator	The Auto Hold (AVH) function is activated
	Low Speed Alarm Indicator	Low speed alarm is off Vehicle will not give audible warning to alert pedestrian or nearby road user.
	READY Indicator	The vehicle is in READY status. The high-voltage system is powered on successfully, and the vehicle can be driven normally.
	Autonomous Emergency Brake (AEB) Failure Warning*	The Autonomous Emergency Brake (AEB) has a failure.
	AEB OFF Indicator*	The Autonomous Emergency Brake (AEB) is turned off.
	Lane Departure Warning (LDW) Status Indicator*	The Lane Departure Warning (LDW) function is active, and the system is operational.
		The Lane Departure Warning (LDW) function has a failure.

Image	Name	Description
	Seat Belt Unfastened Warning	The seat belt is not fastened Please fasten the seat belt
	Power Battery Low Temperature Indicator Light	The high voltage battery is in a low-temperature condition.
	Blind Spot Detection Status Indicator	The Rear Side Radar System (RSRS) system is operating normally.
		Always On: The Rear Side Radar System (RSRS) system has a failure.
	Hill Decent Control (HDC) Status Indicator	The Hill Decent Control (HDC) system has a failure.
		The Hill Decent Control (HDC) system is on.
	Drive Motor System Failure Warning	The drive motor system has a failure.
	Set Cruise Speed Indicator	The adaptive cruise control (ACC) system is in an inactive state (turn off)
		The Adaptive Cruise Control (ACC) system is enabled but not activated. This indicator shows the set cruise speed while the system is in standby mode.
		The adaptive cruise control system (ACC) is active. This indicator shows the set cruise speed that is used by vehicle when in ACC.
	Adaptive Cruise Control (ACC) Status Indicator*	The adaptive cruise control (ACC) system is enable but not activated (in standby mode).
		The Adaptive Cruise Control (ACC) system is disabled or turn off.
		The Adaptive Cruise Control (ACC) system is active.

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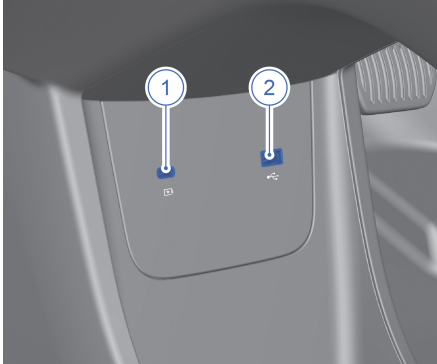
Image	Name	Description
	Intelligent Key Alarm Indicator	The intelligent key and PEPS (Passive Entry Passive Start) related alarm is triggered
	IPU Authentication Failure Indicator	The IPU authentication failure. Power electronic system has a failure

 When the power supply is turned ON or the motor is started, some warning lights will illuminate briefly as a self-check before turning off. If any warning light remains on or illuminates while driving, have the vehicle checked at an authorised PROTON e. MAS service outlet immediately. Ignoring this may result in serious injury or property damage. ◀

 Black icons in the table are displayed in white or black on the meter instrument, depending on the background. ◀

Wired Charging

Front Charging Ports

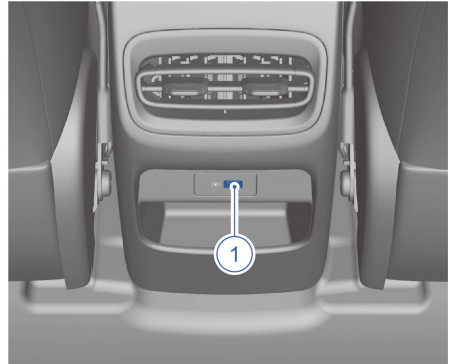


1. Type-C charging port
2. USB multimedia port

The Type-C charging port is used to charge mobile devices and supports 27 W output power: 5V/3A, 9V/2A, 9V/3A.

The USB multimedia port supports both data transmission and charging, with 10 W output power: 5V/2A.

Rear Charging Ports*



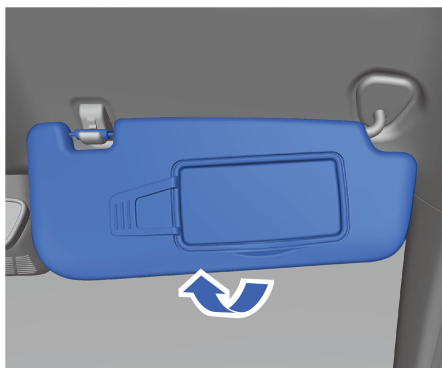
1. USB charging port

The USB charging port is used to charge mobile devices and supports an output power of 10W: 5V/2A.



- Do not connect the power port to high-power electrical appliances; this may blow the vehicle fuse.
- Do not use the power port in parallel or series with any other power supply.
- Do not modify or repair the vehicle power system without authorization. ◀

Sun Visors and Vanity Mirror



Lower the sun visor, or pull it out of the bracket and rotate it toward the door to reduce glare.

The vanity mirror is built into the sun visor. Slide the mirror cover up or down to use it.

Adjusting the Front Passenger Seat

Manual Adjustment of Front Passenger Seat



1. Seat Forward/Backward Adjustment Lever

Hold the middle of the seat forward/backward adjustment lever and lift it. Lean lightly against the seat and slide it to the desired position. Release the lever until the seat rail clicks and the seat is securely locked.

2. Seatback Angle Adjustment Lever

Lift the seatback angle adjustment lever to unlock the seatback. Gently lean backward or forward to move the seatback to the desired position. Release the lever to lock the seatback in place.

Adjusting the Rear Seats

Folding Rear Seatback

The rear seats feature a 4/6 folding function, allowing the boot space to be increased for storing larger items.



1. Pull up the rear seatback unlocking buckle, then fully fold the seatback on the corresponding side.
2. After folding, ensure there is some space between the rear seat headrest and the front seat.

Unfolding the Rear Seatback

Flip the seatback upright and push firmly to lock it. Otherwise, the seat belt may not function properly.

1. Flip the seatback upright and push firmly to lock it. Otherwise, the seat belt may not function properly.
2. Push the top of the seatback forward and backward to ensure it is securely locked.
3. Ensure the seat belt is not twisted or trapped under the seat and is properly positioned for use.



While the vehicle is moving, passengers must not sit on folded seats or in the boot; they should always sit properly in a designated seat. When the seatback is returned to its original position, follow the above precautions to prevent injuries in the event of a collision or emergency braking.



If a child safety seat is installed in the rear seat, both the child safety seat and its installation guide sheath must be removed before folding the rear seatback. ◀

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Driving Instructions

Pay attention to the lower parts of the vehicle to avoid chassis scratches in the following conditions:

- Driving on poorly maintained roads.
- Passing over road curbs.
- Driving on steep slopes.



Take extra care when the vehicle is fully loaded. ◀

Running-in Period for a New Vehicle



The purpose of running-in a new vehicle is to improve the surface finish and friction condition of moving parts, thereby extending service life and reducing power consumption. During the running-in period, observe the following requirements:

- When starting and driving, avoid fully pressing the accelerator pedal.
- During the running-in period, drive on flat roads and avoid muddy or sandy roads.
- Avoid sudden acceleration. ◀

Driving in Winter Conditions

Use of Winter Tyres

Winter tyres are recommended for vehicles that will regularly encounter snowy or icy conditions. While all-season tyres provide good overall performance on most road surfaces, they may not deliver sufficient grip or match the performance of winter tyres on snow- or ice-covered roads.

Winter tyres are designed to improve grip on roads covered with ice or snow. However,

they may reduce traction on dry roads, increase road noise, and shorten tread life. After installing winter tyres, pay close attention to changes in vehicle handling and braking performance.

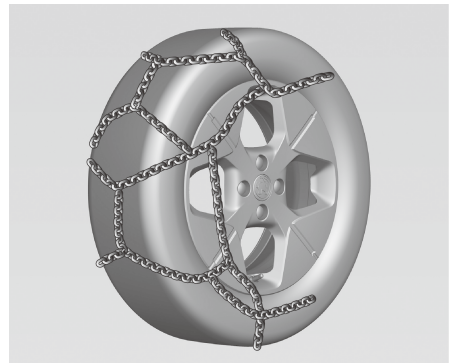
For details on the supply and selection of suitable tyres, please consult an authorised PROTON e. MAS service outlet. If you choose to use winter tyres:

- Use tyres of the same brand and tread pattern on all four wheels.
- Only radial tyres of the same size, load range, and speed rating as the original tyres may be used.
- If winter tyres with a lower speed rating are installed, ensure that the vehicle speed does not exceed the maximum speed permitted for those tyres.

Use of Tyre Chain



Tyre chains are not included with this vehicle. The following information is provided for reference only. ◀



Decide whether tyre chains are necessary based on actual road conditions.

Avoid overloading the vehicle when using tyre chains, and drive carefully at low speed.

Failure to do so may damage the vehicle and affect its handling.

When installing tyre chains, make sure to select chains that match the vehicle's tyre size, and install them strictly according to the manufacturer's instructions.



If snow chains need to be installed, replace the tyres and rims with the sizes recommended by the vehicle manufacturer for snow chain use. This prevents the chains from damaging the wheel arch liners while driving. When snow chains are not in use, restore the vehicle to its standard tyre and rim configuration. ◀



- Do not use tyre chains when driving on dry roads.
- Avoid making sharp turns or performing emergency braking when driving with tyre chains.
- After installing tyre chains, do not exceed the maximum speed limit specified by the chain manufacturer.
- Tyre chains can only be installed on the drive wheels and must not be used on a single wheel. ◀

Economical Driving – Maximising Driving Range

To maximise driving range, pay attention to driving habits, storage conditions, charging methods, and battery temperature. Maintaining good usage practices and adopting efficient driving styles will help extend the vehicle's range.

1. Start and accelerate smoothly
Power consumption is highest during start-up and acceleration. Avoid sudden or heavy use of the accelerator pedal. Starting and accelerating smoothly helps reduce energy consumption and extend driving range.
2. Avoid unnecessary braking
Maintain a safe following distance from the vehicle ahead and minimize frequent braking. When approaching a red light, decelerate gradually and allow the vehicle to coast. Avoid sudden braking to conserve energy and improve driving range.
3. Minimise wind resistance
Opening windows at high speeds increases wind resistance and raises power consumption. Keep the windows closed when driving above 80 km/h to improve energy efficiency and extend driving range.
4. Maintain correct tyre pressure
Check tyre pressure regularly. Low tyre pressure increases rolling resistance, which raises power consumption and reduces driving range.
5. Efficient Use of A/C
Using air conditioning, whether for cooling or heating, increases power battery consumption. Use the A/C only when necessary. At low speeds, open windows for ventilation. When using the A/C, operating in internal circulation mode is more energy-efficient.
6. Minimise vehicle load
Each kilogram of additional load can increase power consumption, so it is

important to remove unnecessary luggage from the vehicle regularly.

7. Plan driving routes efficiently

Optimise your driving route and try to avoid traffic congestion. This will save both time and energy.

8. Do not alter tyre size

Using larger or wider tyres increases power consumption. Always use the tyre size recommended by the vehicle manufacturer to maintain energy efficiency and driving range.

Driving Through Flooded Roads – Precautions

To prevent damage to the vehicle when driving through water (e.g., flooded roads), observe the following precautions:

1. Check the water depth before driving through. The water level should not exceed the edge of the side member.
2. Drive at low speed when crossing water. Driving too fast may create waves in front of the vehicle, potentially damaging components such as the motor controller and causing the vehicle to stop functioning.
3. Do not park or reverse in water under any circumstances.



- When driving on roads with water, mud, or similar conditions, braking performance may be reduced and stopping distances may be longer, increasing the risk of an accident.
- Avoid emergency braking operations immediately after driving through the water.

- Avoid emergency braking immediately after driving through water. Dry the brakes as soon as possible by gently applying them intermittently when traffic conditions allow. This helps restore full braking performance and reduces the risk of accidents. ◀



- Waves from oncoming vehicles may exceed the vehicle's maximum water level. Avoid driving through water above this limit.
- Hidden pits, wallows, or stones may be present in water, making passage difficult.
- Do not drive through salt water, as it may cause rust. Rinse all parts that come into contact with salt water immediately with fresh water.
- After driving through water, have your vehicle inspected at an authorised PROTON e. MAS service outlet to remove hidden risks and maintain driving safety. ◀

Vehicle Parking

- Park the vehicle on a flat, stable, and safe surface, ensuring it does not obstruct other traffic.
- Press the brake to stop the vehicle completely, then engage P (Park).



- Do not leave children or persons with limited mobility in the vehicle. They may release the parking brake or operate the gear lever, causing the vehicle to move

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and potentially resulting in serious injury or death. ◀

Power Supply Mode

The vehicle uses a non-inductive starting system without a start switch. Place a matching intelligent key inside the vehicle to activate it.

Vehicle power status includes the following:

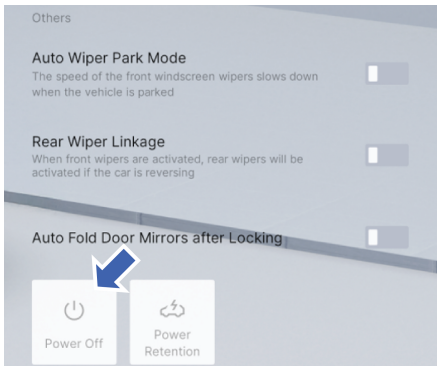
ACC Mode: Use the intelligent key to unlock and open the door. The vehicle's power supply will switch to ACC, and the high-voltage system will enter non-READY mode. In this mode, comfort functions such as air-conditioning, entertainment systems, and window controls are available.

The vehicle will switch to OFF mode when it is locked from outside, powered down, or if the driver remains absent for an extended period.

ON Mode: After the driver enters the vehicle and the corresponding intelligent key is detected, pressing the brake pedal switches the vehicle power to ON. When the gear is shifted to Drive (D) or Reverse (R), the "READY" indicator on the meter instrument illuminates, and the vehicle can be driven.

OFF Mode: After parking, when the vehicle is locked from outside or the power is turned off, it enters OFF mode. Most functions are switched off or operate in a delayed state.

How to Power the Vehicle On and Off



Click the following on the multimedia display in sequence:

Vehicle Settings → **Vehicle Control** → **More**, and select **Power Off** to set the vehicle to OFF mode.

Once the multimedia display goes off, depressing the brake pedal will return the vehicle to ON mode.

Vehicle Start Procedures

Press the brake pedal and move the gear shift lever to Drive (D) to start the vehicle. If the intelligent key is not detected or is affected by interference, the meter instrument will display a message indicating that the key is not in the vehicle. If the intelligent key battery needs replacement, refer to the **“Replacement of Key Battery”** section.



Shift the gear shift lever to Drive (D) once all starting conditions are met.

After powering on, the “READY” indicator on the meter instrument illuminates, and the vehicle is ready to be driven. ◀



Placing electronic devices such as mobile phones or laptops near the intelligent key may cause the keyless start function to fail. If this occurs, keep the intelligent key away from electronic devices. It is recommended to place the intelligent key on the cup holder at the marked key logo. ◀

Standby Start Function

If the vehicle is in an area with strong electromagnetic interference, the intelligent key battery is low, or the non-inductive starting function fails, a warning message may appear on the meter instrument when you attempt to start the vehicle and shift the gear shift lever to D (Drive). In this case, the vehicle cannot be started by moving the gear shift lever to D (Drive).

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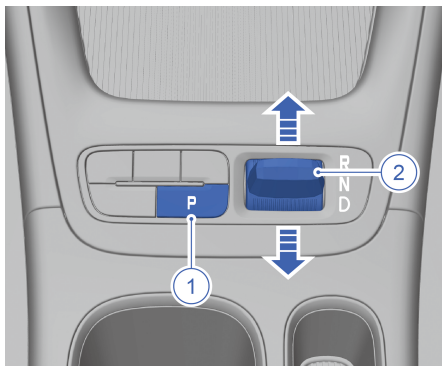
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Start the vehicle by following these steps:

1. Ensure the vehicle gear is in Park (P) or Neutral (N);
2. Place the intelligent key in the key symbol area of the cup holder;
3. Press the brake pedal.
4. Move the gear shift lever to Reverse (R) or Drive (D) to activate the READY state and drive the vehicle.

Gear Position Information



1. Park (P) button
2. Gear shift lever

Push or pull the gear shift lever respectively to switch between Reverse (R), Neutral (N), and Drive (D), depending on the current gear. Press the Park (P) button to shift into Park (P).

 When switching from Drive (D), Reverse (R), or Park (P) to Neutral (N), move the gear shift lever briefly (one level) and hold it for at least 1 second. ◀

Gear Shift Operation

Park

When parking, after the vehicle has come to a complete stop, press the Park (P) button to engage Park (P). The Electronic Parking Brake (EPB) will activate simultaneously, locking the wheels.

Drive

With the gear in Park (P) or Neutral (N), press the brake pedal to switch the vehicle to READY mode. Then move the gear shift lever to Drive (D), release the brake, and gently press the accelerator pedal.

Reverse

When the vehicle is stopped, press the brake pedal and move the gear shift lever to Reverse (R). After confirming that the parking brake is automatically released, release the brake pedal and gently press the accelerator pedal.

Drive Modes



On the multimedia display, select **Vehicle Settings** → **Driving** → **Drive Mode** to choose the desired drive mode.

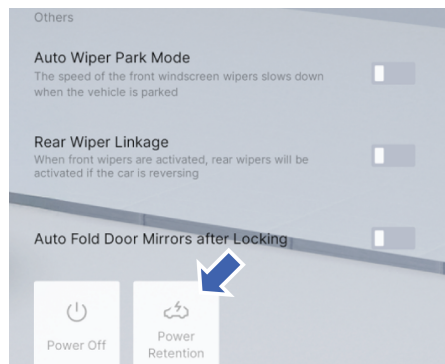
Alternatively, swipe down from the top of the multimedia screen to open the quick access menu and select a drive mode.

Sport mode: Delivers maximum power with quicker acceleration.

Comfort mode: Provides smoother performance for a relaxed and comfortable drive.

Eco mode: Optimizes energy efficiency to reduce consumption and extend driving range.

Parking Comfort



On the multimedia display, go to **Vehicle Settings** → **Vehicle Control** → **More**, then enable or disable the Parking Comfort function.

When this function is enabled, the vehicle remains in the power-on state.

When this function is enabled, the vehicle remains in the power-on state. This function is automatically turned off when the high-voltage battery charge drops to **20%**.



Do not leave children unattended in the vehicle. ◀



After the Parking Comfort function is enabled, if you briefly press the lock/vehicle search button on the intelligent key, the vehicle will lock but the anti-theft system will not be armed. ◀



- When the Parking Comfort function is activated and the driver's door is opened, a pop-up message will appear on the multimedia display reminding you that the Parking Comfort function will remain active. Do not leave children unattended in the vehicle.
- When the Parking Comfort function is active and the battery level drops below 20%, the system automatically exits the function and notifies the user with a prompt stating: "the current battery level is insufficient, and the Parking Comfort function has been turned off."
- When the vehicle power supply is in ACC mode, when the Parking Comfort function is turned on or the quick access button setting is used to complete the

time adjustment and exit this interface, a pop-up window prompts the user: "After the vehicle is locked, the vehicle continues to supply power to ensure that the air conditioning and entertainment system can be used. If the battery level is lower than 20%, the vehicle will exit this function and power down.". After the user clicks OK, the pop-up window closes.

- When the vehicle battery level is less than or equal to 20%, the Parking Comfort switch turns grey. After the user clicks the switch, a pop-up window on the multimedia display screen prompts: "The battery level is too low to turn on the Parking Comfort function."
- When the vehicle power supply is in ON mode, enable the Parking Comfort function and set the time (more than 0 minutes). After exiting the time setting interface, a pop-up window appears on the multimedia display prompting: "Setup successful. The countdown will start when the driver leaves the vehicle."
- When the vehicle power supply is OFF, the Parking Comfort switch turns grey. If you click it on the multimedia display, a pop-up window appears with the message: "The vehicle is not started currently and this feature cannot be used." ◀

Service Brake

While driving, the actual braking distance may vary depending on road conditions, vehicle load, and the applied braking force. Always maintain a safe distance from the vehicle ahead, and avoid cadence braking or sudden emergency braking whenever possible.

The first 500 kilometers are considered the running-in period for a new vehicle. During this time, the braking distance may be longer and braking performance may be slightly reduced, which is normal. Drive with caution and maintain a safe following distance.



Do not install non-original accessories, as they may affect vehicle performance and increase the risk of traffic accidents. ◀

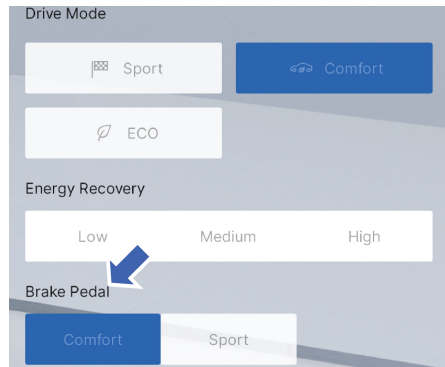


If a sharp metallic friction sound is heard when pressing the brake pedal, take the vehicle to an authorised PROTON e. MAS service outlet for immediate inspection and maintenance.



Do not keep your foot lightly pressing or resting on the brake pedal while driving, as it may cause wear, overheating of braking parts, and longer braking distance. ◀

Brake Pedal



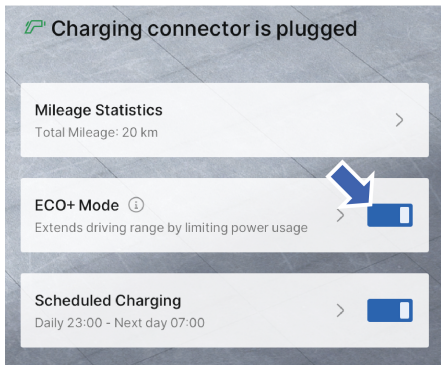
Click the following on the multimedia display in sequence:

Vehicle Settings → Driving → Brake Pedal, and select your preferred brake pedal feel (brake response) according to your driving habits.

In Comfort mode, braking is controlled for smooth, comfortable deceleration, while in Sport mode, deceleration is quick and powerful.

ECO+ Mode

This mode switches the drive mode to (or turn on) the ECO + mode, limiting or disabling certain comfort features to reduce energy consumption and extend the pure electric driving range (available only for the current driving session).



Click the following on the multimedia display in sequence:

Energy Centre → **ECO+ Mode** to open the ECO + Mode confirmation interface. Select the required items on this page, then click Confirm to enable the feature.

After the mode is enabled, users can readjust settings such as the A/C. If all selected settings are changed, the mode will automatically exit.

After that, if any associated settings are changed while ECO+ Mode is active, they will remain in their current state after the mode turns off. Otherwise, the settings will return to their previous values.

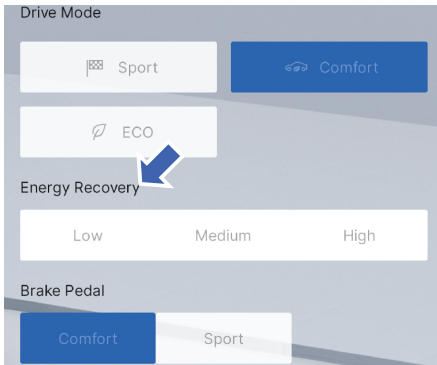
If the user selects A/C, he/she needs to turn the A/C on again after enabling ECO + mode. When the ECO + mode exited, A/C remains the current setting, otherwise it will resume the settings before the ECO+ mode is enabled.



- If adaptive cruise control (if equipped) is activated after the 90 km/h speed limit is enabled, the speed limit will be temporarily overridden. Once adaptive cruise control is turned off, the 90 km/h speed limit will automatically resume. Please drive with caution.
- After the 90 km/h speed limit is activated, pressing the accelerator pedal all the way for emergency overtaking will temporarily override the limit. ◀

Energy Recovery

The brake system also features an energy recovery function: when the vehicle is coasting or braking while the gear is in D (Drive) position, kinetic energy is converted into electricity and stored in the power battery, helping to extend the driving range.



Click the following on the multimedia display in sequence:

Vehicle Settings → Driving → Energy Recovery.

On this interface, select the desired energy recovery intensity. The higher the intensity, the more energy is recovered during coasting.



The braking effect of energy recovery alone may not be sufficient for safe driving. The driver should apply the brake pedal as needed according to actual conditions. ◀



- When the vehicle decelerates, a slight halt sensation and motor noise may occur. This is normal.

- When the power battery is full, or its temperature is too high or too low, the energy recovery will be automatically reduced to protect the battery.
- When the motor temperature is too high, the energy recovery will be automatically reduced to prevent motor damage. ◀

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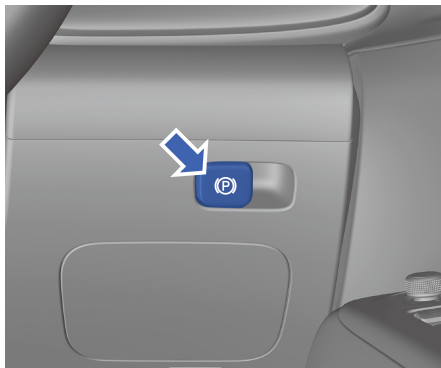
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Parking Brake

Electric Parking Brake (EPB)



EPB Manual Release

With the vehicle power set to ON, press the brake pedal and press the electric parking brake (EPB) switch simultaneously. The EPB will then be released.

EPB Automatic Release

With the vehicle started, the seat belt fastened, the driver's door closed, the EPB engaged, and the gear shift lever in D (Drive), the EPB will automatically release and the EPB indicator light will turn off.

Once the Electric Parking Brake (EPB) is engaged, the EPB indicator light on the meter instrument will turn on. If the indicator does not turn on, contact an PROTON e.MAS service outlet as soon as possible. ◀

EPB Manual Parking

When the vehicle is at a complete stop, press the Electric Parking Brake (EPB) switch to engage the brake. The EPB

indicator light on the meter instrument will then turn on.

EPB Automatic Parking

When the vehicle is powered on, press the Park (P) button to automatically engage the Electric Parking Brake (EPB).

Manual Emergency Braking

In case of an emergency while driving, press and hold the Electric Parking Brake (EPB) switch to activate the emergency braking function. Release the switch to stop emergency braking.



Do not use the Electric Parking Brake (EPB) for emergency braking during normal driving. Repeated use of the EPB to slow down the vehicle may cause serious damage to the brake system. ◀



- Improper use of the Electric Parking Brake (EPB) may result in serious injury or death.
- Unless in an emergency, do not use the Electric Parking Brake (EPB) as a service brake. ◀

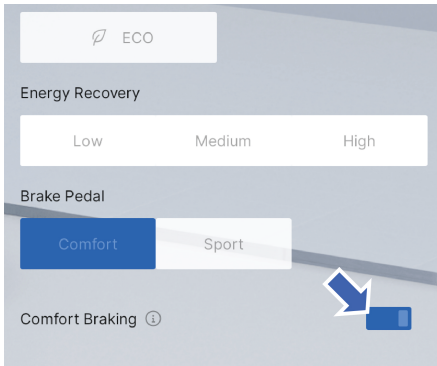


When the EPB is released, the vehicle will no longer be held stationary. To prevent vehicle damage or serious personal injury, do not release the EPB on a slope. ◀



When the vehicle needs to be moved during automatic washing, start the vehicle, keep the doors and windows closed, move the gear shift lever to N (Neutral), and manually release the EPB. ◀

Comfort Braking*



Click the following on the multimedia display in sequence:

Vehicle Settings → Driving → Comfort Braking.

On this interface, you can enable or disable the comfort braking function. When this function is turned on, hydraulic brake pressure is automatically released as the vehicle comes to a stop, providing smoother braking.

The comfort braking function is inactive during low-speed or emergency braking. In such cases, it is normal for the braking reaction force to feel stronger.

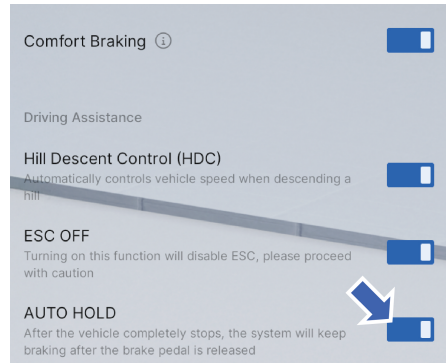
AUTO HOLD

Automatic vehicle hold (AVH) or also known as AUTO HOLD function maintains the vehicle position when the driver steps on the brake pedal to stop.

The braking force will be automatically maintained, so the driver does not need to continuously pressing the brake pedal during temporary stops, such as at traffic lights or in congestion.

When the driver steps on the accelerator pedal to resume driving, the braking force will be automatically released.

 The vehicle may still move under certain conditions even when Auto Hold is activated. ◀



Auto Hold ON/OFF

When the power system is running, and the driver's door is closed with the seat belt fastened, go to the multimedia display and select:

Vehicle Settings → Driving → Driving Assistance to enable or disable the Auto Hold function.

Activating and Deactivating Auto Hold

1. Close the driver's door, fasten the seat belt, and start the motor. When the Auto Hold function is on, if the vehicle speed is zero, the brake pedal is pressed, and the shift lever is in Drive (D) or Neutral (N), the Auto Hold (AVH) status indicator will appear  on the meter instrument display.

2. When the accelerator pedal is lightly pressed or the brake pedal is firmly applied, Auto Hold will release automatically, and the Auto Hold (AVH) status indicator  on the meter instrument display will turn off.
3. If the accelerator pedal is not pressed for more than 10 minutes, the vehicle automatically switches to EPB mode, and the Electric Parking Brake (EPB) system status indicator  will turn on.

Auto Hold Forced Release

When the Auto Hold function is active, if the seat belt is unfastened, the driver's door is opened, or the power system is turned off, the Auto Hold (AVH) status indicator  on the instrument display will turn off. At this time, if the EPB is engaged, the Electric Parking Brake (EPB) status indicator  will turn on.

Anti-lock Braking System (ABS)

The vehicle is equipped with an Anti-lock Braking System (ABS), which prevents the wheels from locking under maximum braking force. This helps maintain steering control during emergency braking on most road conditions.



The braking distance on rough, gravel, or snow-covered roads will be longer than on normal roads ◀



- During braking, a continuous “cluck” sound may be heard from the front compartment, and vibration may be felt through the brake pedal. This is a normal effect of the Anti-lock Braking System (ABS) in operation and does not indicate a fault.
- When the ABS is no longer active, the brake pedal will return to its normal state of non-ABS braking. ◀

Electronic Braking-force Distribution (EBD)

During braking, the Electronic Braking-force Distribution (EBD) automatically adjusts the brake force between the front and rear axles to improve braking efficiency. Working together with ABS, it enhances braking stability and helps maintain overall vehicle stability.

Electronic Stability Control (ESC)

The Electronic Stability Control (ESC) system is an active safety technology that helps the driver maintain control of the vehicle. It corrects body instability by applying braking force to individual wheels or by reducing motor torque, helping to prevent accidents and keeping the vehicle on its intended path.



The ESC system is only a driver-assist feature. There are still significant risks on smooth or wet roads; therefore, always drive with caution. ◀

The ESC system turns on automatically when the vehicle starts and should always remain on to help maintain directional control. In an emergency, the ESC function activates, and the ESC status indicator flashes on the instrument cluster. This also occurs when the traction control system is active. Some noise or brake pedal vibration may be noticed, which is normal. Continue steering the vehicle in the desired direction. If an ESC fault is detected, the ESC status indicator will remain on, and the system will not function properly. In this case, adjust your driving style accordingly.

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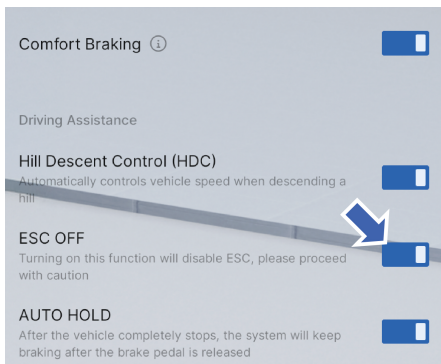
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ESC OFF



When the vehicle is started, select the following on the multimedia display in sequence:

Vehicle Settings → Driving → Driving Assistance, then click the ESC OFF button to enable it (turn off the ESC system). The ESC OFF indicator 🚗 on the meter instrument will turn on.

If sufficient traction cannot be achieved, ESC may be turned off in the following situations:

- When driving in deep snow or on soft surfaces.
- When the vehicle is stuck (e.g., in mud) and needs to be rocked forward and backward.
- When driving with tyre chains installed.

ESC ON

Reactivate the Electronic Stability Control (ESC) through the multimedia display (by disabling the ESC OFF button). The ESC OFF indicator 🚗 will turn off.

Anti-Rolling Program (ARP)

The Anti-Rolling Program (ARP) calculates the vehicle's roll using signals from the wheel sensors to provide additional control over the outer wheels during a turn. If severe roll is detected, ARP quickly adjusts the braking force on each side and reduces the drive motor's torque. This helps restore the vehicle's balance, prevents rollover, and ensures the safety of the driver and passengers.

Brake Assist (BA)

During emergency braking, the brake assist system automatically boosts braking force to help shorten the stopping distance.



Brake assist system only helps the driver apply greater braking force. It does not guarantee accident prevention. Always maintain a safe distance and drive with caution. ◀

Traction Control System (TCS)

The Traction Control System (TCS) helps prevent loss of traction in the drive wheels. When the system detects wheel slip, it applies braking force to the slipping drive wheels to reduce spinning and improve vehicle stability.

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Hill-start Assist Control (HAC)

When starting on a slope, Hill-start Assist Control (HAC) maintains braking force for about two seconds after the driver releases the brake pedal, helping to prevent the vehicle from rolling backward.

 The Hill Hold Control function operates only when the Electronic Stability Control (ESC) system is active and the parking brake is fully released. ◀

 Hill-start Assist Control briefly maintains brake pressure after the driver releases the brake pedal. If the accelerator is not pressed or the parking brake is not engaged, the vehicle may roll backward on a slope after about two seconds. Extra caution is advised when starting on steep inclines. ◀

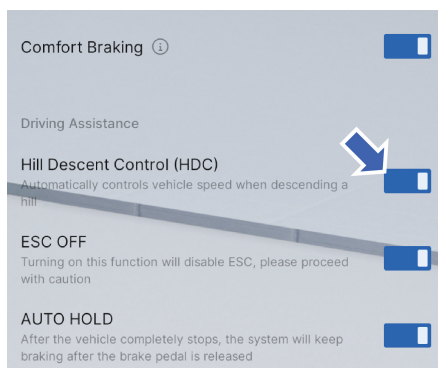
Hill Descent Control (HDC)

HDC applies braking automatically when driving downhill, helping the driver maintain a constant speed for safe descent on steep slopes.



- HDC serves only as an assist function. The driver remains fully responsible for vehicle safety and must stay alert to surrounding conditions at all times.
- On very steep slopes, HDC may not be able to maintain a constant speed. In such cases, use the brake pedal to control vehicle speed. ◀

Enabling and Disabling HDC



On the multimedia display, select **Vehicle Settings** → **Driving** → **Driving Assistance**, then enable or disable the HDC function in the menu.



- HDC can be activated only when the vehicle speed is below 35 km/h. The

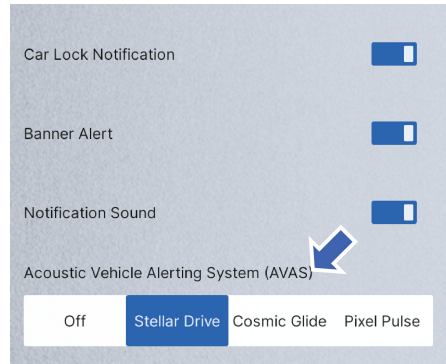
system will automatically switch off when the vehicle speed exceeds 60 km/h.

- HDC cannot be enabled, or will be automatically disabled, if the brake temperature is too high.
- If the Hill Descent Control (HDC) status indicator on the meter instrument does not illuminate, or turns yellow when HDC is switched on via the multimedia display, it indicates that the system cannot be activated. ◀

Acoustic Vehicle Alerting System (AVAS)

When the Acoustic Vehicle Alerting System (AVAS) is enabled and the vehicle is in Drive (D) or Reverse (R) at speeds below 30 km/h, it emits a sound to alert pedestrians.

Default speed and sound settings may vary by country. The settings on the actual vehicle will take precedence.



On the multimedia display, select **Vehicle Settings** → **Sound** → **Acoustic Vehicle Alerting System (AVAS)**, then choose the desired AVAS sound effect from the menu.



The Acoustic Vehicle Alerting System (AVAS) may only be turned off when there are no nearby road users and when the surroundings clearly do not require short-range warning sounds. ◀

Electric Power Steering (EPS)

The electric power steering system monitors driving speed and adjusts power assistance in real time, providing easy maneuverability at low speeds and improved stability at high speeds for enhanced safety.

If steering becomes difficult or the Electric Power Steering (EPS) warning indicator illuminates on the meter instrument, contact an authorised PROTON e. MAS service outlet promptly for inspection and maintenance.

Tyre Pressure Monitoring System (TPMS)

The Tyre Pressure Monitoring System (TPMS) alerts the driver to check tyre pressure by illuminating the TPMS warning indicator.

If the sensors detect abnormal pressure in one or more tyres, the TPMS warning indicator will illuminate. Park the vehicle as soon as possible and check the tyre pressures, inflating them to the specified values. The correct cold tyre pressures are shown on the label affixed to the vehicle. Note that the TPMS can alert you to abnormal pressure, but it does not replace regular tyre maintenance.

Tyre pressure calibration reset is required after performing the following operations:

- After adjusting the inflation pressure of one or more tyres.
- After replacing or rotating any tyre or wheel.
- After performing wheel dynamic balancing.
- When the ambient temperature changes by more than 40° C after tyre pressure has been calibrated and reset.
- Every 6 months or after 10,000 km of driving.

TPMS Manual Calibration

1. Inflate all tyres to the recommended pressure (refer to the tyre pressure label on the right-center door pillar).
2. On the multimedia display, select: **Vehicle Settings → My Car → My Car → Service and Maintenance**, then

click Resetting Tyre Pressure
Monitoring.

3. After resetting the system, drive the vehicle at a speed above 40 km/h for a few minutes to set the new tyre pressure reference values.



- The spare tyre, if equipped, is not fitted with a tyre pressure monitoring sensor.
- The TPMS only provides a warning for low tyre pressure and does not display actual tyre pressure values. Please check tyre pressures regularly and maintain them within the recommended range.
- The TPMS cannot predict sudden tyre damage caused by external factors (such as a blowout), nor can it detect gradual, uniform pressure loss over time in all tyres. ◀

Tyre Pressure Monitoring System (TPMS) Fault

When the TPMS is faulty, the TPMS status indicator will flash for several seconds and then remain illuminated, while a fault message appears on the meter instrument. The following conditions may cause the TPMS to malfunction:

- Use of incompatible tyres or modified wheels.
- Severe road conditions or prolonged unusual driving.
- Driving with anti-skid chains installed.
- Installation of a non-original wheel speed sensor.

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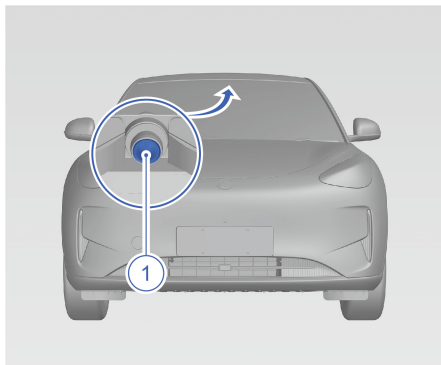
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Introduction to Intelligent Driving System

Front Camera*



1. Front camera

The intelligent driving system uses the front camera to recognise lane boundaries and detect targets.

 During daily use, keep the front camera clean and ensure its view is not blocked by contaminants such as rain, snow, fog, water vapour, ice, frost, leaves, or bird droppings, and not affected by strong light. Otherwise, the performance of the intelligent driving system may be impaired. The front camera has blind spots and limited distance recognition; it cannot reliably detect objects outside or at the edges of its field of view.

- In adverse conditions such as rain, snow, fog, or dust, the front camera's recognition capability may be affected, resulting in reduced system performance or temporary deactivation. The driver should always monitor the vehicle and take control when necessary.

- If a front camera system failure occurs, a message will be displayed on the meter instrument. Please visit an authorised PROTON e. MAS service outlet for maintenance.
- To protect electronic components, the system will be temporarily disabled if the front camera reaches an extremely high temperature. The meter instrument will display a warning message. Once the temperature decreases sufficiently, the camera will automatically restart and the system will return to normal operation.
- If the front camera is blocked, the vehicle enters a dark environment, the lighting changes suddenly, or strong light interferes with it, system performance may be reduced or the function may be deactivated. The driver should always monitor the vehicle and take control.
- Do not modify or refit the front camera. Strong vibration or minor impact may require re-calibration. Deformation, damage, replacement, or coating of the front windscreen may also cause inaccurate detection. ◀

 The front camera may show temporary obstruction under extraordinary scenarios, which is normal. It can be restored by avoiding dark environments and direct sunlight when the front camera view is not obstructed. If it cannot be restored, please visit an authorised PROTON e. MAS service outlet for maintenance. ◀

Adaptive Cruise Control (ACC)*

The Adaptive Cruise Control (ACC) can control the vehicle speed based on the set speed and headway within the range of 0 to 130 km/h.

ACC primarily provides driving assistance on highways or elevated roads with good conditions. The driver must remain in control of the vehicle at all times.

ACC detects vehicles ahead using the front camera, and maintain the headway set by the driver through automatic speed adjustment. The driver can control the vehicle at any time according to the driving conditions.



When the vehicle is powered on, the intelligent driving system requires initialisation and will not operate normally during this process. ◀



When the vehicle is powered on, ACC performs a self-check and the system is disabled during this process. ◀



- ACC is an assistance system only and is not an emergency warning or collision avoidance system. It cannot replace the driver. The driver must remain in control of the vehicle at all times and is fully responsible for its operation. Driving should always comply with traffic laws and regulations.
- ACC does not respond to vehicles or objects crossing the carriageway.
- Changes in vehicle posture caused by excessive load in the luggage area and

various other reasons may reduce the effectiveness or disable the target recognition of the ACC system.

- When accelerating rapidly and approaching a vehicle ahead at high speed (with a significant speed difference), the driver should brake promptly.
- On steep downhill roads, it may be hard to keep a safe distance from the vehicle ahead. Always be careful and ready to brake. Do not use ACC when the vehicle is heavily loaded.
- ACC cannot detect pedestrians, tricycles, vehicles carrying irregularly shaped loads, animals, objects on the road, overturned vehicles, or pedestrians standing next to or behind a vehicle.
- ACC may have difficulty detecting stationary or slowly moving vehicles and cannot recognise oncoming traffic. When using ACC, drivers should always monitor road conditions and vehicle status, and overtake the vehicles when necessary.
- When ACC is active, pressing the accelerator pedal gives control to the driver, who can accelerate as desired. The ACC control function will be temporarily disabled (no longer controls the vehicle's speed) until the driver releases the accelerator pedal.
- When entering or exiting a curve, target selection may be delayed or disrupted. ACC may brake unexpectedly or later than expected.
- In some situations, such as when the vehicle ahead is travelling much slower,

or a vehicle cuts in at close range, ACC may not have enough time to reduce the relative speed. The driver must react appropriately (braking) in these cases.

- If the vehicle ahead brakes suddenly, ACC may respond too slowly or fail to respond in time. In such cases, the driver will not receive a takeover request and must brake promptly.
- On sharp turns, such as winding roads, ACC may not detect the vehicle ahead properly due to the limited field of view of the front camera. This can cause the vehicle to accelerate unexpectedly, and the driver must respond appropriately according to road conditions.
- If the distance between the vehicle equipped with ACC and another vehicle in the adjacent lane is too small, the ACC system may detect the nearby vehicle and apply braking in response to that vehicle. ◀



In the following situations, the driver must remain particularly alert:

- When activating ACC while the vehicle is stopped, there is a significant risk of collision if pedestrians, children, animals, two-wheeled vehicles, three-wheeled vehicles, or other obstacles ahead are not detected by the system. The driver should only activate ACC after ensuring the area in front of the vehicle is clear before starting off.
- If the vehicle is travelling at high speed and the right turn signal is activated when overtaking on the right, ACC may automatically accelerate and reduce the

distance to the vehicle ahead. Once the vehicle enters the overtaking lane and no vehicle is ahead, the ACC system will gradually adjust the speed to reach the set cruise speed.

- ACC cannot detect items loaded or accessories fitted to the vehicle ahead that protrude from its sides, rear, or roof. If the vehicle in front carries such loads or equipment, ACC must be turned off when overtaking.
- When the ACC system prompts the driver to take control of the vehicle, the driver must press the brake pedal to slow down or stop the vehicle if it continues to move.
- Structural modifications to the vehicle, such as lowering the chassis or adding objects to front windshield area, may affect ACC performance. ◀

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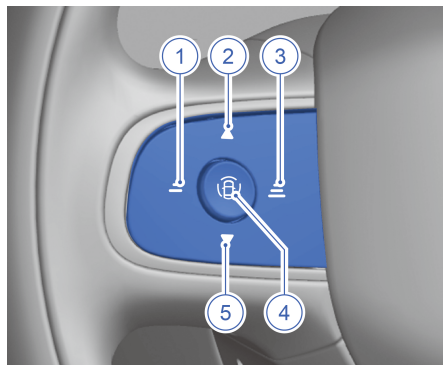
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Steering Wheel Control Buttons



The speed adjustment and cruise activation buttons are located on the left side of the steering wheel.

1. Headway Decrease Button:

Short press to decrease the following distance (headway).

2. Speed Increase and Cruise Resume Button:

- Short press while the function is active: increases cruise speed by 5 km/h.
- Long press while the function is active: continuously increases cruise speed by 1 km/h until the button is released.
- When the function is on but not active (enabled): press the button to resume and activate Adaptive Cruise Control (ACC) to the set cruise speed.

3. Headway Increase Button:

Short press to increase the following distance (headway).

4. OK Button:

Press to enable, disable or exit the Adaptive Cruise Control (ACC) function.

- Short press when ACC is off : enable or turn on ACC (ACC in standby mode).
- Short press after activation: deactivate ACC (ACC return to standby mode).
- Press and hold: exit and turn off (disable) the ACC system.

5. Speed Decrease and Cruise Set Button:

- Short press while the function is active: the cruise speed decreases by 5 km/h.
- Long press while the function is active: the cruise speed decreases by 1 km/h continuously until the button is released.
- When the function is on but not active (enabled): press this button to activate Adaptive Cruise Control (ACC) and set the current speed as the Set Cruise Speed.

ACC Activation and Speed Setting

The following conditions must be met to activate ACC:

- ACC is switched on (enabled).
- The gear is in Drive (D).
- All four doors, the tailgate, and the front hood are closed.
- The vehicle is moving, and the brake pedal is not pressed.
- There are no faults in the brake system.
- The front camera is free from faults, excessive dirt, or high temperature.
- Electronic Stability Control (ESC) is active.

- The Electric Parking Brake (EPB) is released.
- The driver has fastened the seat belt.
- Hill Descent Control (HDC) is switched off.

Stationary Vehicle

When the vehicle is stationary, activate ACC as follows:

- Turn on ACC using the OK button on the left side of the steering wheel. Once the activation conditions are met, the ACC status indicator on the meter instrument will illuminate in white (ACC in standby mode).
- Press the brake pedal or activate the AUTO HOLD function.
- Press the speed increase and cruise resume button to activate ACC. The ACC status indicator on the meter instrument will illuminate in green.
- When the brake pedal is released, the ACC system can keep the vehicle stopped.
- The driver must press the speed increase and cruise resume button again or lightly press the accelerator pedal for ACC to control the vehicle and start moving.
- ACC maintains the vehicle speed according to the set cruise speed.

Moving Vehicle

When the vehicle is moving, activate ACC as follows:

- Turn on the Adaptive Cruise Control (ACC). Once the activation conditions are met, the ACC status indicator on the

meter instrument lights up in white (ACC in standby mode).

- Press the speed decrease and cruise set button to activate ACC. The ACC system status indicator on the meter instrument lights up in green.
- ACC controls the vehicle based on the set cruise speed.

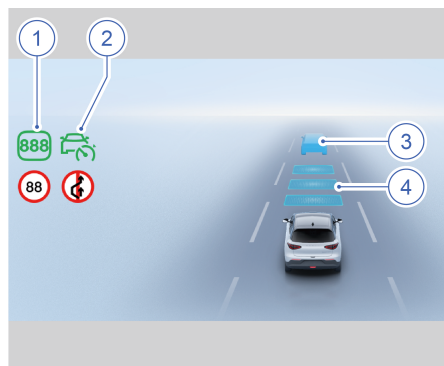
Set Cruise Speed

Press the speed decrease and cruise set button to set the vehicle speed as set cruise speed.

- When the vehicle speed is below 30 km/h, the set cruise speed will be 30 km/h.
- When the vehicle speed is between 30 to 130 km/h, the set cruise speed will match the current vehicle speed.

Press the speed increase and cruise resume button, or the speed decrease and cruise set button, to adjust the desired set cruise speed.

Meter Instrument Information



1. Set Cruise Speed Indicator

The set cruise speed indicator will not be displayed if the ACC system is turned off, or when ACC is turned on does not meet the activation condition yet.

If ACC was previously activated but is currently in standby mode, the indicator will illuminate in white. When ACC is active, the indicator will turn to green.

2. ACC Status Indicator

The ACC status indicator will not be displayed when the ACC system is off.

The indicator will illuminate as following:

- Grey: when the system is turned on but cannot be activated (has failure).
- White: when it is on but not yet activated (standby mode).
- Green: when it is currently activated.

3. Vehicle Ahead Indicator

This indicator lights up when the Adaptive Cruise Control (ACC) system is activated:

- Blue: when following a target vehicle (in front) within safe distance.

- Yellow: when the distance to the vehicle ahead is too close
- Red: when the distance with vehicle ahead is critically close and the driver must take action such as braking or overtaking.
- Grey: when the driver is pressing the accelerator pedal to control the vehicle speed

4. Headway

The headway can be set to three levels: **Near**, **Medium**, and **Far**.

By default, it is set to **Far** each time the vehicle is started.



The driver must maintain a safe braking distance from the vehicle ahead and comply with local traffic regulations regarding minimum distance or time gaps. It is the driver's responsibility to follow the law. ◀

Controlling Vehicle Speed with Adaptive Cruise Control (ACC)

Acceleration Mode

There are two ways to accelerate:

- Press the accelerator pedal to increase speed manually. While accelerating, the driver controls the vehicle, and the meter instrument displays the acceleration. Once the pedal is released, the ACC system resumes automatically following the set cruise speed.
- While driving with ACC set cruise speed, press the speed increase and cruise resume button to accelerate slightly. A short press increases the vehicle speed by 5 km/h, while a long press gradually

increases the speed by 1 km/h until the button is released. The maximum set cruise speed is 130 km/h.

Overtaking Assist Mode

In cruise mode, when this vehicle is following a vehicle ahead and signaling a right turn, ACC accelerates before reaching the overtaking lane to assist the driver in overtaking or changing lanes.

To activate overtaking assist mode, the following conditions must be met:

- A vehicle must be present ahead.
- The current vehicle speed must exceed 60 km/h.
- The current lane line must be dotted (clear and suitable for overtaking).
- The set cruise speed must be high enough to allow safe overtaking.
- The right turn signal must be activated.

In overtaking assist mode, **unexpected acceleration may occur in the following situations**, which requires the driver's special attention.

Therefore, the driver should be prepared for sudden changes in conditions and take timely control of the vehicle.

- The vehicle is approaching a turning exit, and the exit direction is the same as that of the intended overtaking.
- Before the vehicle enters the overtaking lane, the speed of the vehicle ahead decreases.
- The speed of a vehicle in the overtaking lane decreases.

In overtaking assist mode, **unexpected deceleration may occur in the following situations**, which requires the driver's special attention.

Therefore, the driver should be prepared for sudden changes in conditions and take timely control of the vehicle.

- The speed of the vehicle in the overtaking lane is lower than that of your vehicle.
- The longitudinal distance between your vehicle and the vehicle in the overtaking lane is short.
- The vehicle in the overtaking lane is large, with a long body, and parallel to your vehicle.



In overtaking assist mode, the driver must manually control the vehicle when changing lanes. ◀



Please note that this function can also be activated in situations other than overtaking. For example, when the left or right turn signal is used when changing lanes or entering another road, the vehicle will briefly accelerate. ◀

Stop and Go Mode

In cruise following mode, if the vehicle ahead slows down to a stop, your vehicle will also stop gradually while maintaining a safe distance.

- If the vehicle ahead starts moving again within a certain period after stopping, your vehicle's cruise control will automatically resume.
- If the vehicle ahead starts moving again after a longer stop, the driver must press

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the accelerator pedal or the speed increase and cruise resume button to continue cruising with ACC.

- If the driver does not press the accelerator pedal and the front departure alert is active, the meter instrument will give visual and audible alerts when the vehicle ahead moves a certain distance while your vehicle remains stopped.
- In ACC Stop and Go mode, if the driver manually exits ACC, the vehicle will not automatically move again. In this case, the driver must press the accelerator pedal to resume moving and take control to drive safely.



ACC cannot detect stopped vehicles or brake to avoid them. ◀



When the vehicle is stopped, ACC may still control the vehicle to move, which could cause unintended vehicle movement. This may lead to a traffic accident and result in serious injury or death. ◀



ACC may accelerate unexpectedly in the following situations. Stay alert and be prepared to apply the brakes immediately.

- When your vehicle is following another moving vehicle, the ACC system may fail to recognize if that vehicle comes to a stop and could continue moving at the speed set by the driver.
- At an intersection, when your vehicle is following a vehicle ahead during a low-speed turn, the leading vehicle may temporarily disappear from the ACC's

detection. In this case, your vehicle may accelerate according to the driver's set cruise speed. ◀

Deceleration Mode

While driving with ACC set cruise speed, you can slow down slightly by pressing the speed decrease and cruise set button. A short press decreases the vehicle speed by 5 km/h. A long press gradually decreases the vehicle speed at 1 km/h until the button is released. The minimum set cruise speed is 30 km/h.

Restoring Set Cruise Speed

When the driver sets a desired speed for the ACC system and then presses the brake pedal or the OK button on the left side of the steering wheel, the ACC system will deactivate. The previously set cruise speed is stored and remains displayed on the meter instrument.

To activate the ACC and resume cruising at the last set cruise speed, press the speed increase and cruise resume button.

Deactivating Adaptive Cruise Control

You can deactivate the adaptive cruise control (ACC) using any of the following methods:

- Press the brake pedal to deactivate the ACC.
- Press the OK button on the left side of the steering wheel to deactivate the ACC.

The adaptive cruise control (ACC) depends on other systems, such as the Electronic Stability Control (ESC), to work. If any of

these systems stop, the ACC will turn off automatically.

If the ACC deactivates automatically, a sound will alert the driver, and a message will appear on the meter instrument. The driver must take control to maintain the proper speed and distance from the vehicle ahead.

The ACC system may not work if the front camera malfunctions, is blocked by objects, or is exposed to low light, strong sunlight, or sudden changes in the brightness of the surroundings.

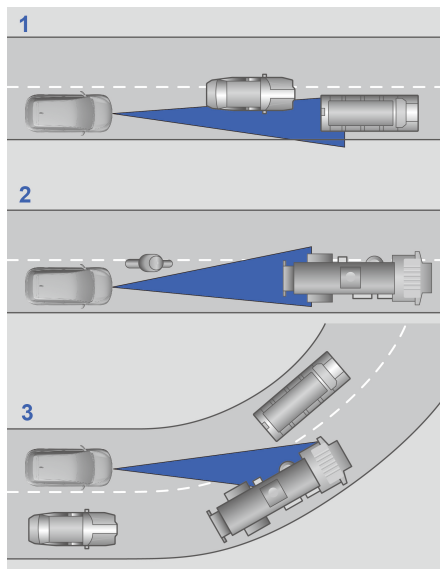
Possible reasons the adaptive cruise control (ACC) may be deactivated include:

- Any door, front hood, or tailgate is open.
- Driver seat belt is unfastened.
- Wheels lose road grip.
- Brake system performance is degraded or faulty.
- Parking brake is applied.
- Front camera is covered by wet snow or heavy rain.
- Electronic Stability Control (ESC) system is not functioning or turned off.
- Hill Descent Control (HDC) function is turned on.

Detection Problems

The front camera has a limited detection range. In some situations, it may fail to detect vehicles or respond slowly.

 When the vehicle is powered on, the front camera needs initialization, and the vehicle ahead cannot be detected during this time. ◀



Detection problems may occur in these situations:

1. The system can only detect a vehicle that has fully entered the driver's lane, so detection may be delayed if the vehicle ahead slowly enters the driver's lane.
2. If a large truck or lorry is ahead of this vehicle, the time of detecting other vehicle may be delayed.
3. Detection problems may occur when entering or exiting a curve.

Under such circumstances, the driver should remain alert, take emergency measures, and temporarily deactivate the ACC if necessary.

Lane Departure Warning (LDW)*

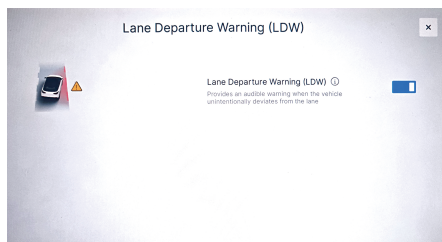
 The system is a driver assistance tool and does not replace careful driving or human judgment. Drivers must remain alert at all times. This function can be configured on the multimedia display. ◀

 The lane departure warning function becomes ready for activation when the speed rises above 60 km/h and deactivates when the speed drops below 55 km/h. ◀

When the front camera detects an unintentional lane departure, the system alerts the driver to stay within the lane. The system automatically detects lane markings using a camera mounted behind the interior rearview mirror.

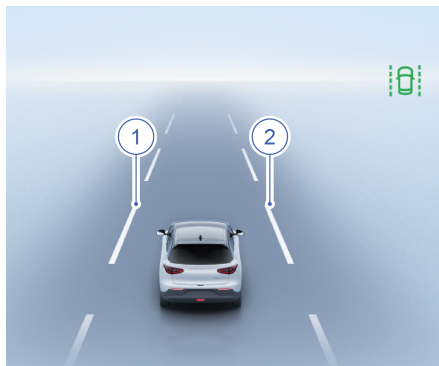
The lane departure warning can alert the driver using any combination of visual and auditory warnings.

Setting Interface



On the multimedia display, go to **Vehicle Settings** → **ADAS** → **Safety Settings** → **Lane Departure Warning (LDW)**, then enable or disable the lane departure warning function from this interface.

Warning Interface

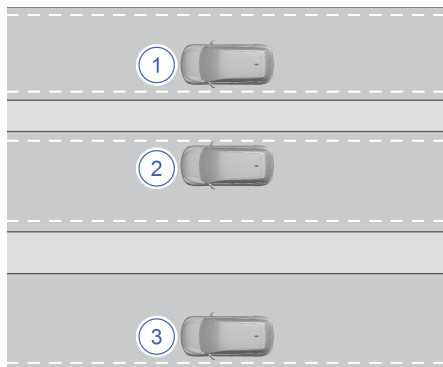


When the LDW detects that the vehicle is drifting out of its lane, a warning will be triggered on the meter instrument.

Lane marking 1 : indicates that the LDW has detected that lane. If the lane is not detected, the lane marking will not be displayed.

Lane marking 2 : is displayed in white to show that the LDW has detected the lane and the vehicle remains in its lane. When the vehicle approaches or drifts toward lane marking 2, the marking changes to red.

Warning Conditions



When the system detects any of the following conditions, it will trigger a warning, including a visual warning and a warning sound, to alert the driver.

1. When driving near the left lane edge, there is a risk of unintentional lane departure, meaning the vehicle may drift out of the lane and the turn signal is not activated. In such cases, the system will trigger a left-side warning to alert the driver and promote safe driving.
2. When driving near the right lane edge, there is a risk of unintentional lane departure, meaning the vehicle may drift out of the lane and the turn signal is not activated. In such cases, the system will trigger a right-side warning to alert the driver and promote safe driving.
3. When driving near the lane edge, if only one lane marking is detected and the turn signal is not activated, the system will trigger a warning only for the side where the lane marking is detected.

Warning Suppression

After a warning is triggered, if the wheel on the side where the warning occurred remains within the alert zone, subsequent warnings will be suppressed (paused). Warnings can also be suppressed (paused) by the following actions: the end of the previous warning, activation of the hazard warning lights (hazard flashers), emergency braking, activation of AEB or ESC, excessive steering wheel angle, a very high steering wheel rotation rate, or use of the turn signal.

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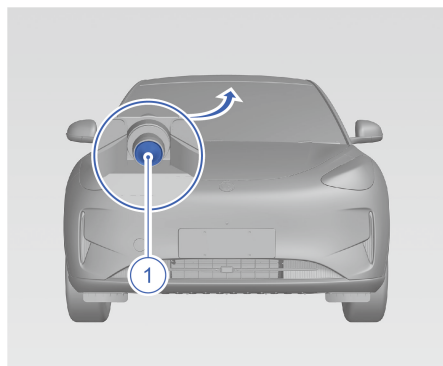
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Autonomous Emergency Braking (AEB)*

The autonomous emergency braking system monitors the distance and relative speed of objects ahead. If the driver brakes too late, applies insufficient braking force, or takes no action, the system will trigger warnings and automatically apply braking to help avoid or reduce the severity of a collision.



The sensors used by the Autonomous Emergency Braking (AEB) system include:

1. Front camera

 No automatic system can guarantee full performance in every situation. Do not attempt to test the AEB by driving toward people or objects, as this could lead to an accident causing serious injury or death. ◀

 This system only provides support and cannot detect all pedestrians, cyclists, or vehicles in every situation. The driver remains fully responsible for safe driving and must always maintain a safe following distance. ◀

 The system can only provide warnings and braking assistance. Thus, the driver needs to remain vigilant at all times and is always responsible for safe operation of the vehicle. Please comply with existing laws and traffic regulations. ◀

 For safety reasons, the system will not operate if the driver's seat belt is not fastened. ◀

 The AEB system usually operates in the background and is not noticed by the driver. When the system detects a hazard, the AEB system provides a warning or applies the brakes to protect the occupants. Due to system performance limitations, false activations may occur, so the driver must always remain attentive to their surroundings. ◀

 Note that the front camera may not be able to detect dangerous obstacles ahead in all situations. Poor weather conditions such as rain, snow, or fog can reduce the performance of the system. In such cases, some obstacles may not be detected, or may be detected too late. ◀

 The AEB system does not respond to animals, small vehicles (such as tricycles), vehicles with irregular shapes, pedestrians, cyclists, or vehicles traveling in the opposite direction or crossing the lane. ◀

 For safety reasons, the operation of the AEB system relies on the support of the Electronic Stability Control (ESC) system. If the driver disables the ESC system, the AEB system will be deactivated. ◀

 Keep the outer surface of the camera clean. A dirty camera can decrease the AEB system performance and, in severe cases, cause the AEB system to malfunction. ◀

 The AEB system may apply the brakes unnecessarily in challenging driving conditions. Examples include construction sites, railway crossings, road manhole covers, underground garages, or when water spray or splashes appear in front of the vehicle. ◀

 For obstacles recognized by the AEB system, performance may vary depending on the type of vehicle, pedestrian, cyclist, surrounding environment, and road conditions. The system may not always provide consistent performance. ◀

 Do not press the accelerator pedal or turn the steering wheel during automatic emergency braking. Otherwise, the AEB system stops applying the brakes. A collision can still occur. ◀

 The driver must apply more force to the brake pedal during automatic emergency braking of AEB. ◀

 Strong sunlight, reflected light, and extreme light contrasts can make it difficult for the driver to see visual warnings and can reduce the detection performance of the front camera. ◀

 The front camera of the AEB system has a limited view. In some cases, the AEB system may detect vehicles,

pedestrians, or cyclists late, or may not detect them at all. ◀

 Keep the area around the front camera clean to ensure proper system operation. Do not place or attach any objects in front of or near the front camera. Otherwise, the AEB system stops working properly. ◀

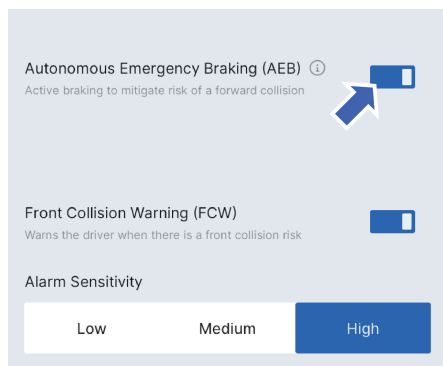
 The effectiveness of AEB may decrease, or the system may not function, if the front camera is blocked or its view is restricted. ◀

 The braking distance is longer on wet roads, which reduces the anti-collision effectiveness of the AEB. ◀

 If the interior temperature becomes too high, the front camera may temporarily shut down, preventing the system from triggering a warning. ◀

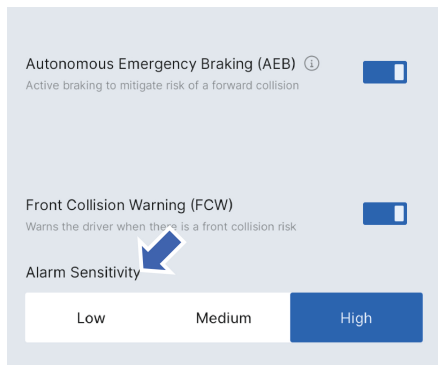
 The AEB system does not work at low speeds. At low speeds, the system does not apply the brakes when the vehicle is approaching another vehicle or a pedestrian, for example during parking. ◀

Enabling and Disabling Autonomous Emergency Braking (AEB) Function



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Pre-collision Assist → Autonomous Emergency Braking (AEB), then enable or disable the autonomous emergency braking function in this interface. The Autonomous Emergency Braking (AEB) system is a safety feature that is automatically enabled every time the vehicle is started. Once the system is activated, the warning function can be turned on, and the desired sensitivity can be selected. The selected sensitivity is memorized, so the driver does not need to adjust it each time they enter the vehicle.



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Pre-collision Assist → Alarm Sensitivity, then set the alarm sensitivity in this interface.

The alarm sensitivity of the AEB system is divided into three levels: low, medium, and high.

Warning distance refers to the distance between this vehicle and a potential hazard at which the system triggers a warning.

- At the low sensitivity level, the warning is triggered at a short distance and relatively late.
- At the medium level, the warning is triggered at a moderate distance and timing between early and late.
- At the high level, the warning is triggered at a long distance and relatively early.

If the warnings trigger too frequently, the driver can select a later warning trigger.

The system assists the driver in the following ways when it detects a potential danger:

- **Safety Distance Warning**

The safety distance warning function is active in non-emergency situations. The safety distance warning function alerts the driver when the distance to the vehicle ahead becomes relatively close while the vehicle speed is 65 km/h or above. At this time, the driver should adjust driving behavior and maintain a safe distance from the vehicle ahead.

- **Forward Collision Warning (FCW)**

When the vehicle speed is 30 km/h or more, the system detects a possible risk of collision and alerts the driver with alarm sounds and a visual warning on the meter instrument.

- **Dynamic Braking Support**

When the vehicle speed is 30 km/h or more and the applied braking force is not sufficient in a dangerous situation, the system automatically increases the braking force to avoid or reduce a collision.

- **Automatic Emergency Braking**

If the driver does not brake effectively in a dangerous situation, the system automatically applies emergency braking to avoid or reduce a collision. The automatic emergency braking system can decrease the vehicle speed by up to 60 km/h.

Activation of Autonomous Braking (AEB) of Emergency Function



Brake!

When the AEB system is triggered, the meter instrument shows a visual and text warning with an alarm sound.

Automatic Emergency Braking for Pedestrian



Brake!

The Automatic Emergency Braking for Pedestrians helps to avoid or reduce collisions with pedestrians. It mainly operates when pedestrians cross the lane of the vehicle.

The pedestrian pre-warning function will alert the driver to react in time through sound and visual warning on the meter

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instrument when a collision risk is detected, reducing the risk of collision.

The Automatic Emergency Braking for Pedestrians function operates at speeds between 4 km/h and 85 km/h.

When the Automatic Emergency Braking for Pedestrians is triggered, the meter instrument shows a visual and text warning with an alarm sound.

Automatic Emergency Braking for Two-Wheeled Vehicles

The Automatic Emergency Braking for Two-Wheeled Vehicles helps to avoid or reduce collisions with two-wheeled vehicles that cross the lane of the vehicle.

The Automatic Emergency Braking for Two-Wheeled Vehicles includes these functions:

- **Two-Wheeled Vehicle Pre-Warning:** When the system detects a collision risk with a two-wheeled vehicle ahead, it gives an audible and visual warning to alert the driver.
- **Automatic Emergency Braking – Partial Braking:** If there is a possible collision with a two-wheeled vehicle and the driver does not respond, the system automatically applies partial braking.
- **Automatic Emergency Braking – Full Braking:** If there is a collision risk with a two-wheeled vehicle and the driver does not respond, the system automatically applies full braking.

The Automatic Emergency Braking for Two-Wheeled Vehicles function operates at speeds from 4 km/h to 85 km/h.

When the Automatic Emergency Braking for Two-Wheeled Vehicles is triggered, the

meter instrument shows a visual and text warning with an alarm sound.



Brake!

Obstacle Detection

The Autonomous Emergency Braking (AEB) can detect obstacles such as passenger cars, trucks, buses, pedestrians, and cyclists. The function operates at speeds from 4 km/h to 150 km/h.

Vehicles

The Autonomous Emergency Braking (AEB) can detect most vehicles that are stationary or moving in the same direction as the vehicle.

At night, the system can detect vehicles within a certain range only when the front combination lights are on.

Pedestrians

The AEB system works best when it detects clear information about the shape of pedestrians. It uses normal human movement patterns to identify body parts such as the head, arms, shoulders, thighs, upper body, and lower body.

The AEB system can detect pedestrians when they contrast with the background. For

example, when the color of the pedestrian's clothing is different from the color of the surroundings.

If the contrast is low, the AEB system may detect pedestrians late or not detect them at all.

The AEB system may not detect a pedestrian if the pedestrian is partially blocked, wears clothing that hides the body shape, is shorter than 0.8 meters in height, or carries a large object. In this condition, the system does not apply braking.

Cyclists

The AEB system works best when the cyclist is an adult and the bicycle is designed for adults. The system detects clear information about the shape of the cyclist and bicycle. It uses normal human movement patterns to identify the bicycle and body parts such as the head, arms, shoulders, thighs, upper body, and lower body.

If the cyclist is partially blocked, the background contrast is low, or the bicycle carries a large load, the AEB system may not detect the cyclist. In this case, the system does not apply braking.

Deactivation and Fault

When the AEB system is turned off, the AEB OFF indicator on the meter instrument lights up.

When the AEB system malfunctions, the AEB fault warning light on the meter instrument lights up.

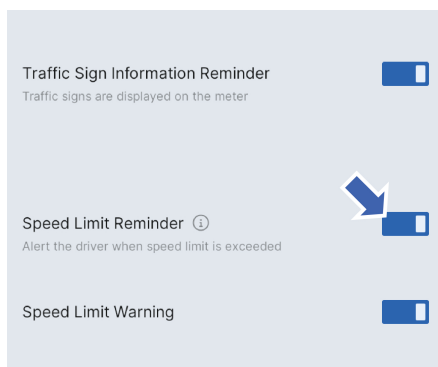
Traffic Sign Identification (TSI)*

The Traffic Sign Identification (TSI) uses the front camera to detect road signs such as speed limits and no-entry or restriction signs. It shows the current road sign information on the meter instrument in real time. If the vehicle exceeds the speed limit, the system gives a timely alert to help the driver drive properly.



When the vehicle is powered on, the Traffic Sign Detection system performs a self-check. The system is not active during this stage. ◀

Speed Limit Reminder



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Intelligent Reminders. In the Intelligent Reminders interface, enable or disable the Speed Limit Reminder.

Display of Speed Limit Sign

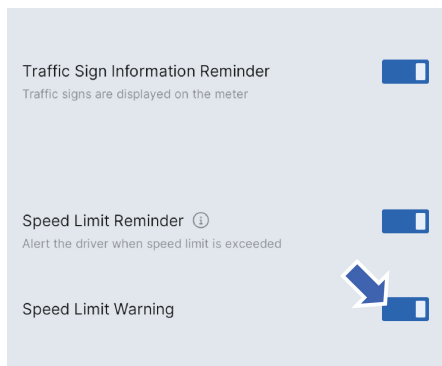
After passing a speed limit sign, the meter instrument starts showing the speed limit value. The display turns off after the vehicle travels a certain distance.



 If a traffic speed limit sign is unclear, distorted, tilted, irregular, partially blocked, or covered, the front camera may have difficulty recognizing it. This may cause misidentification or failure to identify the sign. ◀

 Non-standard signs or signs in unusual positions may be mistaken for speed limit signs, causing misidentification. ◀

Speed Limit Warning



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Intelligent Reminders. In the

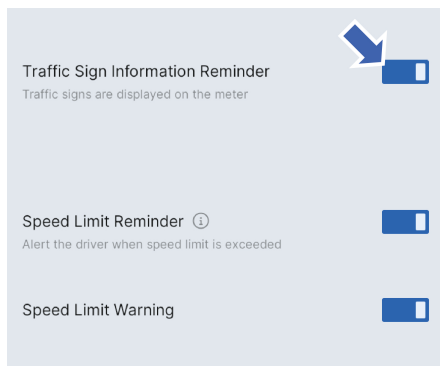
Intelligent Reminders interface, enable or disable the Speed Limit Warning function.

After turning on the Speed Limit Warning function, when the vehicle speed exceeds the traffic speed limit by more than 5 km/h, the system triggers a warning: the speed limit icon on the meter instrument flashes three times and a beep sounds. If the Speed Limit Warning function is off, the overspeed warning only flashes the speed limit icon on the meter instrument three times.



The Speed Limit Warning function only reminds the driver of the speed limit. The driver must actively control the vehicle speed. ◀

Traffic Sign Information Reminder



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Intelligent Reminders. In the Intelligent Reminders interface, enable or disable the Traffic Sign Information Reminder function.



Currently, this function can only recognize and display certain road sign information on the meter instrument to assist the driver. Recognizable road signs include: No Overtaking, End of No Overtaking, Children Crossing, and others.



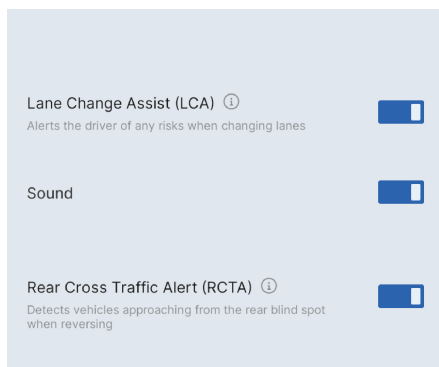
- The TSI detection function is affected by the field of view of the front camera, the relative position of the front camera and the speed limit sign, and other factors. Traffic signs may be misidentified or not detected. Do not rely on this function to control driving.
- If a traffic speed limit sign is unclear, distorted, tilted, irregular, partially blocked, or covered, the recognition of the front camera will degrade. This may cause misidentification or failure to identify the sign.
- When vehicle positioning is affected, the system may display supplementary traffic signs while driving on the main road.
- Non-standard signs or signs in unusual positions may be mistaken for traffic signs, causing misidentification. ◀

Rear Side Radar System (RSRS)

The RSRS uses medium-range radar on both sides of the rear bumper to detect vehicles and obstacles in the rear-side area. It provides Lane Change Assist (LCA) with Blind Spot Detection (BSD), Rear Collision Warning (RCW), Door Opening Warning (DOW), and Rear Cross Traffic Alert (RCTA).



When the vehicle is powered on, the Rear Side Radar System (RSRS) performs a self-check. The system is not active during this stage. ◀



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Rear Side Radar System (RSRS).

In this interface, enable or disable the functions as needed. The settings of all function switches remain unchanged (as previously set)

The system alerts the driver to driving safety using the blind spot detection indicator on the exterior rearview mirror (side mirror), blind spot detection indicator on the meter

instrument, audible warnings, and flashing hazard lights.

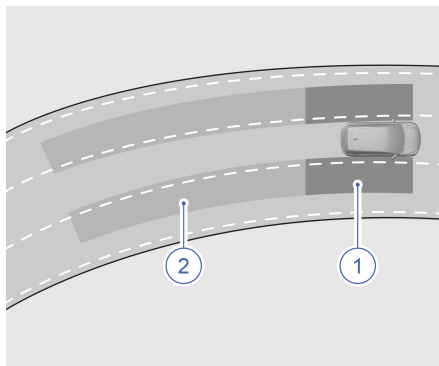
When the vehicle is powered on, the Blind Spot Detection status indicator on the meter instrument lights green, indicating the system is working normally. If the status indicator lights red, the system has a malfunction.



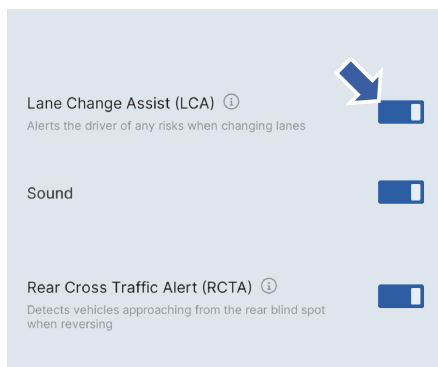
- Keep both sides of the rear bumper clean.
- This system assists the driver and does not replace safe driving.
- Do not remove or replace the rear side medium-range radars. ◀

Lane Change Assist (LCA)

The Lane Change Assist (LCA) function monitors the blind spot and rear area for fast-approaching vehicles. This function assists and alerts the driver to vehicles in these areas, especially when turning or changing lanes. The function operates at speeds from 15 to 150 km/h.

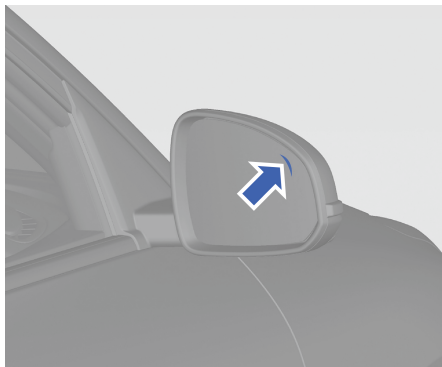


1. Blind spot area
2. Area with fast-approaching vehicles



When a vehicle or obstacle is detected in the blind spot or is approaching quickly from behind, the Blind Spot Detection indicator on the exterior rearview mirror (side mirror) lights or flashes. If the indicator and sound

warning functions are enabled in the multimedia display, the system also provides a sound warning.



In some situations, the Lane Change Assist (LCA) function may not be able to assist the driver. Possible cases include:

- Bad weather, such as rain or snow.
- Smaller targets, such as pedestrians or bicycles.
- Stationary targets, such as vehicles or pedestrians.
- Driving on sharp bends or slopes.

Rear Collision Warning (RCW)

The Rear Collision Warning (RCW) function monitors vehicles behind the vehicle. If a fast-approaching vehicle is detected, the hazard warning lights turn on to alert the rear vehicle to slow down or maintain a safe distance.



The Rear Collision Warning (RCW) function operates in Neutral (N), Park (P), and Drive (D) gear positions, and when the vehicle does not roll backward.

The system detects the following types of rear-approaching targets:

- Four-wheeled vehicles
- Two-wheeled vehicles (detection performance not guaranteed)

In some situations, the Rear Collision Warning function may not provide assistance. Possible cases include:

- The rear vehicle changes lanes suddenly at the last moment.
- Rear-approaching vehicles may not be detected in time on sharp bends or slopes.

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- The relative speed between the rear vehicle and own vehicle is above 72 km/h or below 10 km/h.



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Rear Side Radar System (RSRS).

Then enable or disable the Rear Collision Warning (RCW) function in this interface.

 The Rear Collision Warning (RCW) function cannot prevent collisions. The driver should pay attention to the warnings and take appropriate actions to drive safely. ◀

Door Opening Warning (DOW)

When the vehicle is stationary or moving at low speed, the rear side medium-range radar detects approaching vehicles or objects from the rear and side areas. If there is a potential collision risk when opening a door, the Blind Spot Detection indicator on the exterior rearview mirror (side mirror) turns on or flashes, and a sound warning is given to alert the driver.

The Door Opening Warning (DOW) function primarily detects the following vehicles or objects:

- Four-wheeled vehicles
- Two-wheeled vehicles
- Moving pedestrians (detection performance not guaranteed)



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Rear Side Radar System (RSRS).

Then enable or disable the Door Opening Warning (DOW) function in this interface.

The Door Opening Warning (DOW) function may not work in some situations.

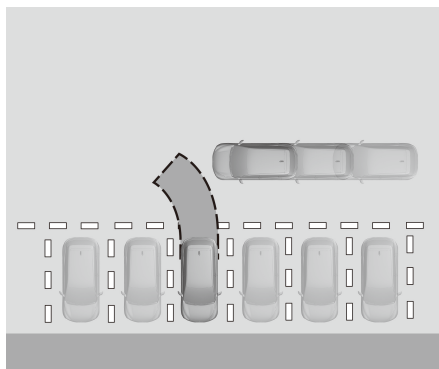
Possible cases include:

- The relative speed between the rear vehicle and the driven vehicle is too high or too low.
- Bad weather, such as rain or snow.
- The relative speed between the rear vehicle and your vehicle is too high or too low for the system to detect reliably.
- The rear vehicle approaches after changing lanes from another lane.
- On sharp turns, ramps, and similar scenarios.
- Smaller objects, such as pedestrians or bicycles.
- Stationary or slow-moving targets.

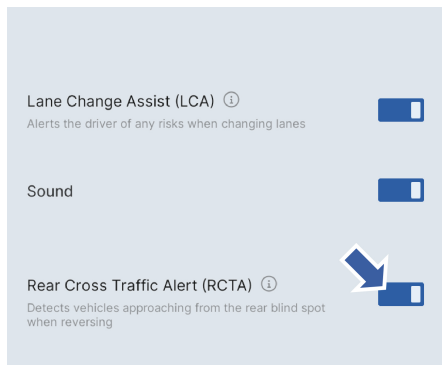
 The Door Opening Warning (DOW) function stops operating when the vehicle has been powered off for 3 minutes, or when the vehicle is locked and powered off. ◀

Rear Cross Traffic Alert (RCTA)

The Rear Cross Traffic Alert (RCTA) function uses the rear side medium-range radar to monitor approaching vehicles or objects. If a potential collision risk is detected with rear vehicles, motorcycles, bicycles, pedestrians, or other moving objects, the Blind Spot Detection indicator on the corresponding exterior rearview mirror (side mirror) turns on or flashes, and the driver is alerted through sound and the vehicle interface.



This Rear Cross Traffic Alert (RCTA) function operates during low-speed reversing in Reverse (R) gear. If a potential collision is detected, it warns the driver through sound, indicator lights, and the vehicle interface that a rear-crossing vehicle may collide with the vehicle, prompting the driver to respond in time.



Click the following on the multimedia display in sequence:

Vehicle Settings → ADAS → Safety Settings → Rear Side Radar System (RSRS).

Then enable or disable the Rear Cross Traffic Alert (RCTA) function in this interface.



Rear Cross Traffic Alert (RCTA) is a driver assistance function. The warning timing is affected by factors such as vehicle speed, obstacle type, distance to obstacles, driving environment, and system response delay. As a result, warnings may be delayed, missed, or incorrect. This function cannot replace the driver's control and judgment. ◀

Park Assist System*

The Park Assist System helps the driver avoid hitting objects while parking.

Rear Parking Radar

The Park Assist System uses radar sensors in the middle of the rear bumper to detect obstacles up to 1.5 m behind the vehicle.

 The Park Assist System cannot replace visual observation by the driver.

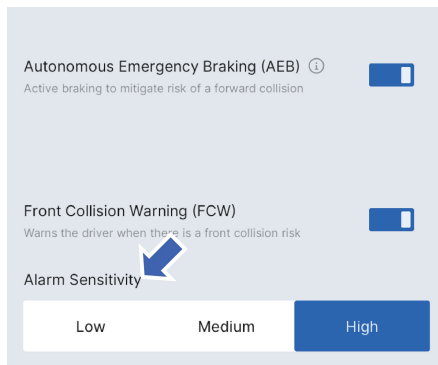
- The Park Assist System cannot detect objects below the bumper or vehicle, or objects that are too close or too far from the vehicle.
- The Park Assist System may not detect children, pedestrians, cyclists, or pets.
- The Park Assist System cannot detect small objects.
- Failure to pay attention to the surroundings while parking may cause serious injury or property damage. Even with a Park Assist System, the driver must carefully check for obstacles before parking. ◀

Alarm Sensitivity

Click the following on the multimedia display in sequence:

Vehicle Settings → **ADAS** → **Autonomous Emergency Braking (AEB)**, then select Alarm Sensitivity in this interface.

Three sensitivity levels are available: Low, Medium, and High.



How the System Operates

When the Park Assist System is active and detects obstacles, the multimedia screen displays the results using color blocks and a beep sound. The beep rate increases as the vehicle gets closer to the obstacles. If an obstacle is within 30 cm, a continuous beep sounds and the message “Please stop the vehicle” appears on the multimedia screen.

 Environmental factors may reduce the detection performance of Park Assist System radar sensors in hot, extremely cold, or humid conditions. ◀

When the System Does Not Operate Normally

The radar sensor of the Park Assist System may not provide a warning or may give incorrect warnings under the following conditions:

Situations in which obstacles may not be detected:

- Net-shaped objects, such as iron wires, mooring ropes, or nets.
- Low barriers, such as stones or wood blocks.
- Vehicles with high chassis.
- Soft objects, such as snow, cotton, or sponge, which easily absorb ultrasonic waves.
- Obstacles with special shapes, such as pillars, trees, bicycles, angle steel, cornerstones, or corrugated paper.

Situations in which false warning may occur:

- The surface of the park assist system sensor is covered with ice.
- The vehicle is on a steep slope.
- There are high-frequency radios or antennas installed on the vehicle or in use nearby.
- The sound of vehicle horns, engine roars, vehicle exhaust noises, etc., are too close to the park assist system sensor.
- Driving in snow or rain.



- The Park Assist System sensor can detect only the closest obstacle when multiple obstacles are present. When the vehicle is moving, monitor whether the sensor on the other side detects additional obstacles.
- The Park Assist System radar can display only the closest barrier when multiple barriers are behind the vehicle. Pay attention to situations where multiple obstacles may be detected while the vehicle moves.
- Do not spray high-pressure water directly on the Park Assist System sensor, and do not press, hit, or impact the sensor surface in any other way. Doing so may cause a malfunction. ◀

If the system does not provide a warning when the vehicle approaches an obstacle, and the cause is not any of the situations listed above, contact an authorised PROTON e.MAS service outlet for maintenance.

360 Camera*

The 360° Camera System displays images captured by the cameras on the multimedia display, allowing the driver to monitor the front, rear, left, and right sides of the vehicle in real time, assisting the driver with parking.

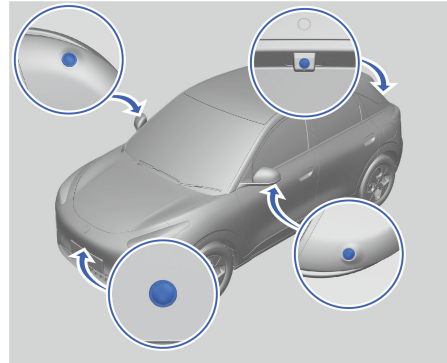


- When using the 360 Camera, pay attention to the vehicle surroundings. The system is intended to assist the driver and should not be relied upon as the sole means of monitoring the surroundings.
- Camera performance may be affected by environmental factors, such as fog, rain, snow, night, or other low-visibility conditions. Use the system carefully in these situations to ensure safety.
- The system has blind spots and may not detect all obstacles around the vehicle.



The 360 Camera uses wide-angle fisheye cameras. The imaging is bowl-shaped. The images from different cameras are stitched together, which may cause stretching or distortion where the images meet, and objects near the edges of the stitched images may appear overlapped. ◀

Location of Cameras



The 360 Camera has cameras positioned around the vehicle body.

Accessing the 360 Camera Interface

The 360 Camera interface can be accessed by one of the following methods:

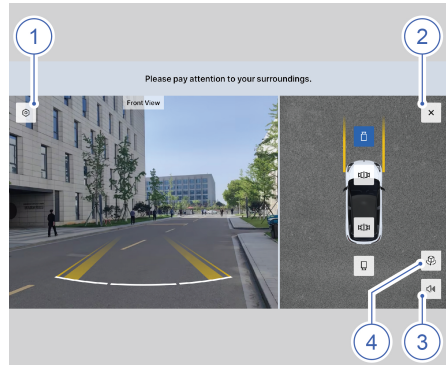
- If the Steering-Linked function is enabled in the 360 Camera Settings Interface, the gear shift lever is in a position other than Reverse (R), and the navigation function is not active, operate the turn signal lever.
- Click the 360 Camera app icon on the multimedia screen.
- Use a voice command, such as “Hi e.MAS, turn on 360 Camera.”
- Move the gear shift lever to R (Reverse) to automatically enter the 360 Camera interface.
- If the Uphill Hold Control function is enabled in the 360 Camera Settings Interface, the 360 Camera will automatically turn on after the vehicle moves uphill at a low speed (less than 30 km/h) for a certain period.

i The 360 Camera will only activate in the above ways when the vehicle speed is less than 30 km/h. ◀

Exiting the 360 Camera Interface

- Touch the Return icon on the 360 Camera interface on the multimedia screen.
- Move the gear shift lever from R (Reverse), N (Neutral), or D (Drive) to P (Park), or press the P button to shift the current gear to P (Park). If no operation occurs within 5 seconds, the 360 Camera interface closes.
- Activate the 360 Camera by shifting into Reverse (R); the interface closes if the gear is not in R (Reverse) and vehicle speed exceeds 15 km/h.
- Activate the 360 Camera via the turn signal lever; if no other operation occurs (excluding upward/downward toggling of the turn signal lever), the interface closes when the turn signal lever returns to its original position.
- Enter the 360 Camera through other operations (not shifting into Reverse (R)); the interface closes when the gear is not in R (Reverse) and vehicle speed exceeds 30 km/h.
- Trigger the 360 Camera using the Uphill Hold Control function; the interface closes after driving on a flat road for a certain period.

Setting Interface



1. Settings
Set the Transparent View, Steering Linkage, 3D Surround View, and Hill Hold Assist.
2. Close
Click to exit the 360 Camera Interface.
3. Sensor alarm sound
Click to turn the sensor alarm sound on or off.
4. 2D/3D view
Click to switch between the 2D view and the 3D view.

i In addition to the icons for the above functions, touch the camera icons around the vehicle model in the 360 Camera interface to quickly change the viewpoints of the image . ◀

Reverse Camera System

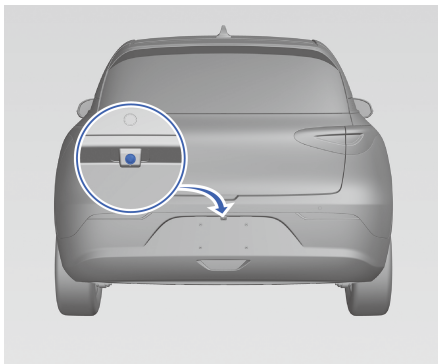
The reverse camera system helps the driver reverse by displaying the view behind the vehicle.



The driver must carefully check the surroundings for obstacles before reversing to avoid personal injury or property damage. The reverse camera system cannot replace the driver's visual checks. Do not rely solely on the system when reversing.

- The distance shown on the multimedia display may differ from the actual distance.
- The reverse camera could not detect obstacles outside its visible range, such as obstacles below the bumper or under the vehicle.
- The reverse camera may not detect children, pedestrians, cyclists, or pets.
- Avoid using the reverse camera system when reversing at high speed, on long driveways or ramps, or in areas with crossing traffic. ◀

Position of Reverse Camera



The reverse camera is mounted on the rear license plate. The camera captures a limited range and cannot detect obstacles near the corners or under the bumper. The displayed image changes with vehicle direction or road conditions. The distance shown on the screen differs from the actual distance.

Reversing Assist Line

The reversing assist lines are dynamic trajectory lines that change direction according to the steering wheel angle. While reversing, the lines overlay the road behind the vehicle and move left or right as the steering wheel turns. The lines indicate the actual vehicle trajectory, helping the driver plan the reversing path.

- Press the trajectory line icon to turn the trajectory line function on or off.
- When the trajectory lines are on, the icon highlights. When the trajectory lines are off, the icon remains operable but not highlighted.

Turning On/Off the System

When the gear shift lever shifts into R (Reverse), the reverse imaging interface activates:

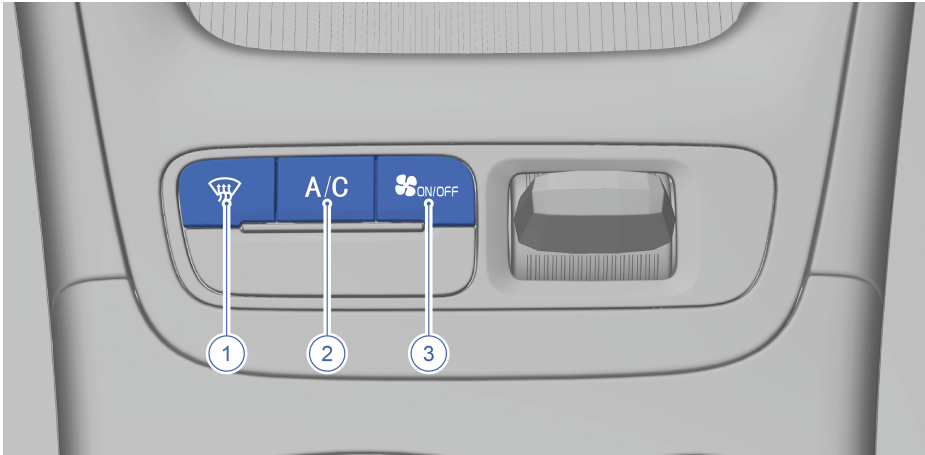
- When the gear shift lever shifts into R (Reverse), the reverse camera system activates, and the camera image automatically displays on the multimedia screen.
- When the gear shift lever moves out of R (Reverse), the reverse camera system deactivates, and the multimedia screen returns to the previously displayed interface.

Connection Interruption to Reverse Camera

When the connection to the reverse camera interrupts, a pop-up appears on the multimedia screen, indicating that reverse imaging is restricted. Contact an authorised PROTON e.MAS service outlet immediately.

Front Air Conditioning (A/C) Control System

Front A/C Control Panel – Centre Console



A/C Control Panel – Multimedia Display



- | | | | |
|----|---------------------------------------|-----|---|
| 1. | Front windshield defrost/defog button | 7. | Air outlet mode – window blowing button |
| 2. | A/C button | 8. | Air outlet mode – foot blowing button |
| 3. | A/C on/off button | 9. | Air outlet mode – face blowing button |
| 4. | Temperature adjustment button | 10. | A/C MAX button |
| 5. | Blower adjustment button | 11. | Internal and external air circulation switch button |
| 6. | Setting button | 12. | Rear windshield defrost/defog button |



On the A/C control panel in the multimedia display, you can operate the air outlet mode buttons for window blowing, face blowing, and foot blowing individually or in combination as needed. ◀

Description of Front A/C Control System Button

1. Front windshield defrost/defog button

To quickly remove fog or frost from the windshield, direct airflow to the windshield. For best results, remove all ice and snow from the windshield before defogging. While defogging, adjusting the blower changes the airflow, and the air outlet mode stays in defrosting mode.

When you use the front windshield defrost/defog function, the A/C and exterior air circulation turn on automatically. The blower sets to level 6 if it is below level 6. To maintain defrosting/defogging, do not turn off the A/C.

2. A/C button

Press the A/C button to turn on the cooling system; the A/C indicator light turns on. Press it again to turn off the cooling system and the indicator light.

When the A/C is off, press the A/C button to turn the A/C on.

3. A/C on/off button

Press the A/C on/off button to turn the A/C on or off.

4. A/C temperature adjustment button

In the temperature control area, slide upward to raise the temperature and slide downward to lower it. Each adjustment changes the temperature by 1 °C within a range of 17 °C to 32 °C. Setting the temperature to 32 °C activates full heating mode with no cooling, while setting it to 17 °C

activates full cooling mode with no heating.

5. A/C blower adjustment button

Click the A/C blower bar to adjust the blower to your preferred level.

6. Setting button

Click the setting button to configure the self-drying A/C, active cabin cleaning, A/C pop-up, and A/C screen time-out in the menu.

7. Air outlet mode – window blowing button

Click this button to select the air outlet mode as window blowing mode.

8. Air outlet mode – foot blowing button

Click this button to select the air outlet mode as foot blowing mode.

9. Air outlet mode – face blowing button

Click this button to select the air outlet mode as face blowing mode.

10. A/C MAX button

Click this button to turn on both the A/C and internal air circulation functions. The indicator light will illuminate, enabling quick cooling.

11. Internal and external air circulation switch button

Press this button to manually switch between external air circulation (fresh air) and internal air circulation.

When the air conditioner is off, press the internal and external air circulation switch button to change between internal and external air circulation. The A/C will stay off.

12. Rear windshield defrost/defog button

When the vehicle power is ON or the vehicle is started, press this button to turn the rear windshield defrost/defog

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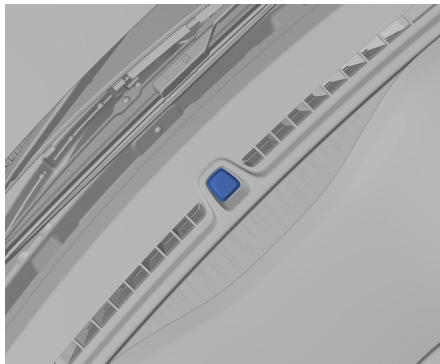
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function on or off. The indicator light illuminates when the function is on. Press the button again to turn the function off.



- If the A/C performance is lower than expected, check for dirt or insect accumulation on the radiator surface (located in the front cooling module). Visit an authorised PROTON e.MAS service outlet for cleaning.
- Placing a shield in front of the bonnet reduces airflow into the radiator, which lowers A/C performance.
- Do not let leaves or other debris block the air inlet.
- It is normal to hear a sound from the blower inside the vehicle after locking it. This sound lasts about one minute as the A/C blows moisture from the evaporator and air ducts to prevent odors. ◀

Ambient Light Sensor*



This sensor controls the automatic lighting inside the vehicle, turning it on and off as needed.



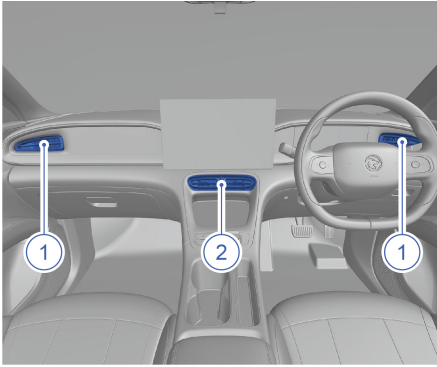
Keep the sensor clean and avoid placing foreign objects, such as labels, on it. Otherwise, the automatic lighting may not work properly. ◀



Do not apply privacy films or high opacity films to the front windshield, as they may reduce light transmittance below regulatory standards, impairing visibility and driving safety. Such films can also block the ambient light sensor on the instrument panel, causing the automatic low-beam headlights to operate abnormally for example, activating too early or turning off late. The more light the film blocks, the greater the impact, which can compromise the performance and user experience of the automatic lighting system. ◀

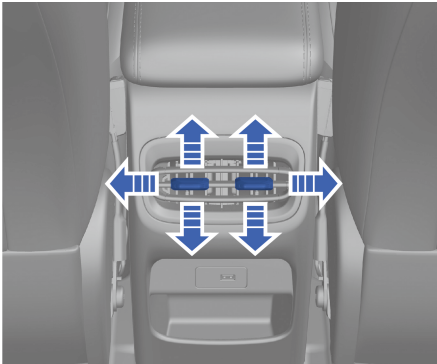
Adjustment of Air Outlets

Front Air Outlet



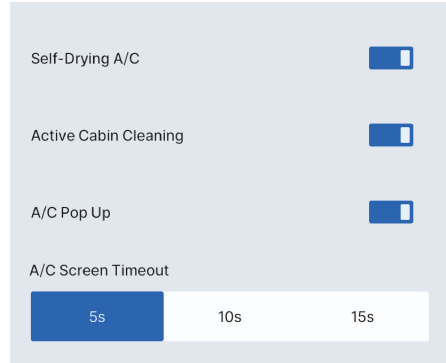
1. Side air outlet
2. Central air outlet

Rear Air Outlet



Adjust the wind direction by moving the air outlet grille up, down, left, or right. You can close the air outlet by adjusting its blades.

A/C Settings



On the multimedia display, click A/C → Settings, then enable or disable the Self-drying A/C (After Locking) function and the Active Cabin Cleaning function. You can also configure the A/C Pop Up menu and the A/C Screen Timeout.

A/C Self-drying (After Locking)

When the A/C Self-drying (After Locking) function is turned on, the air conditioner automatically operates the blower after the vehicle is locked, provided specific conditions are met. This helps dry moisture from the evaporator and A/C ducts, reducing the risk of unpleasant odors caused by humidity and mildew.

Active Cabin Cleaning

When enabled, the A/C automatically operates the blower to remove odors from the A/C ducts during the period between unlocking the vehicle and opening the door, provided specific conditions are met.

A/C Pop Up

When enabled, a shortcut to the A/C controls appears in the DOCK bar.

A/C Screen Timeout

Set the duration (5 s, 10 s, or 15 s) after which the A/C interface automatically closes when inactive.

Charging Precautions



Observe the following precautions to prevent high-voltage electric shock or serious injury:

- The vehicle charging port generally does not carry high voltage when not charging, but it has a detection function. To prevent accidental electric shock, never insert fingers, metal objects, or other conductive materials into the charging port.
- If you have an implanted cardiac pacemaker or cardiovascular defibrillator, do not remain in or enter the vehicle while it is charging. This may interfere with your medical device and result in serious injury or death.
- Before charging the vehicle, check the charging socket for water, foreign objects, or any other factors that may affect charging. If found, clean the socket before starting to charge.
- Before charging, check the charging cable. Do not use it if the surface or housing is damaged, including cracks, exposed wires, or broken connectors.
- Do not remove or modify the charging equipment or related ports without authorization.
- Do not allow children to charge the vehicle under any circumstances.
- In case of sudden weather changes, such as strong wind, rain, snow, or thunderstorms, ensure the charging plug is secure and dry. Avoid touching the charging cable or vehicle body during a lightning storm.
- If moisture is present near the charging port during charging, first disconnect the power supply to ensure safety. Next, disconnect the plug on the power supply side, taking care not to touch the metal parts with your hands or body. Then remove the plug from the vehicle side. Use insulating gloves if necessary, and contact an authorised PROTON e.MAS service outlet for inspection immediately.
- If an unusual odour comes from the vehicle during charging, stop charging immediately.
- Do not bend, twist, or squeeze the charging cable while charging.
- Do not disconnect the charging cable until the charging process is complete.
- After charging, do not disconnect the charging device if your hands are wet or if you are standing on a wet surface.
- Ensure the charging device is fully disconnected from the vehicle charging port before driving. ◀



It is recommended to fully charge the power battery at least once a week or promptly when the full charge reminder appears. This helps ensure the vehicle accurately displays the remaining battery power. ◀

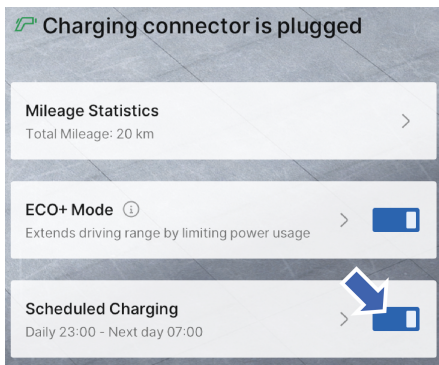
Charging Operation

 Use only the specified AC/DC charging equipment. Using other equipment may cause malfunction or fire, resulting in injury or death. ◀

 Charge or stop charging strictly according to the operating procedures of the AC/DC charging equipment. Do not plug in or unplug the AC/DC charging equipment freely during charging. ◀

Charging Settings

Scheduled charging



Click the following on the multimedia display in sequence:

Energy Centre → **Scheduled Charging**, set the charging time on the scheduled charging interface, and start charging at the preset time.

Scheduling charging during off-peak hours can help reduce electricity costs.

Wall-mounted AC Charging

 When the ambient temperature is too high or too low, charging may take

longer. This is normal. The charging system automatically adjusts the charging time according to the temperature to ensure optimal performance of the power battery. ◀

Steps

Insert the charging cable into the AC charging port of the vehicle and follow the instructions on the charging station to begin charging.

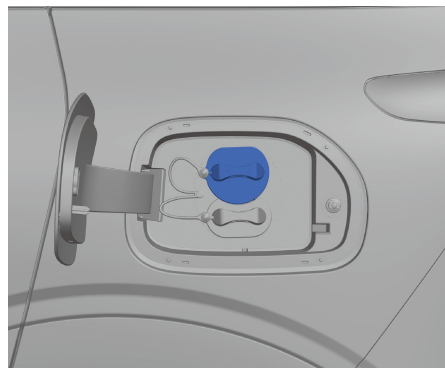
 For instructions on using the wall-mounted AC charging unit, refer to the User Manual provided with the unit. ◀

 Plug and unplug the AC slow charging plug vertically and carefully to prevent damage to the vehicle or charging equipment. ◀

AC Slow Charging at Charging Station

Steps

1. Park the vehicle and engage Park (P).



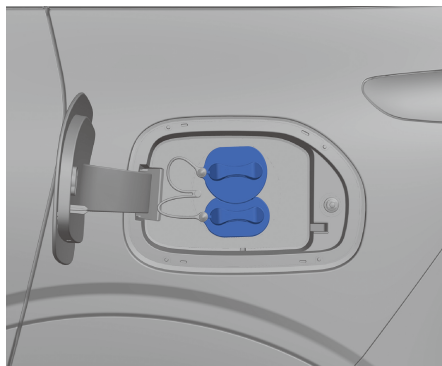
2. Press the right side of the charging lid to open it and remove the protective cover from the AC charging port of the vehicle.

3. Unplug the AC charging cable from the charging unit.
4. Press the button on the AC charging cable and insert the cable into the AC charging port of the vehicle.
5. Start charging by following the instructions on the charging unit.
6. When the battery is fully charged or charging needs to be stopped, follow the charging unit instructions to complete the process.
7. For some models, unlock the vehicle. After the charging plug is electrically unlocked, press the button on the charging cable and remove it promptly.
8. Install the protective cover to the AC charging port and close the charging lid, then return the charging cable to its original position on the charging unit.

DC Fast Charging at Charging Station

Steps

1. Park the vehicle and engage Park (P).



2. Press the right side of the charging lid to release it and remove the protective

cover from the DC charging port of the vehicle.

3. Remove the DC charging cable from the charging unit.
4. Press the button on the DC charging cable and insert it into the DC charging port of the vehicle.
5. Start charging by following the instructions on the charging unit.
6. When the battery is fully charged or charging needs to be stopped, follow the charging unit instructions to complete the process.
7. Install the protective cover to the DC charging port and close the charging lid, then return the charging cable to its original position on the charging unit.

Charging Time

The charging time may vary depending on factors such as the current battery power level, outside temperature, high-voltage battery age, and charging current.



- If the temperature of the high-voltage battery or the vehicle systems is too high or too low, part of the charging current is used to control it. This may increase the charging time.
- In low-temperature environments, charging efficiency may decrease, or the battery may not charge.
- When the vehicle is connected to charge in extremely low temperatures, the battery first enters a preheating stage. This process may use some power,

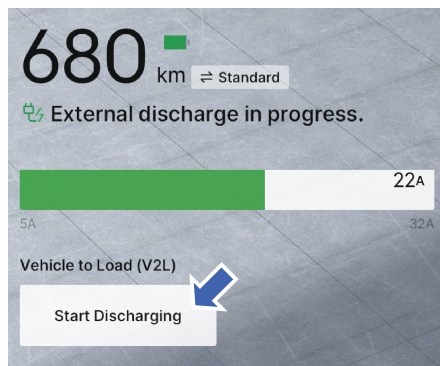
which is normal. After preheating is complete, the system automatically switches to the charging stage. ◀

Vehicle to Load (V2L)

The Vehicle to Load (V2L) function supplies 220 V power from the high voltage battery. This allows the use of external electrical appliances.

To use the Vehicle to Load (V2L) function, follow these instructions:

1. Open the charging lid and remove the protective cover from the AC charging port of the vehicle.
2. Connect the Vehicle to Load (V2L) to the AC charging port of the vehicle.



3. Click the following on the multimedia display in sequence:

Energy Centre → Vehicle to Load (V2L) → Start Discharging. Set the target supply power, then activate the Vehicle to Load (V2L) function.



- Connect or disconnect the V2L connector vertically and carefully to prevent damage to the vehicle or V2L equipment. The current rating of household electrical equipment or

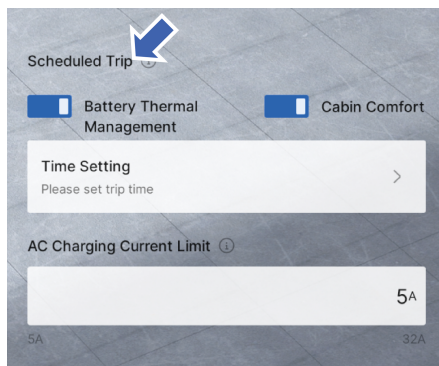
transfer cables used must not be lower than the rated current marked on the V2L equipment.

- If the vehicle power level is too low, the Vehicle to Load (V2L) function will be disabled to prevent the vehicle from failing to start. ◀



The Vehicle to Load (V2L) function is only for supplying electrical output. Do not connect external charging equipment or electrical appliances with a rated power higher than that of the V2L, especially when the V2L is connected to the vehicle's AC charging port. Doing so may damage the vehicle and the V2L. ◀

Scheduled Trip



Click the following on the multimedia display in sequence:

Energy Centre → Scheduled Trip.

Then, enable or disable Battery Temperature Maintenance, Cabin Comfort, and Scheduled Trip functions on the interface.

When Battery Temperature Maintenance is turned on and the scheduled trip time is approaching, the vehicle will adjust the battery temperature using the AC charging unit and the high-voltage battery. This reduces power consumption while driving and helps increase the driving range.

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Regular Maintenance

It is recommended to check the vehicle status regularly to keep it in the best condition.

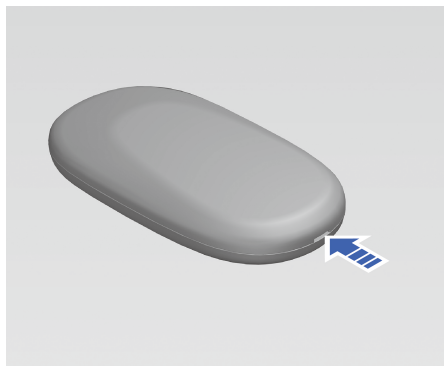
Door Check

Apply grease to the door check regularly. Otherwise, abnormal noise may occur when opening or closing the door.

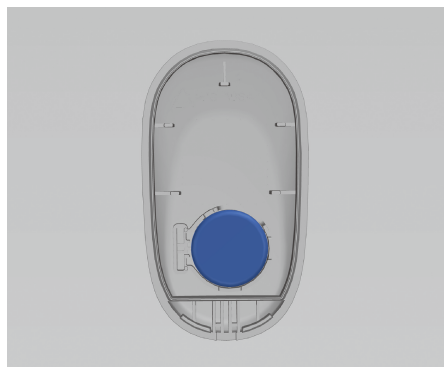
Replacement of Key Battery

Replacement of Intelligent Key Battery

Replace the intelligent key battery when the remote detection range decreases, the key cannot control the vehicle, or the vehicle does not recognise the key.



1. With the rear cover of the intelligent key facing up, insert a flathead screwdriver into the side slot at the back of the key. Then, hold the handle and gently pry off the cover.



2. Replace it with a new battery, ensuring the positive terminal faces the back

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cover. Intelligent key battery specification: **3V, CR2032**.

3. Reassemble the two halves of the key cover.



- Replacing the battery yourself may damage the key. If necessary, it is recommended to go to an authorised PROTON e. MAS service outlet for replacement.
- If the replaced key still cannot be used, contact an authorised PROTON e. MAS service outlet for maintenance.
- To prevent children from swallowing the replaced battery, keep the battery out of the reach of children. ◀

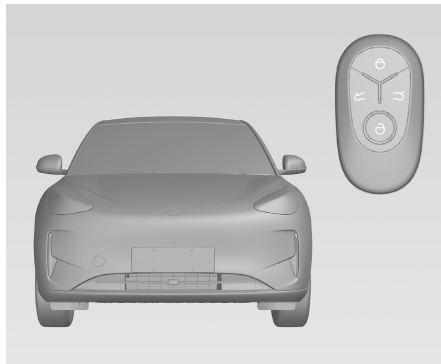


Dispose of used batteries in accordance with local regulations to avoid environmental damage. ◀

Opening and Closing of Front Hood

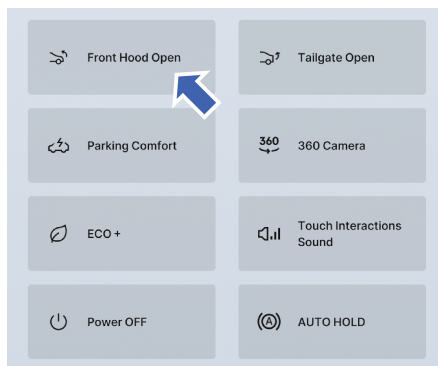
Unlocking the Front Hood

Unlocking the Front Hood with Intelligent Key



Press and hold the front boot button on the intelligent key to unlock the front hood.

Unlocking the Front Hood Via Multimedia Display



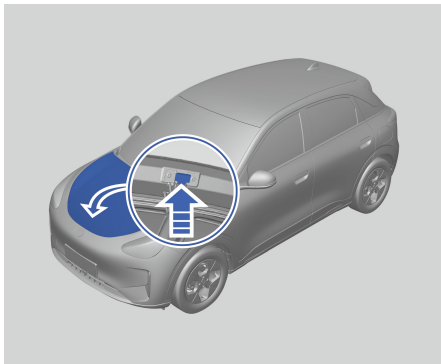
Swipe down from the top of the multimedia screen and click the front hood opening button to unlock the front hood.

Unlocking Front Hood From Inside



Pull the front hood release handle on the lower right side of the driver instrument panel to unlock the front hood.

Opening the Front Hood



After unlocking the front hood, press the front hood lock safety hook in the direction of the arrow shown in the figure, then lift the front hood.

Closing the Front Hood



Before closing the hood, check that no tools, rags, or other items are left in the front compartment, and ensure all filler caps (washer fluid, coolant, and brake fluid) are securely closed. ◀

1. Lower the front hood slowly and press the front edge until a clicking sound is heard, indicating that the hood is locked.
2. After closing the front hood, check that the hood is fully locked by attempting to lift the front edge of the hood.

If the hood is not fully locked, open the hood again and then close the hood. Do not push the hood down with excessive force.



Do not drive the vehicle with the hood not properly closed. ◀

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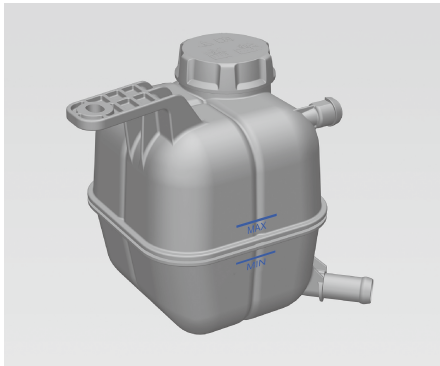
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Coolant

Checking Coolant Level



Park the vehicle on level ground before checking the coolant level.

Check that the coolant in the expansion tank is between the MAX and MIN marks. If the level is below MIN, refill the coolant into the expansion tank following the procedure below:

Before opening the coolant expansion tank pressure cap, ensure the cooling system, including the cap and the radiator upper hose, has completely cooled.



Turn the pressure cap anticlockwise slowly. If a hissing sound occurs, stop opening the

cap until the sound stops. The hissing indicates there is still pressure in the system.

Continue turning the pressure cap and remove the cap completely.

Slowly fill the expansion tank with coolant until the coolant level is between the MAX and MIN marks and the level stops dropping.

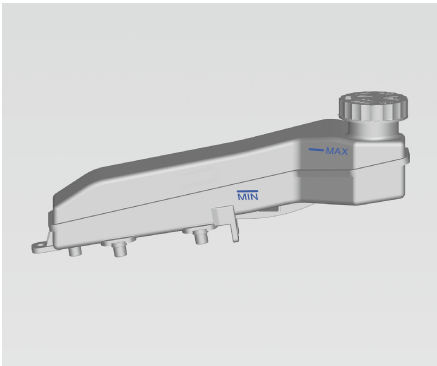
If the coolant level drops during refilling, add more coolant to maintain the level between MAX and MIN.

Watch the vent under the pressure cap. When coolant flows continuously from the vent and the coolant level remains stable, tighten the pressure cap. Coolant refilling is complete.



Use only certified ethylene glycol-type coolant. Any damage or failure caused by expired, inferior, or non-compliant coolant is not covered by the warranty. ◀

Brake Fluid



Check the brake fluid level regularly. Ensure the brake fluid level remains between the MAX and MIN marks.

If the brake fluid level falls below the MIN mark, unscrew the reservoir cap and slowly add brake fluid to avoid overflowing. If any fluid spills, remove it immediately to prevent damage to components in the compartment.



- Brake fluid is harmful to the body. In case of contact, rinse immediately with plenty of water. If ingested, seek medical attention immediately.

- Brake fluid leaks cause the fluid level to drop. Visit an authorised PROTON e.MAS service outlet as soon as possible.
- Use only brake fluid of the manufacturer and brand specified by PROTON. Using other fluids may seriously damage the brake hydraulic system and reduce braking performance and distance. ◀

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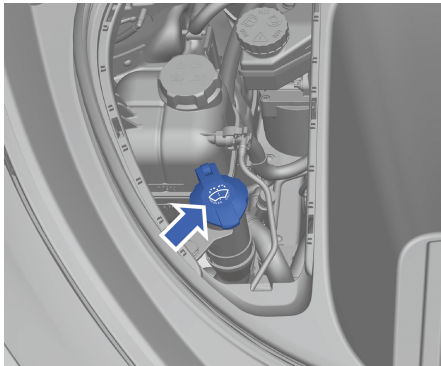
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Washer Fluid

Adding Washer Fluid



Open the filler cap marked with a washer symbol, and fill it with the recommended amount of windshield washer fluid.

 The freezing point of the washer fluid should be at least 10 °C below the lowest local temperature. ◀

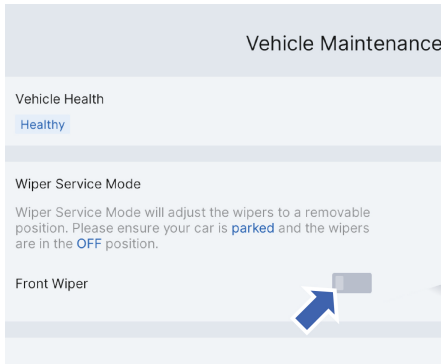
 Do not use liquids such as soapy water instead of windshield washer fluid, as this can damage vehicle paint. Use only approved windshield washer fluid. ◀

Wiper Blades



- Grease, silicon and petroleum products will weaken the wiping effect of wiper blades. Wash wiper blades with warm soap water and regularly check their condition.
- Wash and clean the windshield frequently, and avoid using wiper blades to wipe sand, or the wiping effect of wiper blades and the service life will be affected.
- Replace the wiper blades if the rubber is hardened or cracked, or if the wipers leave scratches on windshield or cannot wipe a certain area.
- Clean the windshield regularly with approved windshield washer fluid, and ensure that the windshield is thoroughly cleaned before replacing wiper blades.
- Use wiper blades of the same specification as the original wiper blades.
- If the wiper or windshield is covered by ice or snow or is frozen, clear the ice and snow on the wiper and windshield before using the wiper to avoid damage.
- Do not use the wipers when the windshield is dry or there are hard objects on the surface. This may damage the wiper blades and windshield. ◀

Replacement of Front Windshield Wiper Blades



1. Enter the wiper maintenance mode.

Method 1: Using wiper lever

First, ensure the wipers are in the park position. Within 10 seconds after switching the vehicle power from ON to OFF, move the front wiper lever from OFF to the MIST position and hold for 2 seconds. The wipers will operate and stop on the windshield automatically.

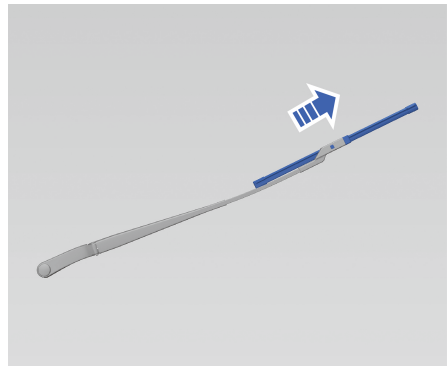
Method 2: Activating the wiper service mode from multimedia display

When the vehicle is stationary and the wiper is in the OFF position, go to the multimedia display and select:

Vehicle Settings → My Car → Vehicle Maintenance. This activates Wiper Service Mode. The wipers will operate and stop on the windshield automatically.

 Do not operate the front wiper or washer during maintenance, as it may cause injury or damage. The wiper returns to the park position when activated. ◀

2. Pull the front windshield wiper blade away from the windshield glass.



3. Press the wiper blade clip and pull the blade in the direction of the arrow to detach it from the wiper arm.
4. Remove the wiper blades;

 If the front windshield wiper blade is not properly installed, the wiper arm may contact the windshield and cause damage. Such damage is not covered by the warranty.. ◀

5. Install the wiper blade by reversing the steps in 2 to 4.
6. Exit the wiper maintenance mode.

Method 1:

After switching the vehicle power to the ON position, move the wiper lever to any operating position to return the wipers to normal operation and exit Wiper Service Mode.

Method 2:

Exit Wiper Service Mode by pressing the wiper service mode button.

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Low Voltage Battery (12V)

This vehicle comes with a maintenance-free low voltage battery (12V battery).

To extend the life of the low voltage battery and ensure proper operation of the electrical system, follow these recommendations:

- When driving in cold regions, prevent the low voltage battery from fully discharging to avoid electrolyte freezing.
- Avoid overcharging or prolonged power loss of the low voltage battery.
- If the low voltage battery is undercharge, recharge it using an external power supply.
- Keep the low voltage battery away from heat sources and open flames. Ensure proper ventilation during use or charging to prevent fire or injury.
- Install the low voltage battery securely in the vehicle to minimize vibration.
- Check that the battery terminal clamps are secure and making good contact to prevent sparks that could cause the battery to catch fire.
- Store the vehicle in a cool, ventilated, clean, and dry environment. Long-term parking in enclosed, humid conditions accelerates rust and aging of vehicle parts. Follow recommended maintenance schedules to ensure proper care.

Replacement of Low Voltage Battery

When replacing the low voltage battery, use one with the same model and specifications. Contact an authorised PROTON e.MAS service outlet for removal, replacement, and installation.



Different low voltage battery models have different terminals. Mismatched battery and wiring harness terminals may prevent proper tightening and can cause malfunction or breakdown. ◀



After replacing the low voltage battery, take the used battery to an authorised PROTON e.MAS service outlet for disposal, or to a collection depot that complies with environmental regulations. The battery contains highly corrosive and toxic substances. Keep it upright during transport and storage. ◀



An overheating failure of the low-voltage battery may release harmful gases. Leave the vehicle immediately. ◀



After long-term storage, the battery may be depleted. In this case, the vehicle cannot be unlocked using the remote key, and pressing the tailgate button will not activate the system. Use the mechanical key to unlock the vehicle. ◀

Power Battery

As a primary power source, the power battery (or high voltage battery) can undergo multiple charge and discharge cycles. The power battery can be charged using an external power supply or through energy recovery.



When the vehicle is stored for an extended period, ensure that the power battery charge remains above 20% and that the low-voltage battery is recharged. ◀



To maintain the power battery in optimal condition, if the vehicle is stored for more than three months or the power battery indicates a low charge, the power battery should be charged. Failure to do so may cause excessive discharge, reducing battery performance. Any resulting vehicle damage or malfunction will not be covered by the warranty. ◀



The power battery is a high-voltage energy storage device and is hazardous. Improper handling by non-professionals may result in serious consequences, including electric shock, fire, or explosion. ◀

The power battery must be handled only by professional technicians at an authorised PROTON e. MAS service outlet. Non-professional personnel are strictly prohibited from installing, repairing, or using the battery beyond its intended purpose. Any damage to the power battery or other losses resulting from use outside the specified requirements or scope will not be covered by the warranty.

1. Moisture and Waterproof Protection

The power battery contains multiple high-voltage control circuits and cells. Ensure that it does not become soaked in any liquid and that humid air does not enter the battery.

2. Environmental Heat Insulation

When the vehicle is parked, ensure the surrounding area is insulated, well-ventilated, and free from combustible materials to prolong the service life of the power battery and enhance its safety performance.

3. Shock and Impact Force Protection

Drive carefully on poor road conditions to prevent the power battery from hitting obstacles and sustaining damage.

Recycling Process

Used power batteries must be properly recycled. During vehicle service and maintenance, power batteries that meet the following conditions are considered for recycling:

1. During repair and maintenance of the power battery at an authorised PROTON e. MAS service outlet, the capacity and condition of the power battery will be assessed. Power batteries that require recycling under applicable laws and regulations will be primarily handled by PROTON, which will recycle them according to current market practices.
2. When a power battery is no longer usable in the vehicle, the battery may be recycled and, where appropriate, used

for cascade utilisation in accordance with relevant requirements.

3. Power batteries that are severely damaged or have failed and cannot be used for cascade utilisation will proceed directly to the recycling process.

The power battery recycling process involves collection and subsequent processing by an authorised PROTON e.MAS service outlet or a third-party recycling agency appointed by PROTON.



Do not sell, transfer, or modify the power battery. In the event of an accident, the power battery shall be recycled by an authorised PROTON e.MAS service outlet. ◀



If the power battery is not properly recovered, the following situations may occur, potentially causing serious personal injury or death:

- Unauthorised scrapping or disposal of power batteries can harm the environment and may cause electric shock if high-voltage parts are touched.
- Improper use or modification of the power battery may result in accidents such as electric shock, overheating, smoke, explosion, or electrolyte leakage.

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Maintenance of Tyres

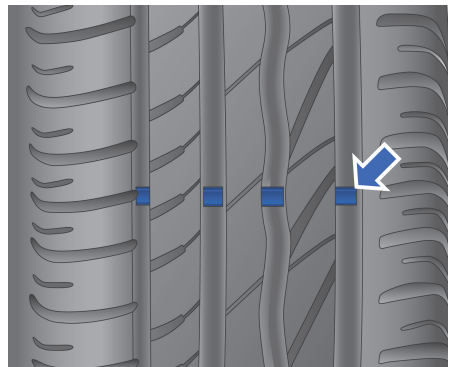
Tyre Inspection

Inspect the tyres at least once a month.

How to Check the Tyres

1. Use a reliable pocket-sized tyre pressure gauge to measure the tyre pressure when the tyres are cold.
2. Remove the valve cap from the tyre valve. Press the tyre pressure gauge firmly onto the tyre valve and take the tyre pressure reading.
3. Compare the tyre pressure reading with the recommended value on the tyre pressure label. If it is too low, inflate the tyre to the recommended value. If it is too high, release air from the tyre valve until the pressure matches the recommended tyre pressure value.
4. Recheck the tyre pressure with the tyre pressure gauge. Refit the valve cap securely after the inspection.

How to Check Tyre Wear



The tread wear indicator becomes visible when the tread depth is 1.6 mm or less.

Replace the tyres as soon as the tread has reached this limit.

If uneven tyre wear is detected, or continuous vibration is felt while driving, contact an authorised PROTON e.MAS service outlet for inspection. Carry out tyre dynamic balancing when new tyres are installed.

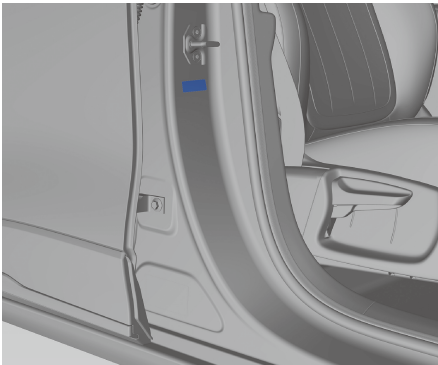


Using tyres with shallow tread patterns or exposed wear marks continuously will increase braking distance, may cause steering failure or tyre breakage, and raise the risk of accidents. ◀



Dispose of used tyres in compliance with relevant environmental protection laws. ◀

Tyre Pressure



This vehicle is equipped with a tyre pressure label. The label is located on the outside of the right centre pillar and shows the recommended pressures for the front and rear tyres.



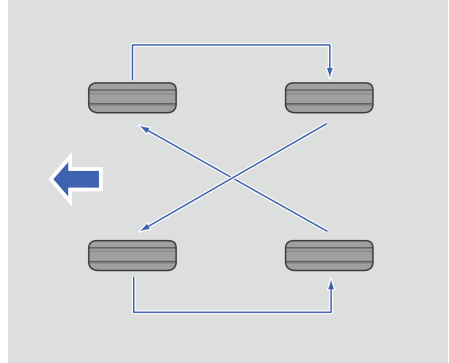
Tyres perform effectively only when inflated to the correct pressure. Under-inflation or over-inflation shortens tyre service life and impairs vehicle

handling, which may result in loss of control.



Tyre Rotation

Rotate the tyres every 10,000 km.



Carry out tyre rotation according to the sequence shown in the figure. After each rotation, adjust the inflation pressure of the front and rear tyres to the values specified on the tyre pressure label.



Ensure the wheels are installed correctly, and adjust the tyre pressure after rotation. ◀

Wheel Alignment and Wheel Balance

Inspect the wheel alignment if abnormal tyre wear or deviation is detected. Re-balance the wheels if the vehicle shakes when driving on a smooth road. Contact an authorised PROTON e.MAS service outlet as soon as possible.

Tyre Burst While Driving

When a tyre bursts while driving, the following conditions may occur. Take the appropriate actions as follows:

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If a front tyre bursts, the vehicle will tend to pull towards the side of the burst tyre. Release the accelerator pedal and hold the steering wheel firmly. Steer to keep the vehicle in its lane, then apply the brakes gently and stop at a safe location away from traffic.

If a rear tyre bursts, release the accelerator pedal and steer in the intended direction to keep the vehicle under control. The vehicle may shake and generate noise, but the steering can still be controlled. Apply the brakes gently and stop at a safe location away from traffic.

Tyre Punctured While Driving

If you notice a tyre leaking slowly, follow the steps below to avoid further damage to the tyre and wheel:

1. Drive slowly to a safe, flat location away from traffic.
2. Switch on the hazard warning lights and place a warning triangle at a suitable distance behind the vehicle.
3. Activate the parking brake and ensure the gear shift lever is in Park (P) or Neutral (N).
4. Do not allow any occupants to remain in the vehicle.
5. Place wheel stoppers in front of and behind the remaining tyres.
6. Use the quick tyre repair kit to make a temporary repair.

The tyre repair kit provides only a temporary repair. Have the tyre inspected or replaced at an authorised PROTON e.MAS service outlet as soon as possible.

Cleaning the Exterior

Washing the vehicle frequently helps maintain its appearance. Before washing, switch off the power supply and park the vehicle in a cool, shaded place. Do not wash the vehicle under direct sunlight. If the vehicle has been exposed to sunlight for a long period, allow the exterior to cool before washing.

Follow the posted instructions when using an automatic car wash.



- To prevent damage to the paintwork, promptly remove corrosive substances such as bird droppings, tree resin, insects, asphalt spots, road salt, and industrial dust. If necessary, use industrial alcohol to remove asphalt spots and stubborn oil stains, then wash immediately with water and a mild neutral soap solution to remove any alcohol residue.
- Do not use chemical solvents containing ethanol or strong detergents on the exterior light covers, as this may cause damage.
- Do not clean the exterior light covers when they are hot or exposed to direct sunlight. Allow the vehicle body to cool before cleaning the light covers to avoid damage. The exterior light covers also provide protection against external impacts. ◀

Cleaning the Vehicle with a High-pressure Washer

- Before washing the vehicle, ensure that the charging port lid is properly closed.
- Follow the high-pressure washer instructions carefully, paying attention to the working pressure and spraying distance. Keep the nozzle at least 30 cm from the body surface, move it continuously, and do not spray water constantly at one spot. High-pressure water entering vehicle components may cause damage. Do not spray water towards the charging port.
- Do not use cluster nozzles to clean the vehicle.
- Never aim the nozzle directly or indirectly into the front compartment. High-pressure water can damage electrical components or cause parts to malfunction.
- Do not spray the nozzle at chassis connectors, especially the orange high-voltage harness connector.
- Do not clean the front camera or sensors (if equipped) with a high-pressure or steam washer to avoid damage.
- Avoid spraying painted bumpers and soft parts, such as rubber hoses, plastic parts, and insulating materials, at close range.

Cleaning the Vehicle with an Automatic Car Wash

- Before using an automatic car wash, check with the facility for any additional parts mounted on the vehicle, and follow the professional advice provided.

- Close all windows, retract the wipers, and fold the exterior rearview mirrors before washing the vehicle, in accordance with the automatic car wash requirements.
- The vehicle body paint can withstand automatic washing, but the impact on the paint should be noted. This depends on the washer structure, cleaning brushes, water filtration, and the type of cleaning agents and waxes used. If the paint surface becomes darkened or scratched after washing, inform the operator immediately for correction.
- When choosing an automatic car wash, give priority to a non-contact washer. This type does not have brushes or other parts that touch the vehicle surface.

Cleaning the Interior

Regular cleaning of the vehicle interior helps maintain a comfortable environment. Dust and dirt can accumulate on interior trims and may damage carpets, fabrics, leather, and plastic surfaces. Stains should be cleaned promptly, especially on light-coloured trims, as heat can cause them to become permanent.

- Remove dust from small buttons and knobs using a soft brush.
- Use only professional cleaning agents on interior trim surfaces to avoid permanent damage. To prevent over-spraying, apply the cleaner directly to a cloth rather than onto surfaces. Wipe off any cleaner immediately if it accidentally contacts other interior parts.
- When installing glass protective film, note that the hot air blower reaches extremely high temperatures. Do not use the hot air blower on interior trims, as this may cause damage. Ensure adequate waterproof protection is in place to prevent water from entering the vehicle through gaps and causing electrical faults.

 When cleaning vehicle glass, do not use abrasive cleaners, as they may scratch the glass or damage the rear windscreen defogger. Use only a soft cloth and a suitable glass cleaner. ◀

Detergents may contain solvents that can leave a residue on interior trims. Read and follow all safety instructions on the label before use.

Open the doors and windows to ensure good ventilation when cleaning interior trims.

Observe the following when cleaning interior trims:

- Do not remove dirt from trim surfaces using a knife blade or any sharp objects.
- Do not use a scrubbing brush, as it may damage interior surfaces.
- Do not apply excessive pressure or wipe with great force. Hard wiping does not improve cleaning and may damage the interior trims.
- Use only mild, neutral soap. Avoid strong detergents or degreasing soaps, as excess soap can leave stains and attract dirt.
- Do not soak interior trims during cleaning.
- Do not use organic solvents such as naphtha or alcohol, as these will damage interior trims.

Cleaning Fabric and Carpet

Clean dust and debris using a vacuum cleaner fitted with a soft brush head. For stubborn stains, try removing them with fresh water or soda water first. Select an appropriate method based on the type of stain:

- **Liquid stains:** Gently press residual stains with tissue to absorb the liquid.
- **Solid dry stains:** Remove as much as possible by hand, then use a vacuum cleaner to clean the remaining particles.

Cleaning steps:

1. Soak a clean, lint-free white cloth in water or soda water.
2. Wring the cloth to remove excess moisture.

3. Gently wipe stains from the edges toward the centre until no more stain marks transfer to the cloth.
4. If stains persist, repeat the above steps using a mild soap solution.

If stubborn stains cannot be removed, use a synthetic fabric cleaner or detergent. Test the product for colour fastness on an inconspicuous area first. If the cleaner works without affecting the colour, it may be applied to the entire surface. After cleaning, use a tissue to absorb any remaining moisture from the fabric or carpet.

Do not scrub vigorously or use harsh chemicals, as this may damage the fabric or carpet.

Cleaning Leather

Use a soft cleaning cloth dipped in water to remove dust. For more thorough cleaning, use a soft cloth dipped in neutral soap water. Allow the leather to air dry; do not use heat to dry and do not clean leather with steam.

Do not use detergents or polishes on leather, as this may permanently alter the appearance and feel of the interior trims. Avoid products containing silicone, wax, or organic solvents, as these may cause uneven gloss and affect the appearance of the interior. Do not use shoe polish on leather.

Cleaning the Instrument Panel and Plastic Surfaces

Do not use detergents or polishes on plastic surfaces, as this may permanently alter the appearance and texture of interior trims. Some commercial products may increase

the glossiness of the instrument panel, causing reflections on the windscreen that can significantly reduce visibility.



Do not use cleaning agents containing alcohol or strong oxidising chemicals on interior trims. ◀

Replacement of Bulbs

Bulb Specification

Component Name	Bulb Name	Bulb Type	Power Rating
Front Combination Lamp	High beam	HB3/LED	60W
	Low beam	HB3/LED	60W
	Front turn signal	WY21W/LED	21W
	Front position light	W5W/LED	5W
Rear Fog Lamp	Rear fog light	P21W	21W

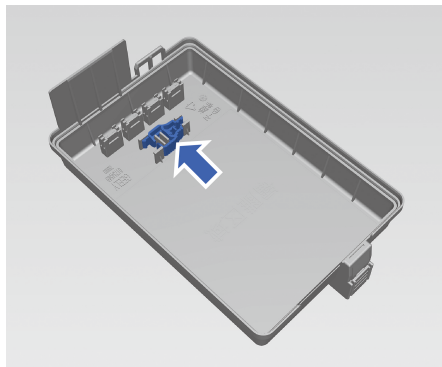


- The components listed above use replaceable LED bulbs, while other components use integrated LED modules that cannot be replaced individually.
- Bulb replacement often requires removing certain vehicle components and involves technical skills. It is recommended to replace bulbs at an authorised PROTON e.MAS service outlet.
- When there is a temperature difference between the inside and outside of the front or rear combination light cover, such as on rainy days or during vehicle washing, temporary fogging may occur. This is normal. The fog will dissipate after the lights have been on for a short time. If it does not clear, contact an authorised PROTON e.MAS service outlet. ◀

Replacement of Fuses

If any electrical components do not work, check the fuses and replace any blown fuse as needed by following the steps below:

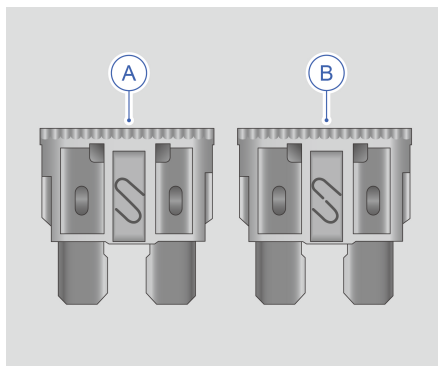
1. Turn the vehicle power OFF, switch off all electrical equipment, and disconnect the negative cable of the low-voltage battery.



2. Use a fuse clip to grasp and remove the fuse, then check whether the metal wire inside is blown.



Do not attempt to repair a blown fuse. Do not replace a blown fuse with a fuse of different colour or amperage, as this may damage the electrical system or cause a fire due to wire overload. ◀



A- Intact fuse

B- Blown fuse

3. Replace the fuse with a new one of the same type and specification. If the fuse blows immediately after replacement, contact an authorised PROTON e.MAS service outlet immediately.

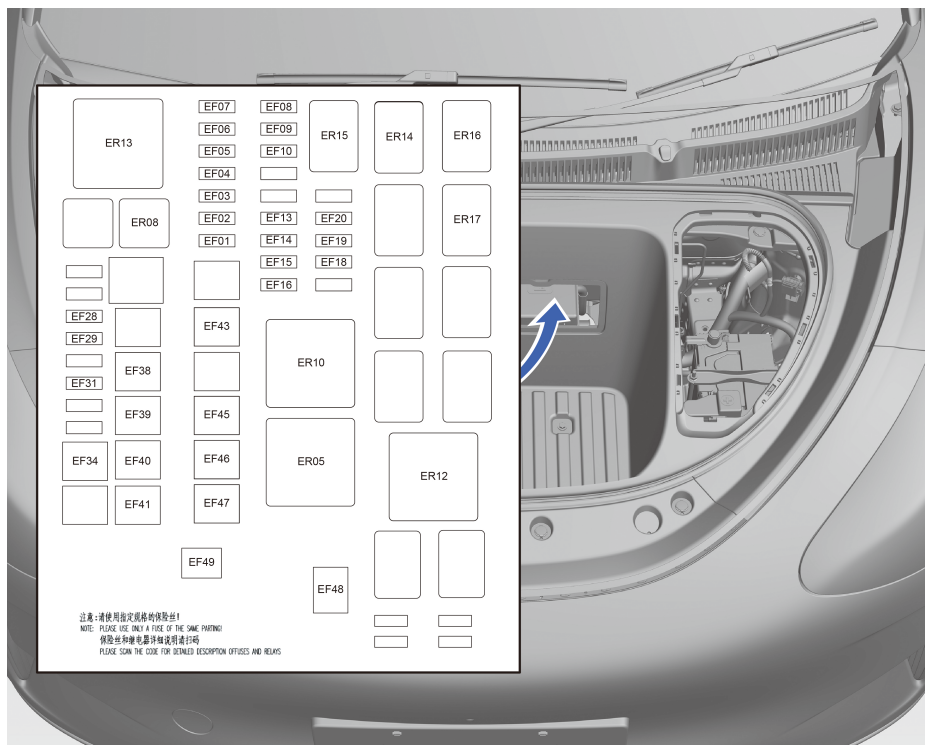


The fuse colour indicates its amperage, which is also printed on the fuse. ◀



Contact with liquid can damage electrical components. Ensure all electrical component covers are securely in place. ◀

Exterior Fuse Box (in Front Compartment)



Fuse No.	Name	Ampere Value	Remark
EF01	High/low voltage charging system 2 fuse	10A	-
EF02	Power battery control module fuse	10A	-
EF03	High/low voltage charging system 1 fuse	10A	-
EF04	Brake light switch fuse	5A	-
EF05	Charging communication control module fuse	5A	-
EF06	Wiper power supply fuse	15A	-
EF07	Horn relay power supply fuse	20A	-

Fuse No.	Name	Ampere Value	Remark
EF08	Relay coil power supply fuse	7.5A	Thermal / low speed fan / high speed fan / blower relays
EF09	Heater (A/C heating) power supply fuse	5A	-
EF10	High/low voltage charging system power supply fuse	15A	-
EF13	Electric water pump (electrically driven) fuse	20A	-
EF14	Electric water pump (battery) fuse	20A	-
EF15	Electric compressor fuse	5A	-
EF16	Solenoid valve/heater fuse	5A	AC solenoid valve / 2-way solenoid / heater (battery heating)
EF18	Electronic power steering control module/brake control module IG1 fuse	5A	-
EF19	Charging communication module/power battery control module/high/low voltage charging system IG1 fuse	5A	-
EF20	Right front combination light/left front combination light adjustment motor IG1 fuse	5A	-
EF28	Front wiper fuse	30A	-
EF29	Exterior light 1 fuse	30A	-

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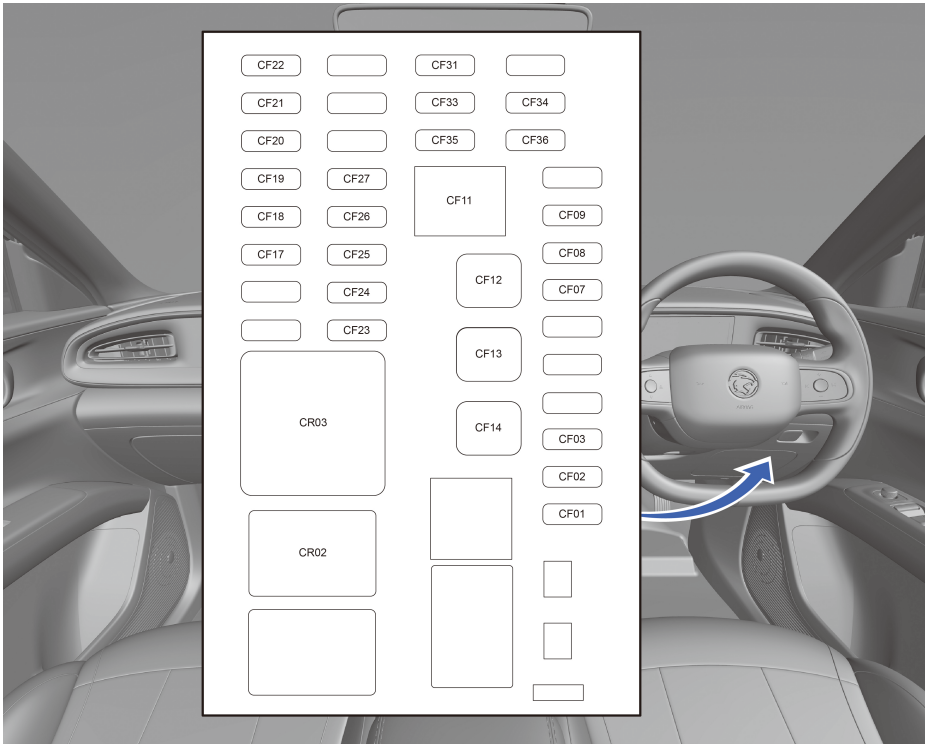
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Fuse No.	Name	Ampere Value	Remark
EF31	Exterior light 2 fuse	30A	-
EF34	Rear defroster relay fuse	25A	-
EF38	Blower relay fuse	40A	-
EF39	Low-speed fan relay fuse	30A	-
EF40	High-speed fan relay fuse	40A	-
EF41	Instrument power distribution box ACC/IG1 fuse	60A	-
EF43	Thermal management relay fuse	30A	-
EF45	Brake control module 1 solenoid fuse	40A	-
EF46	Brake control module 1 motor fuse	60A	-
EF47	Instrument power distribution box B+ fuse	60A	-
EF48	Electronic power steering control module fuse	80A	-
EF49	High/low voltage charging system fuse	200A	-

Interior Fuse Box



Fuse No.	Name	Ampere Value	Remark
CF01	Exterior light 3 fuse	30A	-
CF02	Exterior light 4 fuse	30A	-
CF03	Diagnostic interface 1 fuse	10A	-
CF07	Central door lock fuse	30A	-
CF08	Onboard wireless control module/ multimedia display/radio fuse	10A	-
CF09	Left rear blind spot radar probe, right rear blind spot radar probe fuse	5A	-
CF11	Marine fuse (Memory fuse)	25A	-
CF12	Left front seat adjustment switch fuse	25A	-
CF13	Left front window power supply & right	30A	-

Fuse No.	Name	Ampere Value	Remark
	rear window power supply fuse		
CF14	Right front window power supply & Left rear window power supply fuse	30A	-
CF17	DVR ACC fuse	5A	-
CF18	Multimedia control module/front monocular camera ACC fuse	7.5A	-
CF19	Vehicle control module ACC fuse	5A	-
CF20	Ambient light fuse	7.5A	Ambient light at left front door / right front door / right sub IP
CF21	Front USB/rear USB power supply fuse	10A	-
CF22	Exterior rearview mirrors adjustment switch fuse	5A	-
CF23	Vehicle control module/instrument cluster IG1 fuse	5A	-
CF24	Airbag control module IG1 fuse	5A	-
CF25	Front A/C control switch IG1 fuse	5A	-
CF26	Front compartment power distribution box IG1 fuse	20A	-
CF27	On-board wireless control module/seat heating control module/steering wheel heating module IG1 fuse	5A	-
CF31	DVR fuse	7.5A	-
CF33	Multimedia control module fuse*	15A	-
CF34	Blower negative feedback fuse	5A	-

Fuse No.	Name	Ampere Value	Remark
CF35	Instrument cluster/front monocular camera fuse	5A	-
CF36	Blower positive feedback fuse	5A	-

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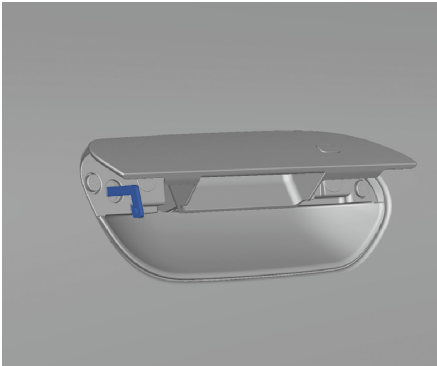
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Emergency Unlocking of Door

Using the Mechanical Key to Lock or Unlock

 When the intelligent key is not working or the vehicle power is off, use the mechanical key on the driver door to lock or unlock the door. ◀

Driver Door



Locking the Driver Door with the Mechanical Key

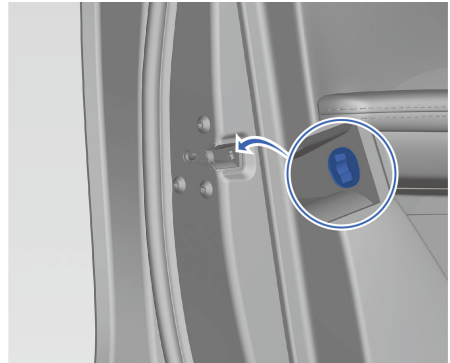
1. Lift and hold the exterior door handle of the driver door.
2. Insert the mechanical key into the driver door lock cylinder.
3. Turn the key clockwise.
4. Locking the Door with the Mechanical Key
 - Insert the mechanical key into the black knob of the door lock and turn it.
 - Remove the mechanical key and close the door to complete locking.

5. Return the key to the neutral position and remove it.
6. Release the exterior door handle.

Unlocking the Driver Door with the Mechanical Key

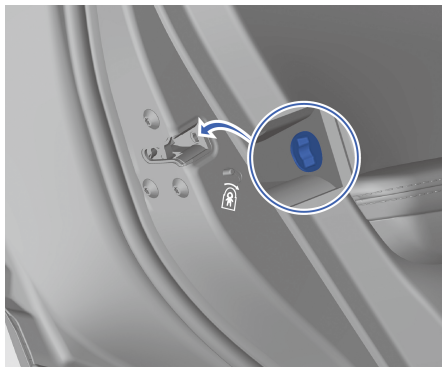
1. Lift and hold the exterior door handle of the driver door.
2. Insert the mechanical key into the driver door lock cylinder.
3. Turn the key counterclockwise.
4. Return the key to the neutral position and remove it.
5. Release the exterior door handle.

Locking the Front Passenger Door with the Mechanical Key



1. Insert the mechanical key into the black knob of the door lock and rotate the black knob.
2. Remove the mechanical key.
3. Close the door to complete locking.

Locking the Rear Passenger Door with the Mechanical Key



1. Insert the mechanical key into the black knob of the door lock and rotate the black knob.
2. Remove the mechanical key.
3. Close the door to complete locking.

Emergency Unlocking of the Tailgate

1. Fully fold the rear seatback, if possible.
2. Access the cover plate for the tailgate emergency opening device on the interior trim panel of the tailgate door.



3. Lift the trim cover of the tailgate emergency opening lever.

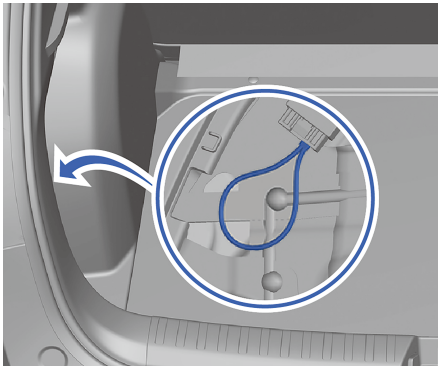
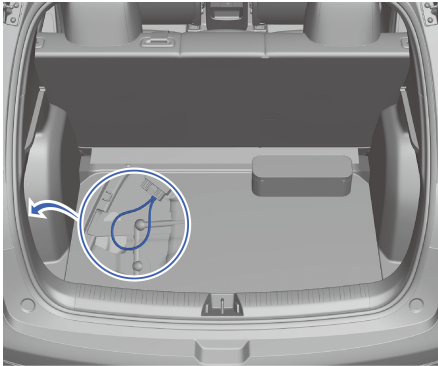


4. Toggle the tailgate emergency opening lever to the left to open the tailgate.

Emergency Unlocking of the Charging Cable

Releasing via Emergency Charging Release Lever

▶ Ensure the vehicle is powered off before performing emergency unlocking the charging cable.



If the charging cable cannot be removed from the vehicle charging port, follow these steps:

1. Open the tailgate and remove the left cover trim in the luggage compartment to access the emergency charging release lever.

2. Pull the emergency charging release lever on the left side of the luggage compartment to unlock the charging cable.

▶ If the charging cable cannot be released, stop charging immediately and contact an authorised PROTON e.MAS service outlet. ◀

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Towing Eye

Precautions for Using Towing Eye



The towing eye is for road rescue only and must not be used for any other purpose. When using the towing eye to tow the vehicle, observe the following precautions to avoid serious personal injury or death:

- Ensure the towing eye is securely screwed into the installation hole to prevent slipping during traction.
- Keep all personnel at a safe distance from the vehicle while towing.
- Do not use towing chains or straps on the towing eye, as they may break.
- Do not tow the vehicle on rough, uneven, or off-road surfaces.
- Start the towing vehicle slowly and smoothly to avoid excessive tension or impact loads.
- Use equipment that complies with road traffic regulations (e.g., rigid towing rods or approved towing ropes) to tow the vehicle a short distance on flat ground to the nearest maintenance point.
- When assisting the vehicle out of trouble, pull from the front of the towed vehicle so its movement aligns with the towing direction. Do not tow at an angle.

Towing the Vehicle onto a Flatbed Trailer

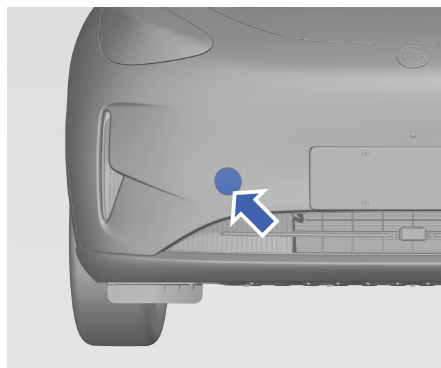


In certain circumstances, the towing eye can be used to tow the vehicle onto a flatbed trailer.

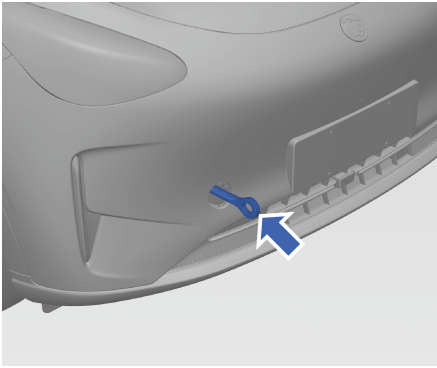
- The vehicle position and ground clearance determine whether the towing eye can be used to tow the vehicle onto a flatbed trailer.
- Do not use the towing eye if the slope of the trailer is too steep or the vehicle ground clearance is insufficient, as this may damage the vehicle.
- If necessary, use a lifting device on the tow truck to lift the vehicle. ◀

Installing the Towing Eye in the Front

1. Take the towing eye out of the on-board tool kit in the luggage compartment.

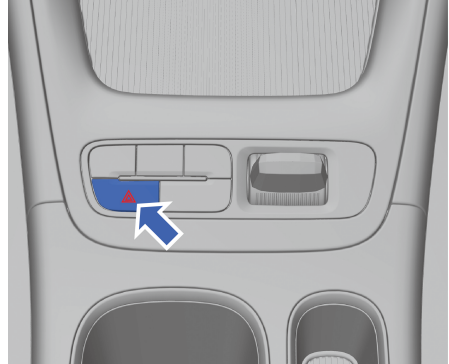


2. Press the left side of the traction hole cover on the right side of the front bumper. Once the cover tilts, fully open it to access the towing eye mounting hole.



3. Screw the towing eye into the mounting hole and tighten it with a wrench until it is fully secure.

Hazard Warning Lights



Under special circumstances when the vehicle needs to be decelerated or stopped in an emergency, press the hazard warning light switch.

Then the indicator on the switch flashes along with the left and right turn signal indicators to warn others.



Use hazard warning lights only in emergencies, such as:

- Vehicle breakdown on the road
- Approaching or involved in an accident
- Sudden loss of power or brake failure
- Stopping unexpectedly due to an obstacle or road hazard
- Towing a disabled vehicle on the roadside

Do not use hazard warning lights unnecessarily. ◀

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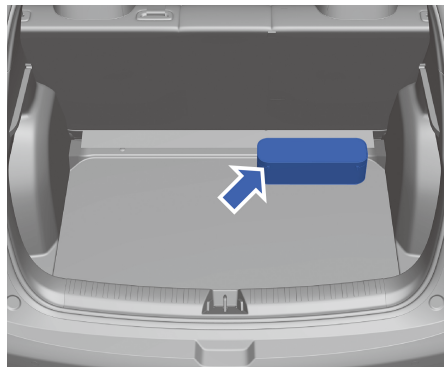
Emergency Tyre Repair

 Park the vehicle on stable, level ground away from traffic. Turn on the hazard warning lights and place a warning triangle in the recommended position. ◀

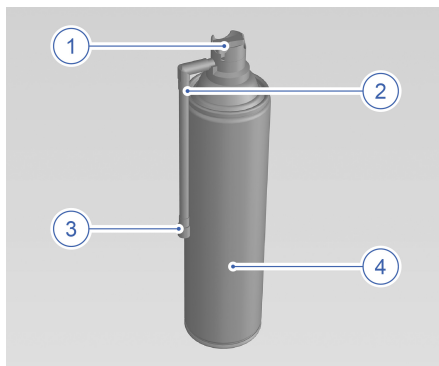


- The tyre repair kit is only suitable for tubeless tyres with punctures in the tread. It cannot be used on tyres with large cracks, splits, or similar damage.
- After each tyre repair, replace the used sealing fluid tank. Never use an expired sealing fluid tank.
- Store the tyre repair fluid out of the reach of children. ◀

Tyre Repair Kit

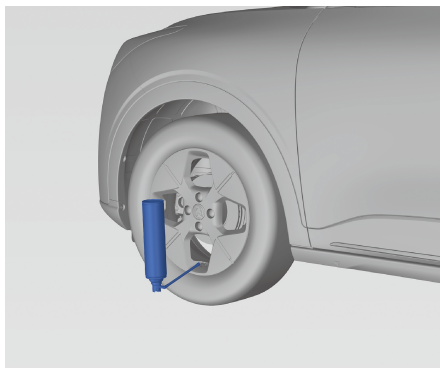


The tyre repair kit is stored in the on-board tool kit in the luggage compartment.



1. Tyre sealant switch
2. Tyre sealant hose
3. Tyre valve connector
4. Tyre sealant tank

Repairing the Punctured Tyre



1. Remove the tyre repair kit quickly;
2. Shake the tyre sealant bottle;

 Do not break the seal of the sealing fluid tank before use. The seal will be opened automatically when the switch is rotated. ◀

3. Unscrew the valve cap from the tyre valve stem and keep it in a safe place;
4. Unscrew the valve cap of the tyre sealant tank;

5. Connect the tyre connection valve with the tyre valve, and tighten them clockwise;
6. Hold the tank upside down and turn the red valve clockwise to begin automatic inflation;



The tyre sealant can irritate the skin. If it is in contact with the skin, wash immediately with soap or water. ◀

7. When inflation reaches full capacity, turn the red valve counterclockwise to close it, then disconnect the connection valve;
8. Drive 3 ~ 10 km immediately at a speed of no more than 80 km/h and use the sealing fluid to evenly seal the tyres.



After repairing the tyre with the tyre repair kit:

- The driving speed should not exceed 80 km/h.
 - The driving distance should not exceed 200 km.
 - Visit an authorised PROTON e. MAS service outlet as soon as possible for tyre repair or replacement. ◀
1. Remove the tyre repair kit from the on-board tool kit.
 2. Shake the tyre sealant tank well.



Do not break the seal of the sealing fluid tank before use. The seal will open automatically when the switch is rotated. ◀

3. Remove the valve cap from the tyre valve stem and keep it in a safe place.
4. Remove the valve cap from the tyre sealant tank.

5. Connect the tyre connection valve to the tyre valve and tighten it clockwise.
6. Hold the tank upside down and turn the red valve clockwise to begin automatic inflation.



The tyre sealant can irritate the skin. If it comes into contact with the skin, wash immediately with soap and water. ◀

7. When inflation reaches full capacity, turn the red valve counterclockwise to close it, then disconnect the connection valve.
8. Drive 3–10 km immediately at a speed not exceeding 80 km/h to distribute the sealing fluid evenly in the tyre.

After repairing the tyre with the tyre repair kit:

- Do not exceed a driving speed of 80 km/h.
- Do not drive more than 200 km.
- Visit an authorised PROTON e.MAS service outlet as soon as possible for tyre repair or replacement. ◀

Overheating of Drive Motor or Motor Controller

Overheating of the drive motor or motor controller may indicate that the coolant temperature is too high. Handle the situation using the following procedure:

1. Drive the vehicle safely off the road, stop, turn on the hazard warning lights, shift the gear into Park (P), and press the electronic parking brake (EPB) switch. Turn off the air conditioning (A/C).
2. Visually check for obvious coolant leakage under the radiator, hoses, or vehicle. Water drops from the operating air conditioning are normal.
3. If coolant is leaking, stop using the vehicle immediately and contact an authorised PROTON e. MAS service outlet as soon as possible.
4. If no obvious leakage is found, check the coolant expansion tank. If the coolant level is low, fill the coolant expansion tank to approximately half with the recommended engine coolant while the engine is running.
5. If there is no coolant leakage and the coolant level in the expansion tank is normal, contact an authorised PROTON e. MAS service outlet.
6. Once the coolant has cooled to normal temperature, recheck the coolant level in the expansion tank. Add coolant to half if needed. Significant loss of coolant indicates a system leak; contact an authorised PROTON e. MAS service outlet immediately.

7. After parking the vehicle in summer, the cooling fan may operate automatically for an extended period. This is normal. The fan will turn off automatically once the drive motor or motor controller temperature drops and cooling is no longer needed.



To prevent personal injury, keep the hood closed until all vapour has dissipated. Escaping vapour or coolant indicates high pressure. Ensure that no one approaches the rotating cooling fan. ◀



When the warning message “Power battery thermal runaway, please stay away from the vehicle immediately and call emergency services” appears on the meter instrument, move away from the vehicle immediately and contact emergency services. Failure to do so may result in an accident causing injury or death. ◀

Getting Out of a Stuck Situation

When the vehicle becomes stuck in snow, mud, sand, or other soft surfaces, follow these steps to recover the vehicle:

1. Check the surroundings to ensure there are no people or obstacles nearby.
2. Turn the steering wheel left and right to help loosen the area around the front wheels.
3. Shift into forward or reverse gear and move the vehicle slowly back and forth.
4. If the vehicle is still stuck after several attempts, contact a professional towing service.



When moving the vehicle forward and backward to get out of a pit, the vehicle may suddenly lurch in either direction. Stay alert at all times to prevent accidents or injuries. ◀

Parking

Press the brake pedal to stop the vehicle smoothly, press the P button to shift the gear to Park (P), and apply the parking brake.

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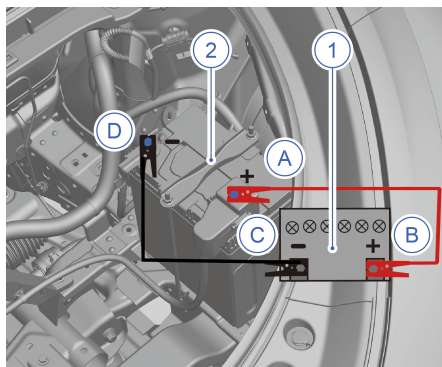
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Jump-Starting

 If the vehicle cannot be started due to a depleted low-voltage battery, connect a jumper cable to another vehicle to start the vehicle. ◀

 Do not start the vehicle by pushing or pulling; use only a low-voltage battery for jump-starting. ◀

1. Turn the power supply to OFF. Switch off all lights and electrical accessories, leaving only the hazard warning light on if necessary.
2. Open the tailgate, remove the right-side trim panel in the front compartment, and locate the low-voltage battery.



- 1 – The low-voltage battery with power is the assisting battery from another vehicle.
- 2 – The low-voltage battery without power is the weak or flat battery in your vehicle.
3. Connect one end of the red positive (+) cable to the positive (+) terminal (A) of the low-voltage battery without power.

4. Connect the other end of the red positive cable to the positive (+) terminal (B) of the low-voltage battery with power.
5. Connect one end of the black negative (-) cable to the negative (-) terminal (C) of the low-voltage battery with power.
6. Connect the other end of the black negative cable to the negative (-) terminal (D) of the low-voltage battery without power.
7. Start the vehicle with the discharged low-voltage battery. If the vehicle does not start after several attempts, contact an authorised PROTON e.MAS service outlet.

 Ensure the jumper cables meet the required current and voltage for jump-starting. Incorrect connection or removal may cause a short circuit and damage the vehicle. Such damage is not covered by the warranty. Always connect and remove the jumper cables in the correct order, and prevent the cables from touching each other or contacting other metal parts. ◀

To disconnect the jumper cables between the two vehicles:

1. Disconnect the black negative (-) cable from the low-voltage battery on the discharged vehicle.
2. Disconnect the black negative (-) cable from the low-voltage battery on the vehicle with power.
3. Disconnect the red positive (+) cable from the low-voltage battery on the vehicle with power.

4. Disconnect the red positive (+) cable from the low-voltage battery on the discharged vehicle.



- Cooling fans and other moving components of the drive motor may cause personal injury. Whether the drive motor is running or not, never touch the cooling fan or drive motor with hands, clothing, or tools.
- Gas may escape from the low-voltage battery during charging or jump starting, creating an explosion risk. Keep the low-voltage battery away from sparks, open flames, and other flammable objects.
- Open flames near the low-voltage battery may ignite escaping gases and cause severe injury. The fluid inside the low-voltage battery is corrosive and can seriously damage eyes and skin. In case of accidental contact, rinse immediately with plenty of water and seek medical attention.
- When connecting or removing jumper cables, ensure they do not become entangled with fans, belts, or other moving parts.
- Make sure each cable is securely connected and keep the ends away from each other to avoid contact between the positive and negative terminals. Failure to follow these steps may cause damage not covered by the warranty.
- Always confirm that the positive and negative terminals are not reversed when connecting the power supply.

Incorrect connection may cause high-voltage system failure and prevent the vehicle from starting.

- If the vehicle cannot be started after several attempts, or if the low-voltage battery frequently discharges, contact an authorised PROTON e. MAS service outlet. ◀

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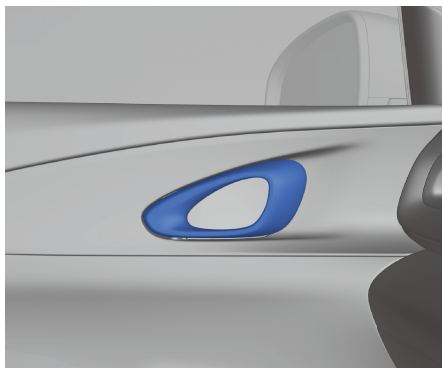
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Emergency Evacuation of Personnel

Evacuation After Door Unlocking

If life is in danger and immediate escape is required, take the following action:



When the doors are unlocked, open them by pulling the interior door handles.



- The other three doors can be unlocked and opened by pulling the interior door handles.
- If a rear door cannot be opened, the child lock may be engaged. In this case, open the door from outside the vehicle or lower the window and reach through to open it.
- If none of the doors can be opened, use a sharp, hard object to strike the corners of the door glass and break the window to escape. ◀

Power Battery Damage and Electrolyte Leakage



The power battery contains electrolytes. To prevent accidental injury, observe the following precautions:

- Inhalation of electrolyte vapours or fumes may irritate the respiratory tract and lungs. Move to fresh air immediately and seek medical attention.
- Skin contact with electrolytes may cause irritation or chemical burns. Remove contaminated clothing and wash the skin with soap and water. Seek medical attention if burns or persistent irritation occur.
- Prolonged skin contact may cause local inflammation.
- Eye contact with electrolytes may cause severe irritation or chemical burns. Hold eyelids open and rinse the eyes with clean water for at least 15 minutes. Seek medical attention immediately.
- Electrolytes are volatile and flammable. Ensure good ventilation and keep away from open flames and sparks.
- In case of electrolyte leakage, wear protective equipment, wipe up the spill with a dry cloth, and ventilate the area thoroughly. ◀

If electrolyte leakage or damage to the power battery housing is detected, rescue personnel must wear appropriate personal protective equipment and must never touch the electrolyte with bare hands.

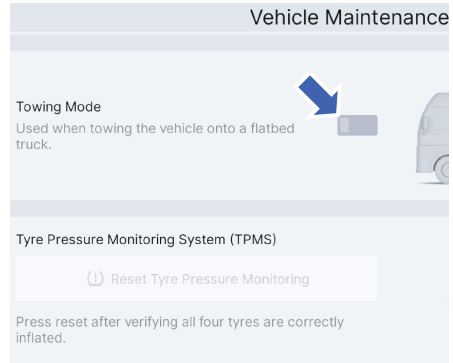
Use lime powder to dilute and neutralise the electrolyte. Do not use water for dilution. Neutralising with lime powder helps stabilise

the battery temperature and prevents uncontrolled power discharge.

Removing the Vehicle from an Accident Scene

Towing Mode

Activating Towing Mode (Trailer Mode)



Click the following on the multimedia display in sequence:

Vehicle Settings → My Vehicle → Vehicle Maintenance, and turn on the Towing Mode in the interface.

Deactivating Towing Mode

Click the following on the multimedia display in sequence:

Vehicle Settings → My Vehicle → Vehicle Maintenance, and turn off the Towing Mode / Trailer Mode in the interface.



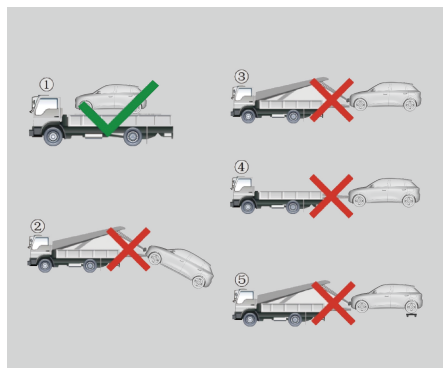
- If the Electric Parking Brake (EPB) status indicator lights up after towing mode is activated, this indicates a fault in the system. Contact an authorised PROTON e.MAS service outlet.
- If the Electric Parking Brake (EPB) cannot be engaged, lock the rear wheels

when necessary to prevent the vehicle from moving.

- Before activating towing mode, ensure the vehicle is stable to avoid accidents caused by slipping. Shift into Park (P) and press the brake pedal to activate towing mode.
- After towing is completed, deactivate towing mode promptly and reset the vehicle by either locking or restarting it to return the vehicle to normal condition. ◀

Towing Procedure

If the vehicle cannot be started after an accident, the towing procedure is illustrated in the figure.



Vehicle towing precautions are as follows:

- The vehicle must be towed with all four wheels off the ground. Do not use the towing methods shown in figures 2, 3, 4 and 5.
- Before towing, switch the vehicle power supply to OFF, turn on the hazard warning lights, close all doors, and lock the mechanical lock. No one should

remain inside the vehicle while it is being towed.



- If the vehicle cannot be towed using a flatbed tow truck, it may be towed urgently to a safe area using a rigid connection and then wait for rescue.
- When using rigid towing, avoid long distances and keep the towing speed below 5 km/h.
- The vehicle should only be towed from the scene once it is confirmed that there is no safety risk. If the battery pack is deformed, leaking, or emitting smoke, address the safety risk first. ◀

Storing the Vehicle

If the vehicle is to be stored or left unattended, disconnect the high-voltage system (see High-Voltage Cut-off Method). Affix high-voltage warning labels and place warning signs on the vehicle to alert pedestrians that touching the vehicle is strictly prohibited. Failure to follow these precautions may result in serious injury or death.



Special attention should be given to the following conditions when storing the vehicle:

- Do not park the vehicle near high-temperature heat sources.
- Store the vehicle in a clean, dry environment with evacuation routes kept clear.
- Do not remove the power battery assembly, strike it with heavy objects, or puncture it with sharp objects. Do not directly connect the positive and negative terminals with metal, and avoid contact with corrosive substances to prevent external short circuits.
- If the vehicle has been submerged in water, caught fire, or been involved in a collision, store it in an open area due to the risk of re-ignition. Establish a safety zone of at least 15 m around the vehicle to prevent contact. ◀

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2

3

4

5

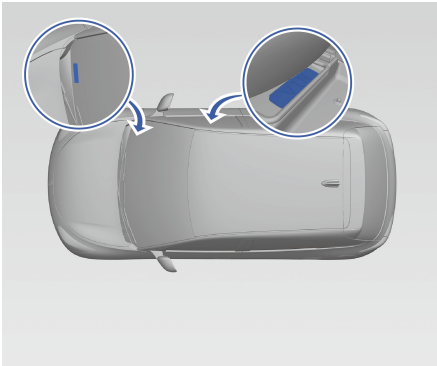
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Vehicle Identification Number (VIN)



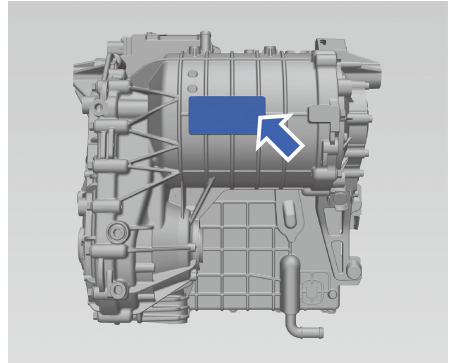
VIN Location

1. The Vehicle Identification Number (VIN) is engraved on the body cross member under the driver seat. To view the VIN, move the seat fully backward and flip open the cover on the floor carpet.
2. A Vehicle Identification Number (VIN) is also located on the body bracket at the lower right corner of the windshield and can be viewed through the windshield.

 The Vehicle Identification Number (VIN) is always required when contacting an authorised PROTON e.MAS service outlet. If the VIN on the vehicle body is damaged, contact an authorised PROTON e.MAS service outlet for assistance. ◀

 The Vehicle Identification Number (VIN) can be read using diagnostic scanner at an authorised PROTON e.MAS service outlet. If required, the procedure should be performed through an authorised PROTON e.MAS service outlet. Attempting otherwise may cause damage to the vehicle. ◀

Drive Motor Code



The code or identification number of the drive motor is located at the center of the electric drive system.

1

2

3

4

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Dimension

Item	Unit	Parameter
Length	mm	4135
Width	mm	1805
Height	mm	1580

Weight

Item	Unit	Parameter
Kerb weight	kg	1220/1300
Front axle	kg	597/627
Rear axle	kg	623/673
Full load	kg	1610/1690
Front axle full load	kg	712/742
Rear axle full load	kg	898/948

Performance

Item	Unit	Parameter
Drive type	-	Rear-wheel drive (RWD)
Maximum vehicle speed	km/h	130
Maximum gradeability	%	25

Power Battery

Item	Unit	29.5kWh	39.4kWh
Type	-	Lithium iron phosphate (LFP)	Lithium iron phosphate (LFP)
Rated voltage	V	284	379
Rated capacity	Ah	104	104

Drive Motor

Item	Unit	Parameter
Model	-	TZ160XS001/TZ160XS002
Type	-	Permanent magnet synchronous motor (PMSM)
Rated power	kW	25/30
Peak power	kW	58/85
Rated torque	N·m	60/70
Peak torque	N·m	130/150
Rated speed	r/min	4000/4100
Peak speed	r/min	12000/12600

Tyres

Item	Parameter
Tyre size	205/65 R15 205/60 R16
Tyre pressure of front tyres	250 kPa
Tyre pressure of rear tyres	250 kPa

Wheel Alignment

Item	Parameter
Camber of front wheel	-16.8'±45' (left-and-right difference ≤45')
Camber of rear wheel	-70.2'±45' (left-and-right difference ≤45')
Kingpin inclination	12°92'±45' (left-and-right difference ≤45')
Caster	4°86'±30' (left-and-right difference ≤30')
Front wheel toe-in (one side)	7.5'±3' (left-and-right difference ±6')
Rear wheel toe-in (one side)	6'±3' (left-and-right difference ≤6')

Recommended Fluid and Capacity

Item	Specification	Capacity
Brake Fluid	DOT4	0.68 L
Windshield washer fluid	-	1.8 L
Drive motor and power battery coolant	Ethylene glycol-based coolant	6.4 L / 6.8 L

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