



EMZOOM 2025

Owner's Manual

Thank you for choosing a vehicle manufactured by GAC International Co., Ltd. To enhance your enjoyment of the driving pleasure this vehicle offers, please read the Owner's Manual carefully. This manual will allow you to fully understand the use methods and precautions of this vehicle. Correct use of this vehicle can improve driving safety and extend its service life.

The accompanying Warranty and Maintenance Manual explains the warranty service provided by GAC International Co., Ltd. and the scheduled maintenance instructions for this vehicle. Please read this manual carefully to understand your rights and responsibilities.

If you encounter anything unclear while reading this manual, a GAC Service Center can provide a detailed explanation.

If you have any suggestions or comments, please contact GAC International Co., Ltd. or a GAC Service Center.

Thank you for your support and appreciation of GAC Motor. We wish you pleasant driving!

GAC International Co., Ltd.

Safety Instructions

The safety of you and your passengers is very important, so safe vehicle operation is a key responsibility of the user.

To help you understand safety precautions, we have provided instructions on operating procedures and precautions through various signs on the vehicle and in this manual, reminding you of potential hazards that could injure you or your occupants.

This manual cannot list all the hazardous precautions related to operating and maintaining the vehicle, so it is up to you to make correct judgments in time.

Safety instructions come in various forms, including:

- Safety labels are affixed to the vehicle.
- Safety notices are preceded by the symbols , ,  and one of the three words: "WARNING," "CAUTION," or "NOTE."

 **WARNING** Important information that may cause personal injury or death.

 **Note** Relatively important information that may cause vehicle damage.

 **Tip** General information that will not cause harm.

- Some sections of this manual do not apply to all models. Optional equipment descriptions are marked with an asterisk "*" after the title.
- Unless otherwise specified, all directional descriptions (front, rear, left, right) in this manual are based on the vehicle's direction of travel.

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1. Important Safety Precautions

◆ Comply with Traffic Regulations

Limit speed, avoid speeding and overloading, and yield to pedestrians.

◆ Properly Wear Seat Belts

In a collision, seat belts are the best protection. Airbags are only supplemental to seat belts, not a substitute. Therefore, even if the vehicle is equipped with airbags, ensure that you and your passengers always wear seat belts correctly.

◆ Child Passenger Safety

When children are riding in the vehicle, child safety seats should be used correctly.

Never leave children unattended in the vehicle to avoid injury or death due to accidental operation or high temperatures inside the vehicle.

◆ Airbag Hazard Warning

Airbags can save lives, but they can also cause serious or fatal injuries to occupants who are too close to the airbag or improperly restrained.

Children are prohibited from sitting in the front passenger seat. In the event of an accident, the powerful impact generated by airbag deployment will cause severe injury to children.

◆ Drive Alert

Maintain an alert driving state. Never drive after consuming alcohol or taking medication with side effects such as sedation, drowsiness, fatigue, headache, or blurred vision, as this will impair your ability to control the vehicle and could lead to an accident resulting in injury or death.

◆ Driving Safety Warning

Do not over-rely on driving assistance features. The driver should always remain focused, otherwise, a moment of negligence may lead to a traffic accident or even personal injury.

◆ Regular Maintenance

Please perform regular maintenance according to the schedule specified in the "Warranty and Maintenance Manual" to avoid vehicle damage due to long-term lack of maintenance.

Using the oils and fluids recommended in this manual and performing maintenance as required will effectively extend the vehicle's service life.

◆ Exhaust Gas Hazard

Engine exhaust contains toxic carbon monoxide gas. Please use the vehicle correctly to prevent carbon monoxide gas from entering the cabin.

Prolonged engine operation in an enclosed space (such as a garage) will quickly accumulate carbon monoxide, leading to excessively high levels of carbon monoxide in the cabin. After starting the engine, immediately drive out of the enclosed space.

1. Important Safety Precautions

Event Data Recorder (EDR) System

This vehicle is equipped with an Event Data Recorder (EDR) system. The main function of the EDR is to record data in certain collision situations (such as airbag deployment or hitting a road barrier) to help understand the operation of vehicle systems. The EDR is specifically designed to record data related to vehicle dynamic control and safety systems for short periods to assist in accident analysis.

i Tip

The vehicle only records EDR data when a certain level of collision occurs; EDR does not record data during normal driving.

Possible Uses of EDR Data

The data recorded by the EDR helps to better understand the circumstances of collisions and injuries, and is used to assist in accident analysis.

Except in the following situations, GAC International Co., Ltd. will not disclose data recorded in the EDR to third parties:

- Agreement with the vehicle owner (or lessee of a rental vehicle).
- Upon official request from police, court, or government agencies.
- If necessary, the data will be used for research on vehicle safety performance.

Acquiring EDR Data Reading Tools

Reading EDR data requires special technical equipment. For more information, please consult a GAC Service Center.

Extracting data from the EDR controller

Reading data from the Event Data Recorder (EDR) requires professional tools and involves a complex operating procedure. If you need to know more, please visit a GAC Service Center for consultation.

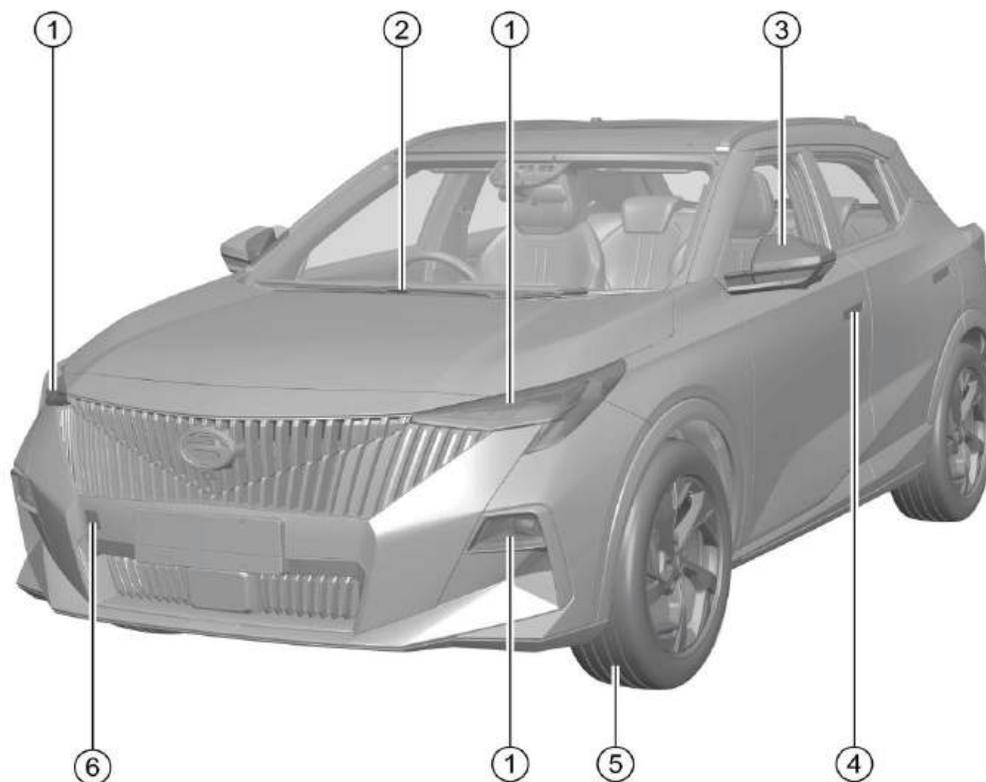
Non-Locked Event Storage Override Mechanism and Overridable Event Types

Current events can overwrite previous non-locked event data. Locked event data cannot be overwritten by subsequent event data.

Overridable events (i.e., non-locked events) include:

- Irreversible restraint device not deployed;
- The change in vehicle speed in the X-axis direction is less than 25 km/h within a 150 ms timeframe.

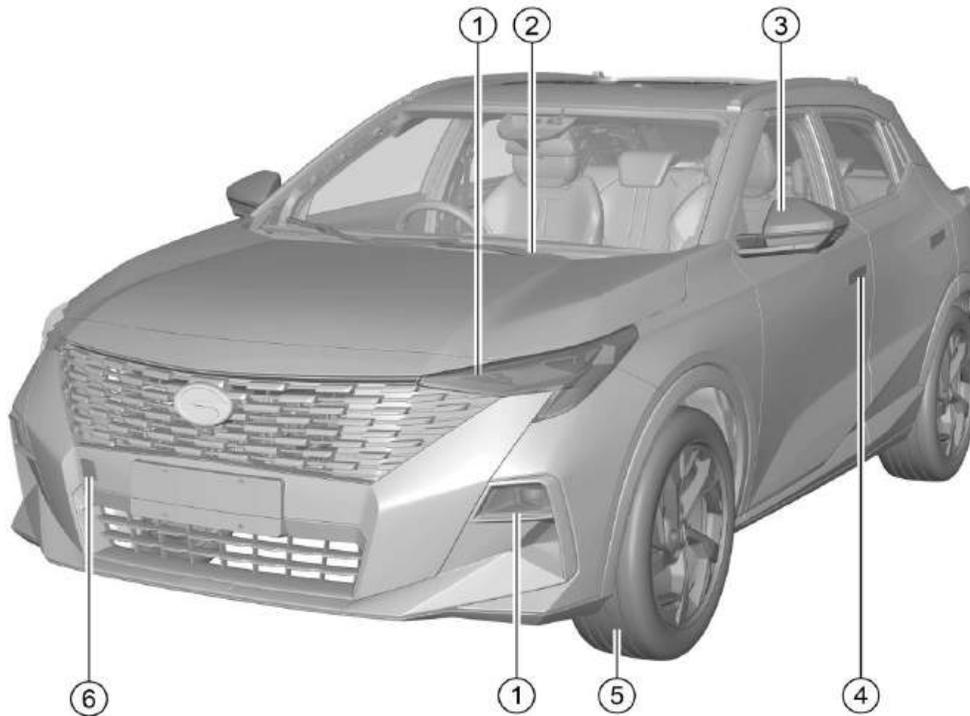
2.1 Exterior



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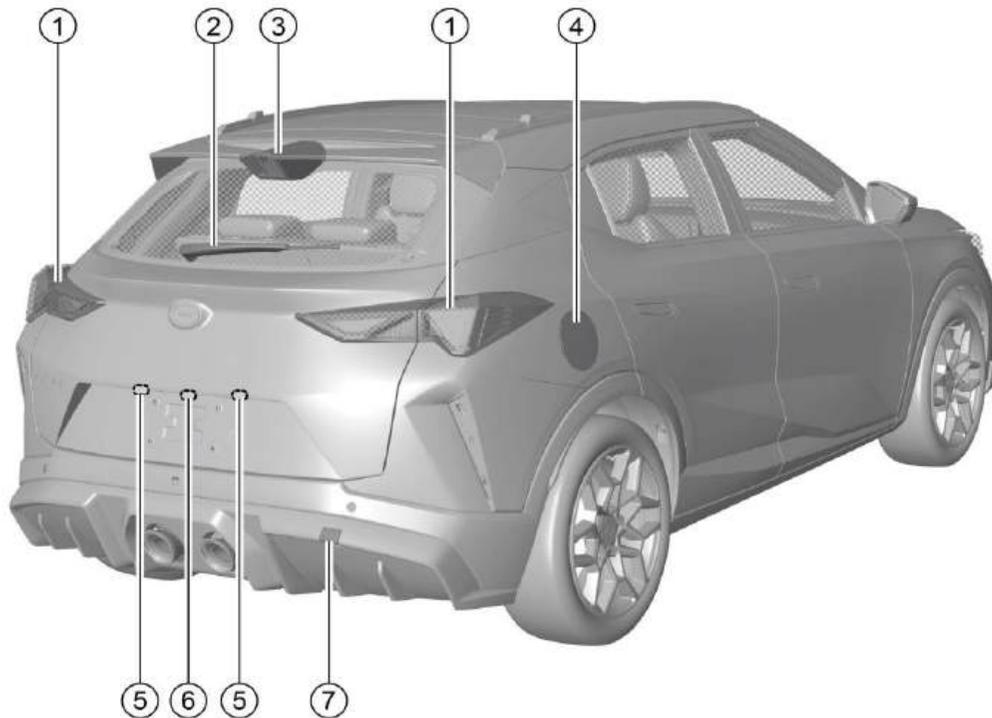
- ① Front Combination Lamp
 - Turning on lights => [See page 72](#)
 - Replacing bulbs => [See page 218](#)
 - Front combination light bulb specifications => [See page 237](#)
- ② Front Wiper
 - Replacing front windshield wiper blades => [See page 213](#)
- ③ Exterior Rearview Mirror
 - Side turn signal light => [See page 73](#)
 - Side turn signal light specifications => [See page 237](#)
- ④ Hidden Door Handle => [See page 53](#)
 - Door lock cylinder => [See page 49](#)
- ⑤ Wheels => [See page 221](#)
- ⑥ Front Towing => [See page 247](#)

2. Image Index



Type Two:

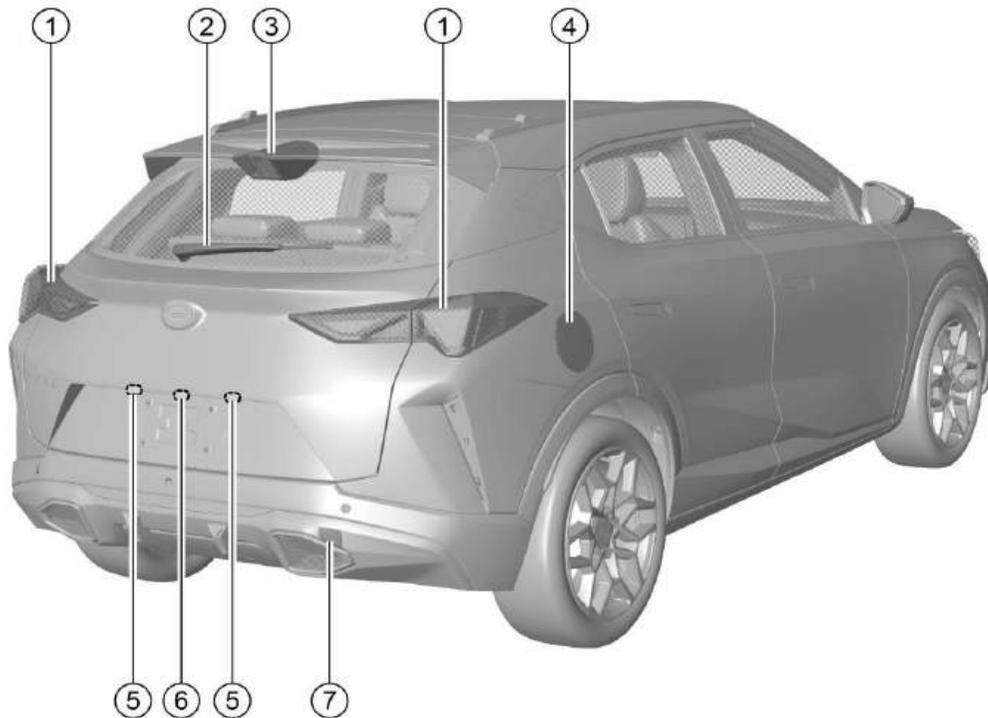
- ① Front Combination Lamp
 - Turning on lights => [See page 72](#)
 - Replacing bulbs => [See page 218](#)
 - Front combination light bulb specifications => [See page 237](#)
- ② Front Wiper
 - Replacing front windshield wiper blades => [See page 213](#)
- ③ Exterior Rearview Mirror
 - Side turn signal light => [See page 73](#)
 - Side turn signal light specifications => [See page 237](#)
- ④ Hidden Door Handle => [See page 53](#)
 - Door lock cylinder => [See page 49](#)
- ⑤ Wheels => [See page 221](#)
- ⑥ Front Towing => [See page 247](#)



Type One:

- ① Rear Combination Light
 - Rear combination light bulb specifications => [See page 237](#)
 - Rear fog light specification (left side) => [See page 237](#)
 - Reverse light specification (right side) => [See page 237](#)
- ② Rear Wiper
 - Replacing front windshield wiper blades => [See page 213](#)
- ③ High-Mount Brake Light
 - High-mount brake light specification => [See page 237](#)
- ④ Fuel Filler Door => [See page 203](#)
- ⑤ License Plate Light
 - License plate light specification => [See page 237](#)
- ⑥ Tailgate Release Button => [See page 56](#)
- ⑦ Rear Towing => [See page 248](#)

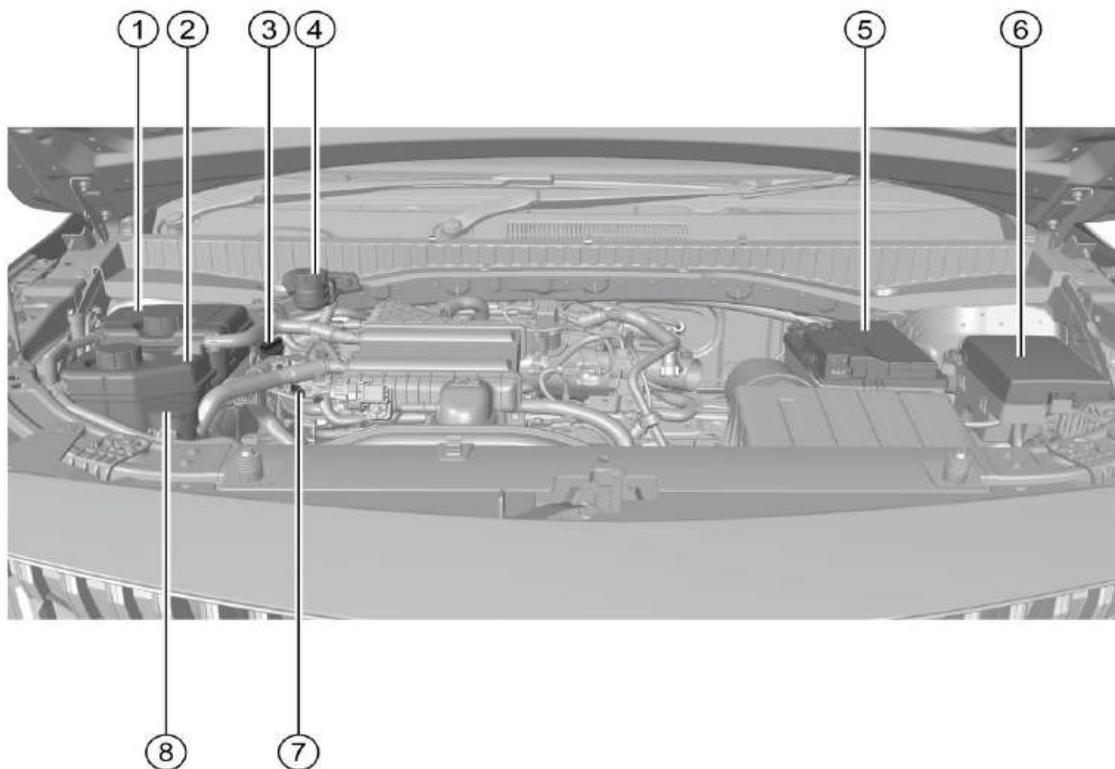
2. Image Index



Type Two:

- ① Rear Combination Light
 - Rear combination light bulb specifications => [See page 237](#)
 - Rear fog light specification (left side) => [See page 237](#)
 - Reverse light specification (right side) => [See page 237](#)
- ② Rear Wiper => [See page 56](#)
 - Replacing the rear window wiper blade => [See page 213](#)
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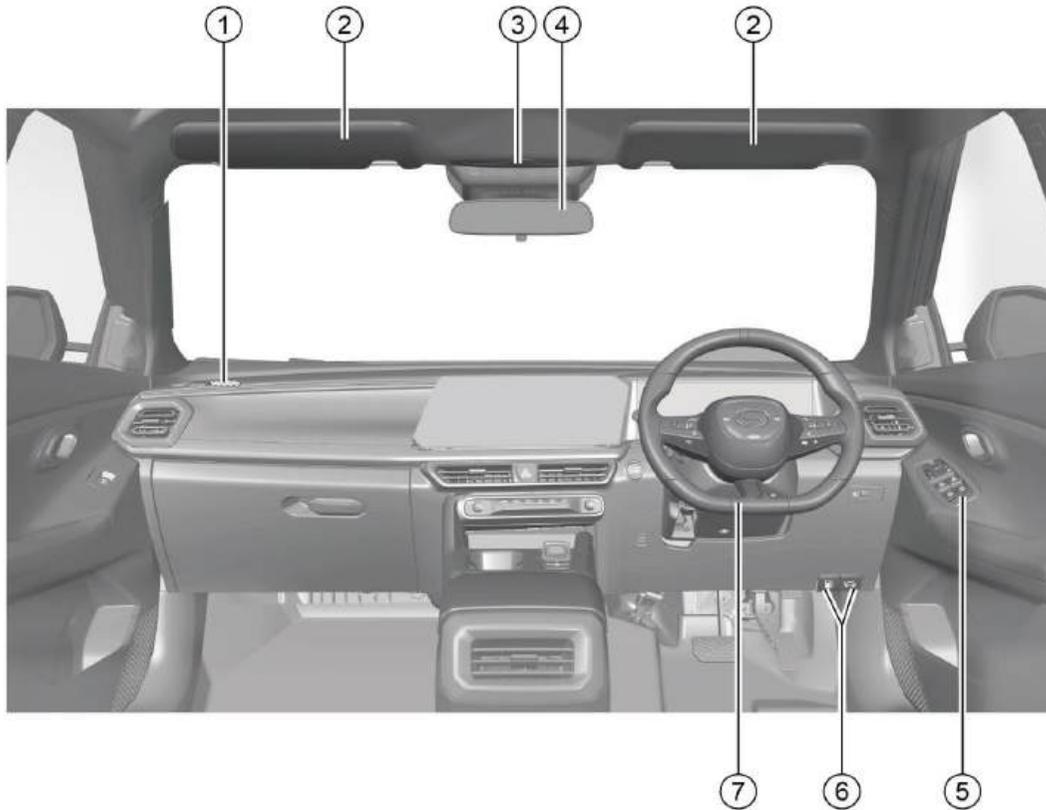
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- ① Engine Coolant Reservoir => [See page 210](#)
- ② Intercooler Coolant Expansion Tank => [See page 209](#)
- ③ Engine Oil Filler Cap => [See page 208](#)
- ④ Brake Fluid Reservoir => [See page 214](#)
- ⑤ Battery => [See page 215](#)
- ⑥ Engine Compartment Fuse Box => [See page 243](#)
- ⑦ Engine Oil Dipstick => [See page 207](#)
- ⑧ Windshield Washer Fluid Reservoir => [See page 211](#)

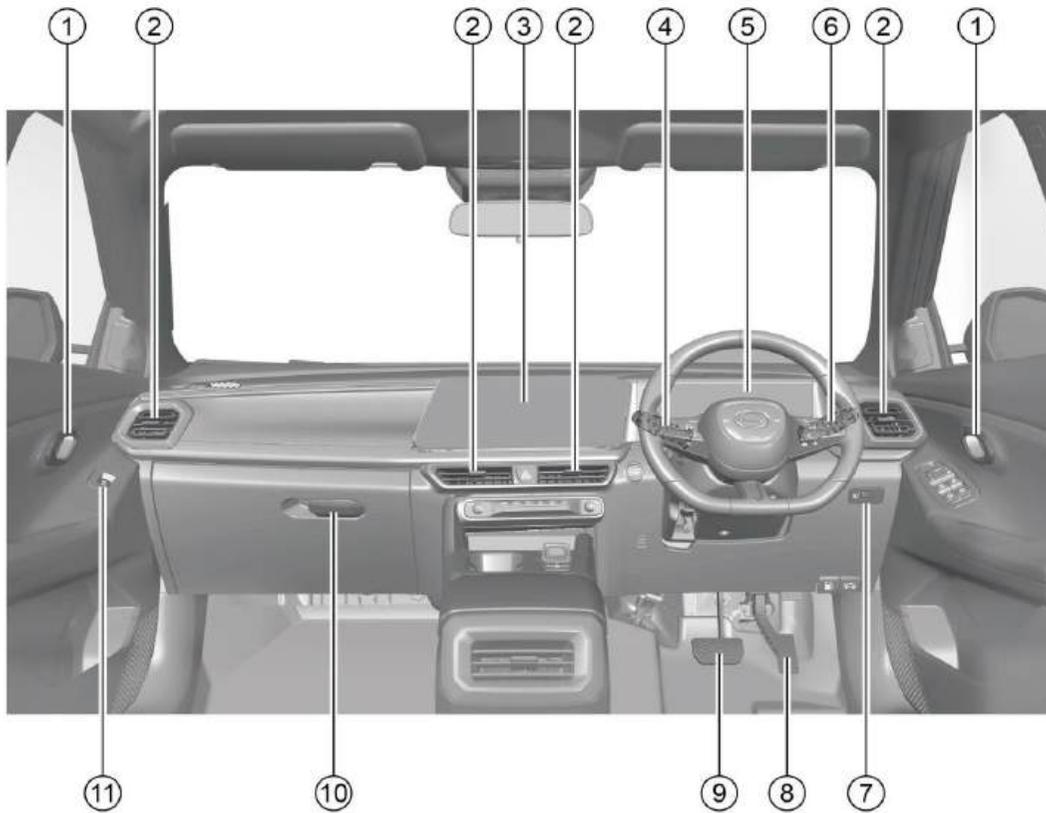
2. Image Index

2.2 Interior



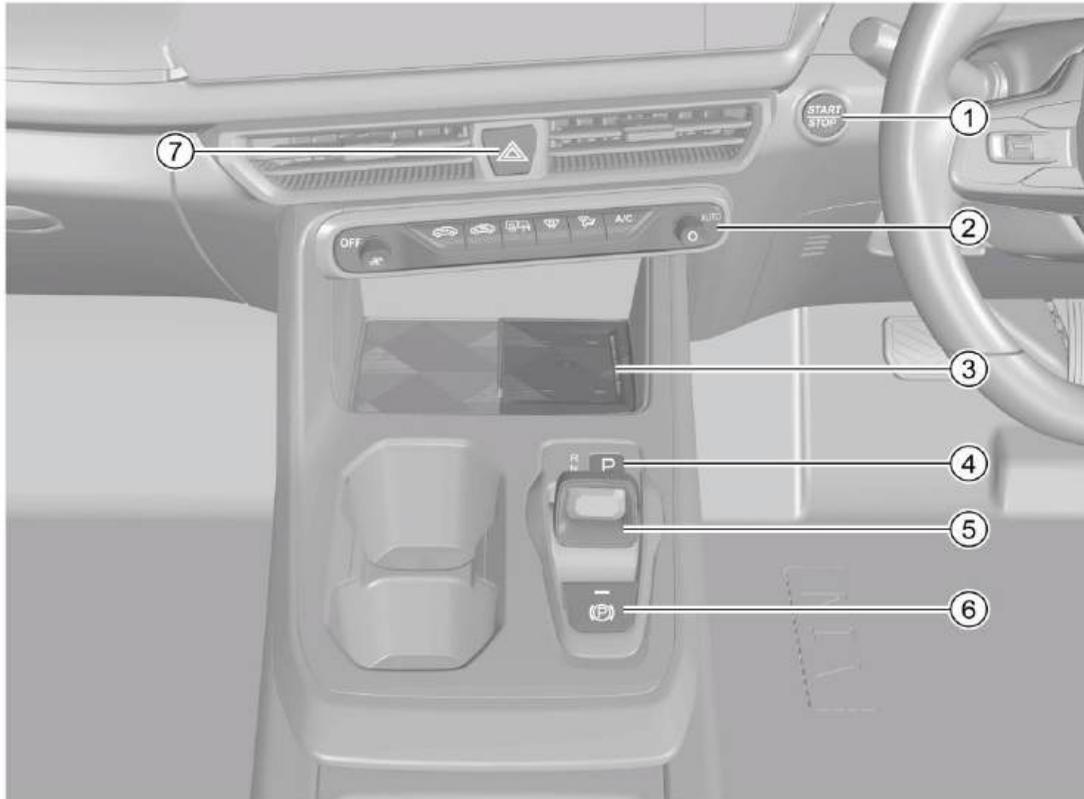
- ① Front Passenger Frontal Airbag => See page 20
- ② Sun Visor => See page 85
- ③ Front Dome Light => See page 78
 - Electric Sunroof Button* => See page 67
 - Electric Sunshade Button* => See page 67
- ④ Interior Rearview Mirror => See page 82
- ⑤ Driver's Side Power Window Buttons => See page 64
 - Exterior rearview mirror folding button* => See page 83
 - Exterior rearview mirror adjustment button => See page 83
 - Central door lock button => See page 48
- ⑥ Hood Release Lever => See page 62
 - Fuel Filler Door Release Lever => See page 204
- ⑦ Steering Wheel => See page 35
 - Steering Wheel Buttons => See page 36
 - Driver's Frontal Airbag => See page 19

2. Image Index



- ① Interior Door Handle => See page 48
- ② Air Vent => See page 104
- ③ Infotainment System Display Screen => See page 106
- ④ Light Combination Switch => See page 72
- ⑤ Instrument Cluster => See page 37
 - Indicator Lights => See page 39
- ⑥ Wiper Combination Switch => See page 79
- ⑦ Headlight Leveling Manual Adjustment Knob => See page 76
- ⑧ Accelerator Pedal
- ⑨ Brake Pedal
- ⑩ Glove Box Release Handle => See page 91
- ⑪ Passenger Side Power Window Button => See page 65

2. Image Index



- ① Start/Stop Button => [See page 115](#)
- ② Air Conditioning Control Panel => [See page 103](#)
- ③ Wireless Phone Charging Area* => [See page 93](#)
- ④ "P" Gear Button => [See page 118](#)
- ⑤ Gear Shift Lever => [See page 118](#)
- ⑥ Electronic Parking Brake System Button => [See page 125](#)
- ⑦ Hazard Warning Light Switch => [See page 77](#)

3.1 Safe Driving

3.1.1 General Instructions

This section provides important information, operating essentials, suggestions, and safety precautions for safe driving. For your safety and that of your passengers, please read and comply with the relevant regulations carefully.

Always perform the following checks before driving:

- Ensure all lights are working properly.
- Ensure fuel level is normal.
- Ensure coolant level is normal.
- Ensure brake fluid level is normal.
- Ensure engine oil level is normal.
- Ensure windshield washer fluid level is normal.
- Ensure tire pressure is normal.
- Ensure the front engine hood is properly closed and locked.
- Ensure all windows are clear and visibility is good.
- Ensure no items obstruct the movement of the pedals in the driver's footwell.
- Adjust the seat, headrest, and rearview mirrors according to your height and body type.
- Use an appropriate child safety seat to protect children and help them fasten their seat belts.
- Properly fasten your seat belt and remind all occupants in the vehicle to fasten their seat belts.

WARNING

When installing the driver's floor mat, please observe the following precautions:

- **Do not stack two or more floor mats.**
- **Do not place the floor mat with its bottom side up or reversed.**
- **Do not use floor mats that are not compatible with this vehicle model.**

CAUTION

- Do not allow external factors to distract you while driving.
- Do not drive after consuming alcohol or taking medications with side effects such as sedation, drowsiness, fatigue, headache, or blurred vision, as this may impair your ability to control the vehicle and lead to accidents, causing injury or death.
- Strictly comply with traffic regulations.

3. Safe Operation Instructions

3.1.2 Correct Seating Posture for Driver and Occupants

Correct Driving Posture

The correctness of the driver's posture directly affects the driver's fatigue level and driving safety. Before driving, the driver should perform the following operations:

1. Sit upright, adjust the seat back to a suitable position, ensuring the back is fully against the seat back.
2. Adjust the seat position so that all pedals can be operated effectively with slightly bent legs.
3. Correctly adjust the seat headrest. => See page 85
4. Fasten the seat belt correctly. => See page 16
5. Adjust the steering wheel position. => See page 35

WARNING

While driving, the driver must not adjust the seat, headrest, or steering wheel, as this could lead to loss of vehicle control and cause an accident.

Correct Passenger Posture

To ensure passenger safety and reduce the risk of injury in an accident, passengers should perform the following operations:

1. Sit upright and correctly adjust the seat headrest. => See page 85
2. Front-row occupants should adjust the distance between the seat and the dashboard according to their needs.
3. Front-row occupants should adjust the seat backrest to a suitable position, so that the back is fully against the seat backrest.
4. Fasten the seat belt correctly. => See page 16
5. Both feet should be placed on the floor.
6. When carrying children, appropriate child safety seats must be used as required to protect them. => See page 26

WARNING

- **Child safety seats are prohibited in the front passenger seat.**
- **If the front passenger is too close to the dashboard, the airbag system will not provide effective protection.**
- **While driving, you must maintain a correct sitting posture and properly wear your seat belt to avoid injury during emergency braking or in the event of an accident.**

3. Safe Operation Instructions

3.2 Seat Belts

3.2.1 Why Seat Belts Must Be Worn

Protection of Occupants by Seat Belts



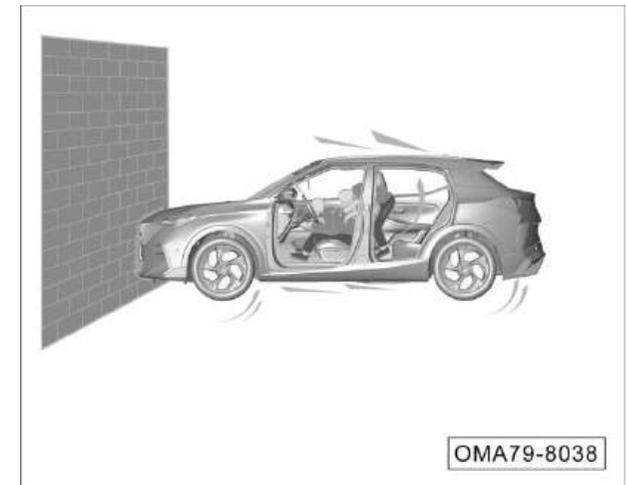
In the event of a collision, correctly worn seat belts can restrain occupants in the proper position, slow down their forward momentum, prevent them from being thrown forward, and allow them to receive optimal protection from airbags, minimizing the impact damage they sustain.

In the event of a vehicle collision, seat belts assist other safety systems in simultaneously absorbing the energy generated by the collision, further reducing injuries to occupants.

⚠ WARNING

Airbags cannot replace seat belts. Regardless of whether the vehicle is equipped with airbags, seat belts should always be worn correctly.

Consequences of Not Wearing a Seat Belt



In the event of a vehicle collision, unrestrained occupants will be thrown forward due to inertia and suffer injuries.

3. Safe Operation Instructions



Even at low speeds, unrestrained occupants may be thrown forward in a collision, and any impact with objects inside the vehicle can cause injury.



Rear passengers must also wear seat belts correctly, otherwise they will be thrown forward in the event of an accident. Unrestrained occupants not only injure themselves but also endanger other occupants in the vehicle.

3.2.2 Seat Belts

Seat Belt Reminder Light

: Driver's seat belt reminder light

: Front passenger seat belt reminder light. When the vehicle power is in the "ON" position, the following warnings will be displayed:

- When the vehicle speed is $<20\text{km/h}$, if the driver or front passenger is not wearing a seat belt, the corresponding indicator light on the instrument cluster will flash for a few seconds and then remain steadily on.
- When the vehicle speed is $\geq 20\text{km/h}$, if the driver or front passenger is not wearing a seat belt, the corresponding indicator light on the instrument cluster will flash for a period and then remain steadily on, accompanied by an alarm message and a continuous audible alarm.

3. Safe Operation Instructions

CAUTION

- Before driving, please check if there are heavy objects on the front passenger seat to prevent the system from mistakenly thinking there is an occupant and issuing a false alarm.
- If the above warning message persists after the seat belt is fastened correctly, it indicates a malfunction in the seat belt system. Please contact a GAC Service Center for inspection and repair promptly.

WARNING

It is strictly forbidden to insert a seat belt tongue substitute into the buckle to disable the seat belt warning.

: Second-row seat belt reminder light*

A white illuminated second-row seat belt reminder light indicates the seat belt is fastened, while a red illuminated light indicates the seat belt is unfastened or there is a fault in the seat belt system. If the indicator light remains red after the seat belt is fastened correctly, the seat belt system may be malfunctioning. Please visit a GAC Service Center for inspection and repair promptly.

The second-row seat belt reminder light turns off after a period of display. The indicator light will reappear in the following situations:

- When the engine starts and the second-row occupant is not wearing a seat belt.
- When a rear door is opened/closed and the second-row occupant is not wearing a seat belt.
- When a second-row occupant fastens or unfastens their seat belt.

Seat Belt Pretensioner and Load Limiter System*



The seat belt pretensioner and load limiter can reduce the pressure exerted by the seat belt on the occupant's chest, improving protection performance.

- Before a collision occurs, it restrains occupants in a proper sitting posture, preventing excessive forward leaning.
- In the event of a severe collision that meets the trigger conditions, the seat belt pretensioner and load limiter system will activate, causing the seat belt webbing to quickly retract in the opposite direction and tighten.

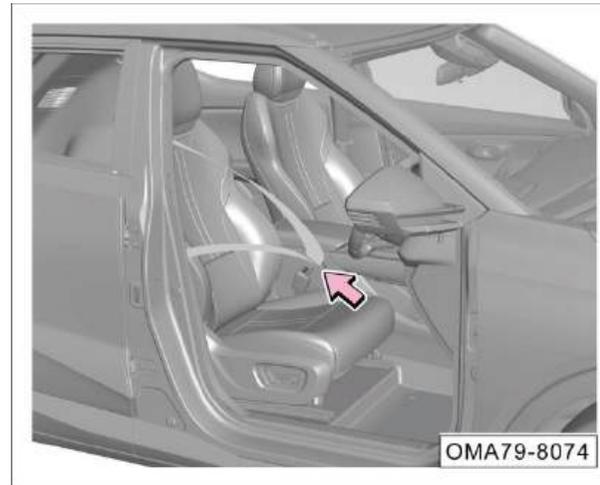
3. Safe Operation Instructions

- After a collision occurs, as the occupant's body moves forward, the seat belt load limiter system activates, keeping the restraining force of the seat belt on the body within a certain force range, preventing excessive force from causing further harm to the occupant, and working in conjunction with the airbag to achieve better safety protection performance.

i Tip

- When the seat belt pretensioner and load limiter system activates, it will release a small amount of harmless smoke and make a sound, which is normal.
- A pre-tensioning and force-limiting seat belt device that has been activated cannot be reused. The  Supplemental Restraint System (SRS) indicator light will remain on. Please contact a GAC Service Center for a replacement.

Fastening the Front Seat Belts



1. Maintain correct posture. => See page 12
2. Slowly and evenly pull out the seat belt, insert the buckle tongue into the corresponding buckle until a click is heard.
3. Pull the seat belt tongue to confirm that it is correctly fastened.

i Tip

The method for fastening the second-row seat belts is the same. The driver is responsible for reminding all other passengers to wear their seat belts correctly.

Unfastening Seat Belts



- Press the red button on the buckle; the buckle tongue will automatically eject.
- Hold the seat belt and allow it to retract slowly.

Pregnant women must wear seat belts correctly.



How a pregnant woman should properly use a seat belt.

1. Adjust the seat and headrest to a suitable position.
2. Hold the buckle tongue firmly, slowly pull the seat belt over the shoulder, and ensure the lap belt portion is as low as possible, absolutely avoiding pressure on the abdomen.
3. Insert the buckle tongue into the corresponding buckle until you hear a click.
4. Pull the shoulder belt part parallel to the upper body, tension the lap belt, and ensure the buckle is correctly engaged.

⚠ WARNING

To reduce the risk of injury to occupants during emergency braking or in an accident, please observe the following precautions:

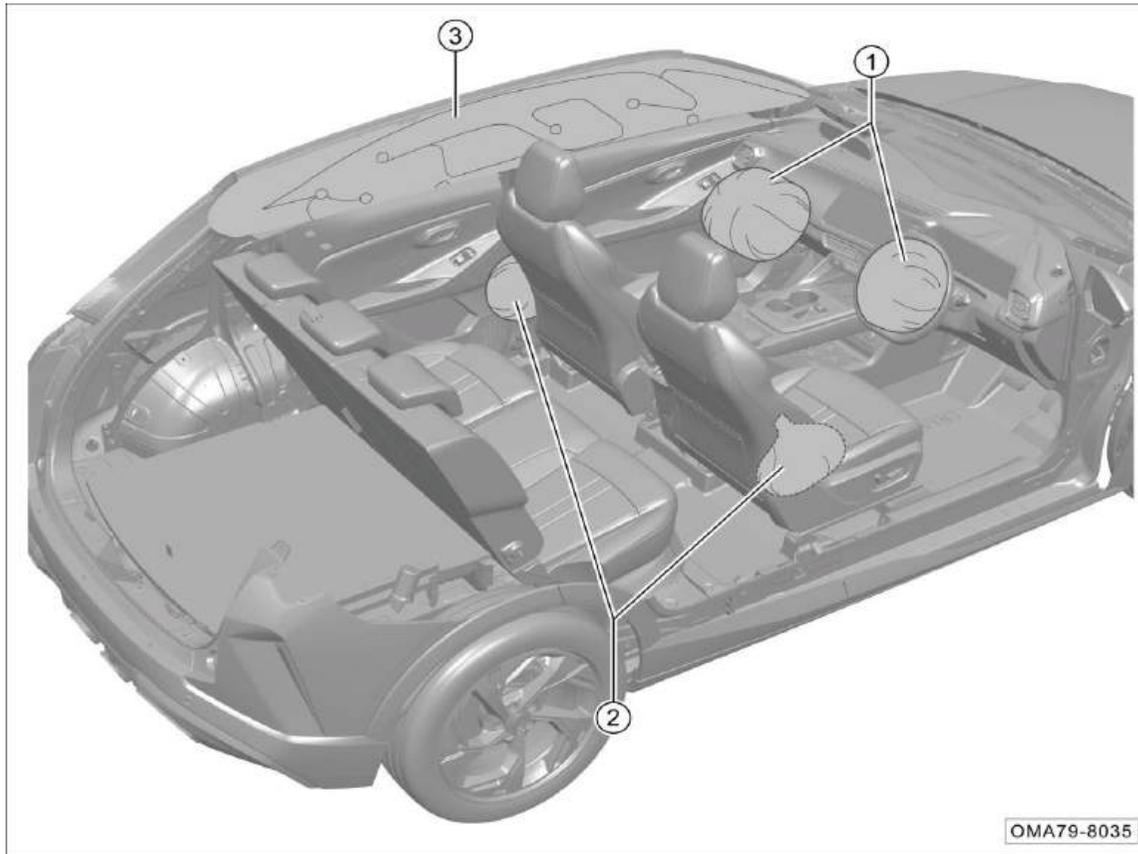
- Before driving, ensure that all occupants in the vehicle have properly fastened their seat belts.
- Each seat belt is for single-person use only. Do not share a seat belt with multiple people (including children).
- Do not excessively recline the front seat backrest for comfort.
- Do not place the shoulder belt under your arm or behind your back.
- The seat belt buckle tongue must be inserted into the buckle on the corresponding side. Do not insert it into buckles on other sides.
- Do not unfasten the seat belt before the vehicle has come to a complete stop.

⚠ WARNING

- Do not modify or disassemble the seat belt without authorization, as this may affect the protective function of the seat belt.
- If the seat belt has frayed edges, is soiled, or damaged, it must be replaced in a timely manner.
- The seat belt can be wiped with a sponge dampened with neutral soapy water. After wiping, place the seat belt in a cool place to dry before use. However, seat belts can only be cleaned in the car and should not be arbitrarily removed.
- When the seat belt is not in use, it should be fully retracted and not left in a loose or hanging state.

3. Safe Operation Instructions

3.3 Airbag System



Depending on the configuration, the airbag system has the following deployment schematic locations:

- ① Frontal Airbags
- ② Front Side Airbags
- ③ Side Curtain Airbags (symmetrical left and right)

i Tip

When an airbag inflates, it produces a small amount of harmless smoke. This is normal.

Supplemental Restraint System (SRS) Indicator Light

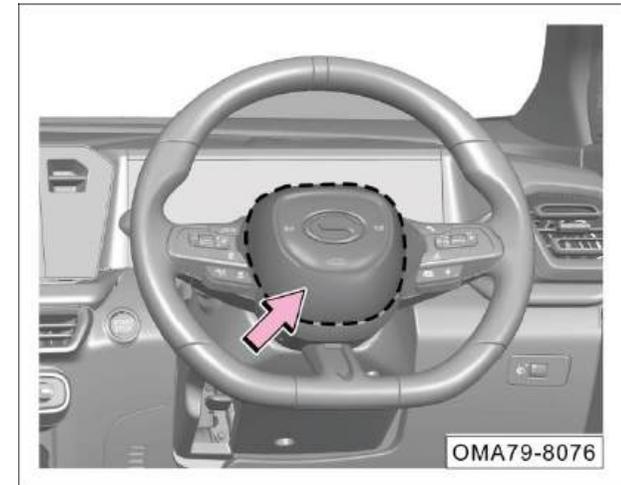
When the vehicle power is switched to the "ON" position, the indicator light  illuminates for a few seconds and then turns off after the system completes self-diagnosis.

The indicator light  indicates a system fault in the following situations:

1. After the vehicle power is switched to the "ON" position, the indicator light does not illuminate.
2. After the vehicle power is switched to the "ON" position, the indicator light does not turn off after the system completes self-diagnosis.
3. After the vehicle power is switched to the "ON" position, the indicator light turns off and then illuminates again.
4. The indicator light illuminates or flashes while the vehicle is in motion.

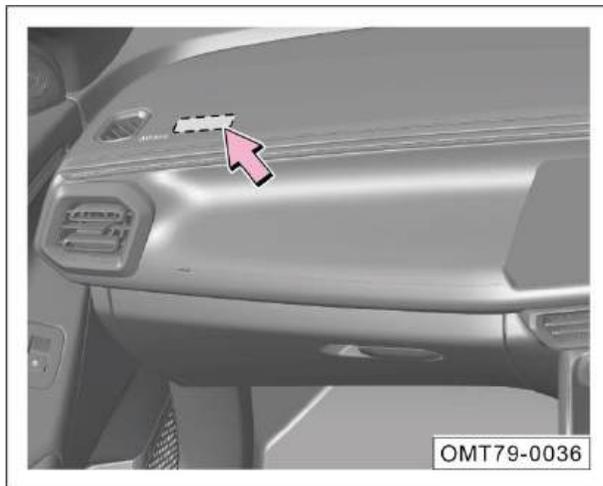
 WARNING
<ul style="list-style-type: none">• Never attempt to repair, adjust, or modify the airbag.• An airbag can only deploy once. If it has been triggered in an accident, you must contact a GAC Service Center to have it replaced.• If there is a malfunction in the airbag system, please contact a GAC Service Center for inspection and repair. Otherwise, the system may fail to deploy or improperly deploy the airbags in the event of a vehicle collision.

Front Airbags



The driver's frontal airbag is installed inside the steering wheel (dashed shaded area). "AIRBAG" is the airbag symbol.

3. Safe Operation Instructions



The front passenger's frontal airbag is installed inside the dashboard (dashed shaded area). "AIRBAG" is the airbag symbol.

In a severe frontal collision, if the deployment conditions are met, the system will trigger the frontal airbags to inflate rapidly, providing additional protection for the front occupants in conjunction with the seat belts.

In certain types of collision accidents, the system may simultaneously trigger airbags in other locations.

WARNING

Do not attach or place any decorative objects on the surface area of the dashboard. If the vehicle is in motion or the airbag inflates, these objects may fall off, tumble, and roll around inside the vehicle, affecting the driver's driving and injuring occupants.

The front frontal airbags may not deploy in the following situations:

- Vehicle power is in the "ACC" or "OFF" position.
- Minor frontal collisions.

Side Collision

- Rear impact.
- Rollovers.
- Other special circumstances.

Tip

"Minor" refers to the airbag controller's perception of the impact, and is unrelated to the extent of vehicle damage.

Front Side Airbags



The front side airbags are installed in the door-side of the driver's and front passenger's seatbacks (dashed shaded area). "AIRBAG" is the airbag symbol.

In a severe side collision, if the deployment conditions are met, the system will trigger the side airbag on the impacted side of the vehicle to inflate rapidly, providing additional protection for the front occupants in conjunction with the seat belts.

In certain types of collision accidents, the system may simultaneously trigger airbags in other locations.

The front side airbag system may not deploy in the following situations:

- Vehicle power is in the "ACC" or "OFF" position.
- 100% frontal collisions.
- Minor side collisions.
- Rear impact.
- Other special circumstances.

Tip

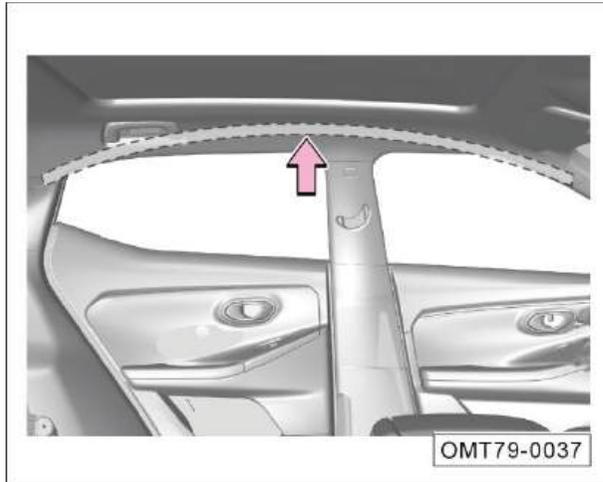
"Minor" refers to the airbag controller's perception of the impact, and is unrelated to the extent of vehicle damage.

WARNING

- **While driving, do not lean your body against the side of the door where the side airbag is equipped.**
- **Do not use seat covers or other items to cover the side airbags, as this may prevent them from providing protection in an accident.**

3. Safe Operation Instructions

Side Curtain Airbags



The side curtain airbags are installed inside the roof lining on the left and right sides (dashed shaded area). "AIRBAG" is the airbag symbol.

In a severe side collision, the system will trigger the side curtain airbag on the impacted side of the vehicle to inflate rapidly, providing additional protection for the occupants in conjunction with the seat belts.

In certain types of collision accidents, the system may simultaneously trigger airbags in other locations.

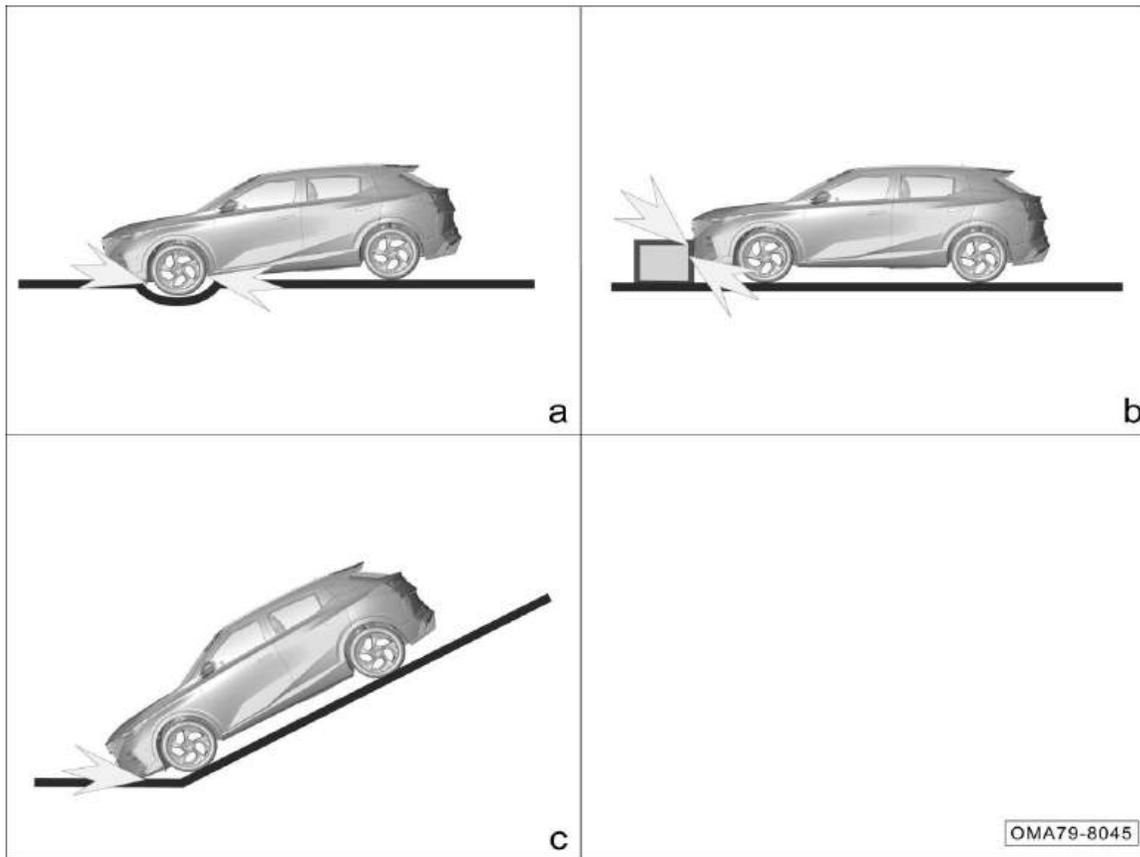
The side curtain airbags may not deploy in the following situations:

- Vehicle power is in the "ACC" or "OFF" position.
- 100% frontal collisions.
- Minor side collisions.
- Rear impact.
- Other special circumstances.

Tip

"Minor" refers to the airbag controller's perception of the impact, and is unrelated to the extent of vehicle damage.

3.3.1 Situations where airbags may deploy



a. The front of the vehicle hits the ground when crossing a deep ditch.

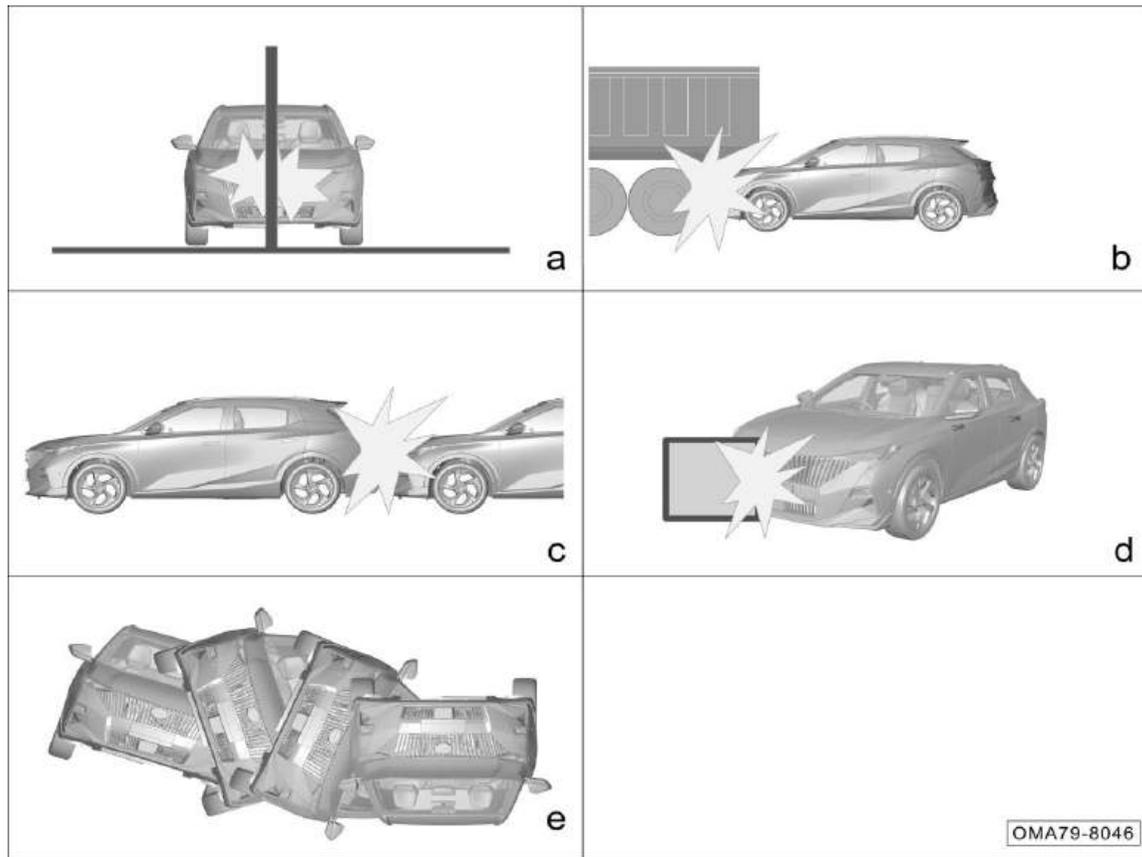
b: Hitting a raised object on the roadside, a curbstone, etc.

c: When going down a steep slope, the front of the car hits the ground.

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3. Safe Operation Instructions

3.3.2 Situations where airbags may not deploy



a: Hitting a concrete pole, tree, or other slender object.

b: Rear-ending a large cargo truck, such as a semi-truck, from underneath the rear.

c: The vehicle is rear-ended by another vehicle from behind.

d: Non-frontal impact with a wall or vehicle.

e: Vehicle rolls over sideways.

3.4 Child Safety in Vehicle

3.4.1 General Instructions

Children must be placed in the second-row outer seats, and an appropriate child safety seat must be chosen to protect the child based on their size.



Warning labels are affixed on the front and back of the right sun visor, reminding you of the dangers of the front passenger frontal airbag. Be sure to read and follow the instructions on the label.

⚠ WARNING

- **Do not use a rear-facing child restraint system in a seat protected by a frontal airbag!**
- **Even when a child is properly secured in a child safety seat, do not allow them to lean their head or any part of their body against the door area (the deployment zone of the front side airbag or side curtain airbag*). This is extremely dangerous, as the force of an inflating front side airbag or side curtain airbag* could cause serious injury or death to the child.**
- **Never allow children to stand or kneel on the seats.**
- **Never allow children to operate equipment that could cause injury, such as power windows, electric sunroofs*, etc.**

⚠ WARNING

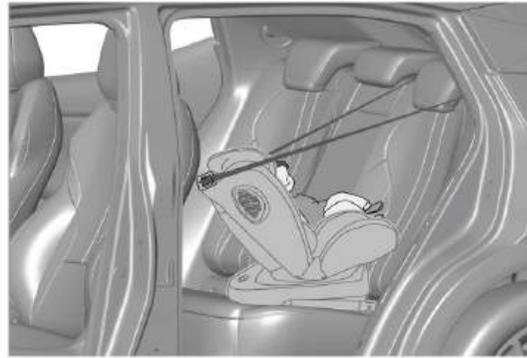
- **Never leave children unattended in the vehicle!**
- **Never hold infants or toddlers on your lap!**
- **Seat belts are not suitable for infants and toddlers and can cause injury in the event of an accident.**
- **Ensure that children are not easily injured by hitting hard objects inside the car in the event of a collision or emergency braking.**
- **For the child's seating position, the child safety lock on the door should be engaged. => See page 50**

3. Safe Operation Instructions

3.4.2 Child Safety Seats



a. Group 0/0+ child safety seat



b. Group I Child Safety Seat



c. Group II Child Safety Seats



d. Group III child safety seat

OMA79-0096

Child Safety Seat Classification Levels (for reference only):

a. Group 0/0+ child safety seats:

- Suitable for infants weighing less than 13kg.

b. Group I child safety seats:

- Suitable for toddlers weighing (9~18)kg. For children weighing no more than 18kg (approximate age 3 years), this child seat must be installed rear-facing.

c. Group II child safety seats:

- Suitable for children weighing (15~25)kg.

d. Group III child safety seats:

- Suitable for children weighing (22~36)kg.

Group I child safety seat recommended is Welldon Angela 2nd generation, product model: :

Installation precautions are as follows:

- Seat adjustment: It is recommended to install rear-facing, and adjust the seat body to the most upright (nearly vertical) position.
- Headrest adjustment: It is recommended that the child seat headrest be level with the child's shoulders.
- It is recommended to attach the top tether hook to the anchorage point on the back of the vehicle seat.
- It is recommended that the top tether path goes around both sides of the child seat headrest.
- It is recommended to use buckle pads and shoulder strap covers.

i Tip

During the actual installation of the child safety seat, be sure to refer to the child safety seat owner's manual for correct installation.

3. Safe Operation Instructions

3.4.3 Child Safety Seat Related Information

Information on the applicability of child restraint systems for different seating positions:

Weight Group	Fitting Position		
	Front Passenger Seat	Second-row Outboard Seats	Second-row Middle Seat
Group 0: <10kg	X	U	X
Group 0+: <13kg	X	U/UF	X
Group I: (9~18)kg	X	U/UF/L	X
Group II: (15~25)kg	X	UF	X
Group III: (22-36) kg	X	UF	X

Note: The meanings of the letters in the table are as follows:

U = Suitable for "Universal" category child restraint systems approved for this mass group.

UF = Suitable for forward-facing "Universal" category child restraint systems approved for this mass group.

L = Suitable for special category child restraint systems on the list, which may be special vehicle specific, restricted, or semi-universal.

X = This seating position is not suitable for child restraint systems of this mass group.

Some child safety seats specify a size class. Always check the size class according to the manufacturer's instructions, packaging, and the child safety seat's label. For proper installation instructions, please refer to the child safety seat's owner's manual.

ISOFIX Child Safety Seat Corresponding ISOFIX Fixing Positions

Weight Group	Size Category	Fixture Module	Fitting Position		
			Front Passenger Seat	Second-row Outboard Seats	Second-row Middle Seat
Portable Baby Crib	F	ISO/L1	X	X	X
	G	ISO/L2	X	X	X
Group 0: <10kg	E	ISO/R1	X	IUF/IL	X
Group 0+: <13kg	E	ISO/R1	X	IUF/IL	X
	D	ISO/R2	X	IUF/IL	X
	C	ISO/R3	X	IUF/IL	X
Group I: (9~18)kg	D	ISO/R2	X	IUF/IL	X
	C	ISO/R3	X	IUF/IL	X
	B	ISO/F2	X	IUF/IL	X
	B1	ISO/F2X	X	IUF/IL	X
	A	ISO/F3	X	IUF/IL	X
Group II: (15~25)kg	—	—	X	IUF	X
Group III: (22-36) kg	—	—	X	IUF	X

Note: The meanings of the letters in the table are as follows:

IUF—Applicable to "Universal" category ISOFIX child restraint systems for this mass group, used forward-facing with a top tether.

IL—Applicable to specific ISOFIX child restraint systems on the list, which may be special vehicle-specific, restricted, or semi-universal.

X—Not suitable for child safety seats of this mass group.

Some child safety seats specify a size class. Always check the size class according to the manufacturer's instructions, packaging, and the child safety seat's label. For proper installation instructions, please refer to the child safety seat's owner's manual.

3. Safe Operation Instructions

3.4.4 Correct Installation of Child Safety Seats

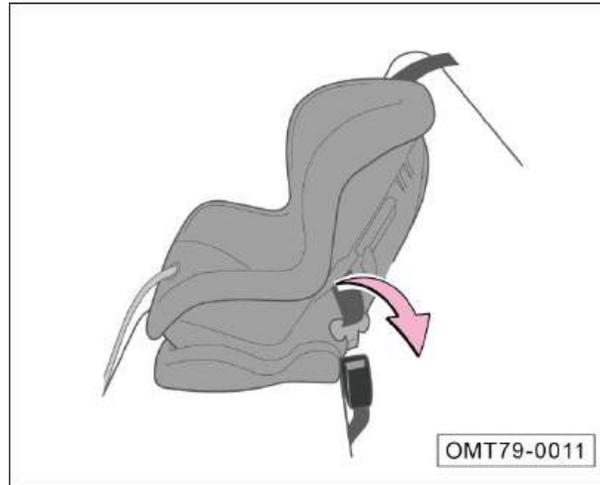
To ensure better protection and avoid the seat headrest affecting the child seat's performance during use, it is recommended to remove the corresponding seat headrest when installing the child seat.

For larger child seats, if installation is difficult, you can move the front seat forward or backward or adjust the front seatback angle.

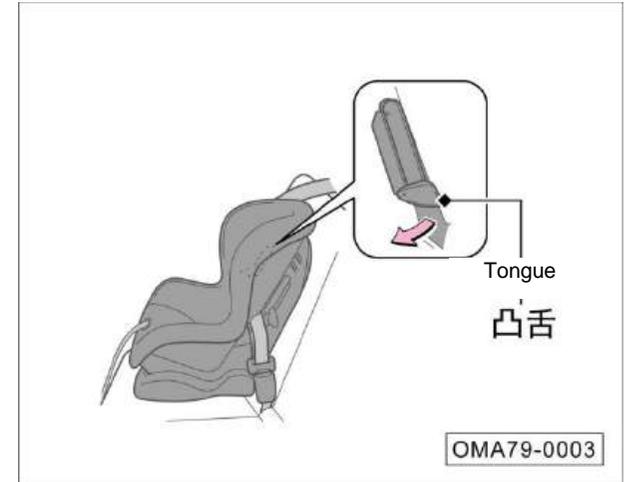
i Tip

During the actual installation of the child safety seat, be sure to refer to the child safety seat owner's manual for correct installation.

Installing a Child Safety Seat with a Three-Point Seat Belt

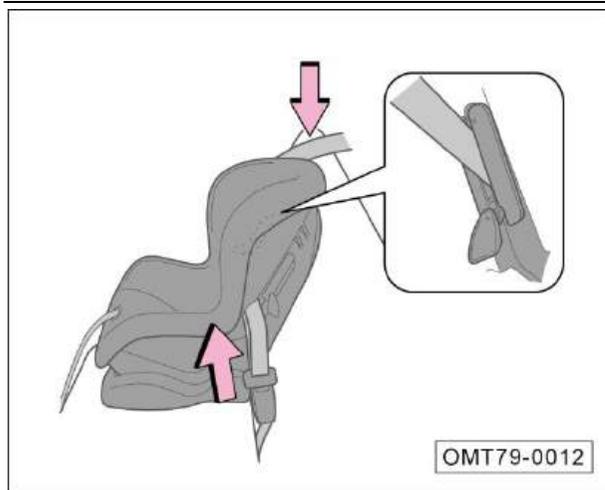


1. Place the child safety seat on the second-row seat.
2. Thread the seat belt through the child safety seat, and fully insert the buckle tongue into the buckle until a "click" is heard.

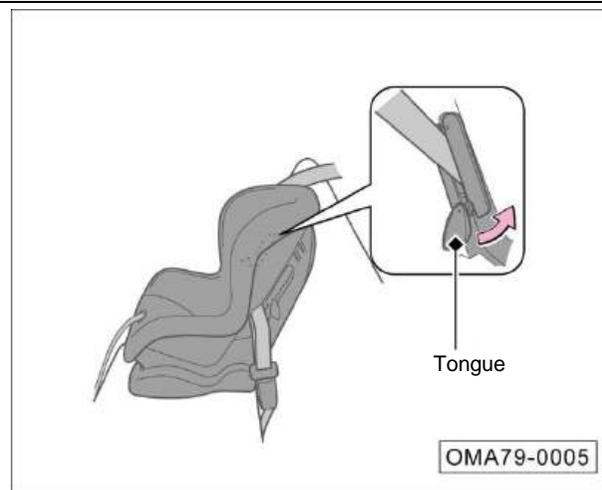


3. Push down on the tongue and thread the shoulder belt through the narrow slit on the side of the child safety seat.

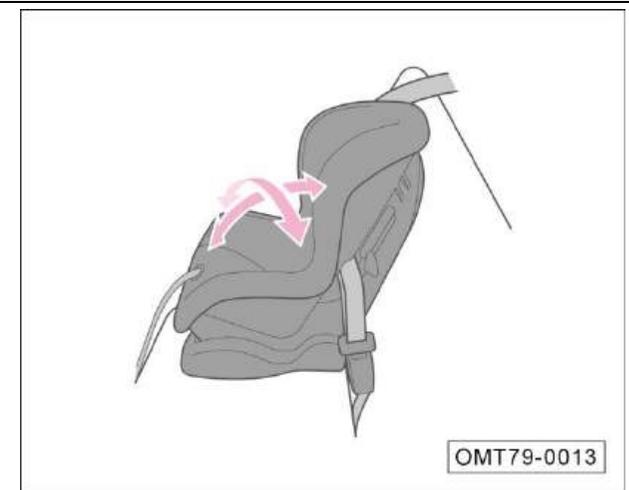
3. Safe Operation Instructions



4. Grab the shoulder belt near the buckle and pull it upward to eliminate any slack in the lap belt. At this point, use your body weight to press down on the child safety seat and push it into the vehicle seat.

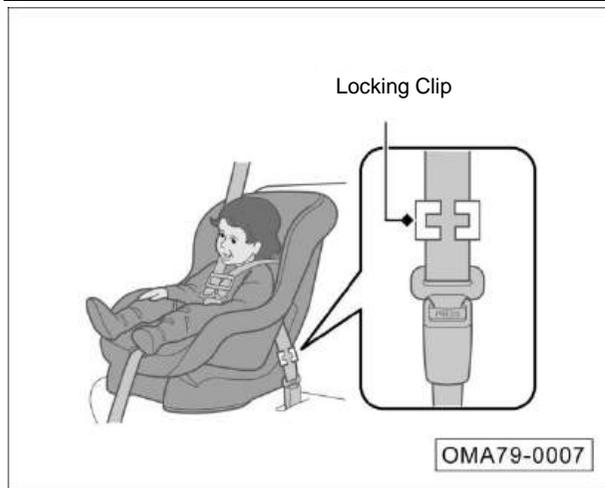


5. Correctly position the seat belt and push the tongue upward. Ensure the seat belt is not twisted. When pushing the tongue upward, pull the upper part of the shoulder belt upward to eliminate any slack in the seat belt.



6. Rock the child safety seat back and forth, left and right, to ensure it is securely fastened.
7. Ensure all unused seat belts that the child can reach are buckled.

3. Safe Operation Instructions



If the child safety seat does not have a device to secure the seat belt, install a locking clip on the seat belt.

- After steps 1 and 2 above, pull up the shoulder belt and ensure the lap belt is not loose.
- Hold the seat belt tightly near the buckle. Pinch the two parts of the seat belt together so it doesn't slip out of the buckle. Unfasten the seat belt buckle.

Install the locking clip as shown in the figure. Place the clip as close as possible to the buckle, and insert the buckle into the buckle. Proceed to steps 6 and 7.

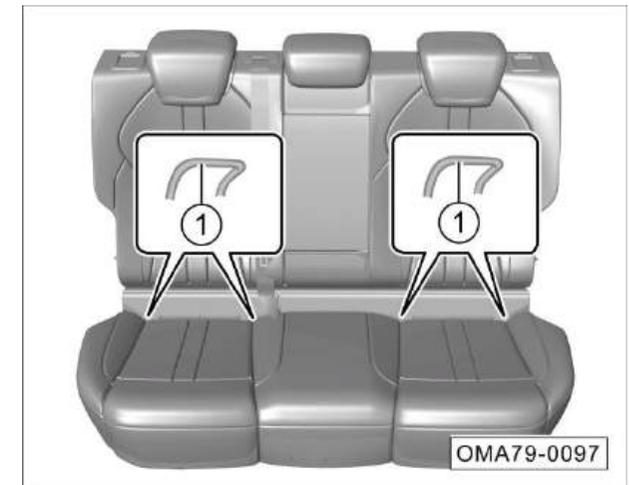
Installing the ISOFIX System

The second-row seats of this vehicle are equipped with the ISOFIX system. The following describes the installation instructions for ISOFIX child safety seats.

⚠ WARNING

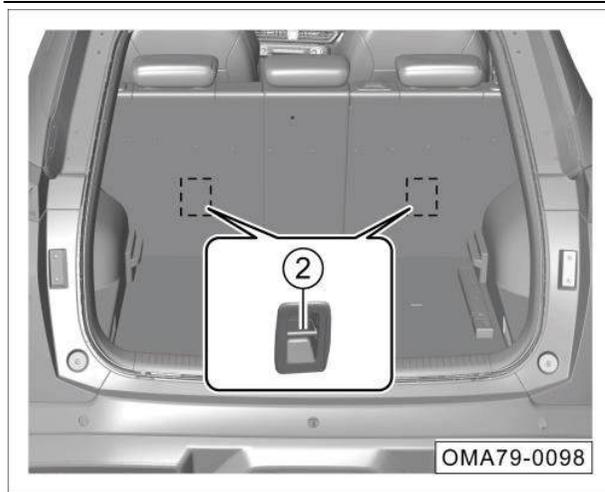
- **The child safety seat anchorage points equipped in this vehicle can only be used for securing child safety seats.**
- **Never attach tightening straps, hard sharp objects, or any other items not related to child safety seats to the anchorage points, as this could endanger the child's life in the event of an accident.**

Second Row Seats



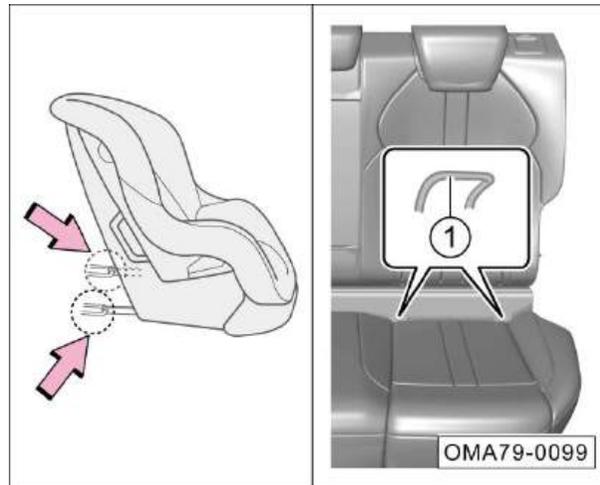
The front anchorages ① for the second-row seats are hidden in the gap of the seat cushion.

3. Safe Operation Instructions

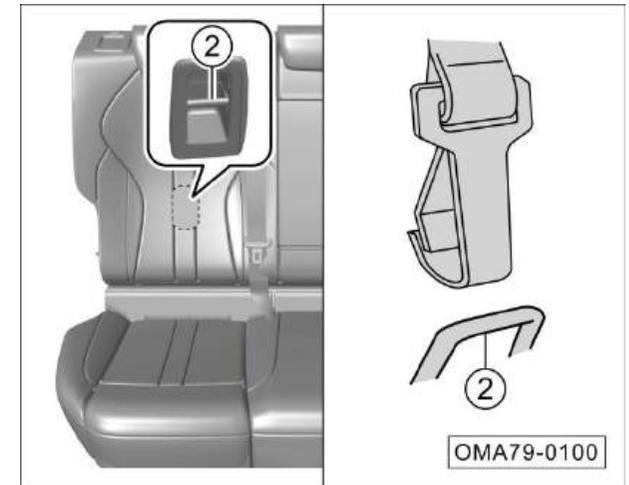


i Tip

The rear anchorages ② for the second-row seats are hidden behind the seatback; they can be seen by pulling apart the seam of the seatback cover.



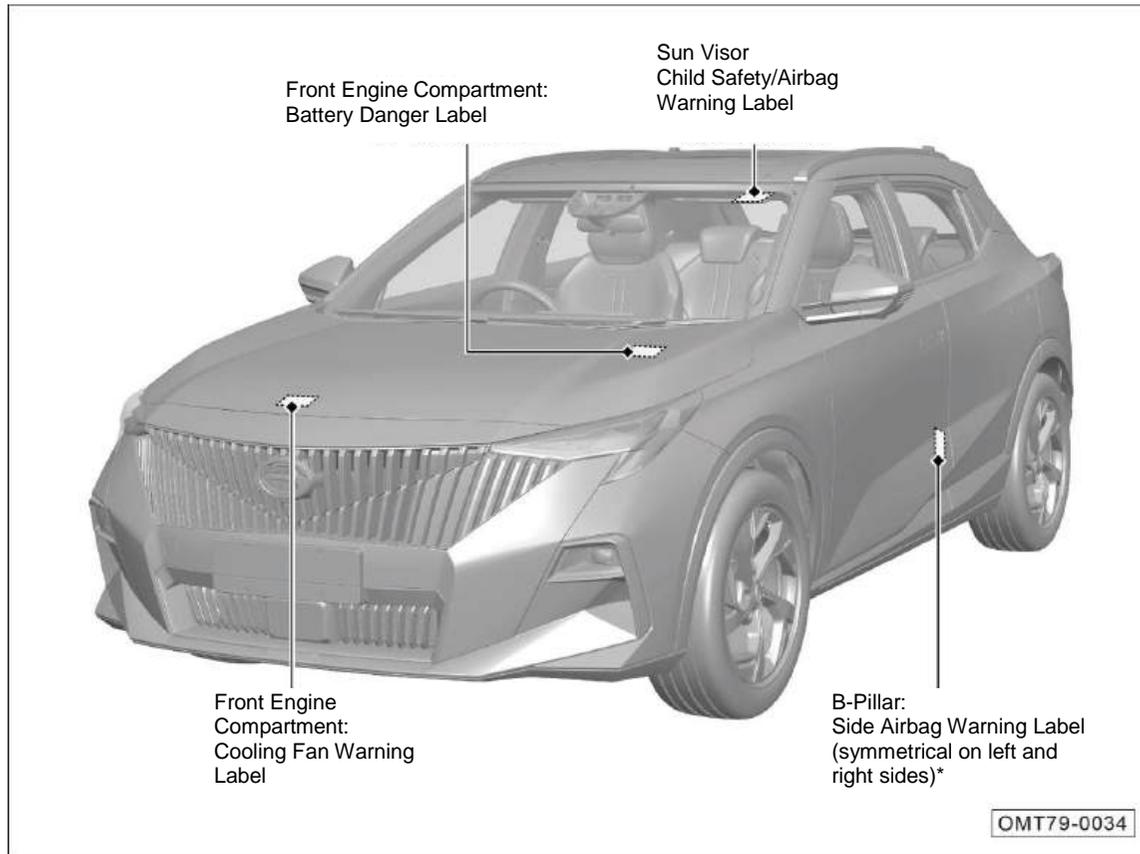
1. Place the child safety seat on the seat, flip up the cover, locate the front anchorage points ①, and insert the child safety seat's lower installation guide rails (arrows) into the front anchorage points ① until a click is heard.



2. Route the tether strap over the top of the seatback, locate the top tether anchorage ②, and attach the tether strap hook to the anchorage ②, ensuring the strap is not twisted.
3. Tighten the tightening strap, and rock the child safety seat to ensure it is securely fastened.

3. Safe Operation Instructions

3.5 Safety Labels



The label locations are shown in the figure, reminding you of potential hazards that can cause serious injury or death. Please read these labels carefully.

If a label comes off or becomes difficult to read, please visit a GAC Service Center to have it replaced promptly.

i Tip

If there are discrepancies in label indication position or quantity, please refer to the actual vehicle.

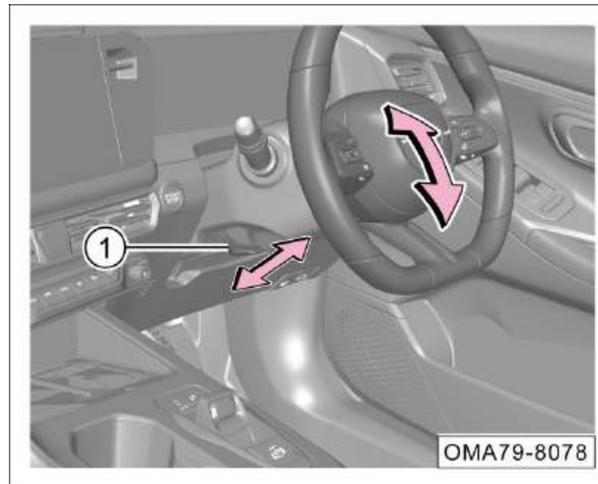
4.1 Cockpit

4.1.1 Steering Wheel

Adjusting Steering Wheel Position



1. Adjust the driver's seat to a suitable position, ensuring the distance between the steering wheel and your chest is no less than 25cm.



2. Push down on locking lever ① to unlock the steering wheel.
3. Adjust the steering wheel to a suitable position (up, down, forward, backward) as needed, ensuring you can see the instrument cluster and all indicator lights.
4. Pull up on locking lever ① to lock the steering wheel, ensuring it is firmly secured.

CAUTION

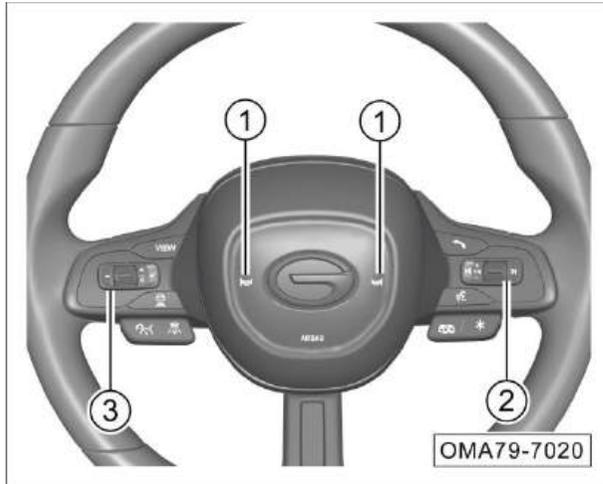
If the locking force is high when securing the locking lever, you can loosen the locking lever again, wiggle it up and down, and then secure it again.

WARNING

- While driving, the driver's hands should always remain on the outer rim of the steering wheel (9 and 3 o'clock positions).
- After adjusting the steering wheel, it must be locked to prevent the steering wheel from shifting while the vehicle is in motion.
- The vehicle must be stopped before adjusting the steering wheel to avoid traffic accidents.
- To ensure safety, the steering wheel should be directly in front of your chest. Otherwise, the airbag may not provide effective protection in the event of an accident.

4. Operating Systems and Equipment

Steering Wheel Buttons



① Horn Button: Press the  button, the horn sounds; release, the horn stops.

WARNING

Do not press the  button for extended periods, as this can easily damage the horn.

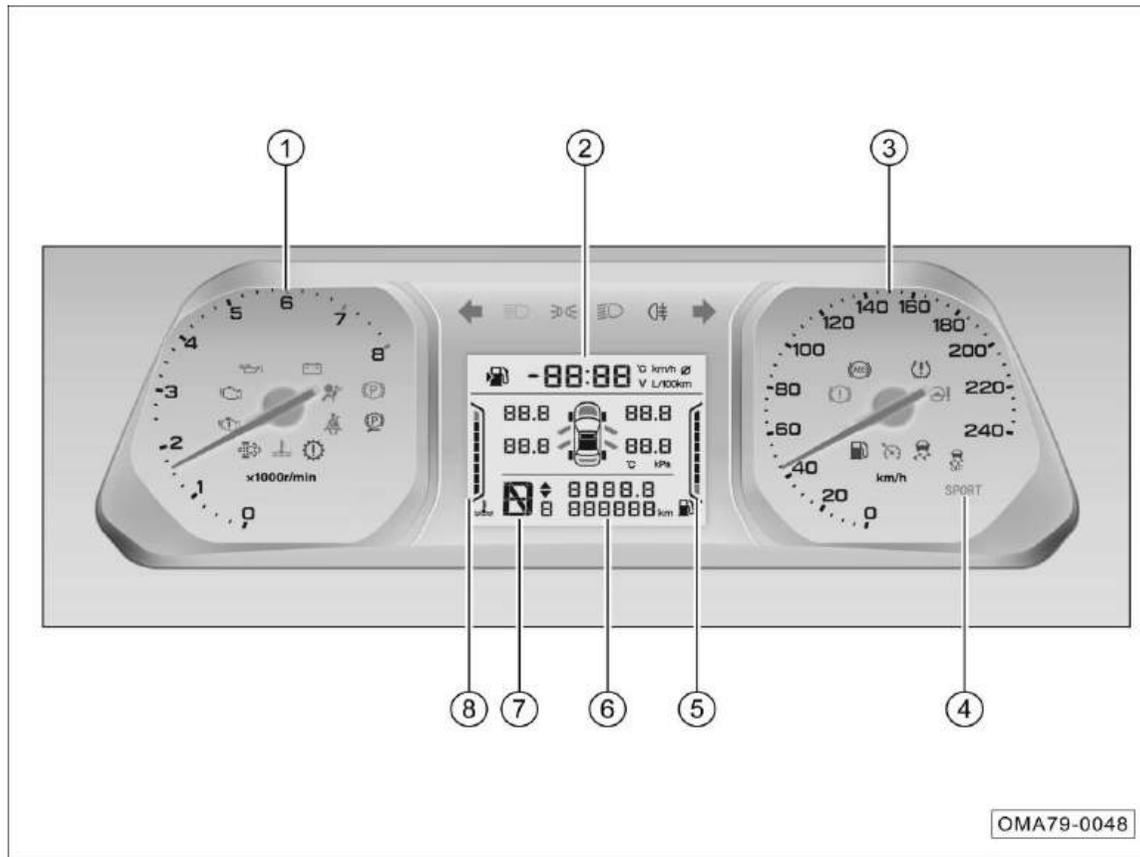
② Right-side buttons:

- Answer/End Call Button
- Audio system control buttons
- Voice Command Button
- Steering Wheel Custom Button*
- Exhaust Sound Button* => [See page 121](#)

③ Left-side buttons:

- Instrument cluster display control buttons
- Instrument Cluster Theme Switch*
- Driving Information Control
- Warning Message Control*
- Cruise control buttons:
 - Cruise Control Buttons* => [See page 134](#)
 - Adaptive Cruise Control Buttons* => [See page 136](#)
 - Integrated Cruise Control Buttons* => [See page 147](#)

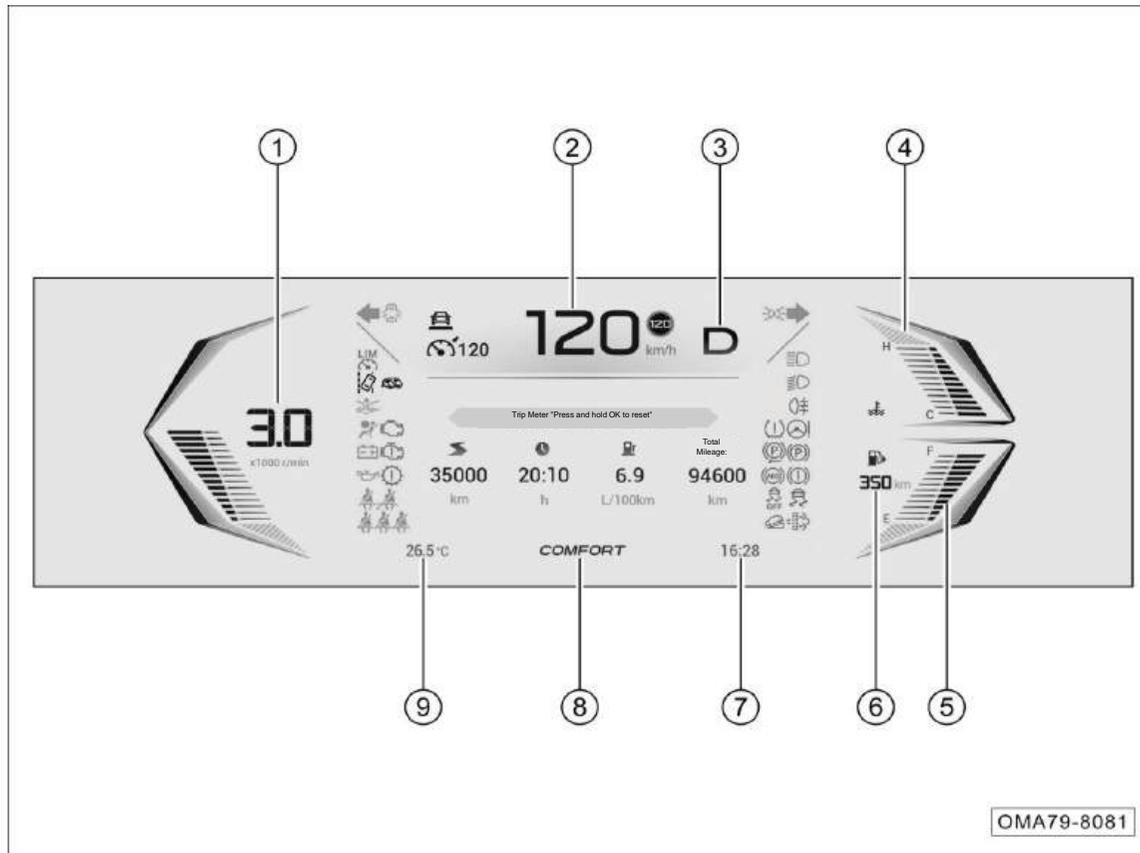
4.1.2 Instrument Cluster



3.5-inch Instrument Cluster

- ① Tachometer
- ② Driving Information Display
- ③ Speedometer
- ④ Driving Mode
- ⑤ Fuel Gauge
- ⑥ Odometer Display
- ⑦ Gear Position Display
- ⑧ Engine Coolant Temperature Gauge

4. Operating Systems and Equipment



7-inch Instrument Cluster* (Organic Theme)

- ① Tachometer
- ② Speed Display
- ③ Gear Position Display
- ④ Engine Coolant Temperature Gauge
- ⑤ Fuel Gauge
- ⑥ Driving Range
- ⑦ Time Display
- ⑧ Driving Mode
- ⑨ Outside Temperature Display

i Tip

The 7-inch instrument cluster themes include "Organic Theme" and "Minimalist Theme." The illustration shows the "Organic Theme" as an example and is for reference only. Please refer to the actual vehicle.

4. Operating Systems and Equipment

4.1.3 Indicator Lights

No.	Icon	Name	Color	Function
1		Charging System Warning Light	Red	Red illuminated alarm light indicates a charging system fault.
2		Engine Malfunction Indicator Light	Yellow	A yellow indicator light indicates a malfunction in the engine system.
3		Low Oil Pressure Warning Light	Red	Red illuminated alarm light indicates insufficient engine oil pressure.
4		Emission System Malfunction Indicator Light	Yellow	Yellow illuminated indicator light indicates an emission system fault.
5		Left Turn Signal and Hazard Warning Indicator Light	Green	When the left turn signal indicator light flashes alone, it indicates the vehicle's left turn signal light is on. When the hazard warning light switch is pressed, the left/right turn signal indicator lights and all exterior turn signal lights will flash together.
6		High Engine Coolant Temperature Indicator Light	Red	Red illuminated indicator light indicates engine coolant temperature is too high.
7		Supplemental Restraint System (SRS) Indicator Light	Red	Red illuminated indicator light indicates a fault in the airbag system.
8		Low Fuel Indicator Light	Yellow	Yellow flashing indicator light indicates low fuel level in the fuel tank.
				Yellow illuminated indicator light indicates a fault in the fuel pump level sensor circuit.
9		Right Turn Signal and Hazard Warning Indicator Light	Green	When the right turn signal indicator light flashes alone, it indicates the vehicle's right turn signal light is on. When the hazard warning light switch is pressed, the left/right turn signal indicator lights and all exterior turn signal lights will flash together.
10		Electronic Parking Brake (EPB) Status Indicator Light	Red	A red indicator light indicates that the electronic parking brake is applied. Red flashing indicator light indicates the electronic parking brake is engaging, disengaging, or has a fault.
			Green	Green illuminated indicator light indicates Auto Hold is active.

4. Operating Systems and Equipment

No.	Icon	Name	Color	Function
11		Electronic Parking Brake (EPB) Malfunction Indicator Light	Yellow	Yellow illuminated indicator light indicates a fault in the electronic parking brake system.
				Yellow flashing indicator light indicates the electronic parking brake system is in maintenance mode.
12		Brake System Indicator Light	Red	Red illuminated indicator light indicates low brake fluid level or a fault in the Electronic Brake-force Distribution (EBD) system.
13		Electronic Stability Control (ESC) Indicator Light	Yellow	Yellow illuminated indicator light indicates a fault in the Vehicle Stability Control (ESC) system.
				Yellow flashing indicator light indicates the Vehicle Stability Control (ESC) system is active.
14		Electronic Stability Control Off (ESC OFF) Indicator Light	Yellow	Yellow illuminated indicator light indicates the Vehicle Stability Control (ESC) system is off.
15		Anti-lock Braking System (ABS) Indicator Light	Yellow	Yellow illuminated indicator light indicates a fault in the Anti-lock Braking System (ABS).
16		Transmission Fault Indicator Light	Yellow	Yellow illuminated indicator light indicates a fault in the transmission system.
				Yellow flashing indicator light indicates high transmission oil temperature.
17		Tire Pressure Monitoring System (TPMS) Indicator Light	Yellow	Yellow illuminated indicator light indicates a fault in the Tire Pressure Monitoring System (TPMS).
18		Electric Power Steering (EPS) Indicator Light	Red	Red illuminated indicator light indicates a fault in the Electric Power Steering (EPS) system.
19		Smart High Beam Indicator Light	White	White illuminated indicator light indicates the Intelligent High Beam is in standby mode.
			Blue	Blue illuminated indicator light indicates the Intelligent High Beam is active.
20		Adaptive Cruise Control No Vehicle Ahead Indicator Light*	White	Gray illuminated indicator light indicates the Adaptive Cruise Control system is in ready state, with no target vehicle ahead.
			Blue	Blue illuminated indicator light indicates the Adaptive Cruise Control system is active, with no target vehicle ahead.
21		Adaptive Cruise Control Vehicle Ahead Indicator Light*	White	Gray illuminated indicator light indicates the Adaptive Cruise Control system is in suppression or ready state, with a target vehicle ahead.
			Blue	Blue illuminated indicator light indicates the Adaptive Cruise Control system is active, with a target vehicle ahead.
22		Adaptive Cruise Control Malfunction Indicator Light*	Yellow	Yellow illuminated indicator light indicates a fault in the Adaptive Cruise Control system.

4. Operating Systems and Equipment

No.	Icon	Name	Color	Function
23		Lane Departure Status Indicator Light*	White	White illuminated indicator light indicates the Lane Departure System is active.
			Yellow	A yellow indicator light indicates a malfunction in the lane departure warning system. If this occurs, please visit a GAC Service Center for inspection and repair promptly.
			Blue	A blue indicator light indicates that the lane departure assist system is operating normally.
24		Forward Collision Warning Status Indicator Light*	Yellow	A yellow indicator light indicates a malfunction in the forward collision warning system. If this occurs, please visit a GAC Service Center for inspection and repair promptly.
			Red	Red flashing indicator light indicates the Front Collision Warning System is actively triggering.
25		Front Passenger Seatbelt Reminder Light	Red	Red illuminated reminder light indicates the front passenger seat belt is unfastened or the system has a fault.
26		Driver Seatbelt Reminder Light	Red	Red illuminated reminder light indicates the driver's seat belt is unfastened or the seat belt system has a fault.
27		High Beam Indicator Light	Blue	Blue illuminated indicator light indicates the high beams are on.
28		Position Light Indicator Light	Green	Green illuminated indicator light indicates position lights, dashboard lights, license plate lights, etc., are on.
29		Rear Fog Light Indicator Light	Yellow	Yellow illuminated indicator light indicates the rear fog lamp is on.
30		Cruise Control Indicator Light*	White	A white indicator light indicates that cruise control is in standby mode.
			Green	A green indicator light indicates that cruise control is enabled.
31		Hands-on Steering Wheel Indicator Light*	Blue	Green illuminated indicator light indicates ICA detects the driver's hands on the steering wheel.
			Red	Yellow illuminated indicator light indicates ICA detects the driver's hands off the steering wheel for a period of time.
32		Lateral Control Status Indicator Light*	White	A white indicator light indicates that ICA (Integrated Cruise Assist) is in standby mode.
			Blue	Blue illuminated indicator light indicates ICA is in active mode.
			Yellow	Yellow illuminated indicator light indicates ICA has a fault.
33		Hill Descent Control Indicator Light*	Yellow	Yellow illuminated indicator light indicates the Hill Descent Control system is on.

4. Operating Systems and Equipment

No.	Icon	Name	Color	Function
34		Second Row Seatbelt Reminder Light*	White	White illuminated indicator light indicates the corresponding second-row seat belt is fastened.
			Red	Red illuminated indicator light indicates the corresponding second-row seat belt is unfastened or the seat belt system has a fault.
35		Door Open Indicator Light*	Red	A red indicator light indicates that the hood, any door, or the tailgate is not closed.
36		Exhaust Sound Indicator Light*	White	A white indicator light indicates that the exhaust sound system is activated.
			Yellow	A yellow indicator light indicates a malfunction in the exhaust sound system.

Note:

When the vehicle starts, it will perform a self-check, and some instrument cluster alarm lights or indicator lights will briefly illuminate and then automatically turn off. If any warning lights or indicator lights remain illuminated after starting, it indicates that the relevant system or function is in a certain operating state or has a fault. You should read and understand the meaning of each indicator and warning light. If a malfunction occurs, please visit or contact a GAC Service Center promptly to have the vehicle inspected and repaired.

4.2 Opening and Closing the Vehicle

4.2.1 Remote Key

This vehicle comes with two smart remote keys (including emergency mechanical keys) and a key barcode. If you need a new key, please provide the key's barcode to a GAC Service Center. If the key's barcode is lost, please provide the vehicle's VIN to a GAC Service Center.

Tip

After starting the engine, do not place the remote key on the dashboard beneath the front windshield, as this may trigger a "Key Not Detected" message.

Low Remote Key Signal Strength

In the following situations, operating the remote key buttons may be hindered or unstable:

- Nearby devices are transmitting strong radio waves.

- Carrying the remote key with telecommunication devices, laptops, mobile phones, access cards, or wireless signal transmitters.
- Placing the remote key together with magnetic cards (such as bank cards, public transport cards, etc.).
- Metal objects touching or covering the remote key.

CAUTION

The remote key contains an electronic circuit that triggers the anti-theft immobilizer system. If the circuit is damaged, the engine may not start. Therefore:

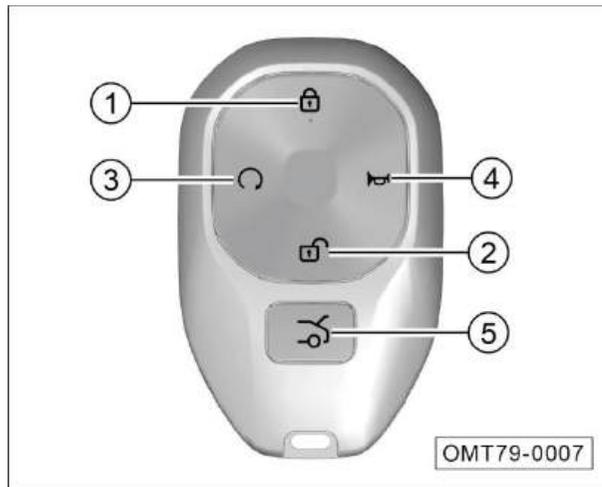
- Avoid placing the remote key in direct sunlight, high temperatures, or humid areas.
- Avoid dropping the remote key from a height or crushing it with heavy objects.
- Avoid contact between the remote key and liquids. If it accidentally gets wet, wipe it dry immediately.

Tip

- When the vehicle power is in the "ACC" or "ON" position, remote key button operations are invalid.
- If the unlock or lock function of the remote key fails, try quickly pressing the button on the remote key 3 times in a short period to restore its function.

4. Operating Systems and Equipment

Button Operations



- ① : Lock button
- ② : Unlock button
- ③ : Start vehicle/Turn off vehicle
- ④ : Horn button
- ⑤ : Tailgate unlock button

① Button Operation

- Briefly press this button once within the effective range, and all doors will lock. Press and hold this button to automatically close the windows, sunroof*, and sunshade*. If you release the button while they are closing, they will stop.
- Quickly press this button twice in a row to activate the car finder function, and the turn signal lights will flash rapidly 3 times.

CAUTION

When closing the windows, sunroof*, or sunshade* remotely, ensure that no body parts (such as your head or hands) are in their path of travel to avoid the risk of injury.

Tip

- When locking the doors, the turn signal lights will flash once; the horn will honk once. The unlock/lock sound prompt function can be enabled or disabled
- On some models, the "Auto Window Close on Lock" feature can be enabled or disabled via the infotainment system. When enabled, pressing this button once within the effective range will lock all doors and automatically close the windows, sunroof*, and sunshade*.

4. Operating Systems and Equipment

② Button Operation

- Briefly press this button once within the effective range, and all doors will unlock. Press and hold this button to automatically open the windows and tilt the sunroof*. If you release the button while the windows are opening, they will stop.

Tip

- When unlocking the doors, the turn signals will flash twice. The horn will sound twice; this feature can be enabled or disabled via the infotainment system.
- On some models, you can set the remote key's button  to unlock all doors or only the driver's door via the infotainment system.

CAUTION

After unlocking the doors by pressing the remote key unlock button, if the doors are not opened within 30 seconds, the system will re-lock the doors.

③ Button Operation

- Within the effective range, press the button  once, then within 5 seconds, press and hold the  button until the turn signals flash, and the vehicle will start.
- When the engine has been started remotely, press and hold the  button for about 3 seconds to turn off the engine remotely.

Tip

- Before closing the vehicle remotely, make sure the vehicle is locked. If you cannot confirm whether the vehicle is locked, press the  button once first, then press and hold the  button to close the vehicle.
- When starting the engine remotely, stay within the effective range. Otherwise, the vehicle may unlock, causing the start to fail.
- The default maximum remote start duration is 30 minutes.

④ Button Operation

- Press and hold the  button on the remote key for more than 3 seconds to activate the remote alarm function.

⑤ Button Operation

- Within the effective range, double-click this button to electrically open or close the tailgate. If this button is pressed again during opening or closing, the tailgate will stop at its current position.
- If the vehicle is not equipped with a power tailgate or if the power function fails, double-press this button within the effective range to unlock the tailgate. You will then need to open it manually.

4. Operating Systems and Equipment

Replace battery.

Each time a button on the remote key is pressed, the remote key indicator light will flash once. If the indicator light does not flash, or if multiple presses are required to lock or unlock the doors, the battery may be depleted or nearing depletion. If battery replacement is needed, it is recommended to visit a GAC Trumpchi authorized service center for replacement.

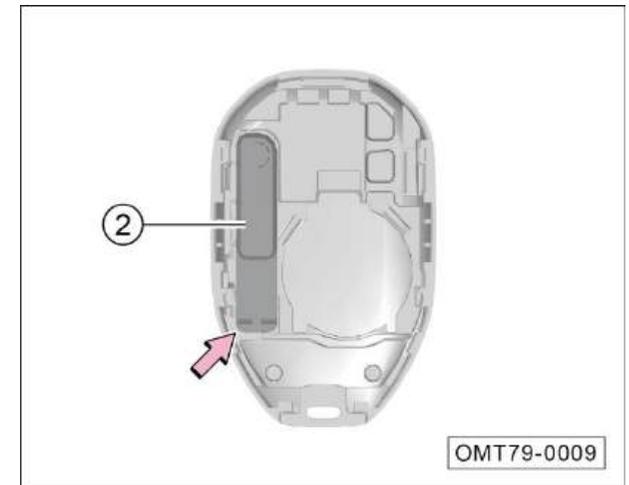
CAUTION

- Always replace with a new battery of the same model.
- Using an unsuitable battery may damage the remote key.
- Always comply with relevant environmental regulations when disposing of depleted batteries.

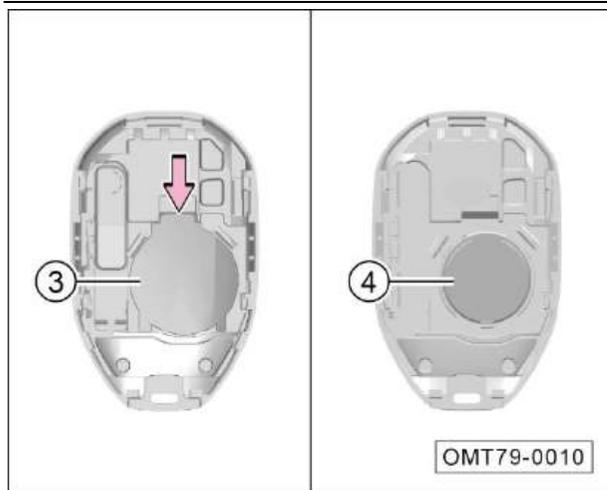
Battery Replacement Steps



1. Pick up the key, use your hand to forcefully push open the back cover ① along the - arrow - direction, and remove the back cover ① after hearing a "click".

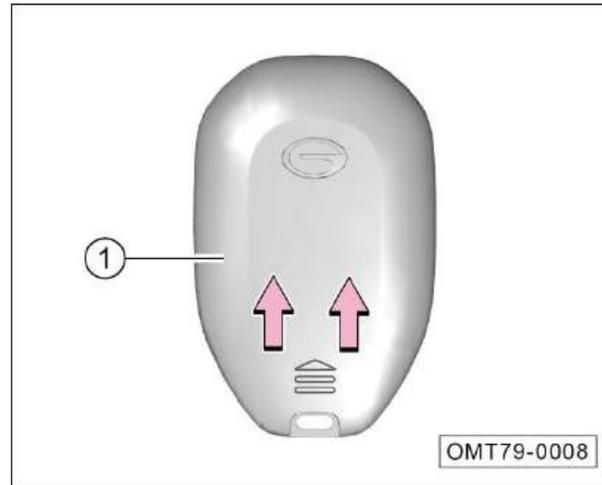


2. Remove the emergency mechanical key ② at the - arrow - position.

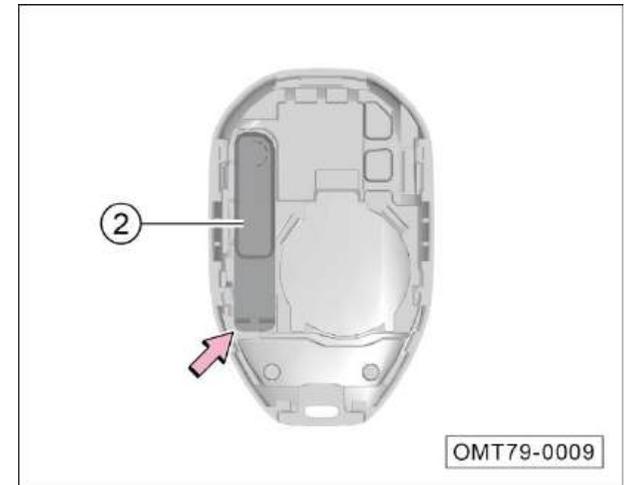


3. Use the emergency mechanical key to pry open the cover plate ③ at the -arrow- position.
4. Remove the remote key battery ④.
5. Install the remote key by following the steps in reverse.

4.2.2 Emergency Mechanical Key Emergency Mechanical Key



1. Forcefully push open the back cover ① along the - arrow - direction, and remove the back cover ① after hearing a "click".

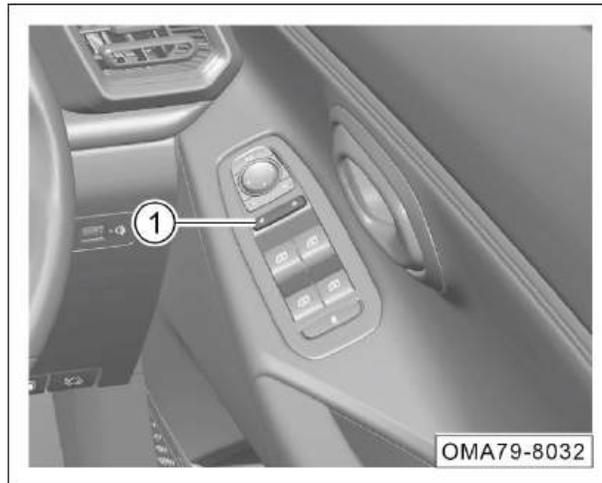


2. Pick up the emergency mechanical key ② in the direction of the arrow.

4. Operating Systems and Equipment

4.2.3 Door Lock System

Central Door Lock Button



The central door lock button ① can lock and unlock the doors from inside the vehicle:

- Locking doors: Press the  end of the central door lock button ① to lock all doors.
- Unlocking doors: Press the  end of the central door lock button ① to unlock all doors.

Door Inner Handle



- If the vehicle is locked, pulling any inner door handle once will only unlock that specific door; pulling the same inner door handle again will open that door.
- If the vehicle is unlocked, pulling any inner door handle once will directly open that door.

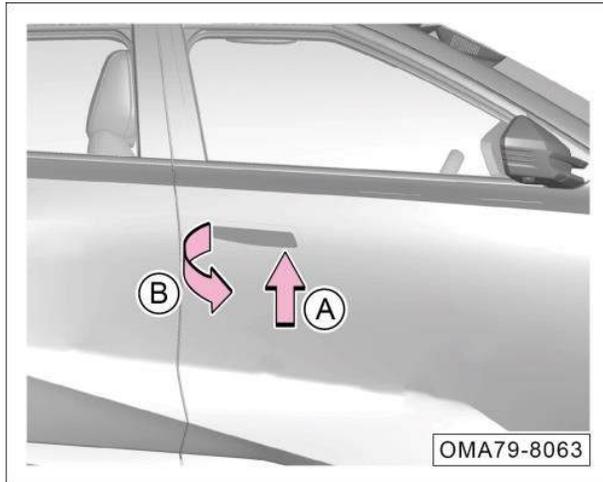
Tip

When the child safety lock is engaged => See page 50, the rear door cannot be opened from the inside using the interior handle, even if the door is unlocked. The door must be opened from the outside. Do not pull the interior door handle with excessive force to avoid damage.

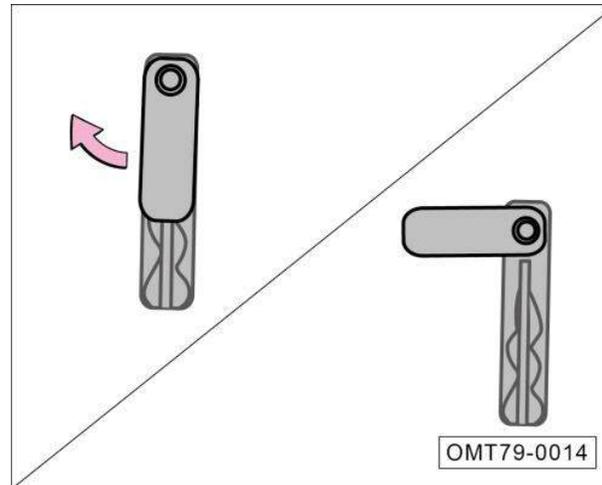
CAUTION

- Before driving the vehicle, please ensure all doors are properly closed and locked.
- Do not pull the inner door handle while driving to avoid accidental door opening.
- When opening or closing a door, check the surrounding environment, such as whether the vehicle is on a slope, if there is enough space to open the door, and if there are strong winds. When opening or closing a door, hold the door handle firmly to prepare for any unexpected movement.

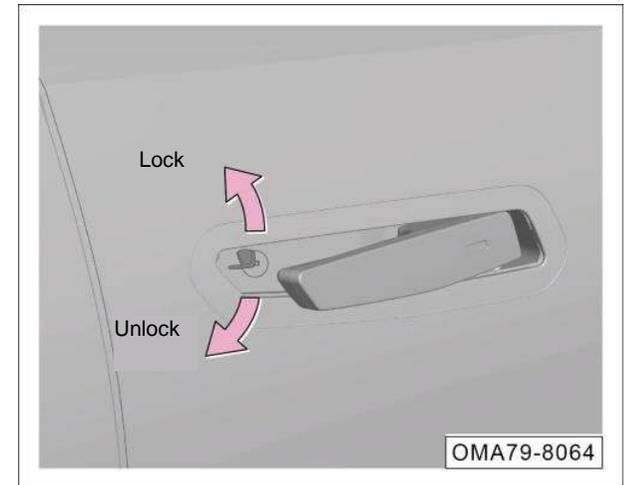
Door Lock Cylinder



1. Remove the emergency mechanical key. => [See page 47](#)
2. Press the left side of the door handle in the direction of -arrow A- to make the right side pop out, then pull the door handle out at an angle in the direction of -arrow B-.



3. Unfold the mechanical key blade.



4. Insert the emergency mechanical key into the driver's door lock cylinder.
5. Turn the mechanical key clockwise to unlock the driver's door.
6. Turn the mechanical key counter-clockwise to lock all doors.

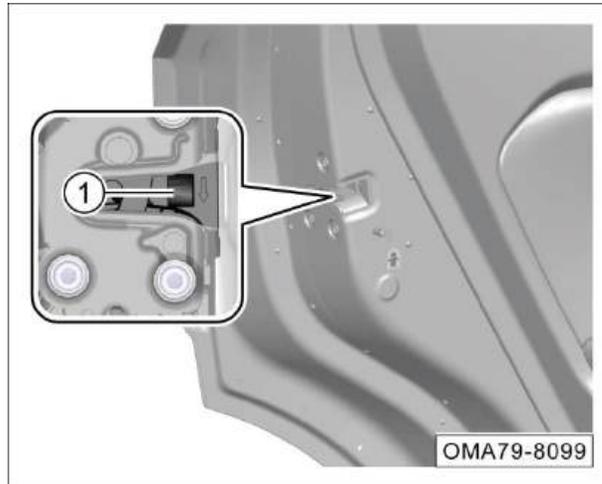
i Tip

When the battery is low, using the emergency mechanical key can only lock the driver's side door, not all doors.

4. Operating Systems and Equipment

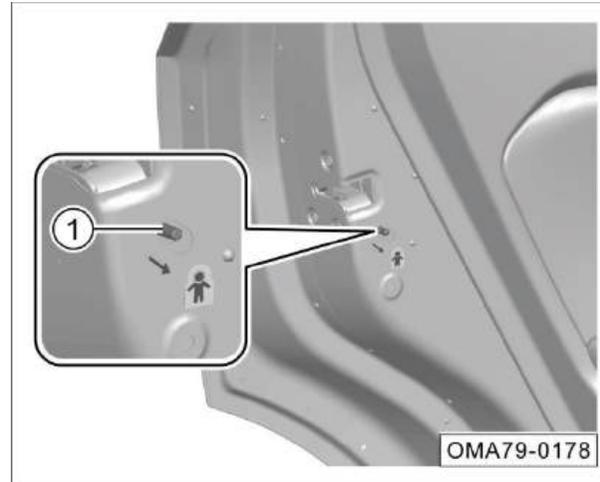
Emergency Door Locking

If the remote key cannot lock the doors due to a low-voltage battery, the doors can be emergency locked.



1. Remove the emergency mechanical key. => [See page 47](#)
2. Insert the mechanical key into the lock switch ①.
3. Push the lock switch ① downwards, close the door, and the corresponding side door will be emergency locked.
4. Repeat the above steps to lock other doors one by one.

Child Safety Lock



- Enable: Move the child safety lock switch ① in the direction of the arrow to the locked position to enable the child safety lock.
- Disable: Move the child safety lock switch ① in the opposite direction of the arrow to the unlocked position to disable the child safety lock.

i Tip

- Before driving the vehicle, if there are children in the rear seats, ensure the child safety lock is enabled.
- When the child safety lock is enabled, the inner door handle cannot open the rear door. At this time, do not pull the inner door handle forcefully to avoid damage. The rear door should be opened from outside the vehicle.

4. Operating Systems and Equipment

WARNING

After activating the child lock, never leave children or persons with disabilities unattended in the vehicle. If the vehicle is locked, they may not be able to exit on their own in an emergency to ensure their safety. Furthermore, locked doors can hinder rescue efforts by external personnel.

Automatic Unlock Function

After the vehicle is driven and parked, if the doors are locked and the vehicle power is switched to the "OFF" position, all four doors will automatically unlock.

Tip

The automatic unlock function can be enabled or disabled through the audio system settings.

Vehicle Speed Auto Lock

With the doors properly closed, when this function is enabled and the vehicle reaches a certain speed or driving duration, the vehicle will automatically lock.

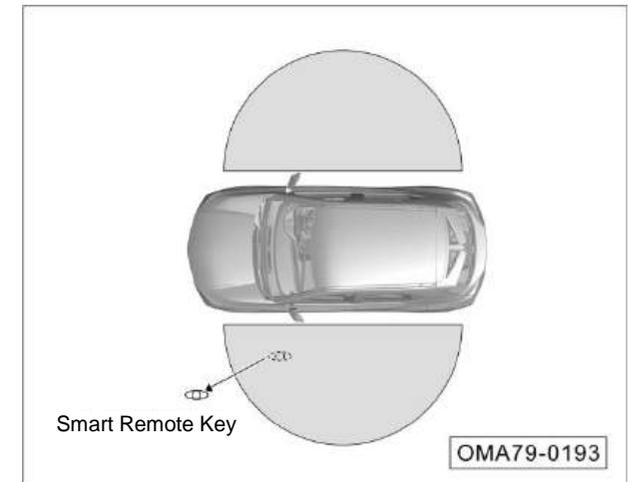
Tip

- Please read the relevant information above before activating this function.
- The speed-sensitive auto lock function can be enabled or disabled through the audio system settings.

Collision Unlock Function

When the doors are locked and the vehicle power is in the "ON" position, if the system detects that the vehicle has suffered a severe impact, all doors will automatically unlock. In extreme conditions, this system may not work depending on the impact force and range.

Smart Active Unlock



- When the Smart Proximity Unlock function is enabled, the vehicle will automatically unlock as you approach within approximately 1.2m while carrying the smart remote key.

4. Operating Systems and Equipment

Tip

- The smart passive entry unlock function can be enabled or disabled through the audio system settings.
- After successful smart passive entry unlock, the turn signal lights will flash twice and the horn will honk twice.
- If the vehicle is parked for more than 7 days, the smart passive entry unlock will automatically turn off to reduce overall vehicle power consumption. At this time, you will need to use the smart remote key to unlock or use the door handle sensor to unlock. The smart passive entry unlock function will resume after the vehicle starts.

Smart Active Lock

- When the Smart Proximity Lock function is enabled, after the vehicle's power is turned "OFF" and all doors are closed, the vehicle will automatically lock if you walk away with the smart remote key and remain within approximately 2m for over 2 minutes, or if you move more than 2m away.
- If remaining within 2m of the vehicle for more than 2 minutes, the system will temporarily turn off the smart active lock function for power-saving purposes. The user will need to open and close any door again to reactivate the smart active lock function.

Tip

- The smart passive entry lock function can be enabled or disabled through the audio system settings.
- After successful smart passive entry lock, the turn signal lights will flash once and the horn will honk once.
- If the tailgate or hood is not closed properly, an audible and visual alarm will sound after a successful Smart Proximity Lock.

The smart active lock function will not work under any of the following conditions:

- The vehicle power is in "ACC" or "ON" position.
- The smart key is inside the vehicle.
- The smart key is not detected within 2m of the vehicle.
- The smart key is thrown into the vehicle through a window.
- The smart key is located inside the trunk.
- Any door is not closed.
- The battery voltage is low.
- PEPS antenna fault.

CAUTION

When using the smart active lock function, please be careful not to leave children or disabled persons inside the vehicle.

4.2.4 Hidden Door Handles

Power Flush Door Handle*

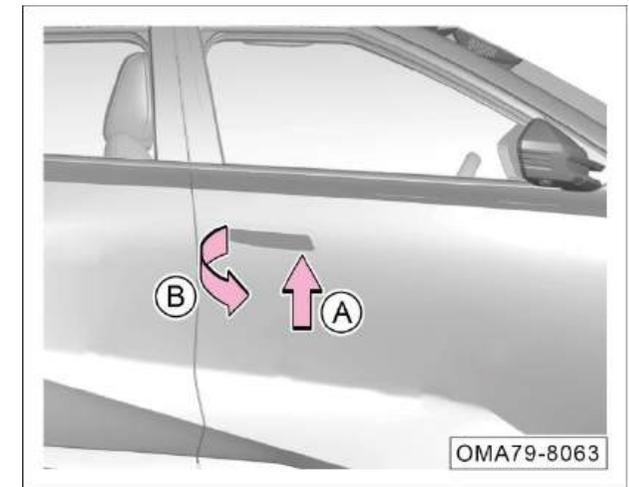


When the entire vehicle is unlocked, the hidden door handles automatically extend. Pull the door handle to open the door.

Tip

The power flush door handle function can be enabled or disabled via the infotainment system. After closing, the door handle needs to be manually extended.

Mechanical Flush Door Handle*



When the "Power Flush Door Handle" function is disabled or if the vehicle is equipped with "Mechanical Flush Door Handles," you must extend the handles manually. With the vehicle unlocked, press the door handle in the direction of -arrow A- to make it pop out, then pull the handle in the direction of -arrow B- to open the door. After releasing the handle, it will automatically retract to its hidden position.

4. Operating Systems and Equipment

When using the flush door handles, please read and observe the following precautions:

CAUTION

When washing the car, please retract the hidden door handles to prevent water from entering the handle's interior during cleaning, which could damage the vehicle.

WARNING

When locking the car, please be careful to avoid pinching yourself with the door handle.

Guidance for Breaking Ice on Hidden Door Handles in Low Temperatures

Applicable to Power Flush Door Handles*

When approaching the vehicle with the key, the vehicle will automatically detect the remote key. At this time:

Method 1:

1. If a small amount of ice has accumulated between the door handle and the car door, the door handle can be electrically extended. At this time, press the remote key's electric open/close door handle button 3 times to remove residual ice.
2. If a significant amount of ice has accumulated between the door handle and the door, preventing it from extending electrically, you can manually break the ice by pressing firmly on the left side of the handle to tilt the rear end up. If the handle still does not extend, refer to the "Manual De-icing" procedure on page 54.
3. Once the door handle can move, open and close it a few more times to remove residual ice and ensure the door handle can fully retract into place.

Method 2:

Pour hot water to break the ice.

Applicable to Manual Flush Door Handles*



1. Manual De-icing

- In a circular pattern, tap around the perimeter of the door handle with the bottom of your fist, using moderate force to break and release the accumulated ice. Press the remote key simultaneously to electrically extend the door handle (power-retractable door handle).
- You can increase the striking force as needed and repeat the above steps.

⚠ WARNING

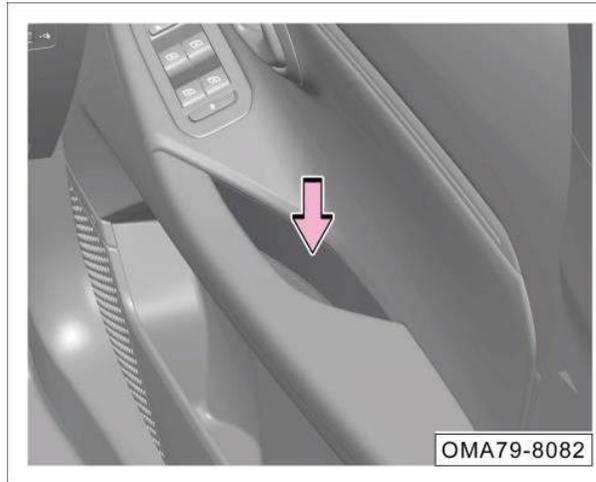
When tapping around the door handle, be careful with the amount of force used to avoid denting the door panel.

2. Once the door handle can move, open and close it a few more times to remove residual ice and ensure the door handle can fully retract into place.

Method 2:

Pour hot water to break the ice.

4.2.5 Doors



- When closing the door from outside the vehicle, hold the handle and pull inward.
- When closing the door from inside the vehicle, push inward on the outer side of the door.

👁 CAUTION

When opening the door, you must be aware of other vehicles or pedestrians outside the car to avoid accidents caused by collisions when opening the door.

⚠ WARNING

- Always ensure all doors are properly closed before driving, otherwise, improperly closed doors may open while driving, causing accidents or injuries.
- Doors must only be opened or closed when the vehicle is stationary.
- When closing the door, do not place your hand on the door edge, otherwise there is a risk of pinching.

i Tip

- If the door is not closed properly, please reopen and close it again.
- If the door is not closed properly, a warning message will be displayed on the instrument cluster screen.

4. Operating Systems and Equipment

4.2.6 Tailgate

Tip

Before opening the tailgate, please ensure the vehicle is in "P" gear and the parking brake is applied.

Opening the Tailgate with the Remote Key

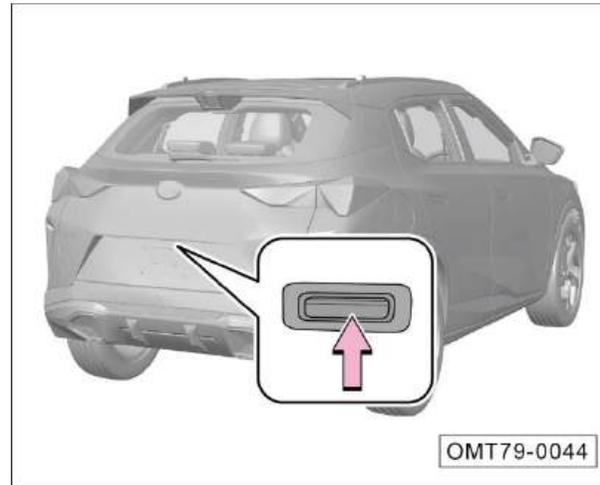
If the vehicle is equipped with a power tailgate, double-press the  button on the remote key within the effective range, and the tailgate will automatically open to the preset position. Pressing the button again while the tailgate is opening will stop its movement.

If the vehicle is not equipped with a power tailgate, double-press the  button on the remote key within the effective range to unlock the tailgate. You will then need to open it manually.

Tip

The effective range of the remote key is 15m; the actual effective range may vary depending on the environment.

Operating the Exterior Tailgate Button



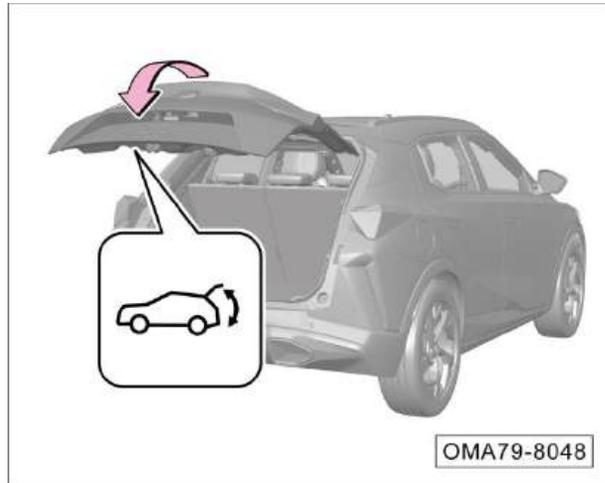
While carrying the smart remote key within the effective range, press the tailgate release button to unlock the tailgate.

- If the vehicle is equipped with a power tailgate, it will automatically open to the preset position. Pressing the button again while the tailgate is opening will stop its movement.

Tip

If the vehicle is unlocked and stationary, you do not need to carry the smart remote key; simply press the tailgate button to open the tailgate.

Operating the Interior Tailgate Switch*



- While the tailgate is in motion, briefly press the interior tailgate button to pause its opening/closing.

Setting a second tailgate height:

When the tailgate opening height is between 55% and 98%, press and hold the inner tailgate switch for about 2 seconds, and the tailgate's second height setting is successful.

Tip

- The remote key button and the interior/exterior tailgate buttons are non-directional signals. The system determines the action based on the current open/closed state and the direction of the last movement.
- If the vehicle is not equipped with a power tailgate or if the power function fails, the remote key button and the tailgate buttons will only unlock the tailgate. After unlocking, you need to manually open the tailgate.
- When opening and closing the electric tailgate multiple times in a short period, it may trigger a protection mechanism. At this time, the tailgate cannot be operated. Please wait for a period until the tailgate recovers.
- There will be light/sound prompts when electrically opening the tailgate.

CAUTION

The tailgate may not open due to the following situations:

- A large amount of ice or snow on the tailgate;
- A large amount of heavy objects hanging on the tailgate;
- The vehicle is on a steep downhill section;
- In extremely windy conditions;
- It is blocked by an obstacle. In the above situations, even if the tailgate can be opened, you should be cautious of it suddenly lowering, which could cause a pinching injury. It is recommended to handle or move away from the environment before operating.

4. Operating Systems and Equipment

WARNING

- Do not play or ride in the trunk.
- It is forbidden to place flammable and explosive materials in the trunk.
- Do not operate the strut components. They contain high-pressure/spring components and are extremely prone to accidents.
- Before driving, please secure items in the trunk to prevent personnel injury or component damage (such as the windshield) due to items impacting during sudden stops or accelerations; when opening the tailgate on uphill sections, prevent items from falling out, causing personnel injury and item damage.

Voice Control for Power Tailgate Opening and Closing*

After waking up the voice system and hearing a tone, you can use voice commands to operate the power tailgate.

- The driver can wake up the voice assistant and issue the voice command "Open tailgate" or "Close tailgate" to power open or close the tailgate.

Tip

If you open the tailgate while starting the vehicle, ensure the interior is well-ventilated to prevent exhaust fumes from entering and causing gas poisoning.

Infotainment System Soft Key Operation*

Access the "My Car" function interface by tapping the vehicle model in the smart scene area on the main screen or by tapping "My Car" in the application menu.

- Tap the "Open Tailgate" or "Close Tailgate" soft key to power open or close the tailgate.
- Drag the tailgate icon to set a target position of 20%, 40%, 60%, 80%, or 100%. After releasing, the tailgate will move to the set position.
- While the tailgate is in motion, dragging the tailgate icon will pause its opening.
- When the tailgate opening height is between 55% and 98%, tap the "Memorize Current Position" soft key to successfully set the second tailgate height.
- Tap the "Clear Memory Position" soft key to successfully clear the second tailgate height setting.

Voice Control for Tailgate*

- Wake up the voice assistant and issue the command "Close tailgate," and the vehicle will power-close the tailgate.

Hands-Free Tailgate Opening*

When the vehicle's power is "OFF" and all four doors and the tailgate are closed, if the user carrying the smart remote key approaches the tailgate sensor area (within approx. 0.5m), the horn will sound once and the high-mount brake light will start flashing. If you remain in position or take a step back, the turn signals will flash and the tailgate will open automatically. If you move away from the tailgate area while the high-mount brake light is flashing (4 flashes), the tailgate will not open.

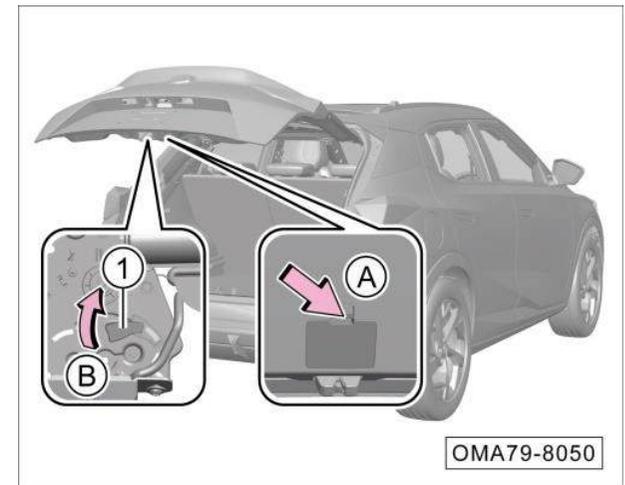
i Tip

- When washing the vehicle, it is recommended to disable this function.
- When the tailgate does not need to be opened, do not stay near the tailgate with the remote key.
- Before using the sensor to open the tailgate, please confirm that there are no people or obstructions within the tailgate's swing range.

i Tip

- Through the infotainment system settings for "Hands-Free Tailgate," you can select "Off," "Open without Beep," or "Open with Beep."
- When the tailgate opens automatically, as a reminder, the horn will sound once (if "Open with Beep" is enabled), the high-mount brake light will flash 4 times, and the turn signals will flash twice.
- If you leave the tailgate sensing area during the high-mount brake light flashing, this function can be temporarily stopped, and the tailgate will not open.
- If you briefly press the smart remote key lock button during the high-mount brake light flashing, this function can be temporarily stopped, and the tailgate will not open. To re-trigger this function, you need to open and close any door before the tailgate sensor opening function can be re-triggered.

Emergency Tailgate Opening

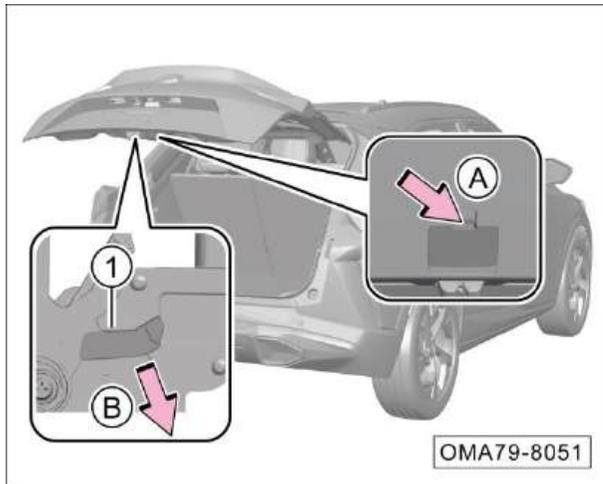


Applicable to electric tailgate models

If the vehicle loses power or the tailgate malfunctions and cannot be opened normally, you can try to open the tailgate from inside the vehicle in an emergency:

1. Fold down the second-row seatbacks. => [See page 88](#)
2. Open the trim panel on the tailgate at the - arrow A- position.
3. Move the emergency tailgate release switch ① in the direction of -arrow B- to unlock and open the tailgate.

4. Operating Systems and Equipment



Applicable to electric tailgate models

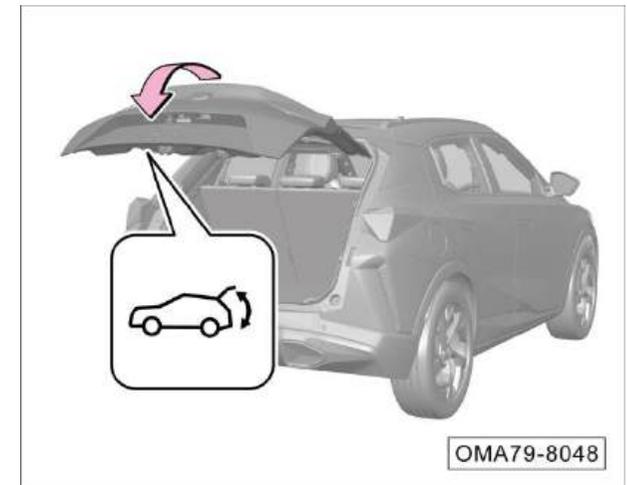
If the vehicle loses power or the tailgate malfunctions and cannot be opened normally, you can try to open the tailgate from inside the vehicle in an emergency:

1. Fold down the second-row seatbacks. => [See page 88](#)
2. Open the trim panel on the tailgate at the -arrow A- position.
3. Move the emergency tailgate release switch ① in the direction of -arrow B- to unlock and open the tailgate.

Tip

Please learn how to unlock the vehicle from the inside in an emergency, to prevent being trapped in unexpected situations.

Closing the Tailgate



Electric Closing*

- Press the tailgate close button, and the electric tailgate will automatically lower until it latches closed. During the closing process, if the button is pressed again, the electric tailgate will stop closing.
- Within the effective range, double-press the  button on the smart remote key, and the power tailgate will automatically lower until it latches closed. During the closing process, if the button is pressed again, the electric tailgate will stop closing.

CAUTION

- For models equipped with an electric tailgate and when the electric tailgate function is normal, please use the inner tailgate button or other methods to electrically close the tailgate. Do not manually pull the electric tailgate closed.
- If the vehicle's electric tailgate cannot be closed due to low voltage or depleted battery, check and repair it as soon as possible. Refer to the "Manual Closing" method to close the tailgate. Do not manually operate the electric tailgate multiple times, to avoid damaging components.

Manual Closing

When the tailgate does not have electric functionality or the electric function fails, the tailgate can be closed manually:

- Lower the tailgate to near the rear bumper cover, then forcefully push it down with both hands to close it.



WARNING

- **Before opening and during the closing process of the tailgate, pay attention to the surrounding environment to prevent people or obstacles (such as luggage inside the car, items outside the car) from being within the tailgate's operating range, to avoid pinching or bumping injuries, or damage to the vehicle and items.**
- **Do not open or close the tailgate while driving to prevent accidents.**

CAUTION

- When needing to close the tailgate manually, please close it slowly to avoid malfunctions caused by rapid closing.
- When the vehicle is in motion, ensure the tailgate is closed, otherwise it can easily lead to accidents.
- After closing the tailgate, you must ensure it is locked to prevent it from suddenly opening by itself while the vehicle is driving.

4. Operating Systems and Equipment

Tip

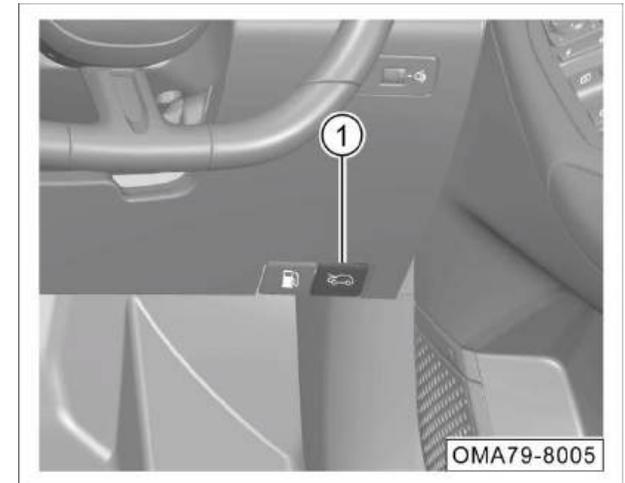
- When the power tailgate begins to close from a stationary position, the turn signals will flash twice and a buzzer will sound.
- While the power tailgate is closing, a buzzer will sound intermittently.
- If the tailgate is not properly closed, a message will be displayed on the instrument cluster screen.
- When closing the tailgate and locking the entire vehicle, be careful not to leave the key inside the car.

4.2.7 Front Engine Hood

Tip

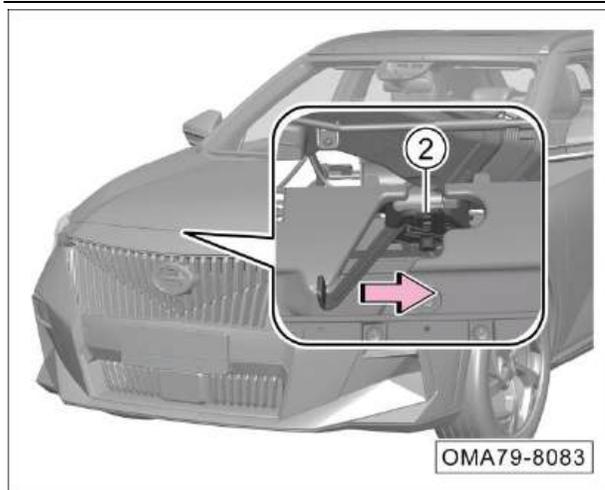
- Before opening the front engine hood, please ensure the vehicle is in "P" gear and the parking brake is applied.
- Ensure the wipers are off and resting snugly against the windshield, otherwise component damage may occur.

Opening the Front Engine Hood

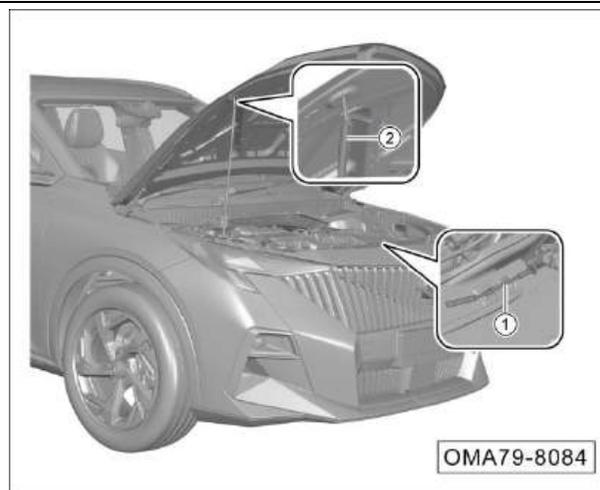


1. Pull the front engine hood release handle ①. The front engine hood will unlock and slightly pop up.

4. Operating Systems and Equipment



2. Push the locking mechanism ② in the direction of the arrow to fully unlock the front engine hood.



- Lift the front engine hood to its limit position, remove the support rod from bracket ①, and secure the support rod in mounting hole ② to support the front engine hood in the limit position.

⚠ WARNING

- **Never unlock the front engine hood while driving.**
- **Before opening the front engine hood: Ensure the front engine hood has cooled sufficiently, otherwise there is a risk of scalding.**
- **Do not allow sharp objects to contact the front engine hood to avoid scratching components.**

When using the mechanical support rod:

- **Please hold the plastic sleeve position to avoid burns.**
- **Ensure it is securely in place to prevent the front engine hood from suddenly falling due to the support rod coming out, causing injury to personnel and damage to components.**
- **In windy conditions: Beware of the front engine hood suddenly falling or over-opening, causing injury to personnel and damage to vehicle components.**

4. Operating Systems and Equipment

Closing the Front Engine Hood

- Remove the support rod from the mounting hole and place it on the support rod bracket; lower the front engine hood to a height of about 30cm from the lock body, then release it, allowing the front engine hood to fall freely and lock.

WARNING

- **Do not slam it shut or let it fall freely from a high height, as this may cause component damage.**
- **Before driving, ensure the front engine hood is closed and locked. Otherwise, the front engine hood may suddenly open while driving, leading to dangerous accidents.**

CAUTION

If the front engine hood is not closed:

- The instrument cluster display will show an alarm message.
- When the vehicle speed exceeds 5km/h, a buzzer will sound.

If any of the above occurs, safely pull over to the side of the road and properly close the front engine hood.

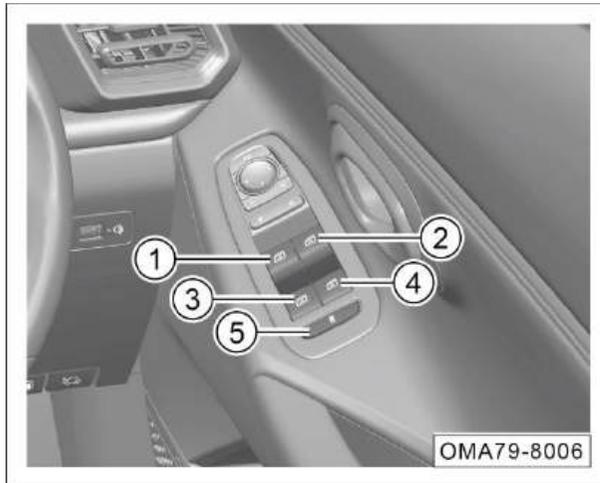
4.2.8 Power Windows

CAUTION

- When leaving the vehicle, please close all windows.
- Be careful when closing the windows. Do not place your hand on the window edge, otherwise there is a risk of pinching.

4. Operating Systems and Equipment

Driver Side Power Window Switch



- ① Left Front Power Window Button
- ② Right Front Power Window Button
- ③ Left Rear Power Window Button
- ④ Right Rear Power Window Button
- ⑤ Passenger Window Lock Button

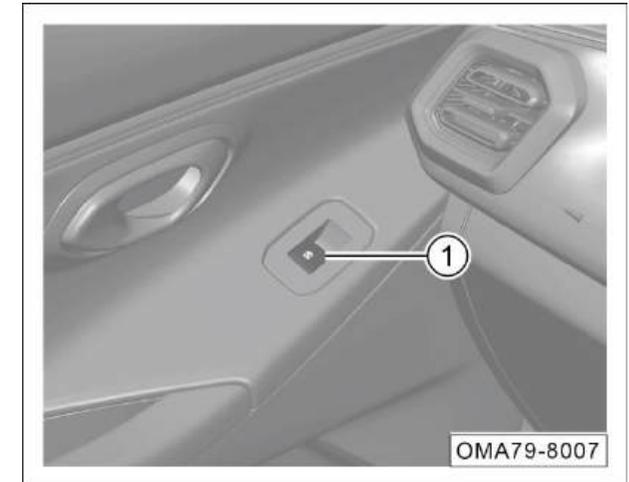
- Lift button ① to the first stop position, the power window will close upwards until the button is released or the window reaches the highest position.
- Lift button ① to the limit position, the power window will automatically close upwards until the highest position.
- Press button ① to the first stop position, the power window will open downwards until the button is released or the window reaches the lowest position.
- Press button ① to the limit position, the power window will automatically open downwards until the lowest position.

Tip

- During automatic ascent/descent, if you want the window to stop, you can press/lift button ① to stop it.
- The operation methods of buttons ②, ③, and ④ are the same as button ①, but they can only control the window of the corresponding door.

- Press passenger window lock button ⑤, the button indicator light illuminates, and the front and rear passenger side power window buttons cannot effectively operate the corresponding windows. To unlock, press the button again, and the button indicator light will extinguish.

Passenger Side Power Window Switch



- The method for using the passenger side power window button ① refers to the driver's side power window button.

4. Operating Systems and Equipment

Auto Window Closing Upon Locking Function

If windows are not closed when locking the vehicle, the system will automatically close the windows to prevent damage due to forgotten window closure. The auto close windows on lock function can be enabled or disabled through the audio system settings. If the automatic window closing fails due to abnormal conditions such as anti-pinch, the horn will honk 4 times to remind the user that the window closing failed.

CAUTION

The auto close windows on lock function only works when the battery level and components are normal. Please confirm that the windows are fully closed before leaving the vehicle.

Window Automatic Calibration

If external factors prevent the window from automatically rising, the window will first lower to the bottom for automatic calibration, and then automatically rise.

CAUTION

In special circumstances, individual windows may not automatically rise. In this case, manual window rising calibration is required.

Window Unclosed Warning

After the vehicle power is switched to the "OFF" position, when the driver's side door is opened, if any window is open, the system will emit an alarm buzzer sound, and the instrument cluster display will show a "Window not closed" alarm message.

Anti-Pinch Function Initialization

If the power window does not have the one-touch up function, the anti-pinch function fails, or the initialization status automatically becomes invalid due to multiple triggers of the anti-pinch function within a short period, it needs to be re-initialized.

1. Lift the power window button, and the window will rise incrementally until it is fully closed.
2. After the window is fully closed, continue to lift the power window button and hold for about 2 seconds to complete the initialization.
3. After the corresponding window initialization is complete, operate the window to its fully down position, then continue to press and hold the power window button for about 2 seconds to set the lowest position.
4. Lift the power window button to check if the one-touch up function is available.

4. Operating Systems and Equipment

WARNING

- During the initialization learning process, the window does not have an anti-pinch function. Do not obstruct the closing of the window with any body part or other object, otherwise it will cause damage and affect the result of the initialization learning.
- If the power window system malfunctions, please visit a GAC Service Center for inspection and repair promptly.

4.2.9 Electric Sunroof*

Tip

When the vehicle's power is "OFF," if the driver's door is opened while the electric sunroof is not closed, the instrument cluster will display a "Window Not Closed" message accompanied by a buzzer. You should check if the sunroof is closed immediately.

CAUTION

Please close the sunroof; otherwise, there is a risk of water entering during rain.

Opening or Closing the Sunroof



- Briefly push the sunroof switch ① backward to open the sunroof a short distance before it stops. Push and hold the sunroof switch ① backward for a moment to open it completely.
- Briefly push the sunroof switch ① forward to close the sunroof a short distance before it stops. Push and hold the sunroof switch ① forward for a moment to close it completely.

4. Operating Systems and Equipment

Tip

- When the sunroof opens, the electric sunshade will automatically open with it.
- During automatic opening or closing of the sunroof, briefly pushing the sunroof switch ① forward or backward will stop its movement and hold it in the current position.

Tilting the Sunroof



- When the sunroof is fully closed, pressing the sunroof switch ①  will cause the sunshade to automatically open to a halfway position and the sunroof to tilt up. To close it, push the sunroof switch ① forward.

Electric Sunshade



- Briefly press switch ① to open the electric sunshade a short distance before it stops. Press and hold switch ① for a moment to open the electric sunshade completely.
- Briefly press switch ② to close the electric sunshade a short distance before it stops. Press and hold switch ② for a moment to close the electric sunshade completely.

Tip

If the switch is pressed again while the electric sunshade is in the process of automatically opening or closing, the electric sunshade will stop at its current position.

CAUTION

Do not touch the sunshade with hands or objects while it is opening or closing, as this may cause the sunshade to wrinkle, detach, or even fail.

Remote Control Operation

With the vehicle's power switched to "OFF," press and hold the  remote key button to remotely close the sunroof and sunshade. Releasing the button will stop the closing action.

With the vehicle's power switched to "OFF," press and hold the  button on the remote key to remotely tilt the sunroof.

Tip

The remote function only includes tilting and closing; it does not include opening.

Infotainment System Display Screen Control

On the infotainment system display screen, you can control the sunroof or sunshade by tapping soft keys such as , , "Ventilate," "Sunshade Fully Open," or "Sunshade Fully Closed" in the smart scene vehicle model or the "My Car" application menu.

4. Operating Systems and Equipment

Electric Sunshade Anti-Pinch Function

The electric sunshade has an anti-pinch function when sliding closed, which prevents it from pinching larger objects.

- If the anti-pinch function is triggered while the electric sunshade is in the sliding area, the electric sunshade will move a certain distance in the opening direction and then stop.

CAUTION

Do not operate the electric sunshade when the temperature is below $-20\text{ }^{\circ}\text{C}$. In such environments, the electric sunshade's anti-pinch function may not activate, leading to unexpected accidents. Additionally, low temperatures can cause a certain degree of damage to the motor.

Sunroof Anti-Pinch Function

The sunroof has an anti-pinch function both when sliding closed and when closing from a tilted position. This function prevents large objects from being caught as the sunroof closes.

- If the anti-pinch function is triggered while the sunroof is sliding, it will reverse direction for a certain distance and then stop.
- If the anti-pinch function is triggered while the sunroof is closing from a tilted position, it will reverse and return to the maximum tilt position.

CAUTION

Do not operate the sunroof in temperatures below -20°C . In such conditions, the anti-pinch function may not activate, which could lead to an accident. Additionally, low temperatures can cause damage to the motor.

CAUTION

If the electric sunroof system malfunctions, please visit a GAC Service Center for inspection and repair promptly.

WARNING

- **The anti-pinch function of the sunroof or sunshade cannot prevent thin or small items from being caught.**
- **Be extremely cautious when closing the sunroof or sunshade. Always ensure that no one is within its range of motion to avoid being pinched.**
- **The sunroof or sunshade may stop detecting obstacles just before it is fully closed. It does not have an anti-pinch function in this final position.**
- **Do not attempt to activate the anti-pinch function with your hand or any part of your body, as this may result in serious injury.**

4. Operating Systems and Equipment

Sunroof Initialization



In some situations (such as a sudden battery disconnection or after the vehicle has been unused for a long time), you may need to manually initialize and calibrate the sunroof. The specific operation is as follows:

- Press switch ① to move the sunroof to the fully closed position.
- Continuously press and hold switch ①. The sunroof will first move to the tilted position, then open a short distance, and finally return to the fully closed position.
- Release switch ①. The sunroof initialization is complete.

Electric Sunshade Initialization



- Press the sunshade close switch ① to move the sunshade to the fully closed position.
- Press and hold the sunshade close switch ①; the sunshade will first open a certain distance, then finally move to the fully closed position.
- Release the sunshade close switch ①; the sunshade initialization is complete.

4.2.10 Basic Operation of Vehicle Anti-Theft System

Vehicle Anti-Theft - Remote Unlock

With the vehicle's power "OFF" and the security system armed, approach the door with the smart remote key and press the unlock button once. The doors will unlock, the alarm will be disarmed, and the turn signals will flash twice.

Vehicle Anti-Theft - Remote Lock

With the vehicle's power "OFF" and all four doors, the hood, and the tailgate closed, walk away from the vehicle with the smart remote key and press the lock button once. The doors will lock, the security system will be armed, and the turn signals will flash once.

4. Operating Systems and Equipment

Triggering Vehicle Anti-Theft

When the vehicle power is in the "OFF" position and the vehicle is armed, if an invalid key is used or the door lock is forced open, the anti-theft system will be triggered, and the anti-theft horn will sound and the turn signal lights will flash.

If the vehicle was armed by remote locking, and the driver's side door is unlocked using the emergency mechanical key, after opening the driver's side door, the anti-theft system will trigger the horn and turn signal lights after a few seconds.

i Tip

When no alarm has been triggered or during an alarm, pressing a key on the remote key or switching the vehicle power to the "ON" position will disarm the anti-theft alarm, and the vehicle will enter the disarmed state.

Engine Immobilizer

When the vehicle's power is "OFF," the body anti-theft system is disarmed, and a valid key is inside the vehicle, switch the power to "ON." If the engine immobilizer system passes verification, it will be disarmed.

If the engine immobilizer system verification fails, the engine cannot be started, and an anti-theft alarm will be triggered.

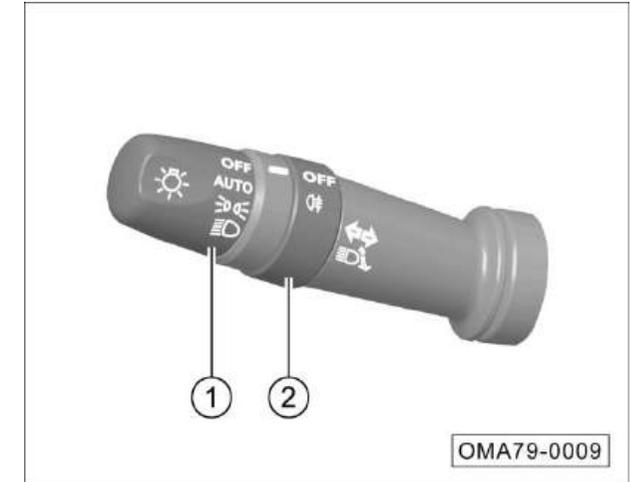
Vehicle Anti-Theft Maintenance Instructions

No maintenance is required during normal use. If you have any issues, please contact a GAC Service Center.

4.3 Lights and Visibility

4.3.1 Exterior Lights

Light Combination Switch



① Headlight Switch

② Fog Light Switch

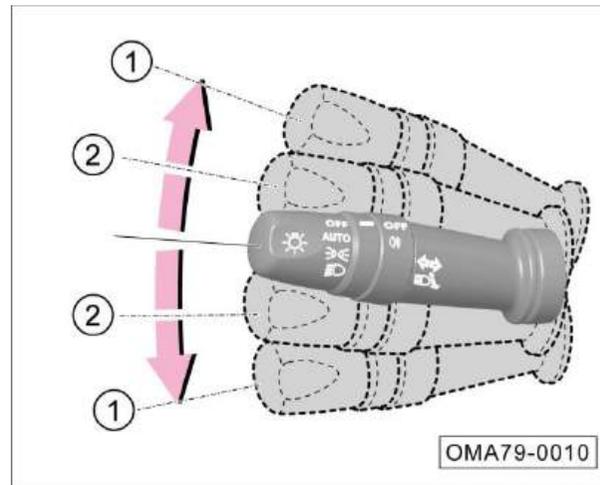
i Tip

The illustration shows a model with automatic lights as an example. Please refer to the actual vehicle for specific function switches.

Tip

- Under certain conditions (such as high humidity or car washing, but not limited to these), condensation or even water droplets may appear on the inner surface of the light assemblies. This is similar to the fogging of windows when driving in the rain and is not a malfunction.
- Parking the vehicle in a dry environment, turning on the headlights, and driving the vehicle can help dissipate the fogging, but the fogging phenomenon may recur.
- If a large amount of condensation or water appears inside a light assembly, please contact a GAC Service Center for inspection.

Turn Signal Lights



- When the vehicle's power is "ON," push the light combination switch up or down to the detent position ① to activate the right or left turn signal. The corresponding  or  indicator on the instrument cluster will flash.

Lane Change Signal Light

- When changing lanes or overtaking, briefly push the light combination switch up or down to position ② and release it. The corresponding turn signal and the  or  indicator on the instrument cluster will flash 3 times.

4. Operating Systems and Equipment

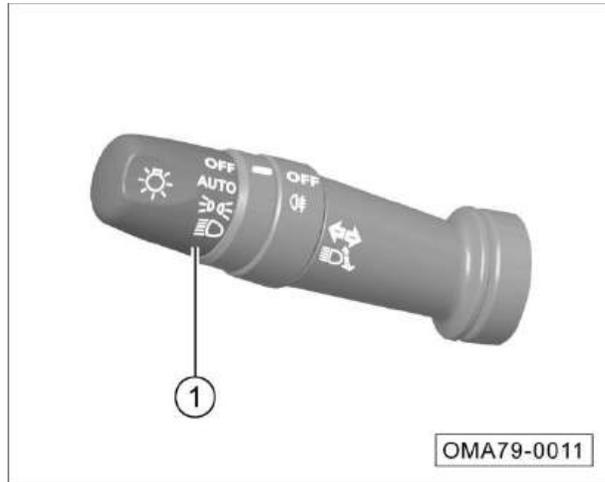
- If you push and hold the light combination switch at position ②, the corresponding turn signal and the  or  indicator on the instrument cluster will flash continuously. It will stop flashing when you release the switch.

CAUTION

If the  or  indicator on the instrument cluster flashes twice as fast as normal, it indicates that a turn signal bulb has failed. Please visit a GAC Service Center for inspection and repair promptly.

4. Operating Systems and Equipment

Headlight Switch



When the vehicle's power is "ON," you can rotate the light switch ① to turn on or off AUTO (Automatic Lights),  (Position Lights), or  (Low Beam Headlights).

When the headlight switch is rotated to the "OFF" position, all lights are turned off.

AUTO (Automatic Lights)

- Rotate the headlight switch to the AUTO position to activate automatic lights.

Tip

With automatic lights activated, the vehicle will automatically turn on or off the lights based on ambient light conditions. When the external ambient light gradually dims, both the position lights and low beam headlights will turn on; when the external ambient light gradually brightens, both the position lights and low beam headlights will turn off.

CAUTION

- If the instrument cluster displays "Sensor Malfunction, Please Control Lights Manually," the system will keep the low beams on for safety. You should then control the lights manually and visit a GAC Service Center for inspection and repair promptly.
- In foggy or hazy environments, automatic lights may be affected and may not turn on normally. Manual activation of lights is required.

4. Operating Systems and Equipment

Daytime Running Lamp

- When the engine is running and the low beams are off, the daytime running lights will turn on automatically. They will turn off when the low beams are turned on or the engine is turned off.

Position Lamp

- Rotate the light switch to  position. The position lights, dashboard illumination, license plate lights, etc., will turn on, and the corresponding indicator  on the instrument cluster will illuminate.

Tip

To conserve battery power, if the position lights are left on, they will remain illuminated for approximately 15 minutes after the vehicle power is switched to the "OFF" position and the vehicle is not locked, then automatically turn off. If the vehicle power is switched to the "OFF" position and the vehicle is locked, the position lights will turn off immediately.

WARNING

- **Do not drive with only the position lights on during nighttime or in low visibility road conditions, as this can easily lead to accidents.**
- **At night or in poor visibility, if you stop temporarily and turn off the engine, you need lights to indicate the vehicle's position. Since position lights have a power-saving feature, do not use them as parking lights. Instead, activate the hazard warning lights as a warning.**

Low Beam

- Rotate the headlight switch to  position to turn on the low beam headlights.

High Beam

- After turning on the low beam headlights, push the light combination switch forward to the limit position to turn on the high beam headlights. The corresponding indicator light  on the instrument cluster will illuminate.
- Pull the light combination switch backward to its original position to turn off the high beam headlights.

High Beam Flash

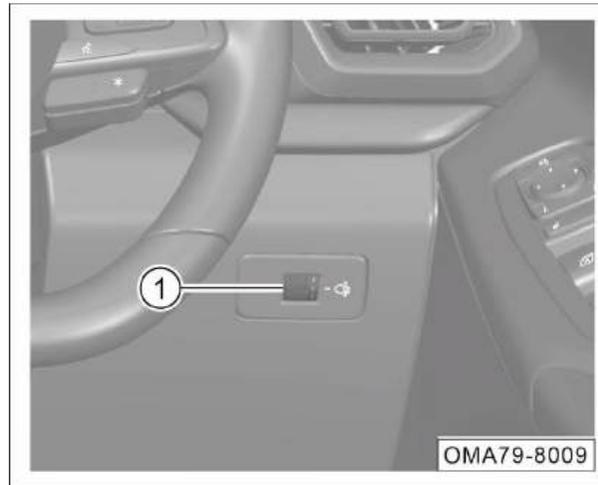
- Pull the light combination switch backward to the limit position to turn on the high beam headlights.
- When released, the light combination switch automatically returns to its original position, and the high beam headlights turn off.

4. Operating Systems and Equipment

Tip

- High beam headlights can cause glare to drivers in other vehicles at close range, which can easily lead to accidents. Please use them appropriately.
- When all lights are off, continuously pull the light combination switch backward, and the high beam headlights will remain on, with the corresponding indicator light in the instrument cluster illuminated.

Manual Headlight Leveling Adjustment



Rotate knob ① to manually adjust the range of the front headlights (low beam). Adjustment positions include "0, 1, 2, 3." The height of the light beam will decrease as the adjustment value increases.

Lights On Warning

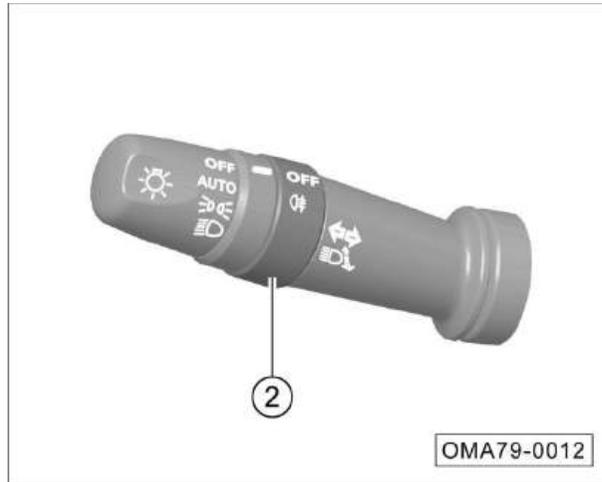
When the vehicle power is switched to the "OFF" position and the driver's side door is opened, if the front headlights or position lights are on, the system will emit an alarm buzzer sound, and the instrument cluster display will show a "Lights Not Off" warning message.

Headlight Delay Off (Follow Me Home) Function

Within 10 minutes after the vehicle power is switched to the "OFF" position, if the headlight switch is rotated from the OFF position to another position and then back to the OFF position within approximately 2 seconds, the headlight delay off function will be activated. The low beam headlights will illuminate for approximately 30 seconds. If any door (including the four passenger doors, front hood, and tailgate) is opened within these 30 seconds, the timer will reset, and the low beam headlights will illuminate for approximately 80 seconds. If all doors are closed within these 80 seconds, the timer will reset again, and the low beam headlights will illuminate for approximately 30 seconds, repeating this cycle.

4. Operating Systems and Equipment

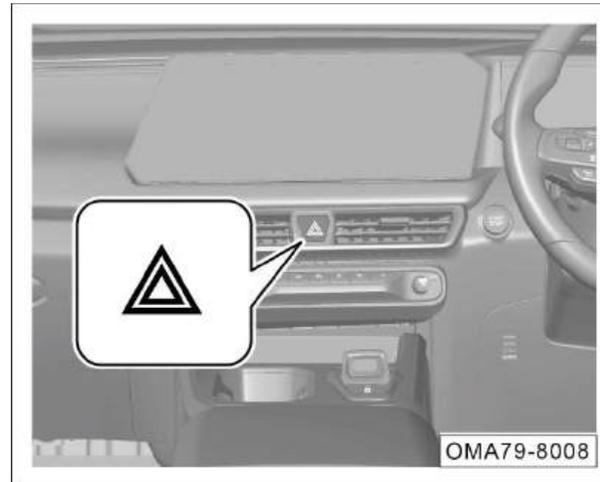
Fog Light Switch



When the vehicle's power is "ON" and the low beams are on, rotate the fog light switch ② to turn the (Rear Fog Lights) on or off.

- Rotate the fog light switch ② to position and release it. It will return to the "OFF" position, and the rear fog lights will turn on.
- Rotate the fog light switch ② to position again and release it. It will return to the "OFF" position, and the rear fog lights will turn off.

Hazard Warning Lights



When the vehicle power is in any position, press  switch; the red background light of the switch will flash, activating the hazard warning lights. Pressing the switch again will turn off the hazard warning lights.

When the hazard warning lights are on, all turn signals and  and  indicators on the instrument cluster will flash simultaneously.

To attract the attention of other road users and reduce the risk of traffic accidents, the hazard warning lights should be activated in the following situations:

- When the vehicle breaks down.
- When there is a traffic jam and the vehicle is at the end of the traffic flow.
- When towing another vehicle or being towed.
- When temporary parking is needed in low visibility conditions to warn approaching vehicles.

Tip

- Using hazard warning lights consumes battery power. Please turn them off when not needed.
- Always strictly comply with relevant regulations when using hazard warning lights.
- In case of an emergency and the hazard warning lights malfunction, other methods consistent with relevant traffic regulations must be used to attract the attention of other road users.

4. Operating Systems and Equipment

Safe Entry Lighting

- Within the effective range, pressing the unlock  button on the remote key will activate the position lights as approach lighting, which will stay on for a period of time. Pressing the unlock  button on the remote key again can extend the duration for which the position lights stay on. When you enter the vehicle and switch the vehicle power to the "ON" position, the position lights will turn off.

Vehicle Finder Lighting

- Quickly pressing the lock  button on the remote key twice in succession will turn on the position lights for a few seconds and flash the turn signals 3 times, helping you locate your vehicle.

4.3.2 Interior Lights

Automatic Roof Lamp Activation Function

Applicable to AVNT Head Unit Models

- When the vehicle's power is in the "ACC" or "ON" position, you can enable/disable the automatic dome light function by navigating to "Settings -> Body Accessories" in the infotainment system and tapping the  "Door Mode On/Off" soft key.

Applicable to AV Head Unit Models

- Swipe down from the top of the screen (pull-down area) to open the drop-down menu. Tap the "Dome Light DOOR" soft key to enable the automatic dome light function. Tap it again to disable the function.

Interior Light Delay Off System

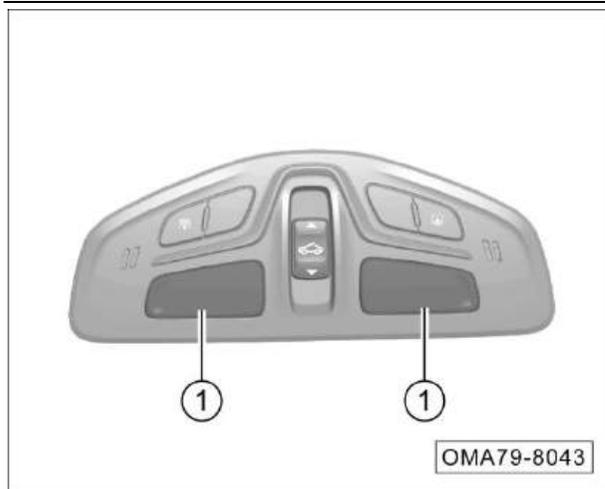
When all dome lights are off and the dome light automatic activation function is enabled:

- When the vehicle power is in the "OFF" position, opening any door will automatically illuminate the dome lights; they will turn off approximately 30 seconds after the door is closed.
- When the vehicle power is in the "OFF" position, remotely unlocking the doors will automatically illuminate the dome lights; they will turn off after approximately 30 seconds.
- When the vehicle power is switched from the "ON" position to the "OFF" position, the dome lights will automatically illuminate; they will turn off after approximately 30 seconds.

Tip

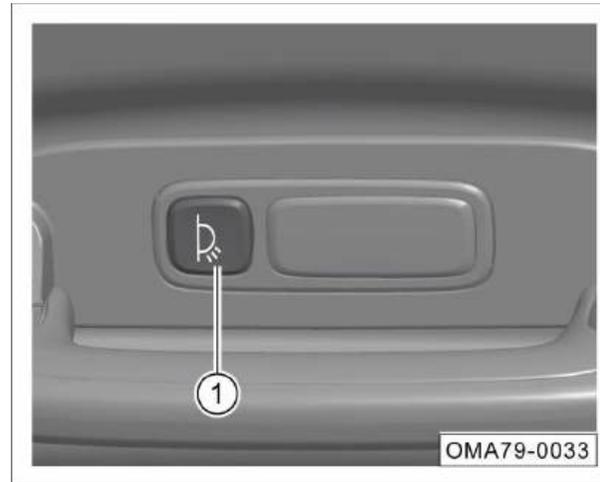
If all doors are closed and the dome lights are illuminated by the above conditions, remotely locking the vehicle or switching the vehicle power to the "ON" position will automatically turn off the dome lights.

4. Operating Systems and Equipment



- When the front dome lights are off, touch the corresponding side of the front dome light ③ to turn it on; touch the corresponding side of the front dome light again to turn it off.

Second Row Dome Lights



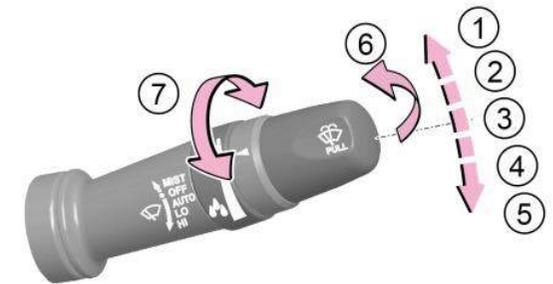
- When the second-row dome light is off, press switch ① once to turn on the light on the corresponding side. Press switch ① again to turn it off.

Smart Ambient Lighting*

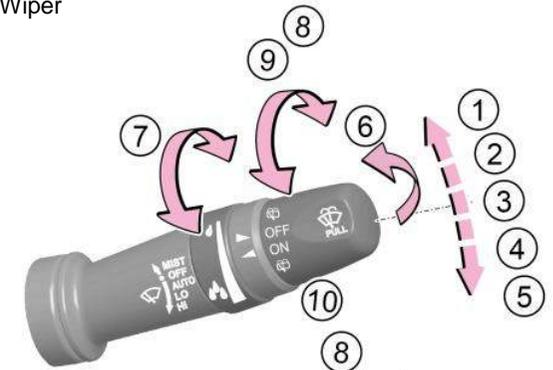
Access the "My Car" function interface via the vehicle model on the infotainment system's main screen or the "My Car" application menu. Select the "Lighting Effects" soft key to enter the interior ambient lighting effects settings interface.

4.3.3 Wiper Combination Switch

Models without Rear Wiper



Models with Rear Wiper



4. Operating Systems and Equipment

When the vehicle's power is "ON," you can operate the wiper combination switch:

- ① MIST: Manual Wiping
- ② OFF: Front Wiper Off
- ③ AUTO: Automatic Wiping
- ④ LO: Slow Wiping
- ⑤ HI: Fast Wiping
- ⑥ Activate Front Windshield Washer System
- ⑦ Adjustment Knob:
 - Adjust automatic wiper sensitivity (AUTO)*
 - Adjust intermittent wipe interval (INT)*
- ⑧  *: Activate Rear Windshield Washer System
- ⑨ OFF*: Rear Windshield Washer or Wiper Off
- ⑩ ON*: Turn on rear wiper
- ① **MIST: Manual wipe**
 - From the initial position, move the wiper combination switch to the ① MIST detent and release. The switch will return to its initial position, and the front wipers will perform one wipe and then stop.

- If the wiper combination switch is pushed from the initial position to the limit position ① MIST and held, the front wipers will operate continuously.
- ② **OFF: Wipers off**
 - Push the wiper combination switch to the limit position ② OFF; the front wipers will stop wiping.
- ③ **AUTO: Automatic wipers**
 - Push the wiper combination switch to the limit position ③ AUTO to activate the automatic wiping function. The wiper system will adjust the wiping speed based on current rainfall and real-time vehicle speed.
 - The automatic rain-sensing wiper function can be enabled or disabled through the infotainment system settings. When disabled, the wipers will switch to intermittent mode, and the wipe interval can be adjusted with the adjustment knob ⑦.

CAUTION

- If the instrument cluster displays "Sensor Malfunction, Please Control Wipers Manually," you should control the wipers manually for safety and visit a GAC Service Center for inspection and repair promptly.
- Before using automatic wiping in winter, please check if the wiper blades are frozen.
- It is recommended to turn off the automatic wipers when washing the vehicle, during sandstorms, and in dry weather to prevent accidental wiping that could cause damage or injury.
- Automatic wiping is an auxiliary function; the driver should manually operate the wipers when necessary, depending on driving conditions, to ensure driving safety.
- Streaks, scratches, or dirt on the sensor area may cause the automatic wipers to malfunction.

4. Operating Systems and Equipment

④ LO: Low-speed wipe

- Push the wiper combination switch to the limit position ④ LO; the front wipers will wipe at a slower speed.

⑤ HI: High-speed wipe

- Push the wiper combination switch to the limit position ⑤ HI; the front wipers will wipe at a faster speed.

⑥ Activate Front Windshield Washer System

- Pull the wiper combination switch backward to the limit position ⑥; the front washer will spray water, and the front wipers will wipe shortly after.
- Release the wiper combination switch and allow it to return to its original position; the front windshield washer system will turn off, and then wipe once more after approximately 6 seconds to clear residual water from the glass.
- After the front wipers stop wiping for approximately 6 seconds, they will perform one more wipe to remove any remaining water streaks from the glass.

⑧ : Activate Rear Windshield Washer System

- When the tailgate is closed, rotate the rear wiper knob up/down to the  limit position ⑧; the washer will spray water, and the rear wiper will wipe shortly after.

⑨ OFF*: Turn off rear window washer or rear wiper

- Turn the rear wiper knob to the ⑨ OFF detent to turn off the rear window washer system or stop the rear wiper.

⑩ ON*: Turn on rear wiper

- When the tailgate is closed, rotate the rear wiper knob to the limit position ⑩ ON; the rear wiper will begin wiping.

4.3.4 Windows

Window Glass



The front windshield uses green glass.

4. Operating Systems and Equipment

⚠ WARNING

- Always keep the glass surfaces clean.
- Please attach necessary documents and labels as required by local traffic regulations. Do not randomly stick paper or hang objects on the front windshield surface, as this may obstruct forward visibility and easily lead to traffic accidents.

4.3.5 Rearview Mirrors

Interior Rearview Mirror



Manually adjust the inside rearview mirror to reduce glare from behind, optimizing rear visibility.

- As shown, when the tab is in the normal rearview angle, push the tab forward to offset glare from behind, enabling the anti-glare function.
- Pull the tab backward again to return to the normal rearview angle.

Exterior Rearview Mirrors

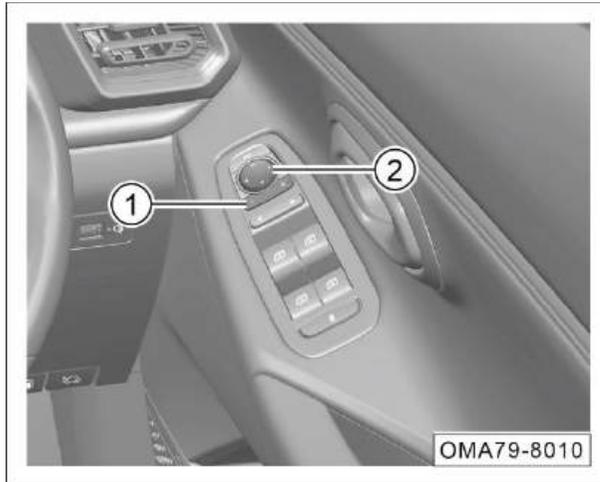
i Tip

If the exterior mirror functions fail, please visit a GAC Service Center for inspection and repair promptly.

⚠ WARNING

Although convex (convex and spherical) rearview mirrors expand the field of vision, objects reflected appear smaller and farther than they actually are. Therefore, do not judge the distance of following vehicles based on their reflections when changing lanes, as this may lead to misjudgment and an accident.

Electric Adjustment



- Press the "L" or "R" end of the selection button ① to select the left or right exterior rearview mirror.
- Press the adjustment button ② to adjust the selected exterior rearview mirror to the appropriate rearview angle.
- After adjusting the exterior rearview mirror, return the selection button ① to its flat position.

⚠ WARNING

Do not adjust the exterior rearview mirrors while driving, as this may cause distraction and lead to loss of vehicle control and danger.

Electric Folding*



- Press the folding button ③ once; the exterior rearview mirrors will fold electrically.
- Press the folding button ③ again; the exterior rearview mirrors will unfold electrically.

Automatic Folding*

- When the vehicle is locked from outside, the outside rearview mirrors will automatically fold.
- When the vehicle is unlocked from outside, the outside rearview mirrors will automatically unfold.

4. Operating Systems and Equipment

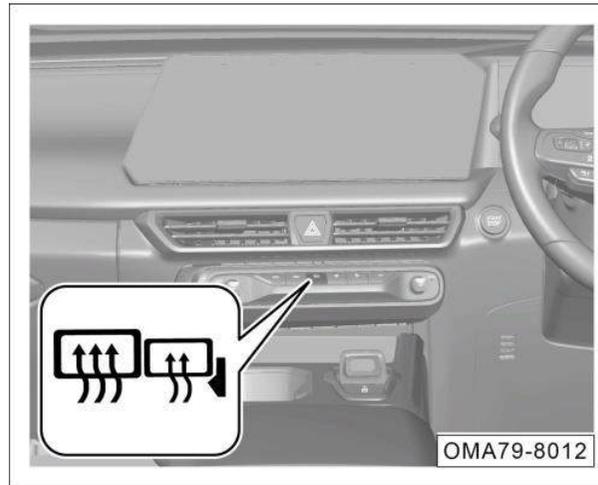
Tip

The auto-folding function can be enabled or disabled through the infotainment system.

CAUTION

- If the electric folding function fails or the vehicle does not have electric folding capability, manual folding is possible. After manual folding, please manually restore them to position. When manually restoring, you will hear a 'click' sound.
- Do not frequently manually fold exterior rearview mirrors equipped with electric folding functionality, as this may damage the internal folding mechanism and cause the electric folding function to fail.
- Exercise extreme caution when operating the exterior rearview mirror electric folding function to prevent fingers from being pinched by the mirror or its base.

Defrost and Defog Function*



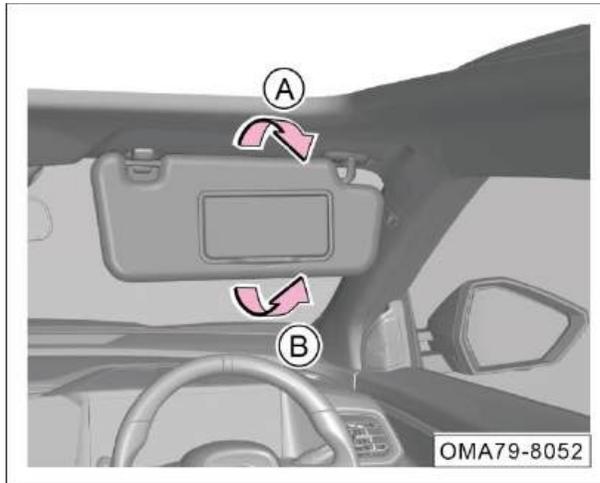
- Press the  button. The button's indicator light will illuminate, activating the exterior mirror and rear window defroster/defogger function.
- After approximately 15 minutes, the function will automatically turn off. You can also manually turn it off by pressing  button again during operation, at which point the indicator light will go out.

CAUTION

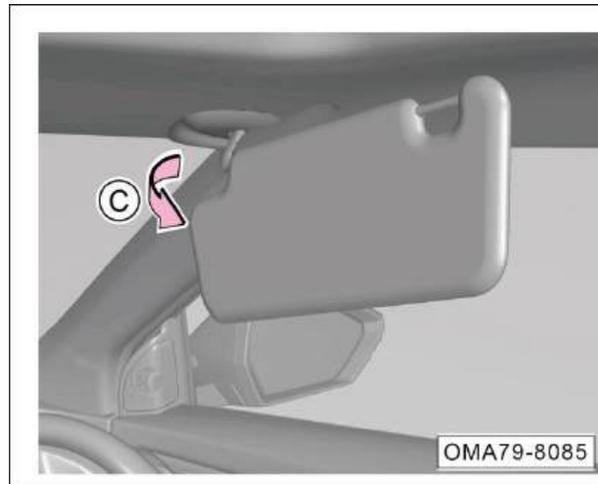
- If you still need to clear fog or frost after the defroster/defogger function has turned off automatically, press  button again.
- Do not use the defrost/defog function continuously for extended periods, as the heater may overheat and be damaged.
- If the defrost/defog function is not needed, please turn it off to avoid wasting battery power.

4. Operating Systems and Equipment

4.3.6 Sun Visors



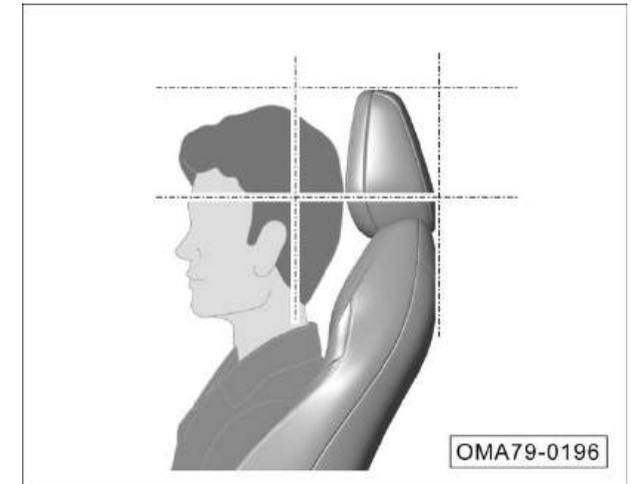
- Flip down the driver's side or front passenger's side sun visor in the direction of arrow A to block sunlight entering through the front windshield.
- To use the vanity mirror, lower the sun visor and flip open the mirror cover in the direction of -arrow B-. The vanity mirror light* will turn on automatically.



- After lowering the driver's or front passenger's sun visor, you can detach it from the inner pivot bracket and swing it to the side in the direction of -arrow C- to block sunlight from the side window.

4.4 Seats and Storage Facilities

4.4.1 Headrests



Proper adjustment of the headrest is crucial for protecting occupants and reducing injury rates in accidents.

All occupants must adjust their headrests to the correct position (as shown in the figure) according to their body type.

4. Operating Systems and Equipment

WARNING

To reduce the risk of injury or death in an accident, the following points must be strictly observed:

- Do not adjust the headrests while driving.
- Headrests must always be in their installed position. Driving with the headrest removed or improperly installed can easily cause severe injury to occupants in the event of an accident.

Adjusting Front Seat Headrest Height



- To lower: Press and hold the lock button ① and push the headrest down to the desired position.
- Raising: Directly pull the headrest up to the desired position.

Tip

The method for adjusting the second-row seat headrests is the same.

4.4.2 Front Seats

Tip

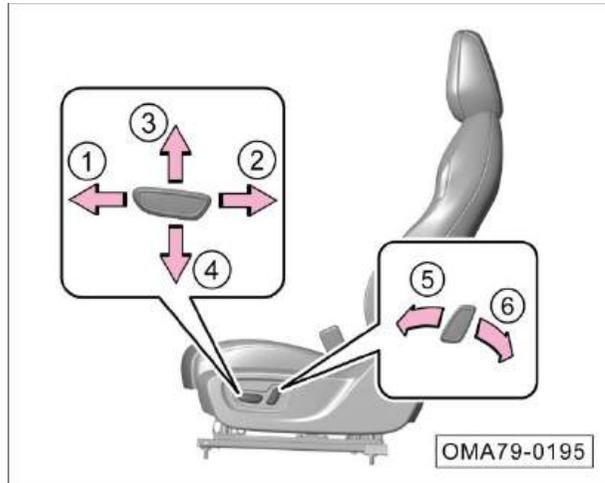
When measuring seat cushion depth, the fore/aft position of the seat should be adjusted to the middle of the slide rail, and the seat backrest should be adjusted to its normal use position (25°).

WARNING

- Do not place items under the front seats; items may get caught between the seat and the rail, preventing the seat from locking.
- Do not adjust the seats while the vehicle is in motion, as this can easily lead to injury or death. Front seats must only be adjusted when the vehicle is stationary.
- Even when the vehicle power is in the "OFF" position, the electric seat* adjustment mechanism remains active. Never leave children unattended in the vehicle to prevent them from accidentally operating the electric seats, which could lead to accidents.

4. Operating Systems and Equipment

Electric Seats*



Seat forward/backward adjustment:

- Push the switch in the direction of arrow ① or arrow ② to slide the seat forward or backward.

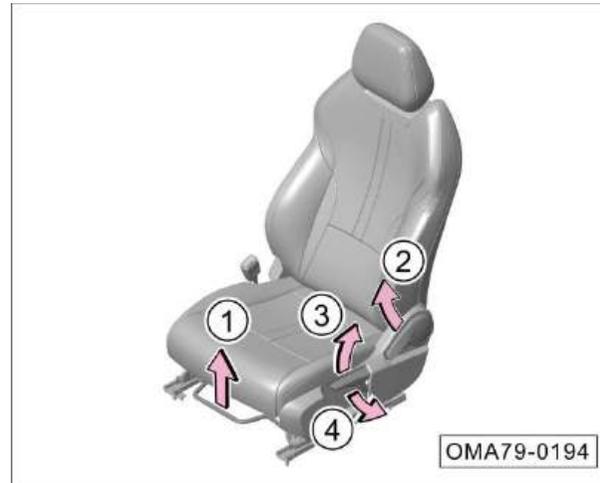
Seat Height Adjustment:

- Lift or push the switch in the direction of arrow ③ or arrow ④ to raise or lower the seat.

Backrest forward/backward adjustment:

- Lift or push the switch in the direction of arrow ⑤ or arrow ⑥ to adjust the seat backrest forward or backward.

Manual Seats*



Seat forward/backward adjustment:

- Pull up the adjustment lever in the direction of arrow ①, and slide the seat forward or backward. After releasing the adjustment lever, slide the seat slightly forward and backward until the seat is securely locked.

Backrest forward/backward adjustment:

- Pull up the adjustment handle in the direction of arrow ②, adjust the backrest to the appropriate position, and release the handle.

Seat Height Adjustment: (Driver's seat only)

- Lift or push the switch in the direction of arrow ③ or arrow ④ to raise or lower the seat.

Seat Ventilation*

Switch the vehicle's power to "ON," tap the Seat Ventilation Settings  icon at the bottom of the infotainment system's main screen, and tap "Driver's Seat" to configure the seat ventilation function.

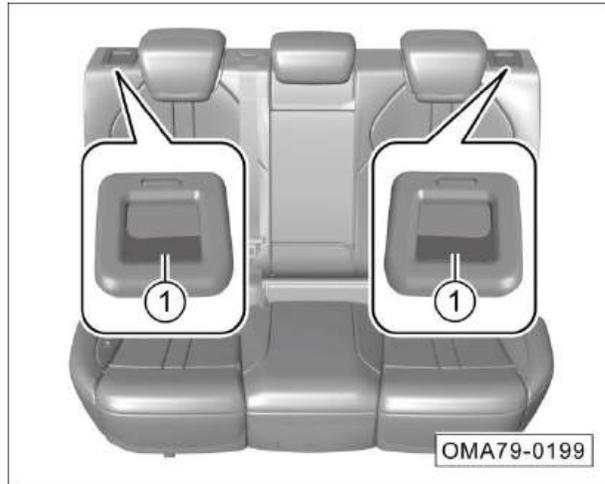
CAUTION

- To avoid damaging electrical components within the seat, do not kneel on the seat or apply pressure to a single point on the seat or backrest.
- If you find that the seat fan is not working after activating the seat ventilation function, turn it off immediately and visit a GAC Service Center for inspection and repair.

4. Operating Systems and Equipment

4.4.3 Second Row Seats

Second Row Seat Backrest Folding/Restoring



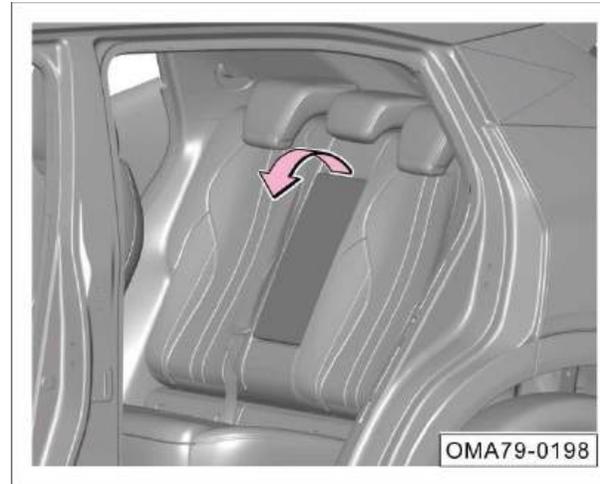
Folding:

- Press the seatback switch ① and fold the seatback forward to fold it down.

Restoring:

- Push the seat backrest directly backward until the backrest locks.

Center Armrest*



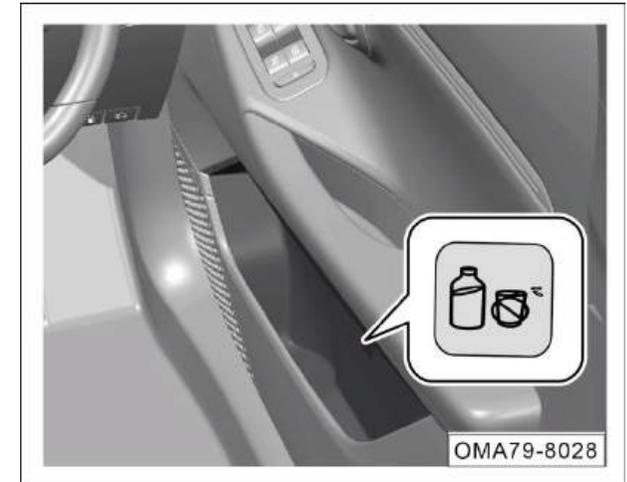
- Fold it down to use the center armrest.

i Tip

The center armrest is not for seating. If a passenger needs to sit there, the center armrest must be returned to its stowed position in the seatback.

4.4.4 Storage Facilities

Door trim panel storage slot



- Can be used to store drink bottles, map booklets, and other items.

Instrument Panel Storage Compartment

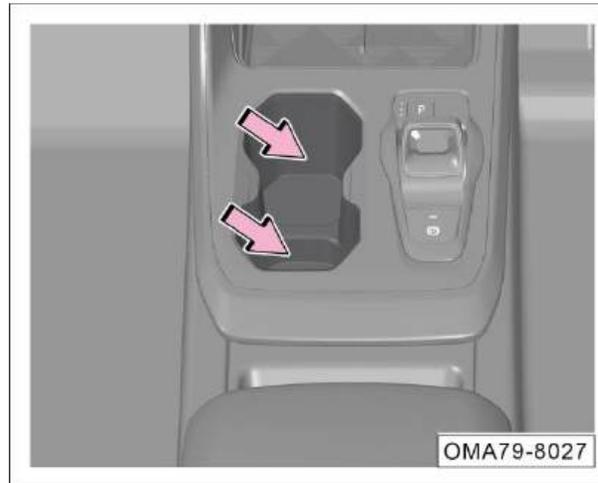


- For storing small items.

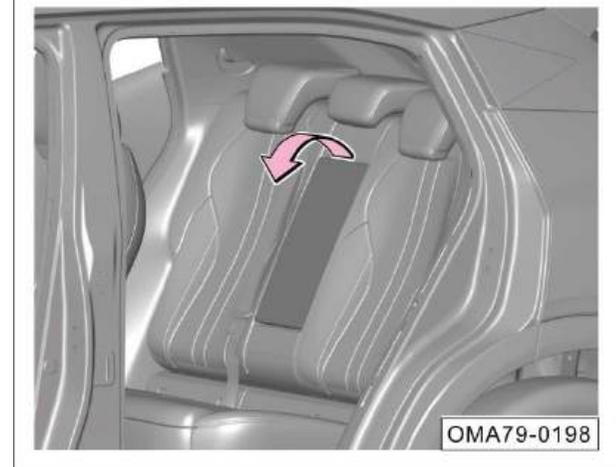
Tip

On models equipped with wireless phone charging*, this area serves as the wireless charging pad. You must disable the wireless charging function before placing other items here. => [See page 93](#)

Cup Holders



- Front cupholders: For holding beverage bottles.



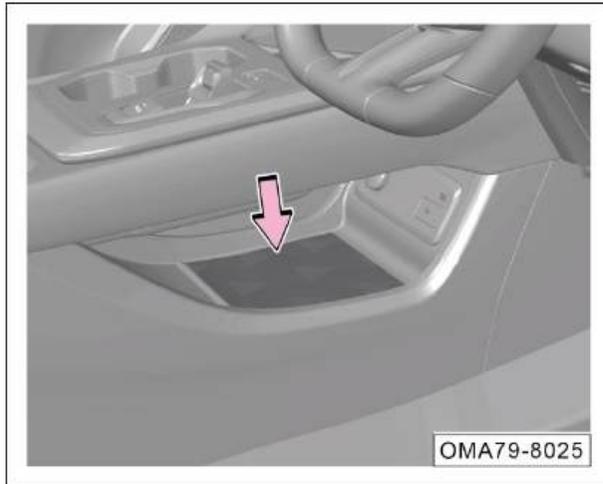
- Second-row cupholders*: Fold down the center armrest to access the cupholders for beverage bottles.

WARNING

Do not place hot beverages in the cup holders, as hot beverages may spill out while the vehicle is in motion, scalding occupants.

4. Operating Systems and Equipment

Storage Compartment Under Instrument Panel



- Can be used to store books, iPads, and other items.

Front Center Armrest Box



- Lift the front center armrest box lid upwards to store wallets and other items.

Front Seat Back Storage Pocket

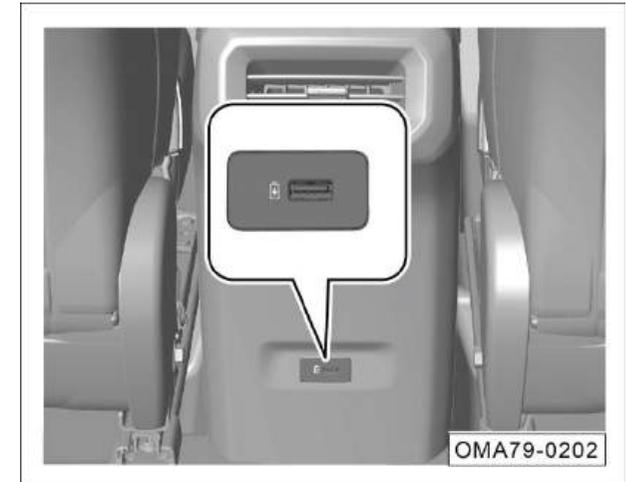


- Pull open the storage pocket to store books, folding umbrellas, and other items.

4. Operating Systems and Equipment

4.4.5 Power Outlet/USB Port

USB Port behind Center Armrest Box



- Can be used by connecting a charging device when the vehicle power is in the "ACC" or "ON" position.

i Tip

The rear USB port is for charging purposes only.

Front passenger side glove box



- Pull the handle to open the glove compartment; it can be used to store document folders and other items.
- Push the glove compartment back until you hear a "click" sound to close it.

i Tip

On models equipped with a damped glove box*, the glove box will open slowly after you pull the handle.

⚠ WARNING

The glove compartment must be kept closed while the vehicle is in motion; otherwise, items inside the glove compartment may fly out and injure occupants during emergency braking or an accident.

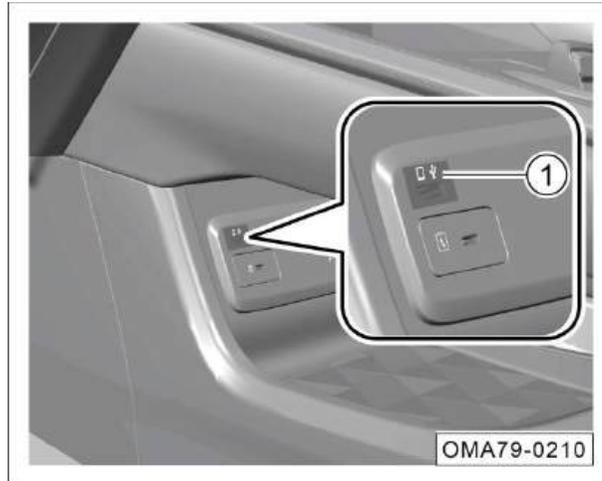
Rear Storage Box of the Center Console*



- For storing small items.

4. Operating Systems and Equipment

Front USB Ports



- Can be used by connecting a mobile device when the vehicle power is in the "ACC" or "ON" position.

i Tip

USB port ① supports charging, media playback, and OTG (phone connectivity) functions.

Front TYPE-C Port



- Can be used by connecting a mobile device when the vehicle power is in the "ACC" or "ON" position.

i Tip

The TYPE-C port is for charging purposes only.

Front 12V Power Outlet



- Can be used by flipping open the power outlet cover and connecting a charging device when the vehicle power is in the "ACC" or "ON" position.

i Tip

Supports devices with a maximum specification of 12V/120W.

4. Operating Systems and Equipment

4.4.6 Mobile Phone Wireless Charging System

The mobile phone wireless charging system uses electromagnetic induction to enable wireless charging for mobile phones without the need for wired connections.

CAUTION

The wireless phone charging system is not compatible with all phones. It is only suitable for "Qi"-certified phones. The company assumes no responsibility or liability for any accidents or losses caused by the use of non-"Qi"-certified phones or other wireless charging receivers.



The effective wireless charging area is located in the storage tray in front of the gear shift lever. When charging, please align your phone's charging coil with the "Qi" logo to ensure proper charging.

Mobile Phone Wireless Charging Switch

The wireless phone charging function is on by default. When the vehicle's power is "ON":

- Method 1: Enable or disable the wireless phone charging system through the infotainment system settings.
- Method 2: Tap the  soft button in the audio system status bar to enable or disable the mobile phone wireless charging system.

i Tip

When the wireless phone charging system is on, its icon  will appear in the infotainment system's status bar. The icon's status will change based on usage, and tapping it will display corresponding text information.

4. Operating Systems and Equipment

Symbol Status

Symbol	Color	Status
	Gray	Off
	White or Black	Standby
	Green	Charging / Fully Charged
	Red	Charging Fault

Tip

- The company assumes no responsibility for any problems caused by abnormal use (e.g., external wireless charging coils). If the product has been disassembled or modified, the free warranty service will be terminated.
- Only one mobile phone can be charged at a time.
- On bumpy roads, mobile phone wireless charging may intermittently stop and resume. If the phone deviates from the charging area and stops charging, it needs to be moved back to the chargeable area.
- The mobile phone wireless charging function requires joint participation from both the vehicle and the mobile phone. If either the vehicle or the mobile phone has a malfunction, it may result in inability to charge.
- Mobile phone charging may stop when the temperature is too high and will resume once the temperature decreases.

CAUTION

- Do not spill water into the storage box to prevent water from entering the wireless charging module and causing damage to electronic components.
- Do not spill small objects such as pebbles, sand, breadcrumbs, or paper scraps into the charging area to prevent them from entering the internal fan and causing abnormal noises.
- Do not place heavy objects on the charging area to avoid damage to the mobile phone wireless charging system.
- If the product malfunctions and cannot be used normally, stop using it and visit a GAC Service Center for inspection and repair promptly.
- When wireless charging your mobile phone, if you find a metallic foreign object between the phone and the charging area, do not immediately remove the object with your hand to avoid burns. Immediately turn off the wireless charging function, wait for it to cool down, then remove the foreign object.

⚠ WARNING

- **Do not place any objects between the phone and the charging pad during charging. Non-metallic objects may lead to reduced charging performance. Magnetic cards or chip cards may be damaged. Metal foreign objects such as keys and coins may heat up, posing a safety hazard.**
- **If you need to place metallic foreign objects in the mobile phone wireless charging area, please first turn off the wireless charging function via the audio system menu to prevent the metal from heating up in the charging area, which could create a safety hazard.**
- **Do not leave your phone charging in the car when the driver is not present, to avoid unnecessary safety incidents.**
- **While driving, do not frequently check the phone's charging status for extended periods to avoid traffic accidents.**

4.4.7 Luggage Compartment

To ensure the vehicle's handling stability, when loading luggage, items should be placed as evenly as possible, and heavy items should be placed at the front of the luggage compartment.

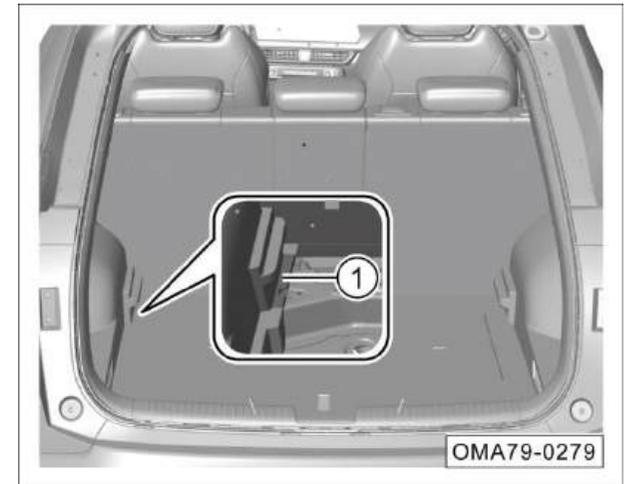
⚠ WARNING

- **When carrying heavy loads, the vehicle's center of gravity will change. If heavy items in the luggage compartment suddenly shift, it can alter the vehicle's handling stability.**
- **Items in the luggage compartment must be secured; otherwise, they may fly forward and injure occupants during emergency braking or an accident.**
- **Do not place fragile, flammable, or explosive dangerous goods in the luggage compartment!**

Luggage Compartment Volume

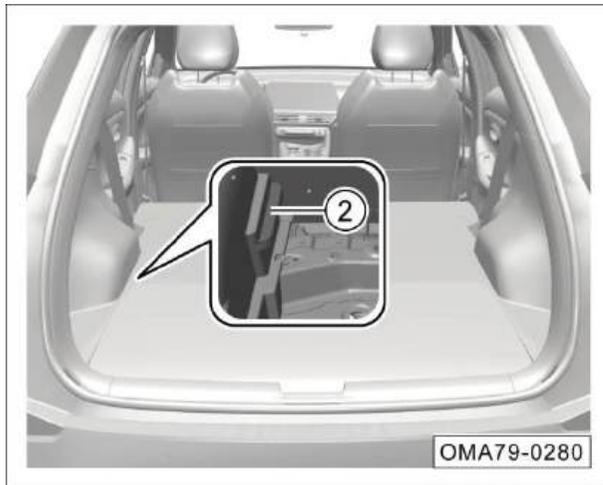
Folding down the second-row seat backrests can increase the luggage compartment volume. => [See page 88](#)

The trunk floor panel has two installation positions, lower and upper, to accommodate different usage scenarios.



- Lower position: Install both sides of the front edge of the floor panel at position ①. The panel is supported by the surrounding trim and the central spare tire, allowing you to carry heavy items and maximize cargo space.

4. Operating Systems and Equipment



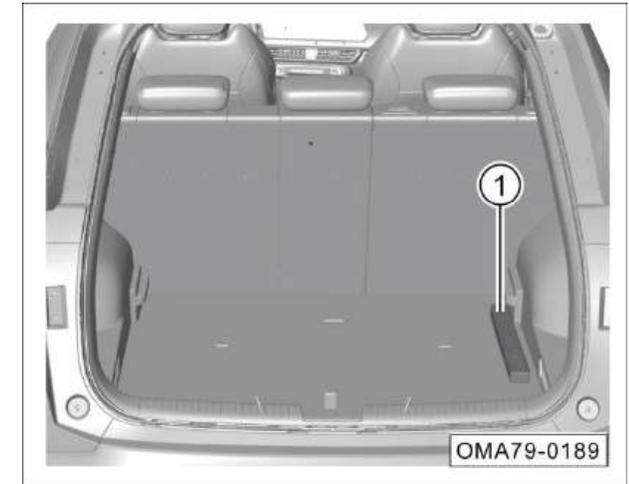
- Upper position: Install both sides of the front edge of the floor panel at position ②. With the second-row seatbacks folded down, the floor panel will be level with the seats, allowing you to carry extra-long items.

CAUTION

- The load capacity of the floor panel in the upper position is limited. For daily use, please use the lower position.
- When placing liquid items, ensure the container is sealed and the liquid does not leak. Try not to place them on the folded seat backrests to prevent liquid leakage and wetting the seats.

Luggage Compartment Onboard Items

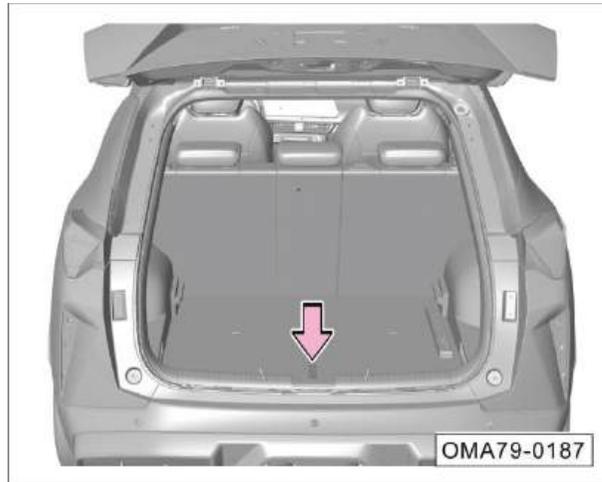
Warning Triangle



- The warning triangle ① is in the trunk. Refer to instructions for using the warning triangle.
=> See page 239

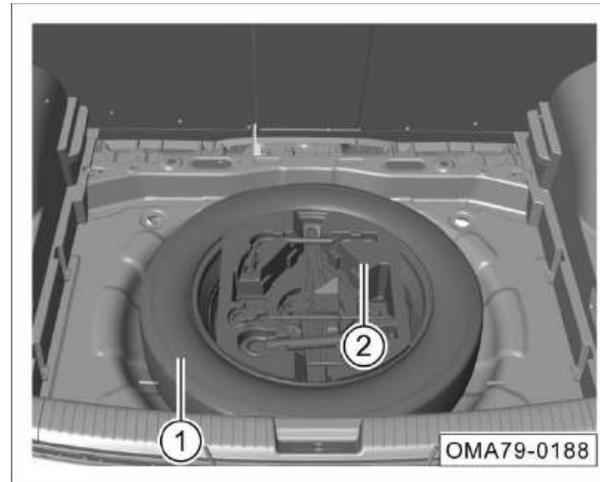
4. Operating Systems and Equipment

Trunk Carpet



- Lift the pull strap to open the trunk carpet.

Onboard Tools/Spare Tire



- Lift the pull strap to open the trunk carpet.
- The spare tire ① and vehicle tools ② are in the trunk storage compartment. => See page 238

i Tip

On some models, the vehicle tools are secured to the trunk carpet with Velcro.

4.4.8 Accessories and Modifications

When the vehicle leaves the factory, data labels and plates are affixed to vehicle components such as the fuel tank flap and front hood lock bracket. These labels and plates contain important data and information regarding vehicle use. Do not remove or damage the labels and plates. The data and information on them must always be clear and legible.

This company designs this vehicle using the latest safety technology to ensure its excellent active and passive safety. Therefore, to maintain the excellent characteristics of this vehicle, please consult a GAC Service Center before installing accessories or replacing parts.

It is recommended that you always use accessories and parts approved by this company. If non-company parts are installed, the company will not assume any quality warranty.

4. Operating Systems and Equipment

WARNING

Installing unsuitable accessories or modifying the vehicle may affect the vehicle's handling stability and other performance, and may lead to serious injuries or fatal accidents.

If you wish to install vehicle telephones, alarm systems, two-way radio communication equipment, and low-power audio systems, ensure that they do not interfere with the vehicle's electronic control systems, such as the Anti-lock Braking System (ABS).

Before installing any accessories, note the following:

1. Ensure that the accessories do not dim any vehicle lights or affect the vehicle's normal operation or performance.
2. On vehicles equipped with side curtain airbags, do not install accessories on the B-pillar or across the rear door windows. Installing accessories in these areas will impede the normal operation of the side curtain airbags.

Tip

When adding accessories (such as headrests, seat covers, floor mats, sunshades, etc.), inferior products may not comply with national VOC standards and may emit abnormal odors, affecting the air quality inside the vehicle. It is recommended to choose original high-quality accessories to ensure a comfortable driving environment.

Vehicle Modification

Removing vehicle components or replacing original components with non-GAC Trumpchi parts will seriously impair the vehicle's handling stability and reliability. For example, the following:

- Installing larger or smaller wheels and tires will interfere with the normal operation of the vehicle's Anti-lock Braking System (ABS) and other systems.
- Modifying the steering wheel and other safety features may cause system malfunction.

WARNING

Improper modification of this vehicle or installation of unsuitable accessories can easily lead to malfunctions and accidents. It is recommended to always use accessories and parts approved by this company, as the suitability, reliability, and safety of these accessories and parts have been strictly verified by this company.

 **WARNING**

- **Improper modification or repair of this vehicle may weaken the protective effect of the airbags, leading to system failure and fatal accidents. Accessories such as beverage holders or phone mounts must not be installed or attached to the cover of an airbag module or within its deployment zone.**
- **Improper operations or modifications to the vehicle (modifications to the engine, braking system, or components affecting wheel and tire performance) will affect the function of the airbag system, leading to serious injuries or fatal accidents.**
- **Do not install wheels and tires not approved by this company.**
- **Modifications to the front of the vehicle and the front compartment may weaken the vehicle's pedestrian protection performance and violate road traffic regulations.**

4. Operating Systems and Equipment

4.5 Air Conditioning System

4.5.1 General Instructions

The air conditioning filter can filter pollen and dust from the outside air entering the air conditioning system's intake.

The air conditioning filter must be cleaned and replaced regularly according to the "Scheduled Maintenance Table" in the Warranty and Maintenance Manual.

If the vehicle frequently operates in areas with poor air quality, the replacement interval for the air conditioning filter should be shortened. If the airflow from the air conditioning vents is not as smooth as usual, it may be due to a dirty or clogged air conditioning filter. The air conditioning filter should be cleaned or replaced as soon as possible.

WARNING

If the air inside the vehicle is cloudy, it can cause the driver to become fatigued, lethargic, and distracted, which can easily lead to accidents and casualties. The external air circulation mode should be used according to actual conditions.

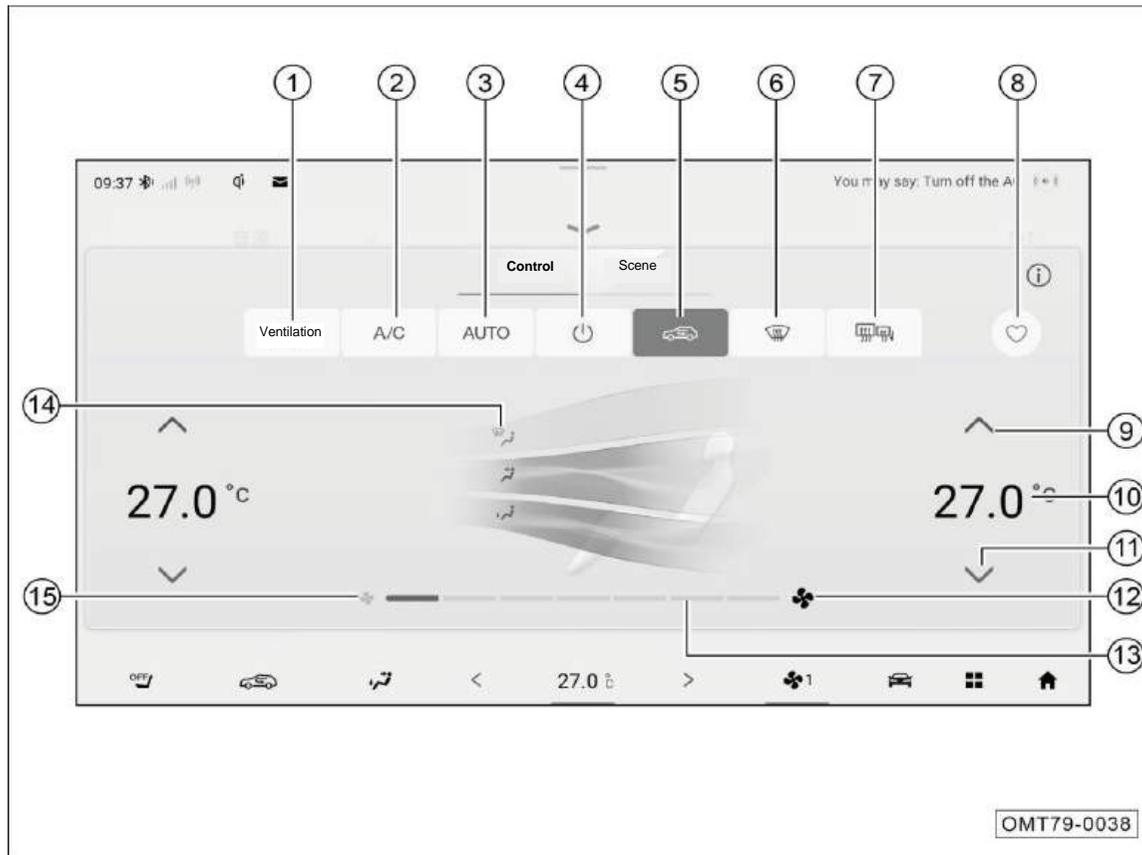
CAUTION

If the air conditioning system malfunctions (e.g., not cooling, foul odor from vents), please visit a GAC Service Center for inspection and repair.

Tip

- The air conditioning system can be operated when the vehicle's power is "ON."
- When the air conditioning is on, water may drip from the bottom of the vehicle. Prolonged parking with the air conditioning on can lead to water accumulation under the vehicle. This is normal.
- Regularly clear snow, ice, and leaves from the front windshield wiper cowl to prevent the air conditioning intake from becoming blocked and ensure normal air intake for the air conditioning system.
- The air conditioning system performs best when the windows are closed. However, after prolonged exposure to strong sunlight, when the interior temperature is high, you should first briefly open the windows to allow the hot air inside to dissipate before using the air conditioning for cooling.

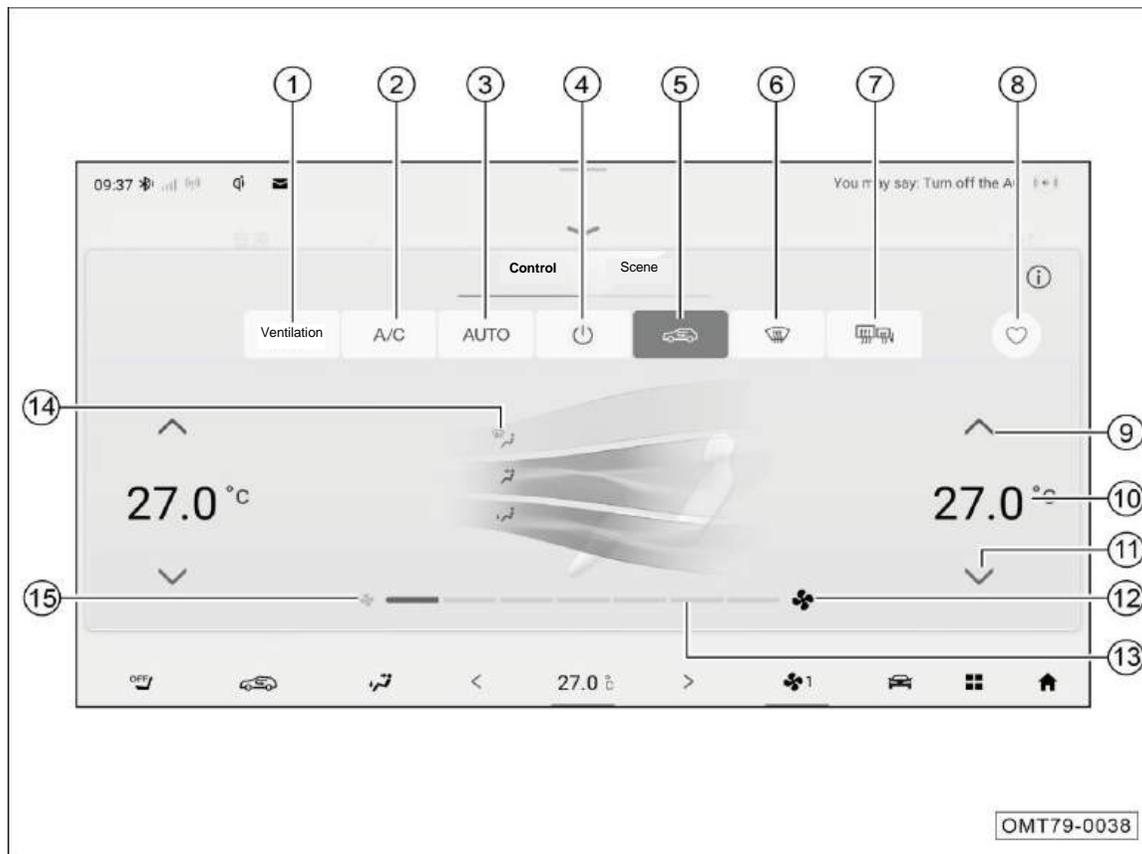
4.5.2 Air Conditioning System



Infotainment System A/C Interface Description*

- ① Ventilation On/Off Button
- ② A/C Air Conditioning Cooling Soft Button
- ③ AUTO Mode Soft Key
- ④ A/C On/Off Soft Key
- ⑤ Automatic Air Recirculation/Fresh Air Control Button
 - Air Recirculation Soft Key
 - Air External Circulation Soft Button
- ⑥ Front Windshield Defrost/Defog Soft Button
- ⑦ Rear Window and Exterior Mirror Defroster/Defogger Soft Key
- ⑧ Save Quick Scene Soft Key
- ⑨ Temperature Increase Soft Key
- ⑩ Temperature Display

4. Operating Systems and Equipment



Infotainment System A/C Interface Description* (Cont.)

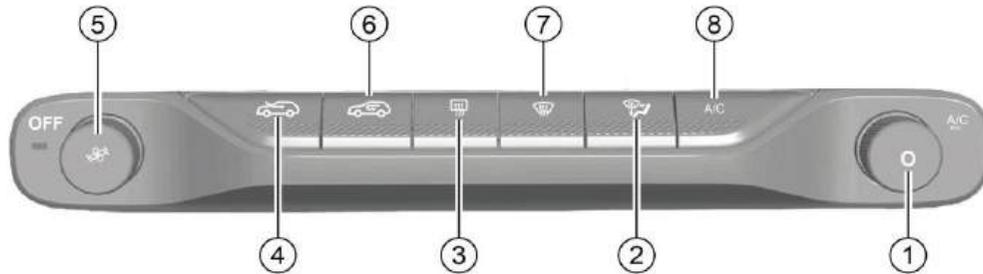
- ⑪ ▼ Temperature Decrease Soft Key
- ⑫ 🌀 Fan Speed Increase Soft Key
- ⑬ Fan Speed Level Display
- ⑭ 🌀 Open/Close Corresponding Front Air Vents
- ⑮ 🌀 Fan Speed Decrease Soft Key

i Tip

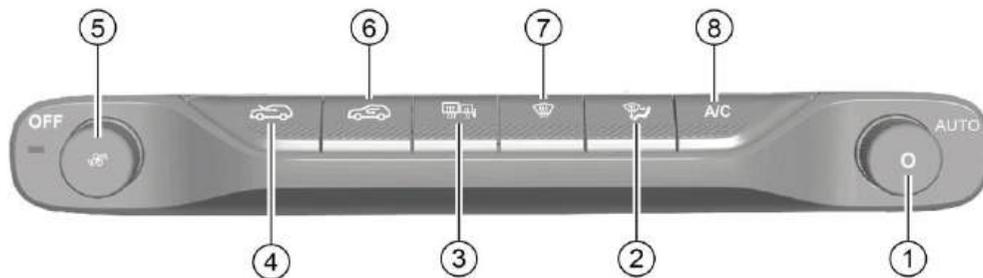
The illustration shows an AVNT head unit model as an example. It can be used as a reference for AV head unit models. Please refer to the actual vehicle.

4. Operating Systems and Equipment

Manual A/C System*



Automatic A/C System*



OMT79-0045

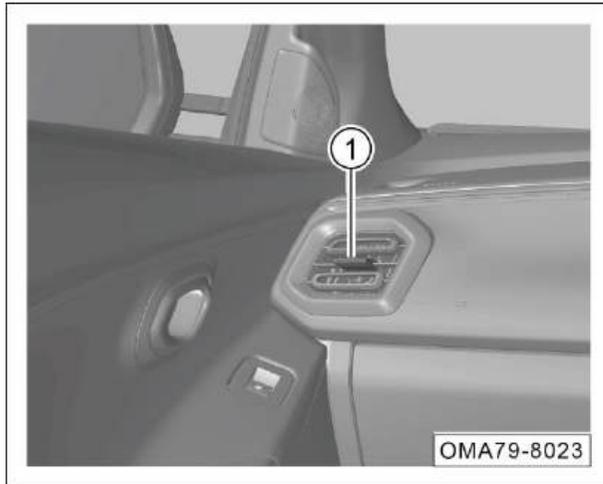
Manual A/C System*/Automatic A/C System* Button Operation Description

- ①  */  * MAX A/C Button or Temperature Adjustment Knob (Manual A/C)/AUTO Button or Temperature Adjustment Knob (Automatic A/C)
- ②  Air Distribution Mode Button
- ③  */  * Rear Window* Defroster/Defogger Button (Manual A/C)/Rear Window and Exterior Mirror* Defroster/Defogger Button (Automatic A/C)
- ④  Fresh Air Intake Button
- ⑤  Fan Speed Adjustment Knob/OFF Button
- ⑥  Air Recirculation Button
- ⑦  Front Windshield Defroster/Defogger Button
- ⑧ A/C Button

4. Operating Systems and Equipment

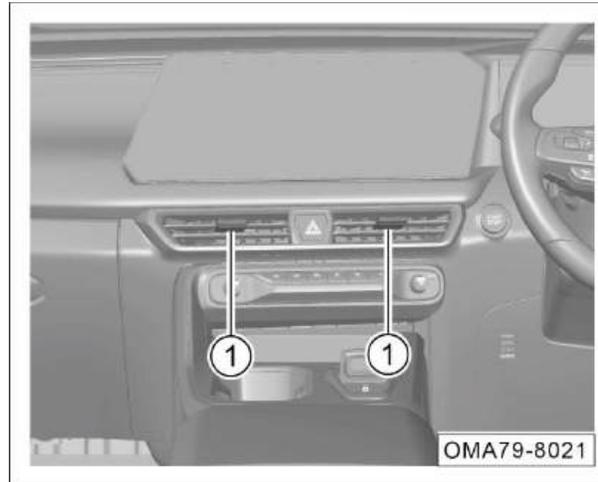
4.5.3 Air Conditioning Vents

Instrument Panel Side Vents



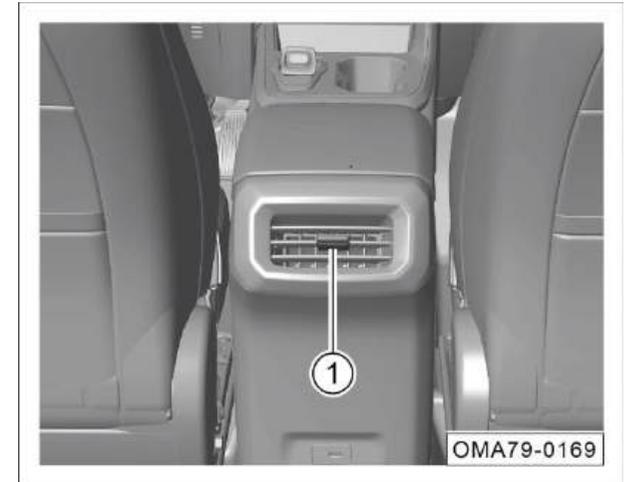
- Move the tab ① to adjust the airflow direction or close the vent.

Instrument Panel Center Vents



- Move the tab ① to adjust the airflow direction or close the vent.

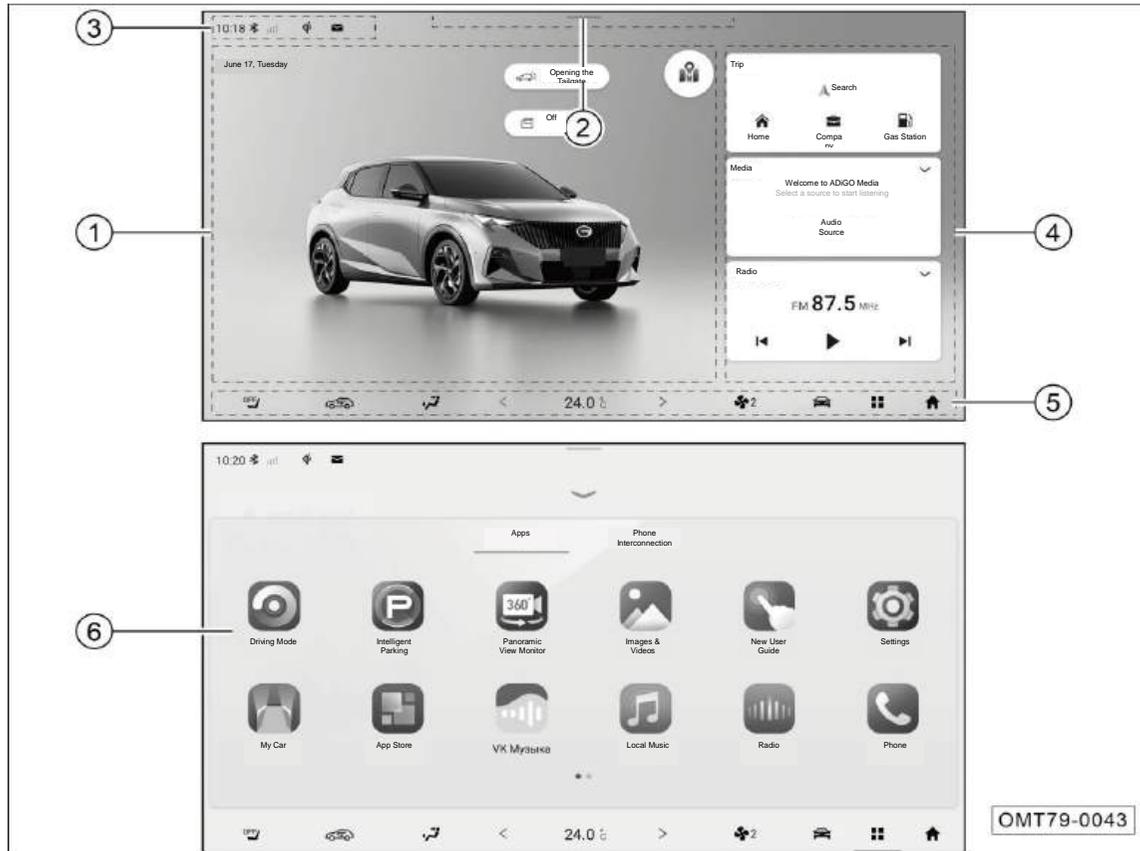
Rear Vents



- Move the tab ① to adjust the airflow direction or close the vent.

4.6 Audio System

4.6.1 Basic Operation

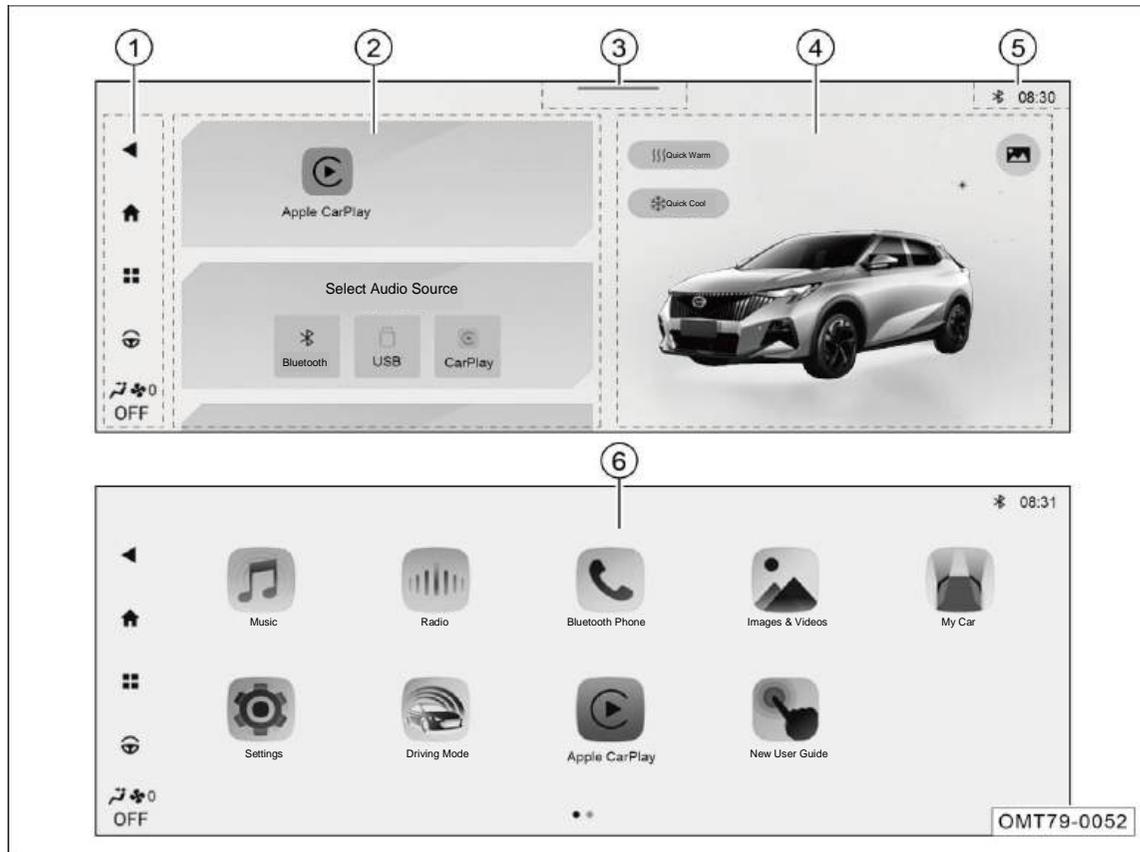


AVNT Head Unit* Main Interface Function Description

- ① Smart Scene Area
- ② Pull-down Menu Area
- ③ System Status Bar
- ④ Smart Card Area
- ⑤ Toolbar
- ⑥ Application Menu Interface

i Tip
 The image is for reference only. Please refer to the actual interface in the vehicle.

4. Operating Systems and Equipment



AV Head Unit* Main Interface Function Description

- ① Toolbar
- ② Smart Card Area
- ③ Drop-Down Menu Area
- ④ Smart Scene Area
- ⑤ System Status Bar
- ⑥ Application Menu Interface

i Tip

The image is for reference only. Please refer to the actual interface in the vehicle.

4. Operating Systems and Equipment

Drop-Down Menu Bar

On the infotainment system's main screen, swipe down from the top of the screen (drop-down area) to open the drop-down menu. You can tap  or swipe up to close the drop-down menu bar. If there is no activity on the drop-down menu screen, it will automatically close after a period of time.

Tapping a function button in the drop-down menu bar can enable/disable the corresponding function or enter its interface.

My Car

When the vehicle's power is "ON," tap the "3D Vehicle Model in the Smart Scene Area" on the infotainment system's main screen or "My Car" in the application menu to enter the "My Car" function interface.

You can adjust the "Open/Close Controls (Sunroof, Electric Sunshade, Windows, Tailgate)."

Voice Command* (AVNT Head Unit only)

After the infotainment system is turned on and operating normally, you can activate the voice command function in the following ways:

- Briefly press the  button on the right side of the steering wheel to wake up the voice assistant.
- Wake up the voice assistant by saying the wake word: "Hi, GAC."
- Tap the  soft key in the top-left corner (system status bar) of the infotainment system display to wake up the voice assistant.

Tip

The success rate of voice recognition may be affected by objective environmental factors, such as ambient noise, network signal conditions, and external factors like usage habits and pronunciation. The actual usage effect shall be subject to the real vehicle usage environment.

CarPlay

CarPlay allows you to use navigation, make calls, send and receive messages, and enjoy music while staying focused on driving.

Method 1:

- Connect your phone to the head unit's USB port with a USB cable. After a successful connection, the system will automatically switch to the CarPlay main interface, and the "Apple CarPlay" icon will be highlighted.
- When in other function interfaces, you can enter CarPlay phone connectivity by tapping the "Apple CarPlay" icon in the application menu.

Method 2:

- Method 1: Enable Bluetooth on your phone, then search for your phone device on the vehicle's Bluetooth connection interface. Tap on your phone device, and in the selection box interface after successful connection, choose CarPlay for wireless connection.

4. Operating Systems and Equipment

Returning to Vehicle System Operation:

- Tap the "GAC" icon on the CarPlay application menu interface to return to the vehicle system.
- Tap the "Apple CarPlay" icon on the audio system's application menu interface to re-enter CarPlay mobile connectivity.

Tip

- The functions and applications supported by CarPlay are subject to what is published on Apple's official website. According to information released by Apple in 2019, the Apple CarPlay function supports iPhone 5 and later models.
- When using CarPlay, ensure that the CarPlay function is enabled in iPhone Settings → General → Restrictions. Otherwise, the iPhone will only function as an iPod and will not be able to use Apple CarPlay.
- Please use the original iPhone data cable; otherwise, connection may fail.

Android Auto

This system allows mobile phone screen mirroring to the vehicle audio system, sharing phone calls, navigation, music, and other functions from the mobile phone.

When connecting an Android phone, both the phone and the vehicle audio system can control each other. After successful connection, you can use your phone to play music, play videos, navigate, and make calls. Actual operation depends on the phone's system.

Tip

- Android Auto currently supports Android 5.0 or higher Android phones.
- The Android Auto interface will update with App version updates; please refer to the actual version used for the specific interface.
- If an Android Auto mobile connection anomaly occurs, it is recommended to unplug and replug to restore it. Also, it is recommended to check if the connection cable is in good condition; if damaged, it is recommended to replace it with a new original connection cable.

Application Acquisition Method

- Method 1: If Android Auto APP is not installed on your phone, connect your phone to the audio system via a USB data cable. The connection interface will be displayed, and you can download the Android Auto APP via the link pushed to your phone by the system.
- Method 2: Search for and download the Android Auto application via a browser or mobile app store.

Connection Steps

Method 1: Wired Connection.

1. Install the Android Auto APP on your phone.
2. Connect your phone to the vehicle audio system using a USB cable.
3. Tap the Android Auto icon in the audio system menu bar. Then follow the audio system prompts to connect your phone.

Method 2: Wireless Connection.

1. Install the Android Auto APP on your phone.
2. When using a wireless connection, ensure that Bluetooth and Wi-Fi are enabled on both your phone and the vehicle.
3. Tap the "Android Auto" icon on the infotainment system's main screen to enter the device connection list. In the Android Auto device list, tap to connect to your device.

Exit Method

- For wired connections: Unplug the USB cable to exit the Android Auto system.
- For wireless connections: On the Android Auto main screen, tap the exit icon to exit the Android Auto system.

4.6.2 OTA Update*

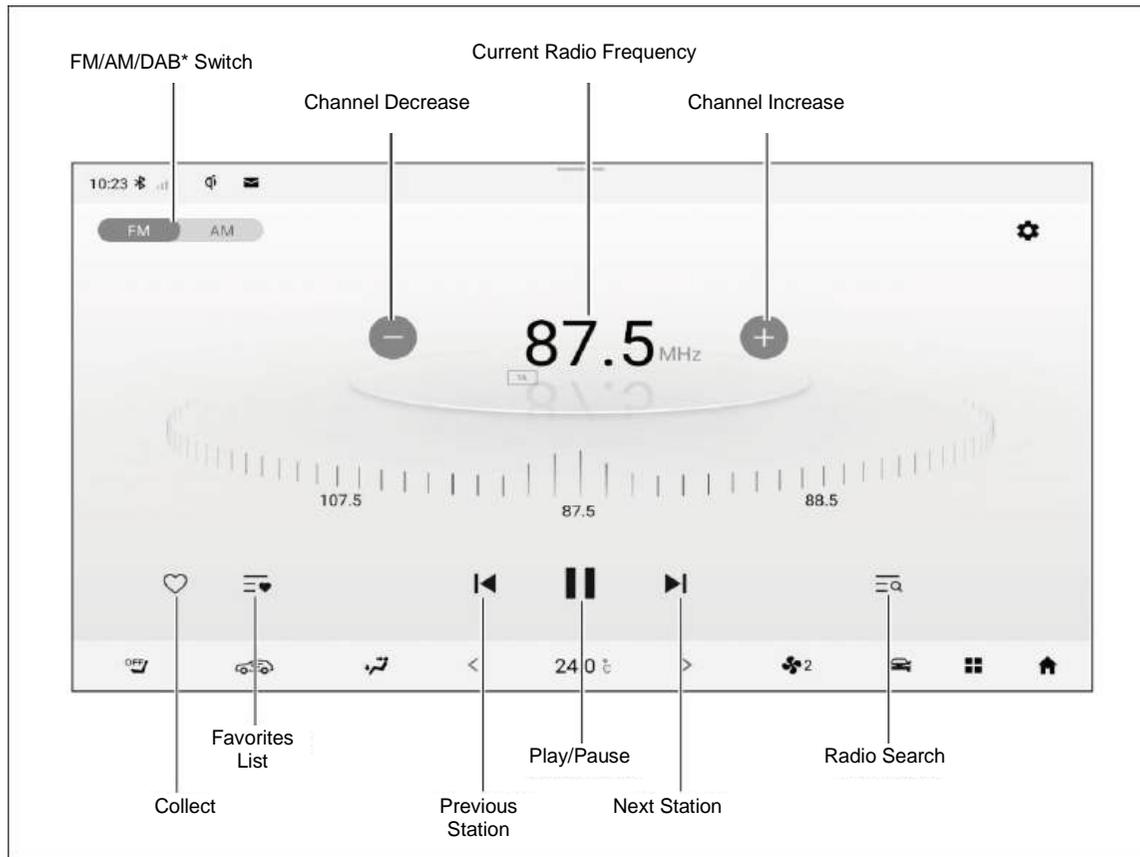
For vehicles equipped with the OTA (Over-The-Air) update function, after receiving an OTA update task, you can enter the settings interface via the infotainment system to start the system update. This will upgrade the vehicle's system software, keeping your vehicle's functions up-to-date. ◇ When there is an OTA software update, the vehicle will automatically receive the upgrade task after connecting to the network. Please ensure the vehicle is connected to the network. In addition, OTA upgrade tasks may be pushed in batches, please wait patiently.

Tip

- During the upgrade, please follow the instructions to perform the upgrade with the vehicle powered off, locked, and unoccupied.
- Please wait patiently during the update process. Vehicle functions will be temporarily unavailable at this time.
- For safety, it is recommended that no people or other living beings are in the car during the upgrade process.
- To ensure safety, do not attempt to drive the vehicle or disconnect the low-voltage battery during the update process.
- If you encounter any issues related to the update, please contact a GAC Service Center.

4. Operating Systems and Equipment

4.6.3 Radio



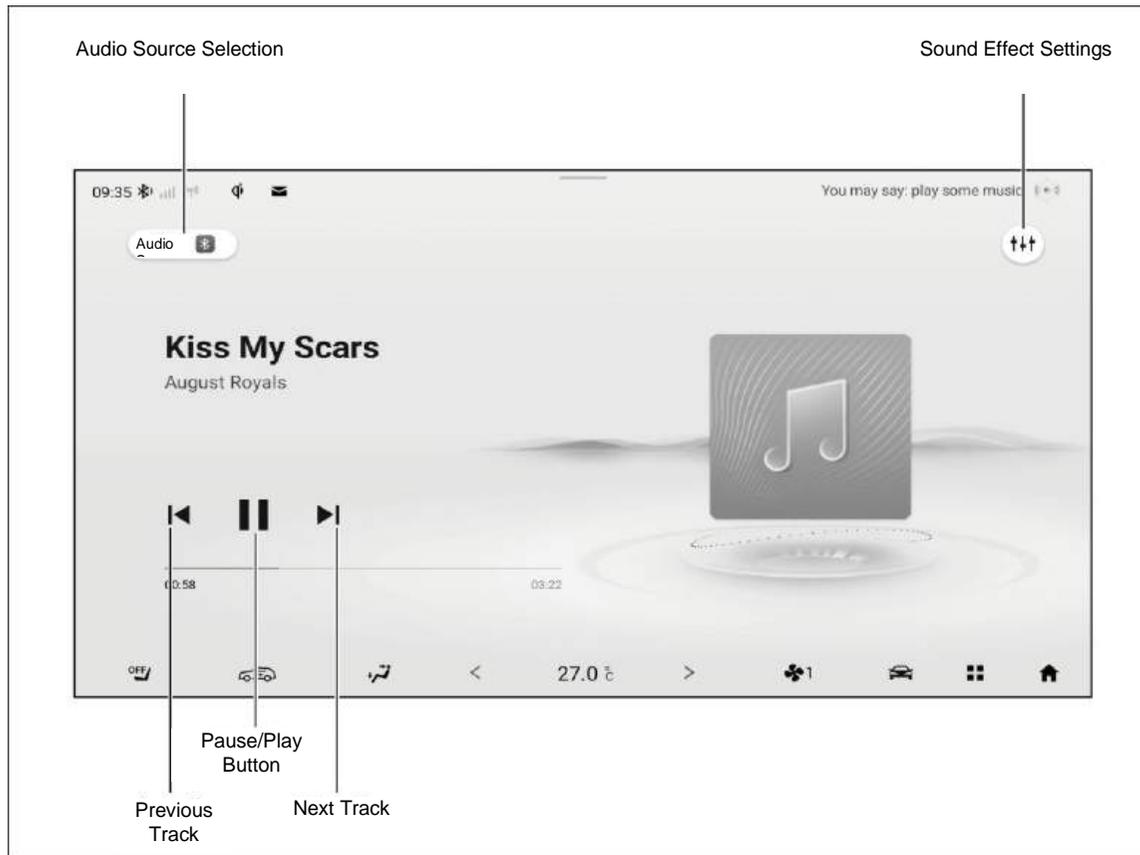
Enter the radio playback interface in the following ways:

- From the main interface, tap the "Radio" card to enter the radio playback interface.
- Briefly press the audio source switch button on the right side of the steering wheel repeatedly to switch to the radio playback interface.
- From the application menu interface, tap the "Radio" soft button to enter the radio playback interface.

i Tip

This interface shows an AVNT head unit model as an example. It can be used as a reference for AV head unit models. Please refer to the actual vehicle.

4.6.4 Music



You can access the local music playback interface in the following ways:

- Tap the music card on the main screen to enter the music interface.
- Briefly press the audio source switch button on the right side of the steering wheel repeatedly to switch to the music interface.
- Tap the "Music" soft button on the application menu interface to enter the music interface.

i Tip

- The infotainment system only supports USB devices formatted as FAT16/32, exFAT, or NTFS, and supports lossless music formats such as APE and FLAC.
- This interface shows an AVNT head unit model as an example. It can be used as a reference for AV head unit models. Please refer to the actual vehicle.

4. Operating Systems and Equipment

4.6.5 Bluetooth Function

AV Head Unit Bluetooth Mode

To enter Bluetooth mode:

- Enter the application menu and tap the "Phone" soft key to enter Bluetooth mode.
- Tap the "Bluetooth" card in the smart card area to enter Bluetooth mode.
- Tap the  icon in the infotainment system's status bar to enter Bluetooth mode.
- Press the  button on the right side of the steering wheel to enter Bluetooth mode.
- Enter Bluetooth mode through the drop-down menu area.
- Tap the soft key  in the status bar to enter Bluetooth mode.

If no Bluetooth device is connected, you can enter the Bluetooth settings interface in the following ways.

- After tapping the "Bluetooth Switch" soft  button to enable the Bluetooth function, the vehicle will automatically search for nearby Bluetooth devices. The Bluetooth connection interface has two display modes: "Radar" and "List." After finding the name of your Bluetooth device, tap it to pair and connect.
- After connecting via Bluetooth, the status bar icon  will be highlighted, and the name of the connected Bluetooth device will be displayed on the Bluetooth connection screen.

Radar Display Mode

- Bluetooth Devices: Displays the names of nearby connectable Bluetooth devices. Select the device you want to connect to and tap it to establish a Bluetooth connection.

List Display Mode

- Bluetooth Devices: Displays nearby connectable Bluetooth devices in a list format.

4. Operating Systems and Equipment

AVNT Head Unit Bluetooth Mode

To enter Bluetooth mode:

- Enter the application menu and tap the "Phone" soft key to enter Bluetooth mode.
- Tap the "Bluetooth Phone" card in the smart card area to enter Bluetooth mode.
- Tap the  icon in the infotainment system's status bar to enter Bluetooth mode.
- Press the  button on the right side of the steering wheel to enter Bluetooth mode.
- Tap the  soft key in the status bar to enter Bluetooth mode.

If no Bluetooth device is connected, you can enter the Bluetooth settings interface in the following ways.

- Tap the "Bluetooth Switch"  soft key to enable Bluetooth. The vehicle system will automatically search for nearby Bluetooth devices. After finding the name of your device, tap it to pair and connect.
- After connecting via Bluetooth, the status bar  icon will be highlighted, and the name of the connected Bluetooth device will be displayed on the Bluetooth connection screen.
- Tap the "Sync Phone"  soft key to sync phone numbers, contacts, and other information from your phone.
- Tap the "Sync Media"  soft key to sync media information, such as Bluetooth music playback.
- Tap the Bluetooth switch soft key  again to disconnect the Bluetooth connection.

Bluetooth Connection Faults

Possible Cause	Solution
Incorrect Bluetooth settings on the device	Set the device's Bluetooth to "Visible to all" or discoverable/open for detection.
The current device and the vehicle's Bluetooth system are not compatible.	Check the device's Bluetooth version for compatibility. Try again after upgrading the phone's operating system to the latest version.
Mobile phone Bluetooth has other device connection records	It is recommended to delete previously connected Bluetooth devices.

4. Operating Systems and Equipment

4.7 Remote Vehicle Control*

You can use a mobile app to remotely operate your vehicle, including functions like locking/unlocking the doors and turning on the air conditioning.

Remote Control

Remotely control the following vehicle functions through the mobile app:

- Basic vehicle controls: Locking/unlocking doors, opening/closing windows and the tailgate, flashing the lights, and sounding the horn.
- Vehicle status check: Including driving range, remaining fuel, etc.
- Remote preparation: Turning the air conditioning on or off, etc.
- Viewing vehicle location information.

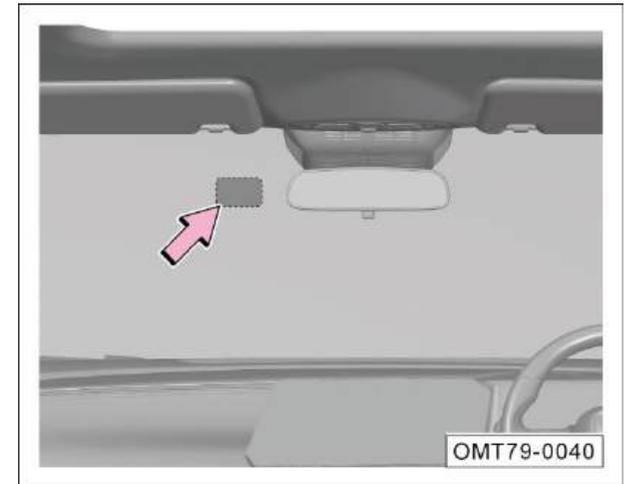
i Tip

- Using the remote start for air conditioning or other electronics for an extended period may consume a significant amount of battery power. Ensure enough power is reserved to avoid difficulty starting the vehicle.
- Remote control relies on a network signal. Operations may fail in areas with weak signals. It is recommended to use this feature in an environment with a good network signal.

⚠ WARNING

When remotely starting the air conditioning, do not leave children or pets unattended in the vehicle to avoid accidental locking or suffocation due to temperature control failure.

4.8 Microwave Window



- The microwave window is located on the front windshield glass to the right of the interior rearview mirror.

i Tip

The microwave window can be used for attaching electronic tags.

5.1 Starting and Driving

5.1.1 Ignition Switch



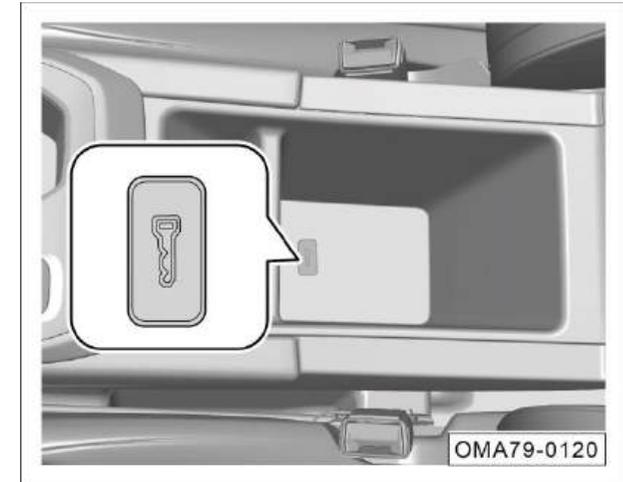
The ignition switch (START STOP button) can only be operated when the smart remote key is detected inside the vehicle.

When the gear shift lever is in the "P" position and the brake pedal is depressed, the Start/Stop button's backlight will turn green. Press the Start/Stop button to start the engine.

When the shift lever is in the "P" position and the brake pedal is not depressed, press the start switch to cycle through "OFF→ACC→ON→OFF" positions.

- OFF: The Start/Stop button's backlight is white, and the ignition is off.
- ACC: The Start/Stop button's backlight is orange, and accessories like the 12V power outlet are available for use.
- ON: The Start/Stop button's backlight is orange, the instrument cluster's background lights are on, and all electrical equipment is available for use.

Limp Home Mode



If the instrument cluster displays "Key Not Detected" due to a low battery in the smart remote key, you can place the key horizontally on the key symbol at the bottom of the front center console box. Then, press the Start/Stop button to switch to "ACC" or "ON" mode, or depress the brake pedal. Once the Start/Stop button's backlight turns green, press it to start the engine.

This starting method is a temporary emergency start; please replace the smart key battery as soon as possible.

5. Driving Guide

5.1.2 Starting the Engine

1. Carry the smart remote key into the vehicle.
2. Ensure the gear shift lever is in the "P" or "N" position.
3. Depress the brake pedal and ensure the Start/Stop button's backlight is green.
4. Press the Start/Stop button to start the engine.

Tip

If the engine is cold, allow it to idle to warm up before driving. At the same time, it is normal to hear some operational noise as the valve lifters take a few seconds to reach normal operating pressure.

CAUTION

- The engine starting time should not exceed 15 seconds. If the engine fails to start successfully, wait approximately 30 seconds before trying again.
- After starting, never press the accelerator pedal quickly to make the engine run at high speed or overload, otherwise it is very easy to damage the engine.
- If the engine will not start due to a depleted battery, you can try to jump-start it using jumper cables. => [See page 243](#)
- Do not start the engine by pushing or towing the vehicle.

WARNING

- **Do not run the engine for extended periods in poorly ventilated areas or enclosed spaces. Engine exhaust contains harmful gases that can cause unconsciousness or even suffocation.**
- **Do not let the engine idle unattended.**
- **Do not install starting assistance devices to start the engine. Otherwise, it may lead to high-speed engine operation or explosion accidents.**

5.1.3 Turning Off the Engine

1. Stop the vehicle and apply the parking brake.
2. Shift the gear lever to the "P" position.
3. Release the brake pedal, press the start switch to turn off the engine.

Tip

After the engine is turned off, the radiator fan may continue to run for some time.

Emergency Engine Shutdown

While the vehicle is moving, you can perform an emergency shutdown by pressing and holding the Start/Stop button or by pressing it three times in quick succession. The ignition will switch from "ON" to "ACC," and the engine will turn off. Park the vehicle in a safe location.

You can restart the engine a few seconds after an emergency shutdown. Follow these steps to restart the engine:

- Shift the gear lever to the "P" or "N" position, then press the Start/Stop button to start the vehicle.

WARNING

It is strictly forbidden to perform an emergency power off while the vehicle is driving normally, as this can lead to vehicle damage, loss of safety protection and power steering, and traffic accidents.

Parking Precautions

When parking, shift the gear lever to the "P" or "N" position and observe the following:

- Be aware of the vehicle's parking direction to avoid exhaust fumes harming plants in green belts.
- Try to park on a flat road to avoid parking on steep slopes.
- When parking on a slope, turn the front wheels towards the curb, regardless of whether the vehicle is facing uphill or downhill.
- Apply the parking brake, turn off the engine, all lights, and other electrical equipment.
- When leaving the vehicle, always take valuables and the vehicle keys with you, and ensure that all windows, doors, and the tailgate are closed.

WARNING

- **When leaving the vehicle, you must turn off the engine, apply the parking brake, and take the vehicle key with you.**
- **Never leave people inside the vehicle, as the enclosed space can easily lead to suffocation, unconsciousness, or even death.**
- **Never park the vehicle near flammable or explosive materials.**

5. Driving Guide

5.1.4 Gear Position Description



The gear shift lever has "P, R, N, D, S" positions. When the vehicle's power is "ON," the instrument cluster will display the corresponding gear information after you shift.

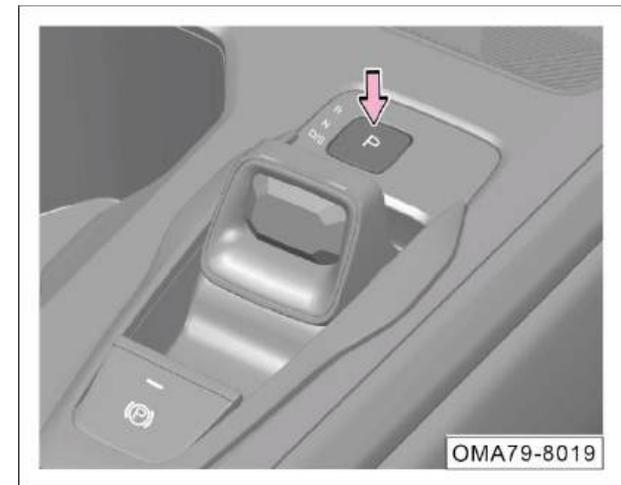
- When shifting from "D/S" to "R," push the gear shift lever forward. You will feel two points of resistance. The first point is the "N" position, and the second point is the "R" position.

- When shifting from "R" to "D," pull the gear shift lever backward. You will feel two points of resistance. The first point is the "N" position, and the second point is the "D" position.

WARNING

Only shift to "R" or "P" when the vehicle is completely stationary, otherwise the transmission may be damaged.

P: Park Gear



- After the vehicle comes to a complete stop, press this gear to engage parking.
- When parking for an extended period, depress the brake pedal, shift the gear lever to the "N" position, and pull up the "EPB" (Electronic Parking Brake) button. Release the brake pedal, and then press the "P" button.

Tip

- The current gear position is displayed on the instrument panel. Please pay attention to it.
- When the engine is not started, operating the shift lever will not allow entry into the desired forward gear "D" or reverse gear "R".
- If you cannot shift out of "P" due to a gear shift system malfunction, please contact a GAC Service Center for inspection and repair.

R: Reverse Gear

- Switch to this gear when reversing.
- Bring the vehicle to a complete stop. When the gear is in "P" or "N" or "D" position, step on the brake pedal and push the shift lever forward to switch to "R" gear.

N: Neutral Gear

- Shift to this gear for temporary stops.
- When in "P," depress the brake pedal and push the gear shift lever forward to the first point of resistance to shift to "N."
- When in "D/S," depress the brake pedal and push the gear shift lever forward to the first point of resistance to shift to "N."
- When in "R," depress the brake pedal and pull the gear shift lever backward to the first point of resistance to shift to "N."

WARNING

Never engage "N" gear for coasting while the vehicle is moving, as this can easily lead to accidents.

D: Drive Gear

- Switch to this gear for normal driving.
- Depress the brake pedal and pull the gear shift lever backward to shift into "D" from "P," "N," or "R."

S: Drive

- When in "D" (you must be in "D" before performing the following operation), pull the gear shift lever straight back to engage "S."
- You can repeatedly pull the gear shift lever backward to toggle between "D" and "S."

5. Driving Guide

Driving Mode

You can switch driving modes via the infotainment system:

- ECO Mode: Power response is slightly delayed in this mode for more economical fuel consumption.
- COMFORT Mode: Power response and fuel consumption are balanced in this mode.
- SPORT Mode: Power response is quick in this mode, and fuel consumption is higher.
- SPORT+ Mode:* Power is explosive in this mode with a roaring exhaust note, and fuel consumption is higher.

Driving Mode Selection

1. With the vehicle's power in the "ON" position, use the infotainment system's toolbar:
 - Tap the  soft key (AVNT head unit models) to enter the driving control panel, where you can view the current driving mode or select a different one.
 - Tap the  soft key (AV head unit models) to enter the driving control panel, where you can view the current driving mode or select a different one.
2. With the vehicle's power in the "ON" position, navigate to "Driving Mode" in the infotainment system's application menu to select and switch driving modes.
 - Set the parameters of the current driving mode via the audio system App Menu: "Driving Mode → Current Mode Settings."

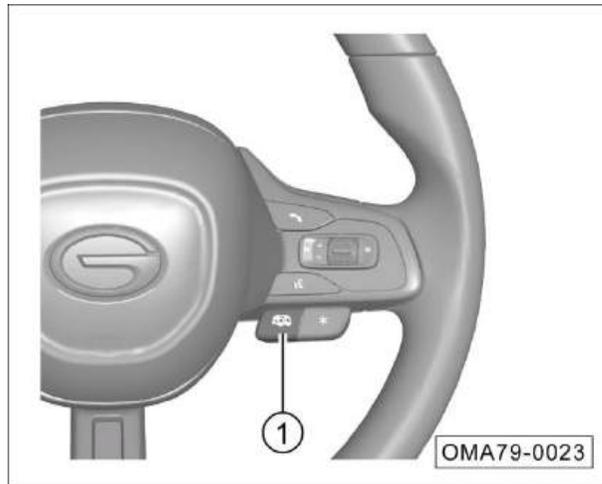
Tip

- The parameters for each driving mode can be reset to the factory default settings.
- To have the system remember the current driving mode, you need to enable the memory function through the infotainment system settings. The vehicle will then start in the last used driving mode.

5.1.5 Exhaust Sound*

The user can switch the exhaust mode via the interactive interface. The system controls the opening of the tuning valve based on engine speed, throttle position, and gear signals to achieve continuously adjustable exhaust acoustics and back pressure. When the exhaust sound valve is opened, you can hear a dynamic and pleasing exhaust note.

Enable and Disable



Method 1: Use the exhaust sound button ① on the right side of the steering wheel to turn the exhaust sound on or off based on the current driving mode.

Method 2: Navigate to "Driving Mode" in the infotainment system's application menu to turn the exhaust sound on or off based on the current driving mode.

Operation Method:

- When the vehicle is in ECO mode, the exhaust sound is off and cannot be turned on with the switch.
- When the vehicle is in COMFORT or SPORT mode, the exhaust sound will initially follow the on/off setting for that mode. You can use the exhaust sound switch to change the state, and the new state will be saved for the current driving mode.
- When the vehicle is in SPORT+ mode, the exhaust sound is on by default, but you can use the switch to turn it off.
- When the exhaust sound is on, the exhaust sound  icon will be displayed on the instrument panel. The  icon disappears when the exhaust sound is turned off.

CAUTION

- Please turn off the exhaust sound when driving in quiet zones (such as near schools, hospitals, etc.).
- During a cold start in low winter temperatures, you may hear a metallic "clanging" sound from the rear exhaust pipe. This sound will disappear after the engine warms up. This sound is caused by the exhaust sound valve actuating to clear any ice blockage. The sound will stop once the valve breaks through the ice or the ice melts as the engine warms up. This is a normal phenomenon; please use the vehicle with confidence. If the exhaust sound function continues to not work properly, please visit a GAC Service Center for inspection and repair as soon as possible.

5. Driving Guide

5.2 Braking System

5.2.1 Service Brake

Under certain driving conditions and weather, a squeak, screech, or other noise may be heard from the brakes the first time the brake pedal is pressed or lightly pressed, or occasionally during light to moderate braking, especially with new vehicles (brakes not broken in). This is normal and does not indicate a brake system malfunction or affect braking safety and performance.

CAUTION

- If you hear a sharp metal-on-metal grinding sound, the brake pads may be worn down to their limit. Please visit a GAC Service Center for inspection and repair as soon as possible.
- If the steering wheel vibrates or shudders continuously when braking, please visit a GAC Service Center for inspection and repair as soon as possible.

Tip

- Do not rest your foot on the brake pedal while driving. This can cause the brakes to overheat, lead to excessive wear of the brake pads and rotors, and increase your braking distance.
- Continuous use of the brakes will cause them to overheat, leading to a temporary loss of braking performance.
- Under normal driving conditions, brake dust from brake pad wear will accumulate on the wheels. Some dust on the wheels is unavoidable and does not affect braking performance.
- If the brake pads and rotors develop rust due to non-use or infrequent use, you may hear some noise when you first apply the brakes. This is normal. It is recommended to find a safe area and road conditions to perform several braking actions to clean the brake pads and rotors.

Brake Booster

The brake booster is used to increase the pressure applied by the driver on the brake pedal, but it only functions when the engine is running.

If the brake booster is not working properly due to a malfunction, or if the vehicle is being towed, you must apply greater force to the brake pedal to compensate for the lack of power assistance.

WARNING

- **Never turn off the engine and allow the vehicle to coast. Doing so is extremely dangerous and can easily cause an accident! Because the brake booster does not work at this time, the braking distance will be significantly extended.**
- **If the brake booster is not working (e.g., when the vehicle is being towed), you must apply much greater force to the brake pedal than you normally would to brake.**

Braking Performance and Braking Distance

Braking performance and braking distance are primarily affected by driving environment, road conditions, and driving style.

Worn brake pads cannot provide effective braking. The rate of brake pad wear primarily depends on vehicle usage conditions and driving style. If the vehicle is frequently driven in urban areas, for short distances, or used for racing, it is recommended to increase the frequency of brake pad thickness inspections within the maintenance intervals specified in the Warranty and Maintenance Manual.

After exposure to water, heavy rain, or car washing, brake pads may become damp or (in winter) freeze, leading to reduced braking performance. In this situation, you must lightly press the brake pedal to generate friction heat in the brakes, evaporating the moisture and restoring braking performance.

WARNING

New tires and new brake pads that have not been broken in do not have optimal adhesion and friction characteristics.

- **New tires do not yet have optimal grip. Therefore, you must drive cautiously for the first 500 km to prevent accidents!**
- **For the first 200 to 300 km, new brake pads will not yet have optimal friction characteristics, and braking performance will be slightly reduced. They must be broken in. You can compensate for the reduced braking effect by applying greater force to the brake pedal. New replacement brake pads must also be broken in.**
- **Do not follow other vehicles too closely or put yourself in situations that are likely to require emergency braking. Be especially cautious when driving with new, unbroken-in tires and brake pads. Avoid the situations described above to prevent accidents!**

WARNING

Braking may be delayed if the brakes are damp, frozen, or if the car has driven on salted roads, leading to an increased braking distance. Therefore, exercise extreme caution to prevent accidents.

- **An increased braking distance or a malfunctioning brake system will increase the risk of an accident.**
- **Lightly depress the brake pedal to check the brakes.**
- **Lightly depress the brake pedal to dry the brakes or to remove any ice or road salt.**

5. Driving Guide

WARNING

Overheated brakes will reduce braking performance and increase braking distance!

- Be careful to avoid overheating the brakes.
- Driving downhill puts a greater load on the brakes, making them more susceptible to overheating.
- Do not continuously apply the brake pedal, as this will cause the brakes to overheat and increase the braking distance. You should apply the brakes intermittently according to road and traffic conditions.

WARNING

- The brake fluid must be replaced every two years. If brake fluid remains in the brake system for too long, vapor lock can occur during braking. This will severely degrade braking performance, reduce driving safety, and could even lead to brake system failure, which can easily cause an accident!
- Installing a non-standard front spoiler or driving with a damaged spoiler will obstruct the flow of cooling air to the brakes, causing them to overheat and degrading braking performance.

5.2.2 Electronic Parking Brake System (EPB)

The driver can apply or release the parking brake by operating the Electronic Parking Brake (EPB) system button. On slopes, the hill start assist function can be used. When the parking brake is applied and the accelerator pedal is pressed, the electronic parking brake will automatically release, providing convenient driving assistance for the driver.

Tip

- The EPB selects different clamping force strategies for different slopes. The EPB can hold a vehicle on a 30% slope. If parking on a slope greater than 30%, there is a risk of rolling. If the vehicle rolls, the EPB will re-clamp the brake, which is normal.
- If, after engaging the EPB on a slope of less than 30%, the vehicle rolls slightly, re-engages, and then continues to roll, please apply the service brake, move the vehicle to level ground, and stop. It is recommended to visit a GAC Service Center for inspection and repair promptly.

Applying Static Parking Brake:

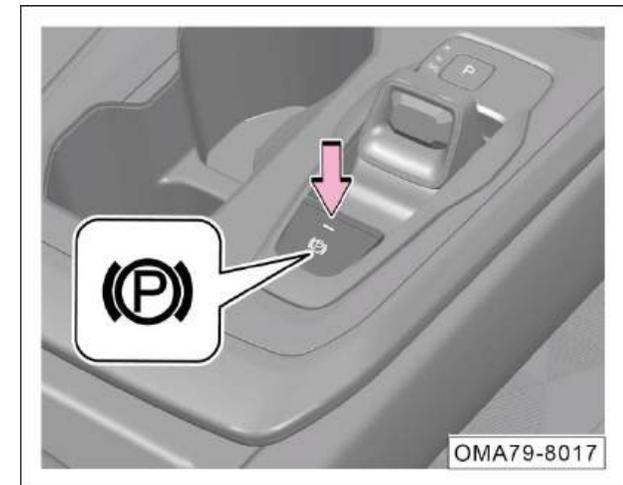
- When the vehicle is stationary, pull up the EPB button in the direction of the -arrow- or press the P button. The button's indicator light (P) and the indicator light on the instrument cluster will illuminate, indicating that the electronic parking brake has been applied.
- When the shift lever is moved from a non-"P" position to "P" position, the electronic parking brake will be automatically applied.

Tip

- The electronic parking brake can also be applied when the vehicle power is in the "OFF" position.
- After the vehicle has stopped completely, the electronic parking brake should be applied first.
- When applying the electronic parking brake, an operating noise will be produced, which is normal.
- If towing a trailer or parking on a steep slope, you can pull up the EPB button a second time after the initial application to ensure maximum braking force.
- On a slope between 17% and 30%, the EPB will re-apply the brakes 5 minutes after the initial application. You may hear an operational noise at this time; this is normal.
- The electronic parking brake must be applied when parking.

WARNING

Do not use the electronic parking brake to slow the vehicle down while driving unless absolutely necessary. The parking brake applies braking force only to the rear wheels, which can easily lead to an accident.

Releasing Static Parking Brake:

- When the vehicle's power is "ON" and the gear is not in "P," depress the brake pedal and press the EPB button. The button's indicator light and the indicator light (P) on the instrument panel will go out, indicating that the electronic parking brake has been released.

5. Driving Guide

- When the vehicle's power is "ON," the driver's door is closed, the seat belt is fastened, and the gear is in D or R, pressing the accelerator pedal will automatically release the EPB. The indicator light (P) on the instrument panel will go out, indicating that the electronic parking brake has been released.
- When the vehicle's power is "ON," the driver's door is closed, and the seat belt is fastened, shifting from P to a non-P gear will automatically release the EPB. The EPB status indicator on the instrument panel will go out, indicating that the electronic parking brake has been released.

Tip

- If you press the EPB button without depressing the brake pedal, the parking brake will not release, and a warning message will appear on the instrument cluster accompanied by a buzzer.
- When releasing the electronic parking brake, an operating noise will be produced, which is normal.
- If the vehicle's battery is low, the system may be unable to release the electronic parking brake. If possible, jump-start the vehicle and then release the parking brake. Please contact a GAC Service Center for inspection and repair.
- If the electronic parking brake has not been used for a long time, the system will automatically perform a self-check, and an operating noise may be heard.
- Press and hold the EPB button while pressing the Start/Stop button to turn off the vehicle's power. This enables the "OFF" mode towing function.

Applying Dynamic Emergency Braking



- If the service brake fails while the vehicle is moving, you can try continuously pulling up the EPB electronic parking brake button. Releasing the EPB electronic parking brake button or pressing the accelerator pedal will exit the emergency braking system.

i Tip

- If you pull up the EPB button while the vehicle is moving, a warning message will appear on the instrument cluster display, accompanied by a buzzer.
- During deceleration, releasing the EPB switch or pressing the accelerator pedal will release the parking brake. If you continuously pull and hold the EPB button until the vehicle comes to a stop, the parking brake will remain engaged.

CAUTION

Do not use dynamic emergency braking unnecessarily, as it can easily lead to traffic accidents, results in a longer braking distance compared to applying the brake pedal, and shortens the service life of the parking brake system.

CAUTION

If the following occurs, try operating the EPB again. If the problem persists, please visit a GAC Service Center for inspection and repair.

- If the indicator light  flashes red continuously, it indicates that the electronic parking brake is partially engaged/disengaged or that there is a system malfunction.
- If the indicator light  is red when the electronic parking brake is not applied, it indicates a system abnormality.
- If the indicator light  is yellow, it indicates that an electronic system fault has been detected and the EPB's performance is reduced.

Auto Hold

Enable and Disable

Applicable to AVNT Head Unit Models

- With the engine running, the driver's door closed, the driver's seat belt fastened, and the vehicle either in "P" or in another gear with the brake pedal depressed, you can enable/disable the Auto Hold function via the infotainment system "Settings." The  (green) indicator light on the instrument cluster will illuminate, indicating that the Auto Hold function is on. Tapping the soft key again will turn off the  (green) indicator on the instrument cluster, disabling the Auto Hold function.

5. Driving Guide

Applicable to AV Head Unit Models

- With the engine running, the driver's door closed, the driver's seat belt fastened, and the vehicle either in "P" or in another gear with the brake pedal depressed, tap the toolbar  on the infotainment system to enter the driving control panel. Tap the "AUTO HOLD" soft key to enable/disable the Auto Hold function. The  (green) indicator light on the instrument cluster will illuminate, indicating that the Auto Hold function is on. Tapping the soft key again will turn off the  (green) indicator on the instrument cluster, disabling the Auto Hold function.

Activation

When this function is enabled, it supports automatic holding and releasing of the brakes in stop-and-go traffic. When the driver brakes the vehicle to a stop, it will hold the brakes automatically, preventing the vehicle from rolling back when starting off.

Exit

Auto Hold will be disengaged in the following situations, and the parking brake will not be locked:

1. Pressing the accelerator pedal to start moving.
2. The engine stalls while the vehicle is moving.
3. Manually releasing the electronic parking brake.
4. Tapping the Auto Hold button while depressing the brake pedal.

For safety, if one or more of the following situations occur, the activated Auto Hold function will be disabled and the parking brake will be locked:

1. The vehicle's power is turned off.
2. The driver's door is opened or the seat belt is unfastened while the vehicle is stopped.
3. The Auto Hold button is tapped to disable the function.

CAUTION

When entering a car wash or any other facility that uses a conveyor belt to move the vehicle, you must disable the Auto Hold function. Otherwise, the vehicle may not move or may be pulled off course.

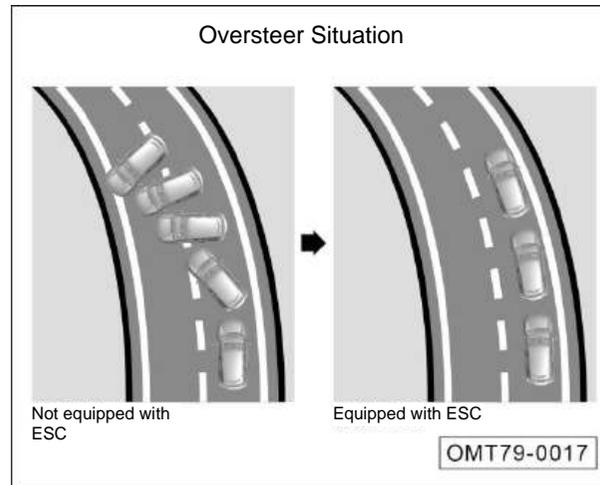
5.3 Vehicle Electronic Braking System

5.3.1 Electronic Stability Control (ESC)

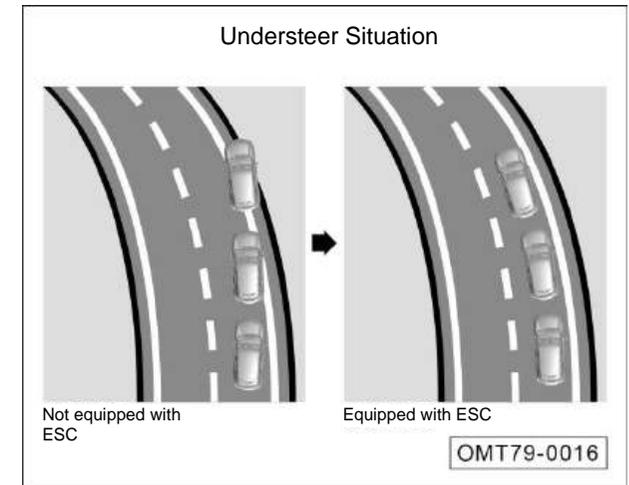
The Electronic Stability Control (ESC) system can effectively reduce the risk of vehicle skidding.

The ESC system determines the driver's driving intention based on information such as steering wheel angle and vehicle speed, and continuously compares it with the vehicle's actual driving status. If the vehicle deviates from its normal driving path (e.g., the vehicle skids), ESC corrects it by applying braking force to the relevant wheels.

ESC restores the vehicle to a stable driving state through the torsional force generated by braking.



- If the vehicle tends to oversteer (i.e., fishtail), the system primarily applies braking to the front wheel on the outside of the curve.



- If the vehicle tends to understeer (i.e., turning radius is too large), the system primarily applies braking to the rear wheel on the inside of the curve.
- When a vehicle not equipped with ESC skids off its normal driving path, a vehicle equipped with ESC can correct the braking force based on the amount of skid, preventing deviation from the path.

5. Driving Guide

Enable and Disable

ESC is enabled by default when the vehicle is in motion.

1. Location of the "ESC OFF" soft key (AVNT head unit models)/"Stability Control System" soft key (AV head unit models):
 - On the infotainment system's main screen, tap the toolbar soft key  to enter the driving control panel (AVNT head unit models).
 - In the drop-down menu area of the infotainment system's main screen (AV head unit models).
2. Turning off TCS (Traction Control System)
 - Tap the "ESC OFF" soft key (AVNT head unit models)/"Stability Control System" soft key (AV head unit models). The instrument cluster will display the warning message "TCS OFF  OFF," and the yellow indicator light  OFF will illuminate.
3. Turning off ESC (Electronic Stability Control)
 - Tap the "ESC OFF" soft key (AVNT head unit models)/"Stability Control System" soft key (AV head unit models) again. The instrument cluster will display the warning message "ESC OFF  OFF," and the yellow indicator light  OFF will illuminate.

The ESC system is only active when the vehicle is in motion. For driving safety, you should keep the ESC system turned on. In the following special circumstances, the ESC function can be disabled:

- When the vehicle is driving with anti-skid chains.
- When driving on deep snow or loose surfaces.
- When stuck in muddy roads or similar surfaces and needing to move back and forth.

WARNING

- **Always adjust your speed according to climate, road, and traffic conditions. Do not take risks by relying on the extra safety features provided by the system; be careful to prevent accidents.**
- **ESC cannot exceed the physical limits of road adhesion. Exercise particular caution when driving on slippery roads or towing a trailer.**
- **Drivers must constantly adjust their driving style according to road and traffic conditions.**
- **ESC cannot reduce accidents that may be caused by improper driving styles such as excessive speed or being too close to the vehicle in front.**

CAUTION

Improper work on or modifications to the vehicle (such as: modifications to the braking system, wheels, or tires) can affect the functionality of the ESC system.

Traction Control System (TCS)

The TCS (Traction Control System) is an anti-slip control system that determines if the drive wheels are slipping by comparing their rotational speed to that of the non-drive wheels. When the former is greater than the latter, it suppresses the speed of the drive wheels. When a vehicle brakes on a slippery surface, the wheels may slip, leading to loss of directional control. Similarly, when a vehicle starts or accelerates rapidly, the drive wheels may also slip, and on slippery surfaces such as ice and snow, this can lead to loss of directional control and danger. The function of the Traction Control System is to automatically control the driving force during vehicle acceleration to keep the wheel slip within a reasonable range, thereby maintaining the vehicle's driving stability.

5.3.2 Anti-lock Braking System (ABS)

The Anti-lock Braking System (ABS) is an active safety device. When a vehicle brakes, if the front wheels lock up, the vehicle loses steering capability. The driver will be unable to perform the necessary steering maneuvers to avoid obstacles or pedestrians during braking or while cornering. If the rear wheels lock up, the vehicle's braking stability will be compromised. Even a small lateral force (such as a crosswind) can cause the vehicle to fishtail or even spin out, creating a dangerous situation. In addition, when wheels lock up, severe localized friction with the tires can significantly shorten tire life.

The Anti-lock Braking System (ABS) installed on the vehicle adds an electronic control unit to the conventional braking system. Its function is to automatically modulate the braking force on the wheels during braking to prevent them from locking up, thereby achieving optimal braking performance and significantly improving driving safety.

Advantages of ABS System

- Effectively prevents vehicle skidding and fishtailing during emergency braking, providing good driving stability.
- Allows steering during emergency braking, providing good steering control.
- Avoids severe friction between tires and the ground, reducing tire wear.
- The ABS system consists of an electronically controlled system to prevent wheel lock-up and a conventional braking system. The anti-lock electronic control system is composed of sensors, a controller, and actuators.

ABS Anti-lock Braking System Self-Diagnosis

- The ABS electronic controller has self-diagnostic and fail-safe functions. When the vehicle's power is turned to "ON," the system performs a self-check. If the system is not operating normally, the ABS indicator light  will remain on, the ABS function will be disabled, and the vehicle will revert to conventional braking. It is recommended to visit a GAC Service Center for inspection and repair as soon as possible.

5. Driving Guide

CAUTION

- Improper operations or modifications to the vehicle (e.g., modifications to components of the brake system, or wheel and tire performance) will affect ABS function.
- Tires must be of the specified size. If tire sizes are incorrect or inconsistent across all tires, ABS will not work effectively.

WARNING

Always adjust your speed according to climate, road, and traffic conditions. Do not take risks by relying on the extra safety features provided by the system; be careful to prevent accidents.

Electronic Brakeforce Distribution (EBD)

The Electronic Brakeforce Distribution System (EBD) is part of ABS. EBD balances the braking force distribution between the front and rear wheels based on the vehicle's load during conventional braking.

Hydraulic Brake Assist System (HBA)

The HBA hydraulic brake assist system can help the driver brake in an emergency. It judges whether full braking is required based on how quickly the driver presses the brake pedal. As long as the driver presses the pedal all the way down, the system automatically increases the braking force up to the activation threshold of the Anti-lock Braking System (ABS). If the driver relaxes the brake pedal, the system reduces the braking force to the specified value.

WARNING

The Hydraulic Brake Assist system can improve your driving safety, but it cannot override the laws of kinematics. Please adjust your driving speed according to road conditions and traffic regulations.

5.3.3 Hill Hold Control System (HHC)

The Hill-start Hold Control (HHC) system allows the driver to easily move their foot from the brake pedal to the accelerator pedal when starting on a slope without using the parking brake, preventing the vehicle from rolling back and causing an accident.

System Operating Conditions

1. On a slope greater than 4%, with the gear not in "P" or "N" and the electronic parking brake not applied, when the driver depresses the brake pedal to bring the vehicle to a complete stop, the HHC function will activate if the driver releases the brake pedal. It will apply brake pressure to the vehicle, holding it for 1 second.
2. While HHC is active, the brake pressure will be released once the engine torque exceeds the vehicle's rolling resistance, allowing for a smooth start.

3. The HHC function will also work when facing downhill in "R" gear.
 - HHC automatically applies the brakes when starting on a steep slope or when reversing downhill to prevent the vehicle from rolling.
 - HHC is integrated into the ESC system. If HHC malfunctions, the ESC indicator light will illuminate, and a graphic and text message will be displayed on the instrument cluster screen.

5.3.4 Hill Descent Control System (HDC)

The Hill Descent Control (HDC) system is a subsystem of ESC. During a descent, if the driver is not pressing the brake pedal, HDC actively applies braking force through ESC to achieve controlled downhill speed.

Enable and Disable

- With the vehicle's power in the "ON" position, tap the toolbar soft  key on the infotainment system to enter the driving control panel. When the vehicle speed is below 35 km/h, tap the "Hill Descent Control" soft key to activate the HDC function. The indicator light  on the instrument cluster will illuminate, and the brake lights will turn on when HDC is active.
- Tapping the button again will deactivate HDC, and the indicator light  on the instrument cluster will go out.

After activating HDC, when driving downhill without the driver applying the brake pedal, the vehicle will travel at a minimum speed of 8 km/h and maintain this speed.

The driver can adjust the vehicle speed by pressing the accelerator or brake pedal:

- If the driver releases the pedal when the vehicle speed is between 8 and 35 km/h, the HDC function will re-engage and maintain the current speed for the descent.
- HDC automatically turns off when the vehicle speed exceeds 60km/h.
- If excessive wheel slip occurs while HDC control is active, ESC will automatically intervene.

5. Driving Guide

Tip

- If HDC malfunctions, the function will be disabled, a warning message will appear on the instrument cluster, and an audible alarm will sound for several seconds. In this case, HDC will not function correctly. The driver should use the brake pedal to slow down on steep descents and visit a GAC Service Center for inspection and repair as soon as possible.
- In certain special environments, HDC may enter thermal protection mode due to excessive brake temperature. For example, when the ambient temperature is high and the system is used for a long time, the brake system's temperature continuously increases due to friction. When it reaches the limit value, the HDC function will enter thermal protection mode: the function is activated but not effective, HDC will temporarily lose its effect, and the vehicle will show signs of acceleration. Once the brake system temperature drops to an effective working temperature, HDC will resume its function.

5.4 Driving Assistance Systems

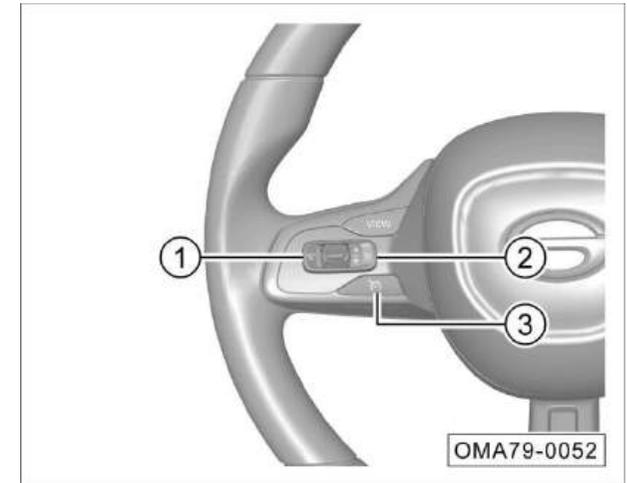
5.4.1 Cruise Control System*

The cruise control system can be set at speeds between 40 and 120 km/h. Once a speed is set and stored, the driver does not need to press the accelerator pedal, and the vehicle will travel at the set speed.

WARNING

- **Do not use the cruise control system in heavy traffic, on hilly or winding roads, or on slippery surfaces to prevent accidents.**
- **Use the cruise control system with caution. After setting a speed, ensure you can maintain a safe distance from the vehicle ahead.**
- **Turn off the cruise control system promptly after deactivating it.**
- **Cruise control is only a driver assistance feature and not a substitute for autonomous driving. The driver must remain alert and in control of the vehicle at all times.**

Operation Buttons



- ① SET/-: Set Cruise/Decrease Speed
- ② RES/+: Resume Cruise/Increase Speed
- ③  : Cruise control main switch, turns the function on/off

Activating Cruise Control

- Press the cruise control main  switch to turn on the system. The indicator light  on the instrument cluster will illuminate in white.
- Increase the vehicle speed to above 40 km/h.
- Briefly press the SET/- button. The indicator light  on the instrument cluster will turn green, the vehicle will enter cruise control mode, and you can release the accelerator pedal.

Deactivating Cruise Control

The following actions will deactivate cruise control:

- Depressing the brake pedal (deactivates cruise control but retains the set speed in memory).
- Pressing the cruise control main switch  (deactivates cruise control and deletes the set speed).
- Shifting the gear to "N."
- The engine speed goes out of range (above 6500 rpm or below 800 rpm), or the vehicle speed goes out of range (above 120 km/h or below 35 km/h).
- Malfunction of the ESP, engine, or airbags.

Resuming Cruise Control

When cruise control is deactivated by depressing the brake pedal or briefly pressing the  button, the indicator light  on the instrument cluster will turn white. You can resume by briefly pressing the RES/+ button:

- When the vehicle speed is above 40 km/h, briefly press the RES/+ button. The indicator light  on the instrument cluster will change from white to green, and the vehicle will resume the previously set cruise speed.

Increasing Cruising Speed

- Briefly press the RES/+ button. Each press increases the speed by 2 km/h.
- Press and hold the RES/+ button. The speed will increase continuously until the button is released.

 Tip
<ul style="list-style-type: none"> • The maximum settable cruise speed is 120 km/h. If the vehicle speed is above 120 km/h, it cannot be adjusted using the RES/+ button. • If you press the accelerator pedal to accelerate, the vehicle will temporarily override cruise control and travel at the accelerated speed. When you release the accelerator pedal, the vehicle will resume the set cruise speed.

Decreasing Cruising Speed

- Briefly press the SET/- button. Each press decreases the speed by 2 km/h.
- Press and hold the SET/- button. The speed will decrease continuously until the button is released.

 Tip
When the vehicle speed is below 40 km/h, it can no longer be adjusted using the SET/- button.

5. Driving Guide

5.4.2 Adaptive Cruise Control System

The Adaptive Cruise Control system, abbreviated as ACC, automatically adjusts the following distance to the vehicle ahead during cruising.

ACC detects the relative distance and speed between the vehicle ahead and the current vehicle on the same path using a millimeter-wave radar installed at the front of the vehicle and a smart forward-looking camera on the front windshield:

- When there is a vehicle ahead, if the vehicle ahead stops, ACC controls the current vehicle to automatically stop following the vehicle ahead; if the vehicle ahead starts, ACC controls the current vehicle to automatically start driving again within a short period. After following and stopping for a period, you can achieve follow-up driving by operating  button or the accelerator pedal.
- When there is a vehicle ahead and its speed is lower than the target speed set by the driver, ACC controls the current vehicle to maintain a safe distance and follow the vehicle ahead.
- When there is no vehicle ahead, ACC controls the current vehicle to drive at a constant speed set by the driver.

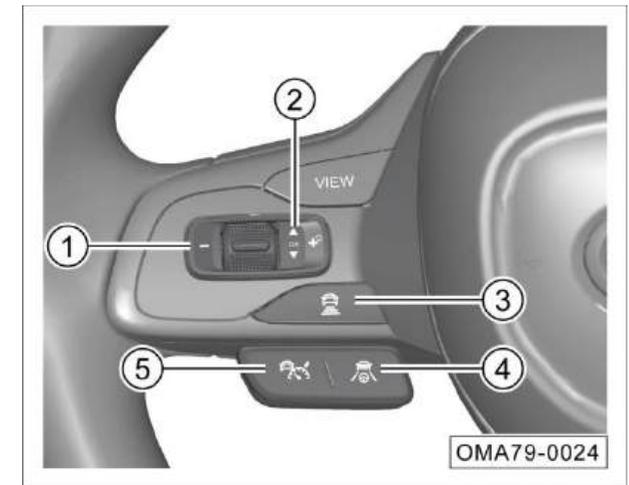
Tip

Precautions for using radar and smart forward camera sensors. => See page 168

WARNING

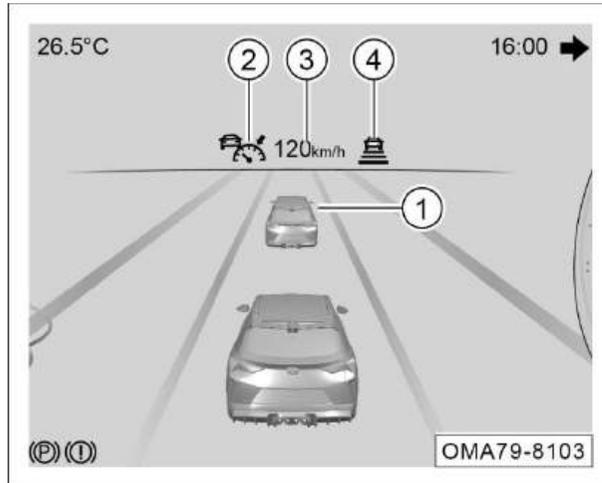
- **ACC is not a safety system, obstacle detector, collision warning, or anti-collision system. It is a comfort system. The driver must always maintain control of the vehicle and is solely responsible for the vehicle.**
- **Always use the ACC system cautiously, considering visibility, weather, road, and traffic conditions. The driver must always maintain control of the vehicle and is solely responsible for the vehicle's speed and the distance to other vehicles.**
- **The ACC system cannot replace the driver's attention and judgment. The driver is always responsible for ensuring the vehicle travels safely at an appropriate speed and maintains an appropriate distance from other vehicles.**

Operation Buttons



- ①  : Decelerate Button
- ②  : Resume/Sync/Accelerate Button
- ③  : Adjust time gap
- ④  : Enable/Disable ICA/Switch to ICA
- ⑤  : Enable/Disable ACC/Switch to ACC

Interface Description



① Indicates detected vehicle ahead.

② Adaptive Cruise Indicator Light:

- Blue adaptive cruise indicator light  on means ACC is working, and there is a target vehicle ahead. A gray Adaptive Cruise Control indicator light  indicates that ACC is in standby mode and a target vehicle is detected ahead.
- Blue adaptive cruise indicator light  on means ACC is working, and there is no target vehicle ahead. Grey adaptive cruise indicator light  on means ACC is in standby, and there is no target vehicle ahead.

- A yellow light  indicates an ACC malfunction. You should visit a GAC Service Center for inspection and repair promptly.

③ Indicates the last set cruise speed.

④ Set cruise time gap to the vehicle ahead.

When ACC braking capability is insufficient to maintain an appropriate distance between the current vehicle and the vehicle ahead, the system will issue a "Driver Takeover Request," and an alarm message will be displayed on the instrument cluster, accompanied by an audible warning. At this time, the driver should press the brake pedal as required by the system to reduce speed.

Starting ACC

- After the vehicle power is switched from "OFF" to "ON" each time, ACC will automatically enter standby mode. Briefly press  button; the corresponding blue indicator light in the instrument cluster will illuminate, and the vehicle will enter ACC control state.

i Tip

- The lowest settable cruise speed is 15km/h.
- ACC control cannot be engaged when the gear is not in a forward driving gear.

⚠ WARNING

- **When the vehicle is in "engine running" state and the gear is in "D", pressing the steering wheel  button will automatically make the stationary vehicle enter driving state when conditions are met. Exercise caution.**
- **When the vehicle enters ACC control from a stationary state, the vehicle speed may suddenly increase. Please ensure the area around the vehicle is clear to avoid unnecessary accidents.**

5. Driving Guide

Exiting ACC

The following actions can exit ACC control:

- Opening the driver's side door.
- Unbuckling the driver's side seatbelt.
- Depressing the brake pedal.
- Gear not in a forward gear.
- Briefly pressing  button (the corresponding indicator light on the instrument cluster turns gray, exiting ACC but retaining the set speed).
- Operating the EPB system button.
- Disabling the ESC system.
- When the HDC system is on.
- The Auto Hold function is activated.

The following methods of exiting Adaptive Cruise

Control can be resumed with  button:

- When the brake pedal is depressed.
- The gear is not in a forward position (you must shift to a forward gear).
- Briefly press  button
- Operating the EPB system button (requires releasing the EPB system).
- Disabling the ESC system (requires re-enabling the ESC).
- When the AUTO HOLD function is active (requires exiting AUTO HOLD first).

Resuming ACC

When the corresponding indicator light on the instrument cluster is gray, you can reset the adaptive cruise function with the following operations:

- Briefly press  button; the corresponding indicator light on the instrument cluster will illuminate blue, and the vehicle speed will resume to the last set cruise speed memory value, entering cruise control state.
- If the cruise speed has not been set, the system will set the current vehicle speed as the cruise speed (if the current speed is less than 15km/h, it will set the cruise speed to 15km/h).

Increasing Cruising Speed

To increase the vehicle speed, perform the following operations:

- Press the accelerator pedal, increase to the target speed, and press  button (keep the accelerator pedal pressed), to cruise at a higher set speed.
- Briefly press  button; the speed increases by 5km/h with each press.
- Press and hold  button; the cruise speed continuously increases by 5km/h until the button is released.

i Tip

- The highest settable cruise speed is 130km/h.
- When accelerating by pressing the accelerator pedal, the vehicle will temporarily exit ACC cruise control and accelerate according to the driver's intention. Upon releasing the accelerator pedal, the vehicle will resume ACC cruise control and the set cruising speed.
- If the vehicle speed exceeds 135km/h by pressing the accelerator pedal, the vehicle will automatically exit ACC cruise control. After the vehicle speed drops below 130 km/h, you must briefly press  button or  button again to reactivate ACC.

Decreasing Cruising Speed

To decrease the vehicle speed, perform the following operations:

- Briefly press  button; the speed decreases by 5km/h with each press.
- Press and hold  button; the cruise speed continuously decreases by 5km/h until the button is released or the cruise speed reaches 15km/h.
- During cruising, lightly press the brake pedal (ACC exits), maintain braking until the target speed, then briefly press  button to cruise at the current speed.
- During cruising, press  button on the steering wheel (to exit ACC), coast or lightly brake to the target speed, then briefly press  button to cruise at the new target speed.

5. Driving Guide

Adjusting ACC Following Distance

After the vehicle power is switched to the "ON" position, the system defaults to the fourth gear (longest following distance) for the distance to the vehicle ahead.

By briefly pressing  button, you can switch the gear of the distance to the vehicle ahead. Each press switches one gear, cycling in the order of "Fourth gear → Third gear → Second gear → First gear → Fourth gear...". At the same time, horizontal bars equal to the number of gears will be displayed on the instrument cluster display.

Activating ACC after Stop-and-Go

When following a vehicle, if the vehicle ahead stops, the current vehicle will also stop. For a period after the current vehicle stops, ACC will keep the vehicle stationary through active pressure boost by ESC. After some time, ACC will keep the vehicle stationary by engaging the EPB. When the vehicle ahead drives away, the current vehicle's ACC activation occurs in three situations:

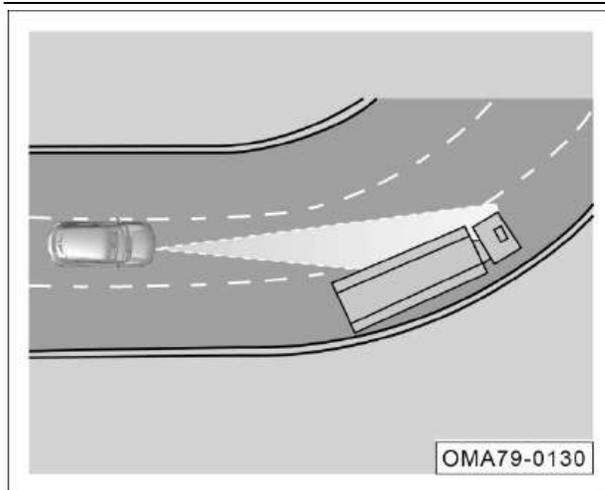
1. If the Adaptive Cruise Control indicator  is blue, ACC can actively resume and re-accelerate the vehicle after the vehicle ahead drives away.
2. If the gray Adaptive Cruise Control indicator  is lit, the EPB is not engaged, and Auto Hold is not active, the instrument cluster will display "Cruise Waiting." The driver can resume ACC and re-accelerate the vehicle by pressing the accelerator pedal or the  button.
3. If the gray Adaptive Cruise Control indicator  is lit and the EPB is engaged, the driver must first release the EPB. After releasing the EPB , pressing the button can resume ACC and re-accelerate the vehicle.

System Limitations

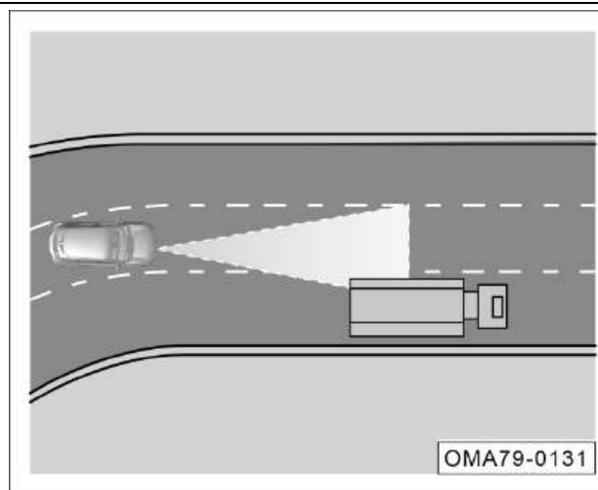
ACC is limited by physical laws and has certain system limitations. In some driving environments, the driver may feel that ACC reaction is delayed or fails to control the vehicle as expected, so the driver must be ready to manually control the vehicle at all times.

The following situations may affect the function of the radar system sensor; the driver must be especially alert when encountering these situations:

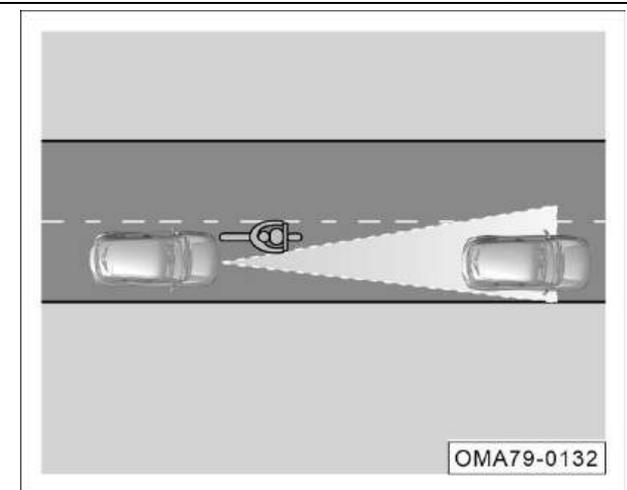
1. Decelerating to a Stop. If the vehicle ahead performs emergency braking to stop, ACC will also decelerate accordingly or request driver intervention. The driver must actively intervene with braking based on the takeover request alarm to bring the vehicle to a complete stop.



2. Driving Through Curves. When driving through curves, the radar sensor may not detect the vehicle ahead or may not react to vehicles in adjacent lanes. In this case, ACC may apply brakes to the vehicle, reduce speed, or not react to the vehicle ahead. Depressing the brake pedal or manually canceling ACC will exit the ACC system.

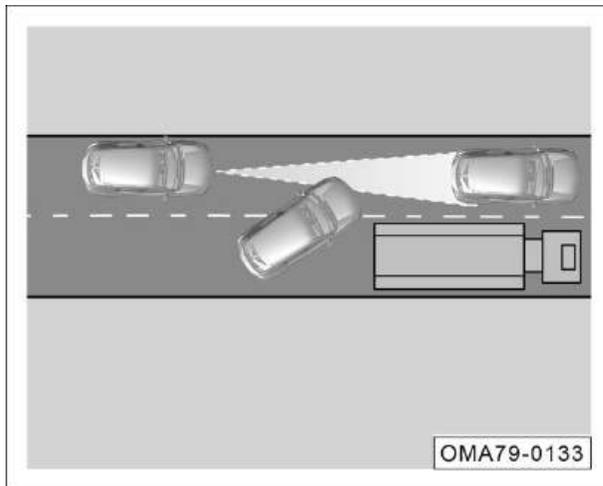


3. Exiting Curves. When exiting a long curve, because the system pre-calculates the driving lane, the radar sensor may react to vehicles in adjacent lanes and brake the current vehicle. This braking process can be interrupted by pressing the accelerator pedal.

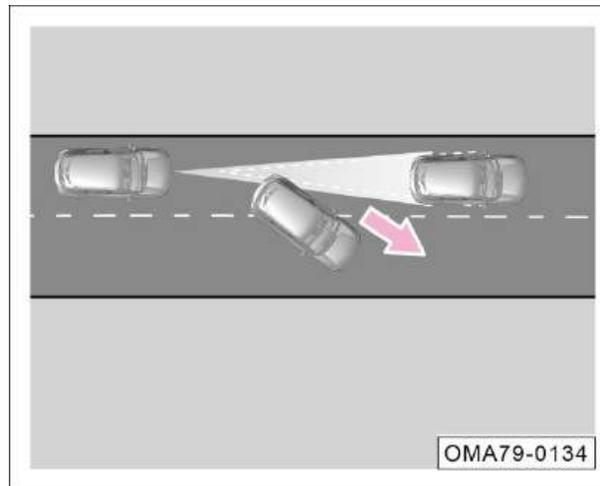


4. Narrow Vehicles Ahead and Zigzagging Traffic. Narrow vehicles ahead, or vehicles moving left or right ahead, can only be recognized when they enter the radar sensor's detection range. The system cannot recognize vehicles outside the sensor's detection range. The ACC system has difficulty recognizing narrow vehicles such as motorcycles. At the same time, the ACC system carries the risk of not accurately recognizing the distance to the vehicle ahead for modified vehicles and improperly transported vehicles. It is not recommended to use such vehicles as target vehicles ahead.

5. Driving Guide

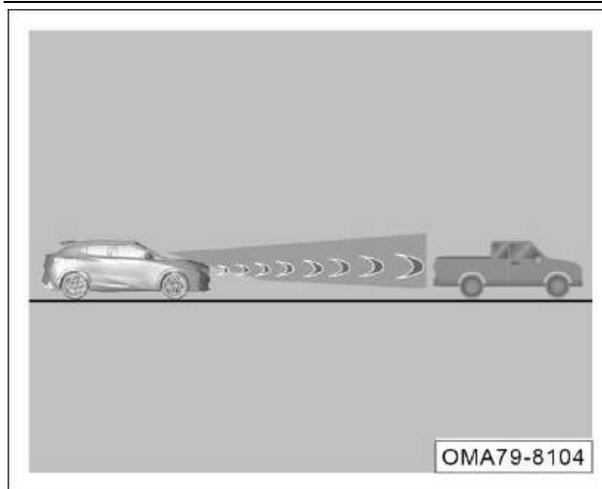


5. When Other Vehicles Change Lanes. When a vehicle from an adjacent lane merges into your lane, if the vehicle has not entered the forward detection range, the radar sensor may not detect it, leading to a delayed ACC response.



6. If the target vehicle ahead suddenly cuts out and a stationary vehicle appears at close range, the radar sensor and brake actuator may have a delayed reaction, leading to untimely braking response.
7. Factors that may degrade sensor function.
- Heavy rain, fog, ice, snow, or mud may all degrade the radar sensor's function, causing ACC to temporarily shut down. At the same time, the instrument cluster displays the following text message: "Cruise system operating conditions not met" or "Forward radar obstructed." In this case, the adaptive cruise control system and the front collision mitigation system cannot function.

- In low temperatures and high-altitude cold regions, due to temperature differences or frost, the front windshield may fog up or frost, obstructing the smart forward camera sensor. The instrument cluster will display the following text message: "Cruise system operating conditions not met" or "Forward radar obstructed." In this case, the adaptive cruise control system and the front collision mitigation system cannot function.
8. Overheated Brakes. If the brakes overheat due to emergency braking or prolonged downhill driving, ACC will temporarily and automatically shut down. At the same time, the instrument cluster will display the following text message: "Cruise system operating conditions not met." After this, ACC cannot be reactivated. ACC can only be reactivated when the brake temperature drops to a reasonable level.



9. ACC is not suitable for use in urban traffic congestion, poor visibility (night/backlight/rain/snow/dense fog, etc.). The ACC system may not take braking measures or may only take limited braking measures for people or animals, narrow vehicles such as bicycles and motorcycles or electric bicycles, low-platform trailers, approaching or stationary vehicles, or low-speed or stationary trucks/pickup trucks. The driver needs to be especially alert and always ready to take over the vehicle.

⚠ WARNING

- The ACC function does not cover all driving scenarios and all traffic, weather, and road conditions.
- The ACC function is merely a supplementary driving assistance function. Even when used, this function cannot replace your attention and judgment. You are responsible for maintaining a safe distance and speed, and if ACC fails to maintain an appropriate speed or distance from the vehicle ahead, you must intervene.
- The ACC takeover warning only alerts to vehicles that its radar and smart forward camera sensors have detected. Therefore, it may not issue an alarm, or there may be a delay in issuing an alarm. **Never wait for an alarm; apply brakes when the situation requires it.**

⚠ WARNING

- For safety reasons, ACC is not allowed to be used in urban driving, heavy traffic, winding roads, and poor road conditions (e.g., icy, foggy, gravelly, heavy rain, and prone to aquaplaning), as there is a risk of accidents.
- ACC is not a collision avoidance system. If the distance to the vehicle ahead is decreasing and the vehicle speed is higher than the vehicle ahead, and ACC's braking effect cannot ensure safety, the driver must press the brake pedal to reduce speed if a collision with the vehicle ahead is possible.
- Do not activate ACC when driving on unpaved roads or dirt roads. ACC should only be activated on smooth paved roads such as asphalt or concrete.

5. Driving Guide

WARNING

ACC will not react or will only react in a limited way to the following:

- **Significant speed difference between the current vehicle and the vehicle ahead.**
- **Driving in different lanes, changing lanes, or driving on curves with a small radius.**
- **Pedestrians, animals, bicycles, tricycles, stationary vehicles, or unexpected obstacles.**
- **Complex traffic situations.**
- **Oncoming vehicles or cross-traffic.**
- **Low-lying trailers, trucks, or vehicles with irregular/non-standard features.**

Therefore, always pay careful attention to traffic conditions and react accordingly. Do not wait for the system to identify targets or for the system to brake itself; apply the brakes when necessary.

Tip

- Do not bump the radar sensor. If the sensor is misaligned due to a bump, even after repair and calibration, system performance will still degrade, or the system may even shut down.
- If the radar or smart forward camera sensor surface is dirty or covered by heavy rain, ice, snow, or mud, ACC may not function. The instrument display will show "Forward radar obstructed" or "Forward camera vision blocked." After cleaning the sensor surface, the function will return to normal.
- Do not arbitrarily spray paint or apply stickers or other decorations to the front bumper, as this may degrade forward radar performance.
- ACC will not react to people, animals, or vehicles crossing laterally or approaching the current vehicle in the same lane.

Tip

- When passing through intersections, speed bumps, steep roads, crosswalks, or when changing lanes, entering/exiting highways, or driving in construction zones, you need to exit the ACC system and switch to full manual driving to prevent the vehicle from automatically accelerating to the set speed and causing traffic accidents in these situations.
- The ACC system can automatically drive the vehicle after a brief stop or driver confirmation (control button or accelerator pedal). During this time, the driver must ensure that there are no obstacles or other road users, such as pedestrians/two-wheelers, directly in front of the vehicle.
- If ACC fails to function properly, do not continue to use it. It is recommended to visit a GAC Service Center for inspection and repair promptly.

i Tip

- ACC may not react in some situations. For example, the system may not react when the vehicle approaches disabled vehicles or vehicles waiting in traffic jams, or other stationary obstacles, or when a vehicle in the same lane approaches the current vehicle.
- ACC can only achieve limited braking force and cannot perform emergency braking.
- Do not unintentionally rest your foot on the accelerator pedal, as this will cause ACC to stop braking the vehicle. Because the driver pressing the accelerator pedal may cause excessive speed and distance control.
- When driving in heavy rain or snow, and the system has difficulty or cannot recognize the vehicle ahead, ACC should be turned off.

i Tip

- When ACC is on, the ACC status displayed on the instrument cluster may be overwritten by other functions (e.g., during a phone call).
- When the system automatically applies brakes after ACC activation, sounds different from manual braking may occur, or the brake pedal may automatically depress. This is normal. These sounds and pedal movements are caused by the braking system operating and are no cause for concern.
- For safety, the stored cruise speed will be deleted after the vehicle power is turned off.
- You can increase speed at any time by pressing the accelerator pedal. After releasing the accelerator pedal, the system will adjust the vehicle speed back to the previously stored speed.
- Entering a tunnel may cause the radar and smart forward camera to enter blind mode, and ACC may temporarily shut down.

Longitudinal Distance Display to Vehicle Ahead

ACC detects the relative distance between the vehicle ahead and the current vehicle on the same path using the radar installed at the front of the vehicle and the smart forward camera on the front windshield, and displays it on the instrument display.

- When there is a vehicle ahead, after selecting to display the longitudinal distance to the vehicle ahead, the relative distance value to the vehicle ahead can be displayed on the instrument cluster.
- When there is no vehicle ahead, the instrument cluster cannot display the relative distance value to the vehicle ahead.

Enable or Disable

When the vehicle power is in the "ON" position, the Forward Collision Warning function and Active Brake Assist are automatically enabled.

To manually enable/disable, you can set the display of front vehicle longitudinal distance in the audio system settings.

5. Driving Guide

Tip

Radar sensors and smart forward cameras have perception limitations and cannot recognize vehicles outside their detection range.

WARNING

- **Always use the front vehicle longitudinal distance value cautiously, considering visibility, weather, road, and traffic conditions. The driver must always maintain control of the vehicle and is solely responsible for the vehicle's speed and the distance to other vehicles.**
- **The driver cannot rely solely on the front vehicle longitudinal distance display for judgment and decision-making. The driver is always responsible for ensuring the vehicle travels safely at an appropriate speed and maintains an appropriate distance from other vehicles.**

5.4.3 Integrated Cruise Assist System

Integrated Cruise Assist system is referred to as ICA. ICA can automatically adjust the distance to the vehicle ahead while cruising and keep the vehicle in the middle of the lane, applicable at cruising speeds (0~130) km/h.

ICA detects the relative distance and speed between vehicles on the path ahead and the current vehicle using a millimeter-wave radar installed at the front of the vehicle and a smart forward-looking camera on the front windshield. It also detects lane markings on the road surface using the smart forward-looking camera.

ICA enhances driving comfort and provides a more relaxed driving experience, such as during long-distance driving in smooth traffic flow on highways.

Tip

Precautions for using radar and smart forward camera sensors. => See page 168

Operating Instructions

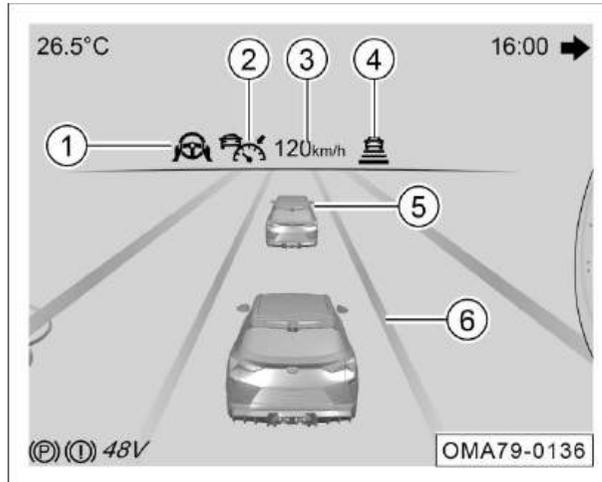
Briefly press the  button on the left side of the steering wheel to enable ICA.

After enabling ICA, you can turn on or activate ICA in the same way as ACC. Cruise mode can be switched when ACC is off, on, or activated. => [See page 136](#)

The system has a cruise mode memory function. After the vehicle starts, the cruise mode will be the same as the selection made when the vehicle was last turned off.

When the ICA system experiences a specific fault that does not affect ACC, the cruise mode will automatically switch back to adaptive cruise. At this time, the driver can no longer select to enter Integrated Cruise Assist, but adaptive cruise can still be used normally.

Interface Description



- ① Indicates the lateral control status indicator:
- The steering wheel icon in the center is blue  when lateral control is active and gray  when it is in standby.
 - When the driver's hands are detected on the steering wheel, the hands icon on the steering wheel icon is continuously illuminated.
 - While the system is active, if it detects that the driver's hands have been off the steering wheel for about 14 seconds, the hands-off icon will flash.
 - The system will also dynamically pop up a text message "Please turn the steering wheel gently" and emit a corresponding prompt sound based on the driver's actual grip on the steering wheel.

- ②: Adaptive Cruise Control indicator light
- ③ Indicates the last set cruise speed.
- ④ Set cruising distance to the vehicle ahead
- ⑤ Detected vehicle ahead
- ⑥ Indicates lane lines

Lateral Control

When the ICA function is activated, lateral control will automatically activate when valid double lane markings are detected.

Lateral control keeps the vehicle in the center of the lane between the two lane markings.

Lateral control is suppressed when the following occurs:

- Lane marking curvature is too high or missing
- Aggressive driving conditions
- Turn signal activated
- Hazard warning lights activated
- Driver turns the steering wheel
- Driver's hands are off the steering wheel for an extended period, and the system prompts for takeover
- ACC exits => [See page 138](#)

The ICA system can only use limited vehicle steering system capabilities, so it cannot cover all driving conditions. The driver must always keep both hands on the steering wheel and drive carefully.

5. Driving Guide

When the ICA system intervenes with the steering wheel for lateral assist control, the driver can still turn the steering wheel to control the vehicle. When the driver feels the torque applied by the system is inappropriate, they can control the vehicle to drive according to their intention at any time.

Takeover Prompt



When ICA detects that the driver's hands have been off the steering wheel for an extended period, the system will issue a takeover prompt. The instrument cluster will display the image above accompanied by a buzzer sound.

When the driver receives the takeover prompt, they should immediately grasp the steering wheel. Do not panic, avoid unnecessary sudden steering. When the ICA system detects hand torque applied to the steering wheel, it recognizes that the driver is holding the steering wheel, and the takeover prompt is canceled. ICA automatically reactivates lateral assist.

Note that if the steering wheel takeover prompt is issued and the driver does not take over promptly, the lateral assist of the ICA function will be suppressed.

The system may mistakenly interpret the driver lightly resting hands on the steering wheel as hands off the steering wheel. In this situation, when the system issues a steering wheel takeover prompt, the driver only needs to grip the steering wheel slightly tighter or gently wiggle the steering wheel, and the system will detect the torque on the steering wheel, and the takeover prompt will be canceled.



The ICA system can only use limited braking capability of the service braking system. When the system requires driver intervention for braking, the instrument cluster displays the image above accompanied by a buzzer sound.

When the driver receives the takeover prompt, they should immediately depress the brake pedal to apply appropriate braking.

After pressing the brake pedal, ICA will exit the active state. If the emergency situation is cleared and ICA needs to be reactivated, operate the resume ACC or set ACC buttons. => [See page 136](#)

Intelligent Evasion

When Integrated Cruise Assist is active, the intelligent evasion system will automatically control the vehicle to move away and evade when a specific side risk is identified (e.g., large vehicle in an adjacent lane). You can enable or disable "Smart Dodge" through the infotainment system.

The system has a switch state memory function. After the vehicle starts, the switch state will be the same as the last state when the vehicle was turned off.

When the Smart Dodge function is activated, a pop-up window with the text "Smart Dodge in Progress" will automatically appear on the instrument panel.

Limitations

The steering and braking system capabilities that the ICA system can use are limited, so the ICA system cannot maintain an appropriate inter-vehicle distance on all road conditions, nor can it keep the vehicle in the lane on all road conditions.

The ICA system may incorrectly detect or fail to detect lane markings, and may incorrectly detect or fail to detect target vehicles ahead. In the following situations, the system may be affected, malfunction, or not function, even if the function is enabled and shown as active:

- Poor visibility, e.g., snow, rain, fog, or water spray.
- Dirty, damaged, or foggy windshield glass, or an obstruction in the smart forward camera area.
- Direct sunlight causing excessively high temperatures around the smart forward camera.
- Poor visibility due to direct sunlight, headlights from oncoming vehicles, reflected light from accumulated water on the road, etc.
- Drastic changes in lighting conditions, such as entering/exiting a tunnel.

- Headlights not turned on at night or in low light conditions inside tunnels.
- No lane markings, or difficulty distinguishing between lane marking color and road surface color.
- Lane markings are not clear, such as being too thin, worn, blurry, or covered by dirt/snow.
- Lanes are too wide or too narrow.
- Number of lanes increases or decreases, or lane markings are complex and interwoven.
- More than two lane markings on the left and right sides of the vehicle's path.
- Markings or objects on the road that resemble lane markings.
- Guardrails or other objects casting shadows on lane markings.
- Short-term changing markings, such as ramps or highway exits.
- Driving on steep slopes or winding roads.
- Too close to the vehicle ahead or the vehicle ahead is blocking the lane markings.
- Vehicle shaking severely.

5. Driving Guide

- The longitudinal control of the ICA system is based on ACC; please refer to the ACC relevant sections for more limitation conditions. => [See page 140](#)

In the following situations, the lateral assist control performance of the system may be affected:

- Vehicle overloaded.
- Abnormal tire pressure.
- Uneven road surface.
- Strong crosswinds.
- Driver modifies vehicle control-related components.
- Vehicle control-related components are replaced with non-original matching parts.
- Vehicle control-related components are improperly assembled.

Tip

When the integrated cruise assist system controls the steering wheel for assistance, the driver can still turn the steering wheel to control the vehicle. When the driver feels that the corrective torque applied by the system is inappropriate, they can control the vehicle to drive according to their intention at any time.

CAUTION

- If integrated cruise assist is suppressed for any reason (e.g., temporary loss of lane lines), it will automatically resume when operating conditions are met.
- When the driver judges that the integrated cruise assist system is not controlling the vehicle properly, firmly grip the steering wheel for appropriate control. The integrated cruise assist function can be interrupted by the driver operating the steering wheel.
- The integrated cruise assist function can be interrupted by driver actions, such as pressing the brake pedal, quickly pressing the accelerator pedal, pressing the integrated cruise assist function button, unfastening the seat belt, pressing the hazard warning lights, etc. The integrated cruise assist function will be interrupted. Please remember to keep your hands on the steering wheel.

 WARNING

- Integrated cruise assist is only a driving assistance function and cannot handle all road, traffic, and weather conditions. The driver is always solely responsible for driving and should always pay attention to road conditions and actively control the vehicle.
- The driver must always keep hands on the steering wheel and actively control the vehicle. If the Integrated Cruise Assist system does not provide appropriate steering assistance or appropriate inter-vehicle distance, the driver should intervene in a timely manner.
- Before using integrated cruise assist, please thoroughly read all sections of the user manual related to this function to understand its system limitations. The driver should be aware of these limitations before using this function.

 WARNING

- Improper use or negligence with the integrated cruise assist system may lead to accidents. The driver always bears the ultimate responsibility for controlling the vehicle, maintaining appropriate speed and inter-vehicle distance, and keeping the vehicle correctly in the lane, even when using the integrated cruise assist system.
- Integrated cruise assist system is not a collision avoidance system. The driver must intervene when the system does not provide appropriate control.
- Do not use Integrated Cruise Assist in urban traffic, at intersections, on roads with standing water or snow, in adverse weather, on mountain roads, undulating roads, or at highway entrances/exits. Do not use Integrated Cruise Assist when the vehicle is connected to a trailer.

 WARNING

- The Integrated Cruise Assist system cannot always recognize lane markings. Due to adverse weather, poor lighting, drastic light changes when entering/exiting tunnels, standing water/snow on the road, damaged/blurred/non-standard lane lines, shadows cast on the road, surrounding vehicles, maintenance facilities, guardrails, etc., or rapid lane changes (such as merging, diverging), lane markings may be missed or misidentified. Therefore, the Integrated Cruise Assist system may not generate lateral assist torque when needed, or may generate unnecessary lateral assist torque incorrectly.
- The Integrated Cruise Assist system can only use limited vehicle steering system capabilities, so it does not cover all driving conditions. The driver must always keep both hands on the steering wheel and drive carefully. Be sure to keep your hands on the steering wheel or reduce speed appropriately on high-speed curves.

5. Driving Guide

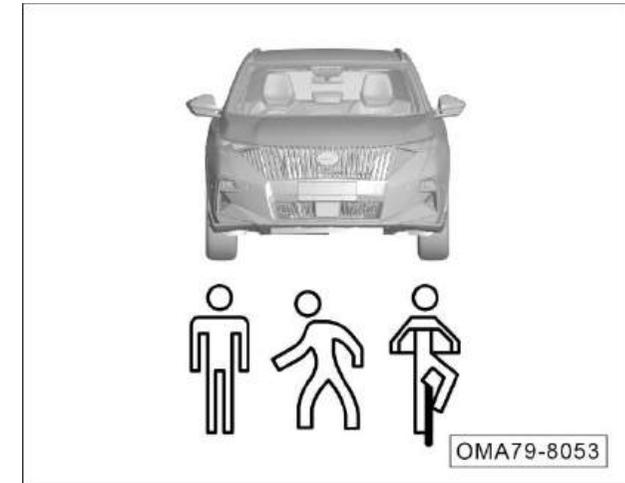
⚠ WARNING

- **The Integrated Cruise Assist system cannot perform braking for pedestrians, animals, foreign objects, low-platform trailers, or oncoming vehicles.**
- **The Integrated Cruise Assist system does not work in all traffic conditions. In situations such as excessive lane curvature before a sharp curve or encountering sections without lane markings, lateral assist may suddenly disengage. Always keep your hands on the steering wheel and actively control the vehicle.**

5.4.4 Forward Collision Mitigation System*

The Forward Collision Mitigation (FCM) system uses a millimeter-wave radar installed at the front of the vehicle and an intelligent forward-facing camera on the front windshield to detect the relative distance and speed between objects in the path ahead and the vehicle. It evaluates the risk of pre-collision by integrating other driver actions (such as braking, accelerating, etc.) and provides timely warnings to the driver to take action when there is a collision risk. When a collision is detected to be imminent, the system automatically brakes the vehicle. If the driver is already braking but the braking force is insufficient to avoid a collision, the system automatically increases the braking force to avoid or mitigate the collision.

Detectable Objects:



- Vehicles
- Two-wheelers
- Pedestrians

i Tip

Refer to precautions for using radar and smart forward camera sensors. => [See page 168](#)

Forward Collision Warning

Based on the millimeter-wave radar installed on the front bumper and the intelligent forward-facing camera on the front windshield, the system detects objects ahead and warns the driver of an impending collision.

When the FCM system issues an alarm, there are two types of alerts:

1. Impending Collision Warning

When the Forward Collision Mitigation system's pre-warning is triggered, the instrument's front collision warning system indicator light  flashes, and the instrument will also emit an audible alarm and an animation prompt.

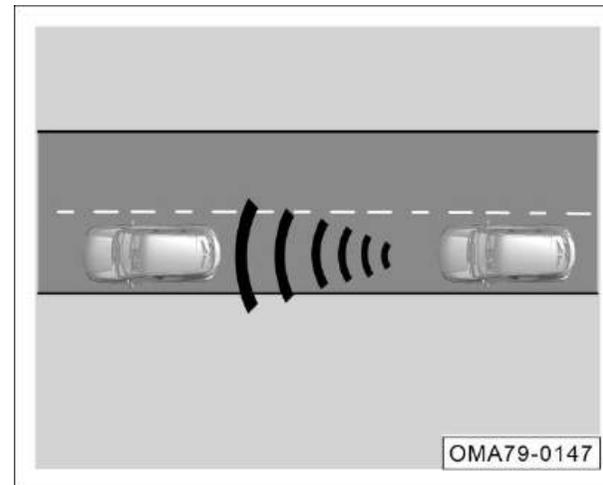
2. Brief Braking

Brief braking is triggered when the vehicle has a high collision risk with a moving target vehicle, serving as a better reminder for the driver to apply brakes immediately.

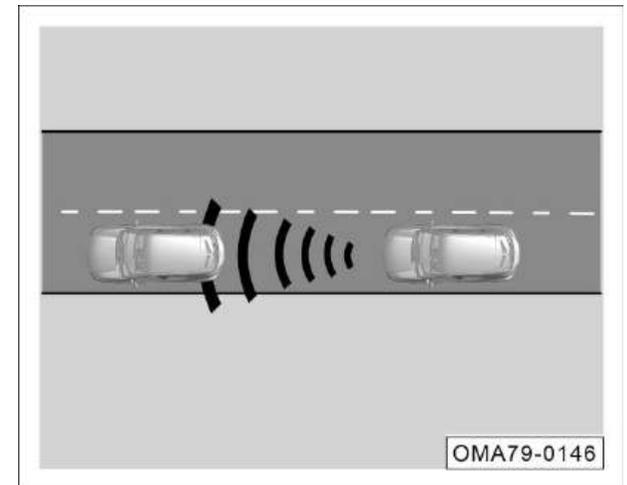
Active Brake Assist

Based on the millimeter-wave radar installed on the front bumper and the intelligent forward-facing camera on the front windshield, the system detects objects ahead. The vehicle prepares to enter an emergency braking state for an impending collision, provides assistance during braking, and triggers the active brake assist function.

Active Braking Levels

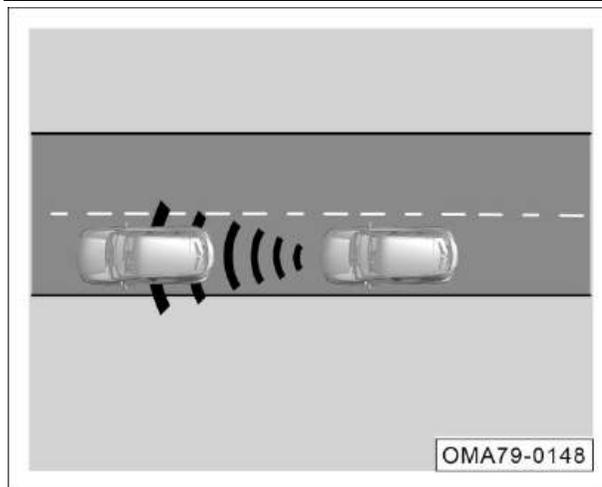


- Level 1 Braking: When approaching the vehicle ahead, through brief braking.



- Level 2 Braking: Further approach, slight automatic emergency braking.

5. Driving Guide



- Level 3 Braking: Rear-end collision is unavoidable, automatic full braking.

Enable and Disable

- When the vehicle power is in the "ON" position, the Forward Collision Warning (FCW) function and Active Brake Assist (ABA) are automatically enabled.
- You can enable or disable "Front Collision Warning" and "Active Braking Assist" through the audio system settings.
- When turning off Forward Collision Warning and Active Brake Assist, the infotainment system will display a confirmation pop-up. Tap "Confirm" or "Cancel" to confirm the action.

i Tip

- After front collision warning is enabled, the warning distance can be set to "Far, Medium, Near." The forward collision warning distance has a memory function, remembering the last set warning distance.
- After front collision warning and active braking assist are turned off, the system will no longer alarm or brake for vehicles and pedestrian targets.
- After front collision warning or active braking assist is turned off, when the vehicle power is switched from "OFF" to "ON" again, front collision warning and active braking assist will default to automatic activation.

System Limitations

The Forward Collision Mitigation system has physical and system limitations. For example, the Forward Collision Warning and Active Brake Assist functions may be unintentionally triggered or delayed due to driver intervention in some situations. Therefore, please remain alert at all times and take over control proactively when necessary.

The following conditions may lead to delayed or non-operation of the Forward Collision Mitigation system:

- When the ground clearance of the vehicle ahead is very high, e.g., a semi-trailer.
- When the rear of the vehicle ahead is low, e.g., a low-bed trailer.
- When the shape of the vehicle ahead is irregular, e.g., a tractor or a sidecar motorcycle.
- When ambient brightness changes suddenly, e.g., tunnel entrances/exits.
- When the rear of the vehicle ahead is small, e.g., an empty truck.
- When the detectable object ahead accelerates, decelerates, or steers sharply.
- When the detectable object ahead suddenly cuts into the vehicle's path.
- When the vehicle ahead is a bicycle of a special shape, e.g., a multi-person bicycle.
- When driving at extremely high speeds.
- When driving on an incline.
- When driving on narrow curves.
- When depressing the accelerator pedal deeply or accelerating rapidly.
- When auxiliary functions are disabled or malfunctioning.
- When the ESC function is manually disabled.
- When the vehicle enters ESC control.
- The surface of the smart forward camera area or the radar sensor surface is dirty or covered by foreign objects.
- When the vehicle is reversing.
- In chaotic traffic conditions.
- When the vehicle is towing another vehicle.
- When pedestrians are standing on a traffic island or on a curve.
- Pedestrians are completely or partially obscured by other objects, e.g., workers holding ladders/pedestrians with umbrellas.
- Pedestrians wearing unusual costumes or masks, e.g., carnival costumes.
- When visibility is poor, such as at sunset, at night, in ice and snow, heavy rain, dense fog, or backlight.

The following conditions may cause the system to operate even when a collision is unlikely:

- When there are detectable object patterns in front of the vehicle.
- When the current vehicle is overtaking a changing lane vehicle or a vehicle turning right/left.
- When the current vehicle is overtaking a vehicle preparing to turn right/left.
- When a detectable object is present at the entrance of a curve.
- When the vehicle changes lanes during the process of overtaking a detectable object.
- When the vehicle approaches a detectable target ahead in a winding lane or while changing its driving path.
- When driving under gantries, billboards, road signs, etc.
- When there are metallic objects such as manhole covers or steel plates in front of the vehicle.

5. Driving Guide

- When approaching roadside utility poles, railings, trees, or other objects.
- When driving through grass, branches, banners, or other objects that may come into contact with the vehicle.
- When driving near objects that reflect radio waves.

WARNING

The active brake assist function must be turned off in the following situations:

- The vehicle is being towed.
- The vehicle is on a rolling road dynamometer.
- The radar sensor or smart forward camera sensor malfunctions.
- External force (such as a rear-end collision) acts on the radar sensor.

WARNING

- The front collision mitigation system can improve your driving safety, but it cannot defy the laws of physics. Do not take risks by relying on the convenience features provided by the front collision mitigation system. The driver must be ready to apply brakes, reduce speed, or avoid obstacles at all times.
- The front collision mitigation system only provides warnings and limited braking for collision mitigation for vehicles/pedestrians that the radar and smart forward camera sensors have already detected. Therefore, it may not react, or there may be a certain delay in reaction. Never wait for the Forward Collision Mitigation system to activate; the driver must apply brakes when necessary.
- The front collision mitigation system only provides warnings to the driver to avoid collisions and limited braking to mitigate collision damage. It cannot autonomously prevent vehicle accidents or personal injuries. The driver must always maintain control of the vehicle and is solely responsible for the vehicle's speed and distance to other vehicles.

WARNING

- When the front collision mitigation system is enabled, the driver must always maintain control of the vehicle while driving and is solely responsible for the vehicle's speed and distance to other vehicles.
- Never disregard illuminated warning lights and instrument display alerts, as this may lead to traffic accidents and serious injuries.
- Therefore, always pay attention to traffic conditions and do not rely excessively on the active braking assist function. The active braking assist function is merely a driving assistance tool. The driver should be responsible for maintaining an appropriate distance from the vehicle ahead, controlling speed, and braking in time. Be prepared to brake or steer when necessary.

i Tip

- Depressing the accelerator pedal or turning the steering wheel will terminate both the Forward Collision Warning alarm and the active brake assist braking intervention.
- In complex driving environments (e.g., when the vehicle is driving on winding roads), the front collision warning and active braking assist may issue unnecessary alarms and braking interventions.
- When active braking assist is triggered, it will apply braking to the vehicle. The brake pedal may vibrate or feel harder, which is normal.
- When affected by electromagnetic field interference, target's own reasons, or environmental factors, detection will be interfered with, and performance will decrease.
- When the instrument panel displays "Please Check Forward Collision Mitigation System," the system is off. Please contact a GAC Service Center for inspection and repair promptly.

5.4.5 Lane Departure System*

The lane departure system is designed to reduce accidents caused by unintentional lane departure.

The lane departure system uses a smart forward-looking camera installed on the front windshield to detect lane markings on the road. It analyzes the driver's driving behavior and vehicle movement status, and when the driver unintentionally deviates from the lane due to fatigue, distraction, or phone calls, it issues warnings or intervenes with the steering wheel for corrective assistance. Typically, it provides a warning or intervenes with the steering wheel when the front wheels cross a lane marking.

When the driver selects the assist mode as "Steering" or "Steering and Warning" and the lane departure system operating conditions are met, the system will monitor the torque on the steering wheel. When the driver's hands are off the steering wheel for an extended period, the system will issue an alarm to the driver.

Enable and Disable

You can enable or disable "Lane Departure Assist" through the infotainment system.

When the function is on, the button will show an "on" state, and the lane departure system indicator  will illuminate on the instrument panel. When the function is off, the button will show an "off" state, and the indicator light will go out.

The system has a switch state memory function. After the vehicle starts, the switch state will be the same as the last state when the vehicle was turned off.

Selecting Lane Departure Assistance Mode

With the vehicle's power in the "ON" position, set the Lane Departure Assist mode through the infotainment system.

5. Driving Guide

1. Steering

- When "Steering" is selected, the system only intervenes with the steering wheel for corrective assistance.

2. Warning

- When "Warning" is selected, the system only issues a warning.

3. Steering and Warning

- When "Steering and Warning" is selected, the system will both issue a warning and intervene with the steering wheel for corrective assistance.

Tip

The system has a lane departure assist mode memory function. After the vehicle starts, the lane departure assist mode will be the same as the selection made when the vehicle was last turned off.

Alarm Prompt

Lane departure alarm prompts are only triggered when the assist mode is "Warning" or "Steering and Warning".

- When the vehicle speed is greater than 65km/h and the system detects at least one valid lane line, the status indicator light  on the instrument cluster illuminates blue. This indicates that the system may issue a lane departure alarm at this time. When only one lane line is recognized, the system only alarms for that side.

When the indicator light  is blue, if the vehicle deviates from the lane in one of the following situations, the system will not issue an alarm:

- Decelerating with significant braking force.
- Activating the turn signal for the corresponding side.
- Activating hazard warning lights.
- Rapidly turning the steering wheel.
- Short time since the last alarm.
- Continuously driving on or straddling the lane line.

When the indicator light  is blue, if none of the above actions are performed, and the vehicle deviates from the lane (e.g., the driver unintentionally deviates due to fatigue, distraction, or phone calls), the system will issue a warning to the driver, displaying the corresponding side lane line (red) on the instrument cluster, accompanied by a buzzer sound.

Steering Assist

The lane departure corrective assist prompt is only triggered when the assist mode is "Steering" or "Steering and Warning".

When the instrument shows a vehicle speed greater than 65km/h and the system detects at least one valid lane line, the indicator light  on the instrument cluster illuminates blue. This indicates that the system may intervene with the steering wheel for corrective assistance at this time. If only one lane edge is recognized, the system will only perform correction for that side.

When the indicator light  is blue, if the vehicle deviates from the lane in one of the following situations, the system will not intervene with the steering wheel for corrective assistance:

- Decelerating with significant braking force.
- Activating the turn signal for the corresponding side.
- Activating hazard warning lights.
- Rapidly turning the steering wheel.
- Short time since the last alarm.
- Continuously driving on or straddling the lane line.
- The system prompts the driver to take over because the driver's hands have been off the steering wheel for an extended period. When the system intervenes with the steering wheel for corrective assistance, the driver can feel the system applying torque to the steering wheel, and the instrument cluster displays the corresponding side lane line (blue) prompt.

Takeover Prompt



When the lane departure system detects that the driver's hands have been off the steering wheel for an extended period, the system will issue a takeover prompt. The instrument cluster will display the image above accompanied by an alarm sound. This prompt only appears when the driver selects "Steering" or "Steering and Warning".

When the driver receives the takeover prompt, they should immediately grasp the steering wheel. Do not panic; avoid unnecessary sudden turns of the steering wheel. When the lane departure system detects hand torque applied to the steering wheel, it recognizes that the driver is holding the steering wheel, and the takeover prompt is canceled. The lane departure system automatically reactivates.

Tip

The system may mistakenly interpret the driver lightly resting hands on the steering wheel as hands off the steering wheel. In this situation, when the system issues a steering wheel takeover prompt, the driver only needs to grip the steering wheel slightly tighter or gently wiggle the steering wheel, and the system will detect the torque on the steering wheel, and the takeover prompt will be canceled.

5. Driving Guide

Functional Limitations

Even if the lane departure system is enabled and working, due to unavoidable environmental factors and conditions, it may incorrectly detect or fail to detect lane markings. In the following situations, the system may be affected or not function:

- Poor visibility, e.g., snow, rain, fog, or water spray.
- Dirty, foggy windshield, or an obstruction in front of the smart forward camera on the windshield.
- Direct sunlight causing excessively high temperatures around the smart forward camera.
- Glare caused by direct sunlight, oncoming vehicles, reflected light from accumulated water on the road, etc.
- Sudden changes in outdoor brightness, such as entering/exiting a tunnel.
- Headlights not turned on at night or in tunnels when light is dim.
- No lane markings, or difficulty distinguishing between lane marking color and road surface color.
- Lane markings are not clear, too thin, worn, blurry, or covered by dirt/snow.
- Lanes are too wide or too narrow.
- Number of lanes increases or decreases, or lane markings are complex and interwoven.
- More than two lane markings on the left and right sides of the vehicle's path.
- Markings or objects on the road that resemble lane markings.
- Shadows cast on lane markings by median strips or other objects.
- Short-term changing markings, such as ramps or highway exits.
- Driving on steep slopes or winding roads.
- Too close to the vehicle ahead or the vehicle ahead is blocking the lane markings.
- Vehicle shaking severely.

In the following situations, the performance of the system intervening with the steering wheel for corrective assistance may be affected:

- Vehicle overloaded.
- Abnormal tire pressure.
- Uneven road surface.
- Strong crosswinds.
- Driver modifies vehicle control-related components.
- Vehicle control-related components are replaced with non-original matching parts.
- Vehicle control-related components are improperly assembled.

Tip

When the lane departure system intervenes with the steering wheel for corrective assistance, the driver can still turn the steering wheel to control the vehicle. When the driver feels that the corrective torque applied by the system is inappropriate, they can control the vehicle to drive according to their intention at any time.

 CAUTION

- When the lane departure system detects unintentional lane departure, it will issue a warning or intervene with the steering wheel for corrective assistance. Do not panic or make unnecessary sudden steering movements.
- When the lane departure system detects that the driver's hands have been off the steering wheel for an extended period, it will issue a warning. Do not panic, make unnecessary sudden turns, or unnecessarily shake the steering wheel. The driver only needs to keep both hands firmly on the steering wheel and drive normally.
- When you select "Warning" as the lane departure assist mode, the system will not provide steering intervention or takeover prompts. When "Steering" mode is selected, the system will not issue alarm prompts.

 WARNING

- **The lane departure system is only an auxiliary system and cannot actively control the vehicle to change lanes or stay in the lane. The driver is responsible for always paying attention to road conditions and actively controlling the vehicle. Be sure to always keep your hands on the steering wheel and actively control the vehicle.**
- **Improper use or negligence with the lane departure system may lead to accidents. Do not rely on the lane departure system or attempt dangerous driving with its assistance.**

 WARNING

- **The lane departure system does not always recognize lane lines and road edges. Due to bad weather, poor nighttime lighting, standing water or snow on the road, damaged or blurry lane lines, shadows cast on the road, etc., lane lines or road edges may be missed or misidentified.**
- **This may result in false positives or missed triggers of functions. Therefore, the driver must concentrate on observing road and traffic conditions and drive carefully.**

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WARNING

- **Avoid strong impacts, moisture, or heat to the smart forward camera. Do not disassemble components yourself. Do not place objects on the instrument panel that reflect light, as these objects can not only dazzle the driver but also reflect light into the field of view of the system's front camera, affecting normal function.**
- **Do not tint the vehicle's front windshield glass or add non-standard layers. Any external object affecting the smart forward camera's vision may affect the system's normal operation.**
- **Be careful to avoid impacts or modifications to the bumper or car body, as this may affect the normal operation of the lane departure system.**

WARNING

- **When the system cannot detect lane lines, judges that the driver is intentionally deviating from the lane (e.g., detects rapid steering wheel turning), or the vehicle speed is less than 65km/h, the system will not issue a warning or steering intervention, even if the vehicle deviates or leaves the lane.**
- **The system can only use limited steering capability, so it cannot guarantee to correct the vehicle back into the lane under all circumstances.**
- **Interior sounds or exterior noise may prevent you from hearing the warning buzzer. Therefore, it cannot be guaranteed that you will always be alerted to alarms issued by the lane departure system.**

5. Driving Guide

5.4.6 Blind Spot Monitoring System*

The Blind Spot Monitoring System uses cameras on the exterior mirrors to capture images of the left-rear and right-rear sides of the vehicle and displays them on the infotainment system, providing the driver with information about the vehicle's surroundings to reduce blind spots. It can also use turn signal parameters to determine the vehicle's turning intention and display a single-side view on the infotainment system, allowing the driver to fully understand the situation to the side and rear of the vehicle and judge whether it is safe to turn or change lanes.

Activating the Blind Spot Monitoring Function

- Tap the "Blind Spot Monitoring Assist" soft key in the infotainment system's menu bar to activate the function.
- When the function is activated by the turn signal, increase the vehicle speed to above 25 km/h. Activating the left/right turn signal will display the left/right single view on the infotainment system.

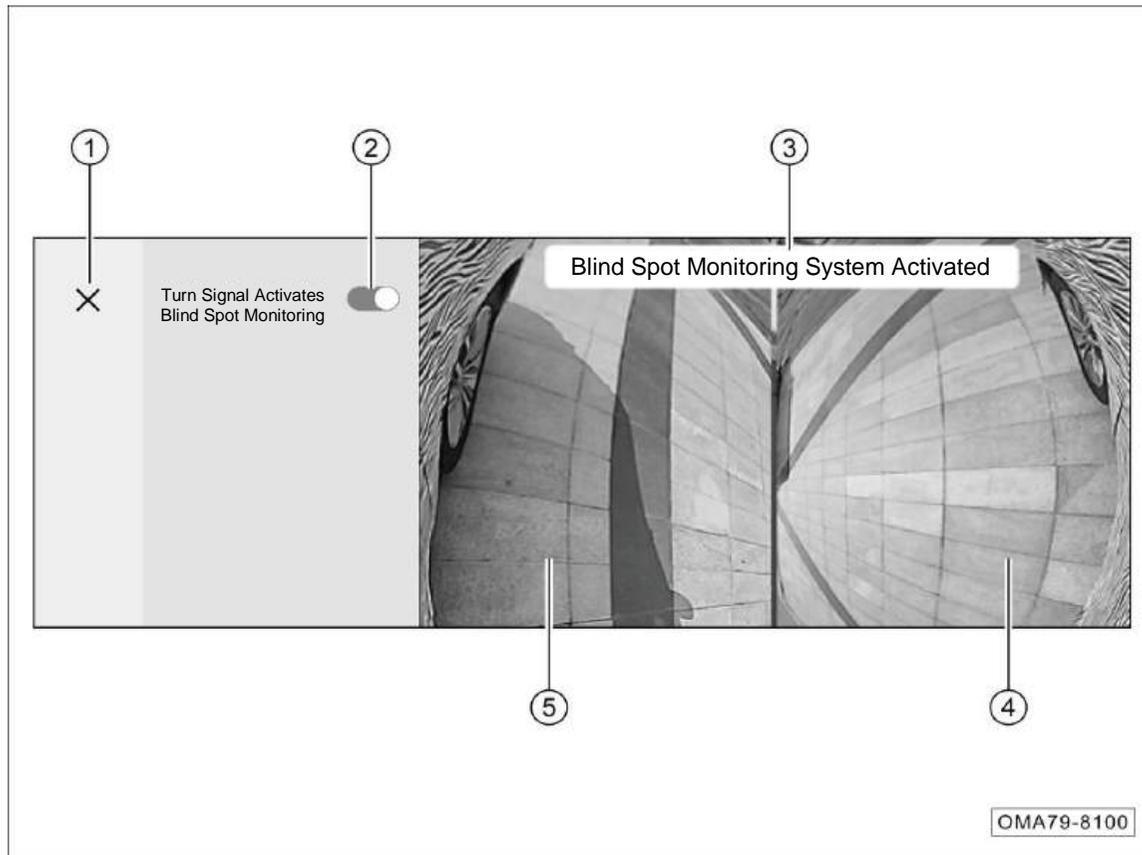
Deactivating the Blind Spot Monitoring Function

- Tap the exit soft key on the main screen of the Blind Spot Monitoring function to deactivate it.
- When the function is activated by the turn signal, it will deactivate after the turn signal stalk returns to its neutral position.
- When not in R gear, the system automatically deactivates the function if the vehicle speed is below 25 km/h.
- When not in R gear, if there is no interaction with the function's main screen and the turn signals are not activated, the system will automatically exit after 30 seconds.

CAUTION

The Blind Spot Monitoring System only provides support for a limited area beside the vehicle and cannot provide warnings for vehicles approaching from the rear.

Interface Description



- ① Exit
- ② Turn Signal Activation Switch Soft Key
- ③ Message Pop-up
- ④ Right Side View
- ⑤ Left Side View

i Tip
 The illustration is for reference only. Please refer to the actual vehicle.

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5.4.7 Intelligent High Beam (IHB)

The Intelligent High Beam (IHB) system uses an intelligent forward-facing camera sensor on the upper edge of the front windshield to detect traffic and environmental factors in real-time, and can automatically switch between low beam and high beam headlights. For example, when driving at night on poorly lit roads and the driver has enabled the intelligent high beam function, the system will automatically turn on the high beam headlights when it determines that the conditions for high beam activation are met. When the system recognizes an oncoming vehicle or a vehicle ahead at close range, it will automatically switch the high beam headlights to low beam.

Enabling Intelligent High Beam

1. With the vehicle's power in the "ON" position, you can enable the Intelligent High Beam function through the infotainment system settings.

Tip

This setting has a memory function. After the vehicle starts, the enable/disable state will be the same as the state when the vehicle was last turned off.

2. Turn the light switch to the position to activate the automatic lights.
 - When the intelligent high beam function is enabled, it is in standby mode. When the conditions for high beam activation are not met, or the driver has not manually turned on the high beam, the indicator light  on the instrument cluster is white.
 - When intelligent high beam is enabled, if the conditions for high beam activation are met, the system automatically switches to high beam, and the blue indicator light  will be displayed on the instrument cluster.

Disabling Intelligent High Beam

The intelligent high beam function will be deactivated if any of the following conditions are met:

- Turn the light switch to a position other than AUTO.
- Setting it to "off" via the infotainment system.
- Vehicle turned off.

Tip

Manual activation/deactivation of high beam headlights and the high beam flash function is possible at any time.

Intelligent High Beam Suppression Conditions

In the following situations, the high beam request will be suppressed, and the intelligent high beam system will request the high beam to turn off:

- Vehicle speed is below 15km/h.
- Fog lights on or in rainy/foggy weather.
- Wiper operating continuously in HI position for a period of time.
- High ambient brightness.
- Detection of streetlights, a vehicle nearby ahead, or an oncoming vehicle.

In the following situations, the intelligent high beam system will suppress the high/low beam switching. When the conditions mentioned above are not present, the system will suggest maintaining the current lighting state:

- High lateral acceleration or yaw rate.
- High dynamic state (ABS or ESC activated).
- Vehicle speed is below 35km/h.
- Turn signal activated.

Functional Limitations

When using the intelligent high beam assist function, automatic high beam/low beam switching may not occur in time or at all for the following reasons:

- The front windshield surface in front of the intelligent forward-facing camera is covered by ice, snow, fog, dirt, stickers, or other attachments.
- Highly reflective objects exist on dimly lit streets.
- Encountering pedestrians, bicycles, etc., on poorly lit roads or roadside.
- When the lights of oncoming vehicles are blocked, e.g., by crash barriers, high central barriers, green belts, etc.
- When following a vehicle ahead, the brightness of the vehicle's taillights is dim or does not meet national standards.
- Encountering partially obscured oncoming vehicles on sharp curves/mountain roads/depressions.
- Driving on slopes or bumpy roads.
- Driving in heavy rain, snow, or fog.
- Intelligent forward-facing camera damaged or power interrupted.

⚠ WARNING

The intelligent high beam is an auxiliary driving function that helps you use the optimal lighting method under suitable conditions. The driver is always responsible for manually switching between high beams and low beams when traffic conditions and environmental conditions require it.

- **Intelligent high beam may not correctly identify all driving environments and may not function properly in some environments.**
- **If the smart forward camera is obscured by dirt, stickers, ice, snow, etc., the intelligent high beam may be unavailable.**

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WARNING

- **Modifying the vehicle lighting system (e.g., modifying the headlights) may also lead to degraded intelligent high beam performance or unavailable functionality.**
- **When encountering non-motorized vehicles such as bicycles and electric bicycles, or pedestrians, the intelligent high beam system should be turned off promptly to prevent dazzling them.**

5.4.8 Millimeter Wave Radar and Smart Forward Camera

Millimeter Wave Radar

The millimeter-wave radar sensor is installed in the middle of the front bumper grille and is used to monitor traffic conditions, detecting vehicles ahead within a certain range of the vehicle.

The radar sensor must be adjusted and calibrated in the following situations:

- The mounting bracket of the millimeter-wave radar sensor has been removed and installed.
- The millimeter-wave radar sensor has been removed and installed.
- Toe-in or rear wheel camber has been adjusted during a four-wheel alignment.
- After a vehicle collision.

Tip

- The adjustment and calibration of the millimeter-wave radar sensor require specific special tools and equipment. To adjust and calibrate the millimeter-wave radar sensor, you must visit a GAC Service Center to have the work performed.
- If the millimeter-wave radar sensor fails or is misaligned, it may affect the functionality of systems such as Adaptive Cruise Control, Integrated Cruise Assist, and Forward Collision Mitigation.

Millimeter-wave Radar Sensor Special Instructions

The millimeter-wave radar sensor is installed at the front of the vehicle. No other obstacles are allowed within the detection range of the millimeter-wave radar sensor. When installing the front license plate, do not install license plate frames or other obstacles. Otherwise, it will affect the detection performance of the millimeter-wave radar sensor, potentially causing related driver assistance functions to not work properly.

CAUTION

- If the millimeter-wave radar sensor is dirty, obstructed by a license plate frame, or covered by heavy rain, ice, snow, mud, etc., related functions of the millimeter-wave radar sensor may not work, and the instrument cluster will display related function disabled or fault prompts. The functions will return to normal after cleaning the dirt.
- When there are strong reflections of the radar's ultrasonic waves (e.g., in a parking garage), the performance of related functions may be affected.
- Stickers, driving assistance lights, license plate frames, or other similar objects are forbidden to cover or block the front and surroundings of the millimeter wave radar, otherwise, it may affect the related functions of the millimeter wave radar.
- It is recommended to use a brush to remove snow from the sensor surface; it is recommended to use non-dissolving de-icing spray to remove ice from the sensor surface.

CAUTION

- Repairs to the front body of the vehicle may cause a change in the direction of the radar sensor, affecting functions related to the millimeter wave radar (Adaptive Cruise Control / Integrated Cruise Assist system / Forward Collision Mitigation system). Therefore, please visit a GAC Service Center for repair promptly.
- If the millimeter-wave radar sensor is damaged or its alignment has changed, please disable related functions (Adaptive Cruise Control/Integrated Cruise Assist System/Forward Collision Mitigation System, etc.) and visit a GAC Service Center promptly to have the sensor recalibrated.
- The direction of the millimeter-wave radar sensor may change due to vibration, for example, if the area near the front bumper radar bumps into a curb/flowerbed. Changes in the sensor's direction may affect the performance of radar-related functions or even cause the system to shut down abnormally.

Smart Forward Camera

A front camera is installed in the upper part of the front windshield to detect the surrounding environment. It can detect pedestrians without obstruction up to a maximum distance of 80m (under ideal lighting and environmental conditions). The minimum detection height for pedestrians by the front camera is 0.8m. The front camera sensor must be calibrated in the following cases:

- The front windshield or camera bracket has been removed and replaced.
- The intelligent forward-facing camera sensor has been removed and replaced.

i Tip

If only the smart forward camera fails, the Adaptive Cruise Control system, Integrated Cruise Assist system, Lane Departure Warning system, Forward Collision Mitigation system, and Smart High Beam system will all become inoperative.

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Tip

- Calibration of the intelligent forward-facing camera sensor requires specific, specialized tools and equipment. It is recommended to visit a GAC Service Center to have the intelligent forward-facing camera sensor calibrated.
- If the intelligent forward-facing camera sensor fails, is misaligned, or is obstructed, it may affect the normal operation of functions such as Adaptive Cruise Control, Integrated Cruise Assist, Forward Collision Mitigation, Lane Departure System, and Intelligent High Beam System.

CAUTION

Poor lighting conditions, nighttime, backlighting, heavy rain, water spray, ice, snow, or mud can affect the intelligent forward-facing camera, leading to interruption or reduced performance of systems like Forward Collision Mitigation, Integrated Cruise Assist, Adaptive Cruise Control, Active Brake Assist, Lane Departure System, and Intelligent High Beam System. In severe cases, these functions may be completely disabled, and the instrument panel will display intelligent driving assistance warnings such as "Forward Radar Blocked," "Forward Camera Vision Obstructed," "Please Check Lane Departure Assist System," "Please Check Cruise System," or "Please Check Forward Collision Mitigation System."

CAUTION

The field of view of the intelligent forward-facing camera can be obstructed by dust, deposits, water mist, ice, snow, or mud on the windshield. In these situations, functions such as the Lane Departure System, Forward Collision Mitigation System, Adaptive Cruise Control System, Integrated Cruise Assist System, and Intelligent High Beam System will be disabled. If this occurs, please wipe the area of the windshield near the camera clean or use the A/C defrost/defog function. The functions will return to normal after the obstruction is cleared.

CAUTION

- If the interference factors for the smart forward camera disappear, the pedestrian detection system function will resume normal operation.
- Sunset or low light at night may affect pedestrian detection function. The field of view around the smart forward camera must not be blocked by stickers or opaque objects, as this may cause the pedestrian detection function to malfunction.
- Before driving the vehicle, please confirm that the area around the smart forward camera is not obstructed.
- Keep the field of view of the intelligent forward-facing camera sensor on the windshield clear.

5.4.9 Tire Pressure Monitoring System

The Tire Pressure Monitoring System (TPMS) monitors tire pressure and temperature information and displays the current data on the instrument cluster. The instrument cluster will display a warning message when abnormal conditions such as low pressure, high pressure, rapid air leak, or high temperature are detected in a tire.

If the vehicle has been stationary for more than 7 days or the battery has been disconnected, the pressure and temperature values displayed on the instrument cluster will be "—" when the vehicle power is in the "ON" position. After the vehicle travels at a speed exceeding 25km/h for a few minutes, the current tire pressure and temperature values will be displayed on the instrument cluster.

Alarm Description

- If the tire pressure value is higher than 330kPa, the TPMS indicator light illuminates, and the instrument cluster display shows a text alarm indicating high tire pressure for that tire; when the tire pressure value drops below 300kPa, the fault is cleared, and the TPMS fault light turns off.
- If the tire pressure value is lower than 75% of the normal set value, the TPMS indicator light illuminates, and the instrument cluster display shows a text alarm indicating low tire pressure for that tire; when the tire pressure (cold tire pressure) is inflated to the normal set value, the fault is cleared, and the TPMS fault light turns off.
- If the tire pressure value continuously decreases by more than 30kPa/min, the TPMS indicator light illuminates, and the instrument cluster display shows a text alarm indicating tire leakage for that tire; when the vehicle power is re-powered, the fault is cleared, and the TPMS fault light turns off.
- If the tire temperature value is higher than 85°C, the TPMS indicator light illuminates, and the instrument cluster display shows a text alarm indicating high tire temperature for that tire; when the tire temperature drops to 80°C, the fault is cleared, and the TPMS fault light turns off.

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CAUTION

If you replace a TPMS sensor inside a tire or rotate the tires, as long as the correct TPMS sensors for this model are properly installed, you do not need to visit an authorized service center for recalibration. The TPMS will automatically complete the learning and calibration process over the next few driving cycles.

Tip

If you install the spare tire or have a new tire installed elsewhere, the low tire pressure warning will not go away while driving because the TPMS sensor is missing. Do not misinterpret this as an actual low pressure issue.

5.5 Parking Assist System

5.5.1 Reverse Parking Radar System

The reverse radar system uses radar sensors to send and receive ultrasonic waves reflected from obstacles, calculating the distance between the vehicle and the obstacle.

Enable and Disable

- When the vehicle releases the electronic parking brake and the shift lever is engaged in "R" gear, and the reverse speed is less than 10km/h, the reverse radar system begins to work.
- When the vehicle speed is greater than 12km/h or the shift lever is moved out of "R" gear, and the electronic parking brake is applied, the reverse radar system stops working.

Dynamic Indication Icons

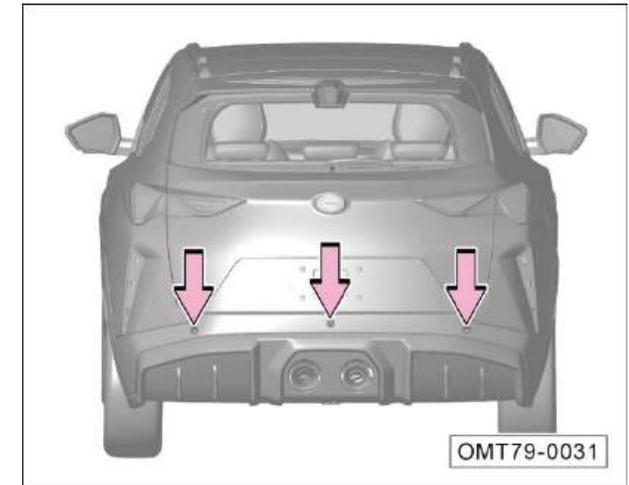


The dynamic indication icons appearing on the display screen indicate the current distance between the vehicle and obstacles. In the diagram, the outermost layer of the vehicle is a green line, gradually transitioning inwards to yellow, orange, and red lines. As an obstacle approaches the vehicle, the color lines will gradually change from the outermost layer inwards.

The changes in this dynamic schematic icon are synchronized with the changes in the distance-based warning sounds.

Radar Sensor Distribution

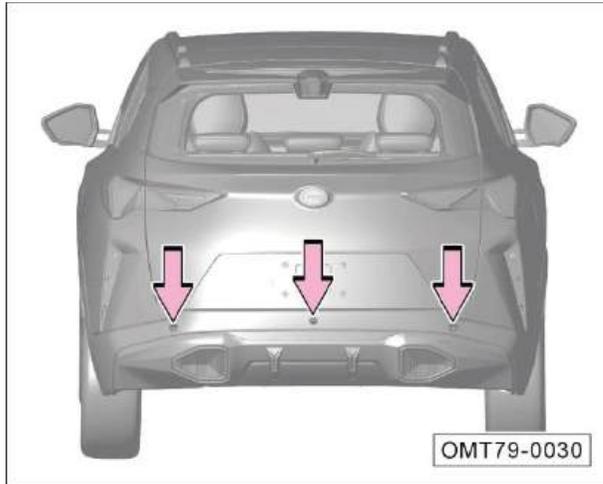
Type One



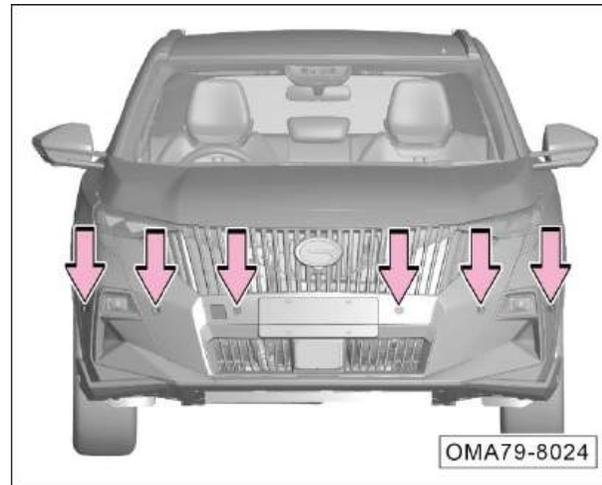
The radar sensors are installed on the rear bumper cover (for models with rear radar).

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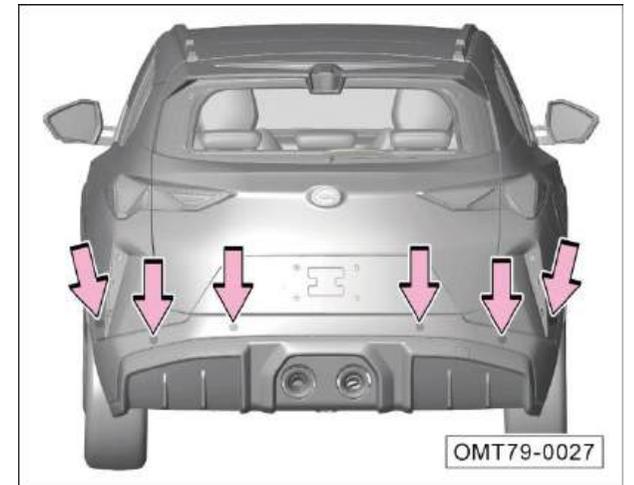
Type Two



The radar sensors are installed on the rear bumper cover (for models with rear radar).



The radar sensors are installed on the front bumper cover (for models with front and rear radar).



The radar sensors are installed on the rear bumper cover (for models with front and rear radar).

 CAUTION

- Always keep the surface of the radar sensor clean and do not cover the radar sensor.
- To ensure the functionality of the radar sensor, keep it clean and avoid icing.
- When cleaning the surface of the radar sensor, use a soft, damp cloth to avoid scratching the surface.

 WARNING

- **The reverse parking radar system cannot replace the driver's observation of the surrounding environment. The driver should concentrate and reverse safely according to actual conditions.**
- **Radar sensors have blind spots when detecting obstacles. When reversing, the driver must pay attention and observe to avoid accidents.**
- **In narrow spaces or when reversing uphill, the radar sensor may not detect railings, trees, or sloped surfaces. This is a normal phenomenon.**
- **At higher reversing speeds, the accuracy of radar sensor detection decreases. It is recommended that reversing speed does not exceed 10km/h. When the reverse radar system continuously emits an alarm sound, the vehicle is extremely close to an obstacle. Reverse immediately to prevent accidents.**

 WARNING

- **When cleaning the radar sensor with a high-pressure washer, it should be short and gentle, and the nozzle should be kept at a distance of at least 30cm from the sensor.**
- **If water droplets adhere to the surface of the radar sensor, the sensitivity of the sensor will decrease. Wiping off the water droplets adhering to the sensor will restore its sensitivity.**
- **The surface of certain objects cannot reflect the signals emitted by the radar sensor, causing the radar sensor to fail to detect such objects or people wearing such clothing.**
- **External noise sources may interfere with the radar sensor, causing it to fail to detect objects.**
- **Radar sensors are precision components; do not disassemble or repair them without authorization. The company will not be liable for damages caused by unauthorized disassembly or repair.**

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5.5.2 Rearview Camera System*

The rearview camera system provides a wide-angle video feed, displaying a broad view of the area behind the vehicle on the infotainment screen. This allows the driver to be aware of various complex conditions behind the vehicle, improving safety while reversing.

Enable and Disable

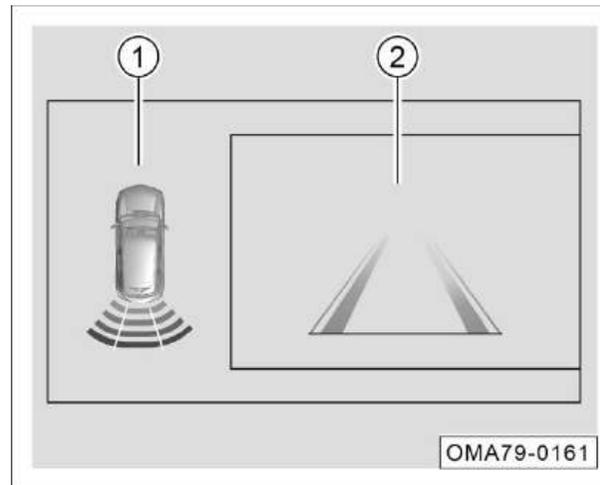
With the vehicle's power in the "ON" position, when you shift into "R" gear, the rearview camera system automatically activates. The infotainment screen will begin to display the camera feed from the rear and will show distance reference lines on the image.

When you shift out of "R" gear, the rearview camera system automatically deactivates, and the infotainment screen will exit the reverse camera display.

WARNING

The reverse radar system cannot replace the driver's observation of the surrounding environment. The driver should remain focused and reverse safely according to actual conditions.

Dynamic Trajectory Lines



The display shows the wheel track and the vehicle's travel path:

- ① Parking Sensor Display Area
- ② Rearview Image Display Area

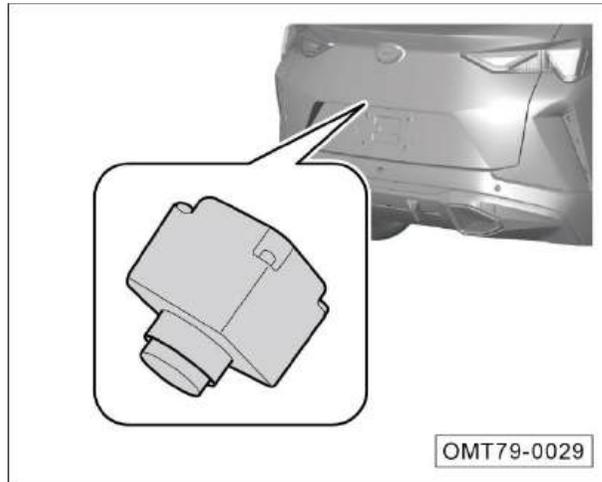
CAUTION

The trajectory lines shown are reference distances tested on level ground and are intended only as a visual guide for judging distance. These distances are not accurate on a slope.

Tip

- The vertical lines on either side of the distance reference lines can be used as a guide to judge the required width of a parking space when reversing or parking.
- The distance reference lines will adjust continuously as you turn the steering wheel.

Rearview Camera



The rear view camera is installed next to the license plate light.

⚠ WARNING

- **The rearview camera has blind spots. It may not detect small children or pets. You must be especially careful of small children or pets in the surrounding area when reversing.**
- **The rearview camera may also not detect tall, upright objects, such as the edge of a wall.**

👁 CAUTION

- Always keep the rearview camera lens clean. When cleaning the rearview camera, use a soft, damp cloth to avoid scratching the lens.
- Do not use a high-pressure washer to clean the rearview camera for an extended period, and maintain a distance of at least 30 cm from the camera while washing.
- Do not cover the rearview camera.

Rearview Camera System Malfunction

With the vehicle's power "ON," if you shift into "R" and there is a malfunction in the rearview camera system or parking sensors, the infotainment system will display "Parking Assist System Malfunction. Please Check!"

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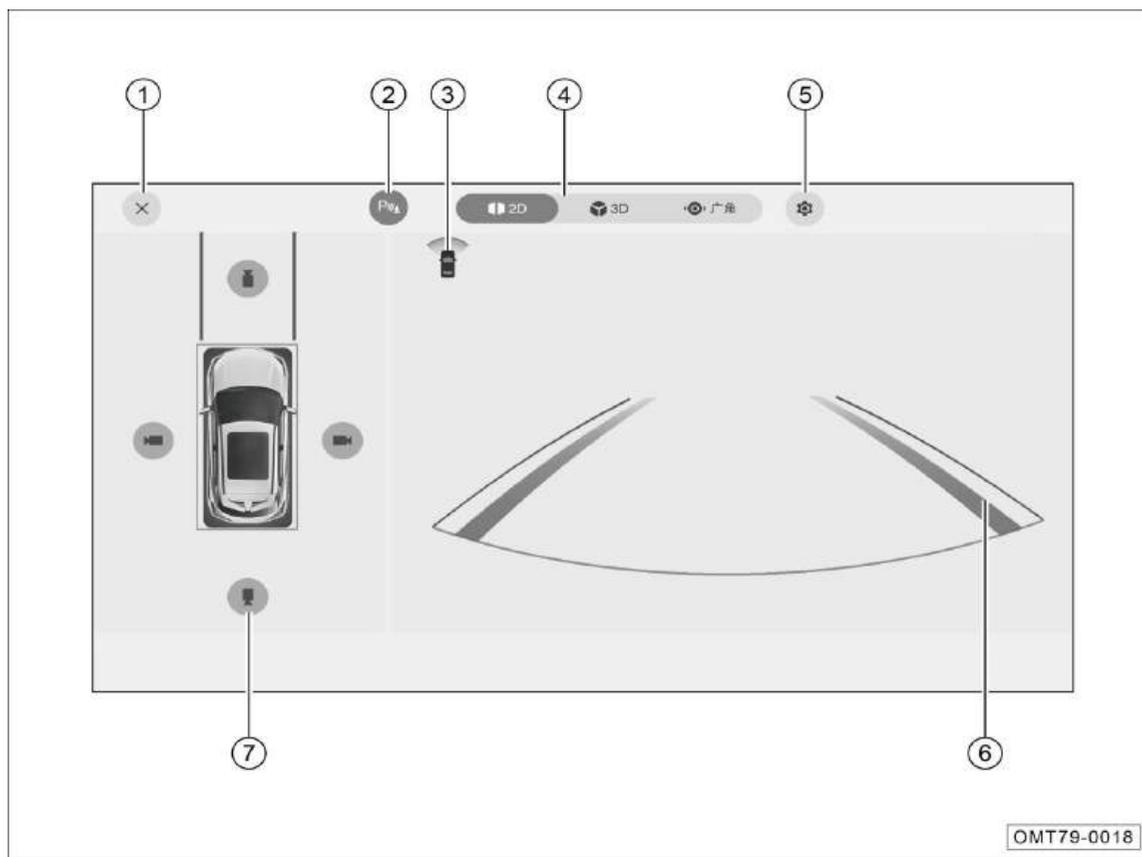
5.5.3 Panoramic Parking System

The panoramic parking system collects images from the front, rear, left, and right directions of the vehicle and stitches them together to form a 360° bird's-eye view of the vehicle's surroundings. This view is displayed on the audio system's display screen, providing the driver with information about the vehicle's surrounding environment and reducing blind spots during driving. It can also predict the vehicle's trajectory by combining parameters like steering wheel angle and vehicle dimensions, overlaying it on the panoramic image. This allows the driver to fully understand the vehicle's direction of travel and judge whether it is safe to park or drive at low speeds.

Enable and Disable

1. The panoramic parking system can be turned on and off via the gear lever when the vehicle power is in the "ON" position:
 - When shifting into "R" gear, the panoramic parking system automatically activates.
 - When the gear is shifted out of "R" and the driver performs no relevant operations, the panoramic parking system will default to displaying for approximately 30 seconds before automatically exiting.
2. The panoramic parking system can be enabled and disabled via buttons. When the vehicle power is in the "ON" position:
 - Tap the  icon in the infotainment system's menu bar to enter the application menu, then tap the "Panoramic View" icon to activate the panoramic parking system. On the panoramic view screen, tap the "x" soft key to exit.
 - When the custom steering wheel button* is set to "One-touch 360 Panoramic View," briefly press the  button to activate the panoramic parking system.
3. Enabled and disabled via the "Left/Right Turn Signal Lever". When the vehicle power is in the "ON" position:
 - Move the "Left/Right Turn Signal Lever" to the "Left Turn" or "Right Turn" position, and the panoramic parking system will enable; move the "Left/Right Turn Signal Lever" to the "Middle" position, and the panoramic parking system will automatically disable.
 - This function can be set to "On" or "Off" in the "Settings" item of the panoramic interface.
4. Automatic activation and deactivation when "Radar Detects Obstacle." When the vehicle power is in the "ON" position:
 - The panoramic parking system activates automatically when the front radar detects an obstacle. It deactivates automatically when the obstacle is no longer detected.
 - This function can be set to "On" or "Off" in the "Settings" item of the panoramic interface.
 - This function is only available on models equipped with front radar.

Interface Description



- ① Exit
- ② Radar Alert Sound Switch Soft Button
- ③ View Switch Soft Key
- ④ 2D/3D/Wide-angle View Switch (only for models with 3D and wide-angle functions)
- ⑤ Settings
- ⑥ Trajectory Lines
- ⑦ Current View Direction

i Tip

The panoramic display interface and functions will vary between different model configurations. Please refer to the actual vehicle.

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Panoramic Parking System Settings

1. Trajectory Lines
 - When the trajectory line switch is on, trajectory lines are displayed in both the top view and 2D view. When the trajectory line switch is off, trajectory lines are not displayed in either the top view or 2D view.
 - This function can be set to "On" or "Off" in the "Settings" option on the panoramic interface.
2. Transparent Chassis*
 - A transparent top-down view can be displayed after the vehicle starts moving.
 - This function can be set to "On" or "Off" in the "Settings" option on the panoramic interface (there may be differences under multiple panoramic display conditions, subject to the actual vehicle).
3. P-gear Exit
 - If the P-gear exit switch is set to "Immediately", the panoramic display interface exits immediately after the gear is shifted to P-gear; if the P-gear exit switch is set to "After 30 seconds", the panoramic display interface exits 30 seconds after the gear is shifted to P-gear.
 - This feature can be set to "Immediately" or "After 30 seconds" in the "Settings" of the panoramic view interface (settings may vary under different panoramic display conditions; please refer to the actual vehicle).

Tip

- When the panoramic parking system is activated, the audio system begins to display images captured around the vehicle, along with auxiliary lines and radar prompt information on the screen.
- If the audio system is not fully turned on, the system cannot be used normally.

Tip

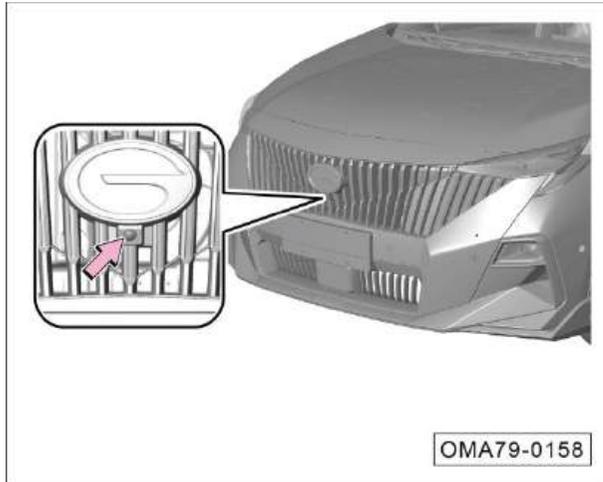
- When the shift lever is in the "R" (Reverse) position, the image display area defaults to a 2D rear single view.
- When the shift lever is in a non-"R" position, the image display area defaults to a 2D front single view.
- The 2D and 3D display modes have a memory function (except for the default 2D rear view in R gear). If the last mode used before exiting was 2D, the system will default to the 2D display the next time it is activated.
- Message pop-ups are only displayed when there is a message, and not at other times.

Tip

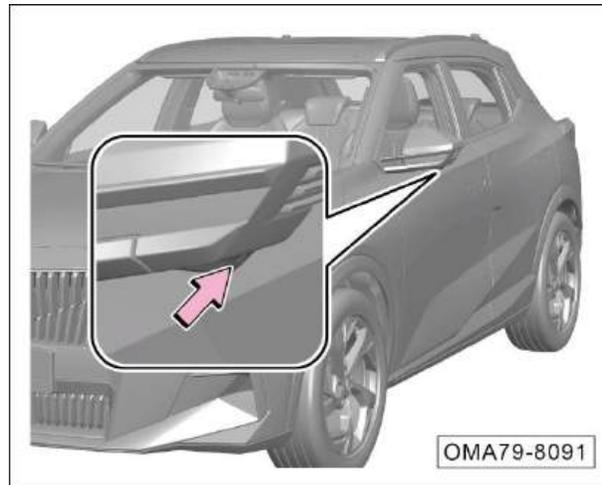
- When the radar alert sound switch* is illuminated, the radar will provide audible alerts. When it is grayed out, it will not (the radar alert sound switch* only appears when the radar is alerting and is hidden when the radar is silent).
- In the wide-angle interface, different camera views can be seen: "Front Wide Angle", "Rear Wide Angle", "Front Wheel", "Rear Wheel".
- The display interface of the panoramic parking system varies depending on the vehicle configuration, subject to the actual vehicle.
- When the left turn signal is on, the image display area switches to a 2D/3D left-side single view. When the right turn signal is on, it switches to a 2D/3D right-side single view.
- You can manually switch the viewing angle using the "View Switch" soft key, and the image display area will show the corresponding view.

5. Driving Guide

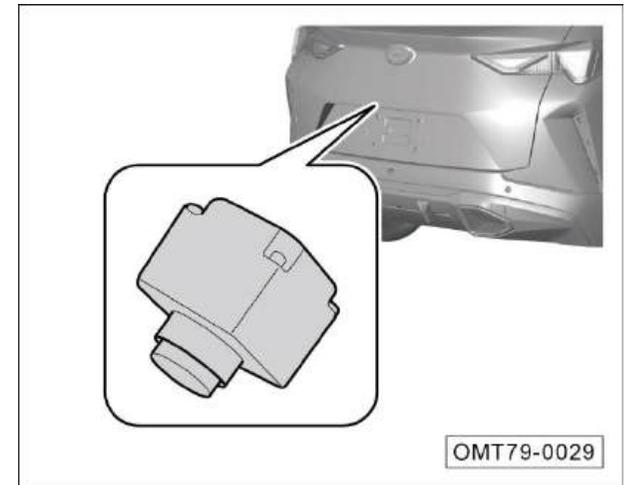
Camera Distribution



The front camera is installed below the front emblem.



The left/right cameras are installed on the left/right exterior rearview mirrors, respectively.



The rear view camera is installed next to the license plate light.

i Tip

To ensure normal camera operation:

- Please keep the camera surface clean, free from ice, snow, standing water, dust, and other foreign objects.
- If you find any foreign matter on the camera lens, please wipe it with a soft cloth or clean it with water (low pressure), maintaining a distance of at least 30 cm from the camera while cleaning.
- Do not use high-pressure washers directly on the camera, and do not use abrasive or sharp objects to clean the camera.

CAUTION

Function Limitations:

- When the camera is not working properly, functions that rely on the camera for recognition information will be limited, and the camera's recognition range is limited, unable to recognize targets beyond its recognition limits.
- When external environmental conditions are poor, leading to an unclear camera view, the camera's recognition ability will be affected.

CAUTION

The following situations can cause the camera to fail to recognize a target, or to have delayed or incorrect recognition:

- Poor lighting conditions (dim, low light) or poor visibility (due to heavy rain, heavy snow, thick fog, etc.).
- The camera is facing directly towards a light source or insufficient light intensity.
- Rapid changes in light (e.g., entering or exiting a tunnel).
- Weather conditions (heavy rain, snow, fog, extreme heat or cold temperatures) interfering with camera operation.
- The camera surface is covered with ice, snow, frost, rain mist, standing water, dust, or other foreign objects.
- Uneven roads causing the vehicle to bump or shake.
- The camera's field of view is obstructed.

The examples, warnings, and limitations listed above do not cover all situations that may affect the normal operation of the camera sensors.

5. Driving Guide

WARNING

- **The camera is for assistance only. The camera cannot function perfectly in all driving situations or traffic, weather, and road conditions. When the vehicle is in a complex or poor environment, drive cautiously and always be responsible for driving safety.**
- **Front and rear license plates should not have license plate frames or other objects installed, to avoid interference with sensors such as cameras and radar.**

WARNING

Do not privately replace, modify, or install cameras. Only use original or approved cameras from GAC International Co., Ltd. Otherwise, related functions may not work properly. GAC International Co., Ltd. assumes no liability for any direct or indirect losses resulting from this.

5.5.4 Fusion Parking System*

The Fusion Parking System can automatically search for parking space information on the left/right side of the vehicle and detect surrounding vehicles, pedestrians, obstacles, etc.

After the user activates Fusion Parking, the system can automatically plan and calculate a parking trajectory, while controlling the vehicle's steering, speed, and gear to automatically park into or out of a parking space.

WARNING

- **This system only provides driver assistance and cannot replace the driver for parking. The driver remains fully responsible for safe driving.**
- **Please ensure you use this system in compliance with all traffic laws and regulations.**
- **When using this system, please find a legal, suitable, and safe parking location.**

⚠ WARNING

- **This system may not always detect objects in the parking space. Always visually check to confirm that the parking space is suitable and safe.**
- **This system cannot always detect vehicles, pedestrians, and obstacles, etc. There is also a risk that the system cannot brake in time for suddenly intruding vehicles, pedestrians, and other moving objects. Therefore, while using this system, the driver should always pay attention to the vehicle's surroundings and be ready to take control at any time to ensure safe driving.**

⚠ WARNING

- **There are detection blind spots around the vehicle, especially on the sides. If an obstacle enters a blind spot, the system cannot detect it. The driver must actively observe and be ready to take control of the vehicle immediately if there is a risk of collision.**
- **When using this system, the driver should pay attention to changes in the vehicle's trajectory to avoid collisions with pedestrians, etc.**

System Limitations

The Fusion Parking System may pose a safety risk or be unable to operate normally in situations including, but not limited to, the following:

- Narrow parking spaces.
- Undetectable obstacles in the parking space and parking area: objects that do not reflect ultrasonic sensor signals well, or objects outside the visual and radar detection range, such as small animals, thin poles, sharp objects, hollow objects, mesh objects, strip-like or sheet-like objects, overhanging objects, and low-lying objects like parking locks.
- Road slope greater than 10°.
- The parking area has large puddles of water or other reflective surfaces like mirrors.
- The driving lane is narrow, or the parking area has insufficient space.
- Poor visibility (e.g., at night, in heavy rain, heavy snow, or dense fog).
- The system may not detect low curbs.

5. Driving Guide

- Ultrasonic sensors or panoramic cameras are dirty or obstructed (e.g., covered with mud or ice/snow).
- Radar sensors or camera installation positions do not match the design state.
- Weather conditions (e.g., heavy rain, snow, fog, extreme heat, or extreme cold temperatures, etc.) interfering with the operation of ultrasonic radar and panoramic cameras.
- The sensors are affected by other electrical equipment or devices that generate ultrasound.
- Tire pressure is too high or too low.
- The system may not recognize the parking space if the lines are unclear, the corners of the lines are unclear, or the color contrast between the lines and the ground is low.
- The parking lines are too thin, or the corners are irregularly shaped.
- The system may misidentify a space as available if there is a vehicle/other obstacle positioned far inside the space.
- There are potholes in the parking area, such as uncovered manholes, drains, or ditches.
- Unauthorized disassembly or modification of the vehicle.
- The vehicle is equipped with snow chains or is using the spare tire.
- Vehicle installed with a tow hook, or vehicle loaded with items exceeding vehicle dimensions.
- Note: The limitations listed above are not exhaustive.

Tip

Troubleshooting Malfunctions/Interruptions:

- After a malfunction or interruption, you can normally re-enter and use the Fusion Parking System.
- In some cases, the vehicle may need to be turned off and restarted. If you still cannot enter the Fusion Parking System after restarting the vehicle and allowing its systems to cool, please visit a GAC Service Center for inspection.

CAUTION

- After parking begins, do not interfere with the steering wheel or gear shift lever, or the Fusion Parking System will disengage.
- During system activation, please follow the on-screen prompts on the center display to perform parking operations.
- The system cannot search for parking spaces correctly at speeds above 25 km/h.
- This system may not always be able to find a parking space or successfully complete the parking maneuver. If it fails to find a space or park successfully, you can restart the system and try again.
- Due to factors affecting control accuracy such as mechanical clearance and tire pressure differences in the vehicle, there will be some error in the final position of each parking in/out.

Activating the Fusion Parking System

Method 1:

- After starting the vehicle, tap the "Smart Parking" soft key in the infotainment system's application menu to activate the Fusion Parking System.

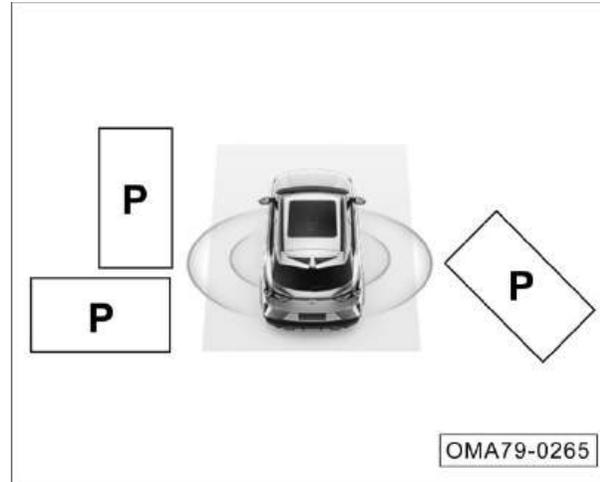
Method 2:

- After starting the vehicle, when the panoramic parking system is active, tap the  icon on the panoramic parking interface to activate the Fusion Parking System (the icon will flash and highlight when a space is found in the background).

Method 3:

- After starting the vehicle, when the system finds a parking space in the background, it will push the  icon to the infotainment system's status bar. Tap the  icon to activate the Fusion Parking System.

Searching for a Parking Space



Keep the side of your vehicle between 0.5 and 2 meters from the parking spaces and maintain a speed no higher than 25 km/h. The Fusion Parking System will automatically search for spaces.

Alternatively, you can activate the Fusion Parking System first and then search for a space according to the system prompts.

The Fusion Parking System can search for perpendicular, parallel, and angled parking spaces.

Selecting Park-out Direction

The auto park-out function can only be activated from a parallel parking space when the vehicle is stationary and in P gear.

For the auto park-out function, you can select the exit direction by tapping the arrow on the parking system interface or by using the turn signal stalk.

Tip

- The Fusion Parking System includes auto park-in and auto park-out functions. The system automatically determines which function to activate.
- Due to system limitations, the Fusion Parking System may not always find the correct parking space. If it fails to find a space or finds an incorrect one, you can restart the system and try again.
- The Fusion Parking System requires a parallel space length of $\geq 5.4\text{m}$ and a perpendicular space width of $\geq 3\text{m}$.

5. Driving Guide

Tip

- When searching for a space, the distance between the vehicle and the space should be maintained between 0.5 and 2 m.
- When searching for a parking space, try to keep the vehicle's forward direction parallel to the parking space boundary line and keep the vehicle straight.

Deactivating the Fusion Parking System

- Tapping the "x" soft key in the top-left corner of the Fusion Parking interface on the infotainment system will deactivate the system under any circumstances.

Pausing the Fusion Parking System

After the Fusion Parking System is activated, you can pause the maneuver in any of the following ways. Parking can be resumed once the pausing condition is resolved.

- Depressing the brake pedal.
- Unfastening the driver's seat belt.
- Opening a door.

Reasons for Interruption

After the Fusion Parking System is activated, the system will be interrupted and will exit in situations including, but not limited to, the following. After the system exits, you can choose to re-enable the system and try parking.

- The driver turns the steering wheel.
- The driver presses the accelerator pedal.
- The driver operates the gear shift lever or presses the P button.
- The driver operates the electronic parking brake.
- The hood is opened.
- Pause time exceeded.
- Pause limit exceeded.
- Gear shift limit during parking exceeded.
- Total parking time exceeded.
- Parking space is too confined.
- Excessive slope of the ground where the vehicle is located.
- The vehicle is stuck and cannot move.
- Systems like TCS/ABS are activated or have failed.
- System malfunction, etc.

Auto Park-in Operation Instructions

Auto Park-in:

1. After starting the vehicle, activate the Fusion Parking System. The system will automatically select a parking mode based on the current vehicle status. Follow the prompts to continue.
2. After a space is found, stop the vehicle and follow the prompts. You can switch to a different space. Then, while holding the brake, tap "Start Parking" on the screen to activate the system.
3. After the maneuver begins, follow the prompts to release the brake and the steering wheel.
4. After releasing the brake and steering wheel, wait for the parking maneuver to complete automatically. You can also manually choose to exit. During activation, the driver should pay attention to the surroundings and be ready to take control of the vehicle at any time.
5. Parking complete.

Auto Park-out Operation Instructions

Auto Park-out:

1. After starting the vehicle, activate the Fusion Parking System. The system will automatically select a parking mode based on the current vehicle status.
2. Please select a direction according to the prompts.
3. After the maneuver begins, follow the prompts to release the brake and the steering wheel.
4. After releasing the brake and steering wheel, wait for the parking maneuver to complete automatically. During activation, the driver should pay attention to the surroundings and be ready to take control of the vehicle at any time.
5. Maneuver complete. Please take control of the vehicle.

5. Driving Guide

5.6 Electric Power Steering System (EPS)

Electric Power Steering (EPS) system is a power steering system that directly relies on an electric motor to provide assist torque. It mainly consists of an integrated torque and angle sensor, an electric motor, an electric power steering control unit (ECU), and a reduction mechanism.

The Electric Power Steering Control Unit (ECU) detects driver torque input, as well as vehicle status signals such as vehicle speed and engine speed, to real-time control the motor assist torque output, providing optimal steering assist. This ensures light steering at low speeds and stable steering at high speeds, improving driving comfort and vehicle safety.

Electric Power Steering System (EPS) Indicator Light

When the vehicle power is in the "ON" position, the indicator light  illuminates. After the system completes self-diagnosis, the indicator light turns off, indicating that the electric power steering system is working normally.

If the indicator light illuminates  after starting the engine or during driving, it indicates a malfunction in the electric power steering system, and an alarm message "Please check EPS" will be displayed on the instrument cluster. If this occurs, pull over to a safe place and try restarting the engine. If the indicator light does not go out or comes on again while driving, do not continue to drive. Please contact a GAC Service Center for inspection and repair promptly.

Steering Mode

Steering modes include "Light," "Comfort," and "Sport" modes. Light mode offers lighter steering effort, Comfort mode offers moderate steering effort, and Sport mode offers heavier steering effort. The system defaults to "Light" mode. When stationary with your hands off the steering wheel, set the steering mode via the infotainment system: "Application Menu -> Driving Mode -> Current Mode Settings -> Steering Effort."

CAUTION

Do not set the steering mode while driving to prevent accidents.

5.7 Driving Skills

5.7.1 Driving Safety Check

Daily Check

- Check tire pressure, and whether tires have cuts, bulges, damage, or excessive wear.
- Check if wheel bolts are missing or loose.
- Check if headlights, brake lights, taillights, turn signals, and other lights are working properly; check the headlight beam direction.
- Check seat belts for wear or damage; after wearing the seat belt, check if it latches securely.
- Check if pedals have sufficient free travel.
- Check if coolant level, engine oil level, brake fluid level, and windshield washer fluid are normal.
- Check battery terminals for corrosion or looseness, and housing for cracks or swelling deformation.
- Check for fuel, oil, water, or other fluid leaks under the vehicle; dripping water after using the air conditioning is normal.

After Starting / While Driving

- Observe if the instrument cluster is working normally; check for indicator lights or alarm messages, etc.
- Check if all controls (such as light combination switch, wiper combination switch, defroster, etc.) are working properly.
- On a safe road, check and confirm that the vehicle does not deviate to either side when braking.
- For any other abnormal phenomena, check if parts are loose or leaking, and listen for abnormal noises.

5.7.2 Break-in Driving

To ensure the service life of the vehicle, it must undergo a break-in period during its initial use before it can be put into normal operation. When your vehicle is in the break-in period, please follow these regulations:

- The break-in mileage is 1500km.
- Choose good roads and drive with reduced load and limited speed.
- Do not start with wide-open throttle or accelerate sharply.
- Avoid emergency braking within the first 300km.
- Strictly adhere to operating procedures and maintain the engine's normal operating temperature. Do not change engine oil before the scheduled maintenance.
- Diligently perform daily vehicle maintenance, frequently inspect and tighten external bolts and nuts, pay attention to sounds and temperature changes of various assemblies during operation, and adjust promptly.

5. Driving Guide

Engine Break-in

A new engine must be broken in for 1500km. Do not perform the following operations within the first 1000km of vehicle mileage:

- Do not exceed 3/4 of the maximum vehicle speed.
- Do not drive at full throttle.
- Avoid high engine RPM.
- Do not tow a trailer.

For vehicle mileage between 1000km and 1500km, gradually increase engine speed and vehicle speed to the maximum permissible range.

The internal friction resistance of the engine in the initial break-in period is much greater than after break-in. All moving parts of the engine can only achieve optimal fit after break-in.

A fully broken-in engine not only extends its service life but also reduces fuel consumption.

Breaking in Tires and Brake Pads

When driving a new car within the first 500km of mileage, drive at a moderate speed to properly break in the new tires.

When driving a new car within 200km to 300km of mileage, the brake pads have not yet reached their optimal friction state. Drive at low speeds and try to avoid emergency braking.

WARNING

- **Unbroken-in new tires and brake pads do not have optimal grip and friction. Therefore, drive cautiously within the first 500km and properly break in the tires to prevent accidents.**
- **Replaced new brake pads must also be broken in according to the above requirements.**
- **When driving the vehicle, maintain an appropriate distance from other vehicles to prevent emergency braking, as new tires and brake pads are not yet fully broken in at this point, and emergency braking can easily lead to traffic accidents.**

WARNING

- **If the brakes are wet, frozen, or the vehicle is driven on a salted road, braking effectiveness will decrease.**
- **Apply brakes according to road and traffic conditions. Do not unnecessarily press the brake pedal, which can cause the brakes to overheat, leading to extended braking distance and excessive brake wear.**
- **Never turn off the engine and allow the vehicle to coast, as the brake booster will not work, greatly increasing the braking distance and making accidents highly likely.**

5.7.3 Driving Essentials

Precautions for different road conditions:

- When driving on roads with strong crosswinds or gusts, you should slow down in advance and control the vehicle speed and steering wheel.
- Avoid driving over sharp objects or other road obstacles, as this may cause severe damage such as tire blowouts.
- When driving on bumpy or uneven roads, reduce your speed and drive slowly. Otherwise, it may scrape the undercarriage and cause vehicle damage.
- When driving downhill, reduce your speed in advance to avoid emergency braking, which can cause the braking system to overheat or wear out too quickly.
- When driving on slippery roads, be careful when accelerating or braking. Sudden acceleration or emergency braking may cause the wheels to slip.
- When driving on icy or snowy roads, drive slowly and steadily, avoiding sudden acceleration or emergency braking; install snow chains on the wheels as needed.

Precautions for driving through standing water:

1. Before driving into standing water, you must ascertain the depth of the water. The water level must not exceed the lower edge of the vehicle body.
2. If you need to wade through water, turn off the air conditioning before starting the vehicle, slow down, then lightly press the accelerator pedal and do not release it, to pass through the standing water at a stable and slow speed.
3. Never stop the vehicle in the water, nor should you reverse or turn off the engine in the water.
4. After successfully wading through the water, you must lightly press the brake pedal several times consecutively to evaporate the water on the brake discs, so that normal braking performance can be restored as soon as possible.

Tip

When the vehicle has been washed or driven through deep water, and the brake pads and discs are soaked with water, applying the brakes will significantly reduce braking effectiveness; the braking distance will be longer than normal, and the vehicle may pull to one side. The parking brake will also be unable to firmly brake the vehicle. In this situation, you should first drive at a low speed and lightly press the brake pedal continuously to remove any residual water from the brakes. After the braking performance returns to normal, then drive as usual.

Winter Driving Essentials

1. Check and confirm that the coolant is good and has antifreeze properties:
 - According to the ambient temperature, add coolant of the same model as the original vehicle to the cooling system.
 - Using improper coolant will damage the engine.

5. Driving Guide

2. Check battery and cable condition:
 - Cold weather can reduce battery energy, so the battery should be kept fully charged for winter starting.
3. Avoid car door locks freezing due to ice and snow:
 - Spray some de-icer or glycerin into the door lock holes to prevent freezing.
4. Use washer fluid containing antifreeze:
 - These products are available at GAC Service Centers.
 - The mixing ratio of water and antifreeze should be according to the manufacturer's instructions.
5. Avoid accumulation of ice and snow under the mudguards:
 - Accumulated ice and snow under the mudguards can cause steering difficulties. When driving in severe winter, you should stop frequently to check for ice and snow accumulation under the mudguards.
6. Depending on the road conditions, it is recommended to carry some necessary emergency items:
 - Snow chains, a window scraper, a bag of sand or salt, signal flares, a small shovel, jumper cables, and other items are best kept in the car.
7. In cold winter (especially in northern regions), avoid frequent short starts and shutdowns of the engine. If the engine is frequently in alternating hot and cold states, it can easily produce condensed water inside the engine. This condensed water, when adhering to the engine oil, can create the false appearance of oil emulsification, which will disappear once the engine is restarted and warmed up. Additionally, please change the engine oil regularly as required by the "Warranty and Maintenance Manual."

5.7.4 Efficient Vehicle Use

- Before driving, ensure the parking brake is fully disengaged and the parking brake indicator light is off.
- Keep tires adequately inflated. Insufficient tire pressure leads to premature tire wear and wasted fuel.
- Wheel alignment must be accurate. Otherwise, it will cause premature tire wear, increase engine load, and waste fuel.
- Do not overload the vehicle. Unnecessary items should be removed from the car. Overloading increases engine load and wastes fuel.
- Accelerate slowly and smoothly; avoid sudden acceleration.
- Try to avoid congested roads; traffic congestion wastes fuel.
- Drive in coordination with traffic signals, or maintain a safe distance from other vehicles, to avoid unnecessary stops or emergency braking. This saves fuel and reduces brake system wear.

- Do not rest your foot on the brake pedal while driving. This will cause premature wear and overheating of the brake pads and will waste fuel.
- While driving, choose good road surfaces. If driving on uneven roads, control your speed to avoid collisions or scratches.
- If the vehicle's undercarriage has too much mud or other debris, clean it promptly. This not only reduces the vehicle's weight but also prevents corrosion.
- Regularly maintain the vehicle to keep it in optimal working condition. Dirty air filters, spark plugs, engine oil, and grease, among other things, will reduce engine performance and waste fuel.
- After a cold start, drive slowly for a few minutes and allow the engine to warm up before accelerating.
- Do not open windows when driving at high speeds.
- Use air conditioning appropriately, etc.
- When parking for a long time, turn off the engine to avoid wasting fuel due to prolonged idling.

5.7.5 Fire Prevention

To prevent vehicle fires, pay attention to the following when using the vehicle:

1. Do not store flammable or explosive items inside the vehicle:
 - In hot summer, the internal temperature of a vehicle parked in direct sunlight can reach over 70°C. Storing flammable or explosive items such as lighters, cleaning agents, or perfumes inside the car can easily cause fires or even explosions.
 - Items such as lithium batteries or power banks that pose a fire risk, if left in the car after occupants leave, can also easily cause fires.
2. After smoking, ensure cigarette butts are completely extinguished:
 - If cigarette butts are not fully extinguished, they may cause a fire.
3. It is recommended to visit a GAC Service Center regularly for inspections:
 - The entire vehicle's wiring should also be regularly checked. Verify that electrical and harness connectors, insulation, and mounting positions are normal. If any issues are found, they should be addressed promptly.

4. Do not modify vehicle wiring or add electrical components without authorization:
 - Adding other electrical appliances (such as high-power audio systems) can overload the wiring, causing the wire harness to overheat and potentially leading to a fire.
 - It is strictly prohibited to use fuses that exceed the rated specifications of the appliance or to use other metal wires in place of fuses.
5. Driving precautions:
 - While driving and parking, especially in summer, always pay attention to whether there are flammable materials underneath or caught in the vehicle, such as dry grass, dead branches, leaves, wheat stalks, etc. Because components like the engine exhaust pipe become hot after long periods of driving, if there are flammable materials underneath the vehicle, they are very likely to ignite and cause a fire.
 - Do not park the vehicle in places with severe rodent infestations, such as garbage heaps. Also, do not store items that attract rodents, such as snacks, inside the vehicle, as rodents may chew through vehicle wiring, which could easily cause a fire.

5. Driving Guide

6. Always keep a portable fire extinguisher in the car and know how to use it:
 - To ensure vehicle safety, a fire extinguisher should be carried in the car and regularly checked and replaced. Also, be familiar with how to use the fire extinguisher to be prepared and avoid being helpless in case of an accident.

6.1 Maintenance Instructions

Safety Precautions

To avoid potential hazards, please read this section before starting any work and confirm that you have the necessary tools and skills.

- Ensure the vehicle is parked on level ground, the engine is off, and the parking brake is applied.
- When cleaning components, use commercially available degreasers or component cleaners, not gasoline.
- Keep lit cigarettes, sparks, and open flames away from the battery and all fuel system related components.
- When performing work related to the battery or compressed air, wear safety glasses and protective clothing.

 **WARNING**

Improper vehicle maintenance or driving the vehicle before resolving issues may cause traffic accidents, leading to serious injury or death.

Potential Vehicle Hazards

- Carbon Monoxide: The carbon monoxide in the engine's exhaust gas is toxic. Always operate the engine in a well-ventilated area.
- Burns: The engine and exhaust system generate high temperatures during operation, which can easily cause burns. Therefore, wait until the engine and exhaust system have cooled before touching components.

 **CAUTION**

This section lists some important safety precautions; we cannot list all potential hazards you may encounter during maintenance operations.

6.2 Interior Maintenance

Cleaning and Maintenance of Instrument Panel and Plastic Parts

Clean the surfaces of the instrument panel and plastic parts with a clean, soft cloth and clean water.

If they cannot be cleaned thoroughly, use a special solvent-free plastic cleaner.

 **CAUTION**

Solvent-containing cleaners can damage plastic parts.

 **WARNING**

Do not use cockpit sprays or solvent-containing cleaners on the surfaces of the dashboard and airbag components. Otherwise, it may loosen the surface and trigger the airbag, potentially causing serious injury to occupants.

6. Use and Maintenance

Cleaning and Maintenance of Carpets

Regularly vacuum dust from carpets.

Periodically wash with detergent to keep carpets clean.

CAUTION

Strictly follow the cleaning agent's instructions for cleaning.

WARNING

Do not add water to foam cleaners; keep carpets as dry as possible.

Cleaning and Maintenance of Leather*

- Vacuum to remove dust.
- Clean leather with a clean, soft cloth and clean water.
- Dry and polish with another dry, soft cloth.
- If the above cleaning is insufficient for stains, you can use a special leather soap or stain remover in conjunction.

CAUTION

If using a leather stain remover, wipe it dry with a soft, dry cloth as soon as possible.

WARNING

Never leave a soft cloth soaked with stain remover on any part of the interior for a long time. To avoid discoloration or breakage of resins or fibers in interior fabrics.

Cleaning and Maintenance of Seat Belts

- Slowly pull out the seat belt and keep it in the extended state.
- Use a soft brush and neutral soapy water to remove dirt from the seat belt.
- Wait until the seat belt is completely dry before retracting it.

CAUTION

- The seat belt must be completely dry before it can be retracted. Otherwise, it may cause damage to the seat belt retractor.
- Regularly inspect all seat belts in the vehicle to ensure they are clean and do not impede their normal function.

WARNING

- **If the seat belt webbing, connecting hardware, retractor, or buckle is damaged, you must visit a GAC Service Center for a replacement as soon as possible.**
- **Seat belts must be replaced after inspection of an accident vehicle, regardless of whether they appear damaged.**
- **Prevent foreign objects or liquids from entering the seat belt buckle, which could cause the buckle and seat belt to malfunction.**
- **Under no circumstances should seat belts be disassembled or modified without authorization.**
- **Do not use chemical cleaning agents to clean seat belts, as this may damage the seat belt webbing and affect its function.**

Cleaning and Replacement of Filters

The vehicle is equipped with air filters, air conditioning filters, oil filters, fuel filters, etc. Filters serve to filter gas or fluid. If it is too dirty or clogged, it will affect the normal operation of the corresponding system. Therefore, it is recommended to have the filter cleaned or replaced regularly at a GAC Service Center as specified in the Warranty and Maintenance Booklet.

6.3 Exterior Maintenance

Maintenance for Vehicles with Standard Paint

CAUTION

The maintenance method for matte paint finishes is special and differs greatly from that for conventional vehicles. You must pay attention to the proper maintenance methods. => See page 203

Car Wash

Regular car washes help protect the vehicle's exterior.

Washing the car should be done in a shaded area, not in direct sunlight. If the vehicle has been exposed to sunlight for a long time, wait for the exterior to cool down before washing.

When using an automatic car wash, always follow the car wash operator's instructions.

WARNING

The vehicle power must be turned off before washing.

6. Use and Maintenance

CAUTION

The strength of standard paint is sufficient to withstand automatic car washes, but you must be aware of the potential impact on the paint finish. The structure of the car wash machine, the cleaning agents used, the filtration status of the clear water, and the type of wax solvent, if not in compliance with specified requirements, may cause damage to the paint surface.

Manual Vehicle Washing

- Rinse the vehicle with plenty of water to remove loose dirt.
- Prepare a bucket of clean water with car wash specific cleaning agent mixed in.
- Gently wash the vehicle with a soft cloth, sponge, or soft brush, rinsing multiple times from top to bottom.
- Wheels, door sills, and other areas should be rinsed last, and the sponge or soft cloth should be changed during cleaning.
- After scrubbing, thoroughly rinse the vehicle with plenty of water.
- After cleaning, carefully dry the vehicle's paint surface with a soft towel or chamois leather.

CAUTION

When the car body has asphalt or other dirt, it needs to be cleaned with a special cleaner, then rinsed with clean water to avoid damaging the body's surface finish. While drying the body, check for paint chips and scratches. If any is found, you should visit a GAC Service Center for repairs.

Exercise extreme caution when using steam cleaners or high-pressure cleaners to wash the vehicle. Always follow the steam cleaner or high-pressure cleaner's instructions and requirements for cleaning, paying attention to working pressure, temperature, and spray distance:

- When using a steam cleaner or high-pressure washer to clean the vehicle, maintain a sufficient spray distance from the vehicle, and the temperature must not exceed 60°C.

- Do not spray the radar sensors or parking cameras with a high-pressure washer for extended periods; when cleaning radar sensors or parking cameras, maintain a spray distance of 30cm or more.

WARNING

- **When hand washing the car, pay attention to personal safety and beware of sharp parts at the bottom of the vehicle to avoid scratches.**
- **When cleaning, pay special attention to the underside of the vehicle and the inside of the wheel wells to avoid injuring hands and arms with sharp parts.**
- **When washing the vehicle, do not spray water directly into the front engine compartment. Otherwise, it will affect the lifespan of various components in the front engine compartment.**

Waxing

Regular waxing protects the body paint and maintains its gloss. To effectively protect the car body paint, it is recommended to apply a high-quality hard wax once a year to protect the paint from adverse external environmental erosion and resist minor mechanical scratches.

Always wax after the entire vehicle exterior is dry. Use a high-quality paint protection wax for waxing. High-quality waxes generally fall into the following two categories:

- Car Body Wax: Used to protect the paint surface from external adverse environmental damage such as sun exposure and air pollution. Generally used for new cars.
- Polishing Wax: Can restore the luster of paint surfaces that have been oxidized or lost their shine. Primarily used to restore paint luster.

Cleaning and Maintenance of Exterior Plastic Parts

Usually, cleaning with clean water and a soft cloth or soft brush is sufficient. If unable to clean thoroughly, a special solvent-free plastic cleaner approved by our company can be used.

CAUTION

Do not use cleaning materials containing solvents when cleaning plastic parts. Otherwise, plastic parts may be easily damaged.

Cleaning Windows and Rearview Mirrors

Clean window glass and rearview mirrors with an alcohol-based glass cleaner, then wipe the glass surface dry with a clean, lint-free soft cloth or chamois.

After caring for the car body surface, any wax residue on the glass should be removed using a special cleaner and cleaning cloth. To avoid scratching the wiper blades.

Use a small brush to remove snow from windows and rearview mirrors.

Use de-icing spray to remove ice. An ice scraper can also be used, but with extra care to avoid damaging components, and always scrape in the same direction.

6. Use and Maintenance

CAUTION

- Do not scrape back and forth.
- Do not use warm or hot water to remove ice and snow from the windshield and rearview mirrors. Otherwise, it may cause the glass to crack.
- If there are residual rubber, grease, or silicone-like substances on the glass, they must be removed with a special window cleaner or silicone cleaner.

Cleaning and Maintenance of Wiper Cowl

Try to avoid frequently/long-term parking under trees. If leaves or other debris are found on the top surface of the wiper cowl, clean them promptly.

Cleaning Wiper Blades

- Switch the vehicle power to the “ON” position, then switch to the “OFF” position.
- Within approximately 10 seconds, move the wiper combination switch to the MIST position, and the wiper arms will operate half a cycle before stopping.

- Lift the wiper arm and carefully wipe dust and dirt off the wiper blade with a soft cloth.
- After cleaning, gently lower the wiper arm onto the windshield.
- Switch the vehicle power to the “ON” position, and the wipers will automatically return to their home position.

CAUTION

- Be careful when lowering the wiper arm to prevent it from suddenly dropping and hitting the windshield.
- The surface of the wiper blade is coated with a layer of graphite, which allows for smooth wiping and no scraping noise. Solvent-containing cleaners, hard sponges, and sharp instruments can damage the graphite layer. Damage to the graphite layer will increase wiper scraping noise and should be replaced promptly.
- In winter or cold conditions, always check if the wiper blades are frozen to the windshield before using the wipers. If so, perform de-icing treatment first. Otherwise, it will cause damage to the wiper blades and wiper motor.

Maintenance of Sealing Strips

Regular and appropriate protection of rubber sealing strips on doors, windows, and other areas helps maintain their flexibility and extends their service life. It also improves sealing, makes doors easier to open, and reduces the impact sound when closing doors. They are also less likely to freeze in winter.

When maintaining sealing strips, use a soft cloth to remove surface dust and dirt. Regularly apply a special protective agent to rubber sealing strips.

Cleaning and Maintenance of Wheels

Regularly removing anti-skid salt and brake pad debris from wheels helps maintain their aesthetics, surface finish, and extends their service life. It is recommended to perform the following operations regularly:

- Every two weeks, remove anti-skid salt and brake pad debris from the wheels with an acid-free cleaner.
- Every three months, apply a high-quality hard wax to alloy wheels.

CAUTION

- Do not treat wheel surfaces with vehicle polishes or other abrasives.
- Wheels with damaged surface protective layers must be repaired promptly.
- Using a high-pressure washer may cause permanent visible or invisible damage to the wheels, leading to serious injury or death.
- Do not spray tires with a concentrated nozzle, as this may damage the tires and lead to traffic accidents.

6.3.1 Matte Paint Finish Maintenance and Care*

Car Wash

1. After washing the vehicle with water, gently wipe with a softer leather cloth. If dirt cannot be removed with water, the following cleaning methods are recommended:
 - Water marks, etc.: Clean with weak acid (citric acid).
 - Bird droppings, insects, oil stains: Clean with neutral detergent.
2. Do not use automatic car wash machines or high-pressure cleaners to wash the vehicle.
3. Do not use washing brushes to wash the car.

Other Precautions

- It is best to park in a covered parking lot or use a thick cotton car cover.
- If you want to fix brush marks, claw marks, footprints, etc., the entire surface needs to be repainted.
- Do not rub the painted surface forcefully.
- Do not apply stickers, tape, etc.
- Do not use wax or wrap films.
- Do not use polishing compounds.
- Do not use solvent-based degreasing cleaners.

Tip

- If the car wash method damages the paint film surface, repainting will be required.
- If you have any questions, please call a GAC Service Center.

6. Use and Maintenance

6.4 Checking and Adding Fluids

6.4.1 Fuel

As the vehicle travels and the fuel level decreases, the fuel gauge will gradually decrease.

When the fuel level is too low, the indicator light  will flash yellow, and the instrument cluster will display an alarm message. At this point, fuel should be added as soon as possible.

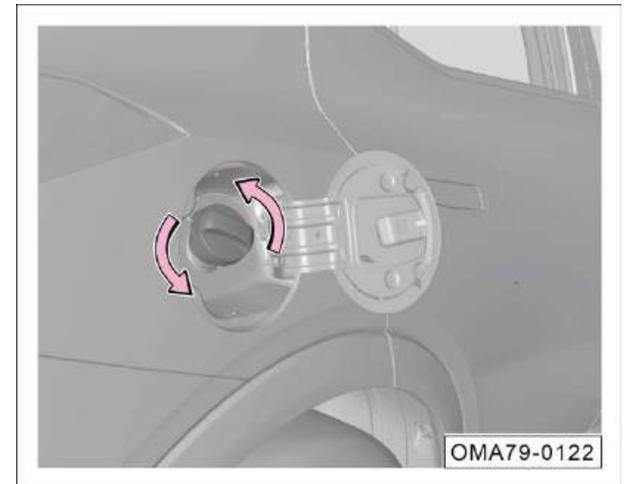
Tip

When refueling, please use the fuel grade specified on the fuel filler door.

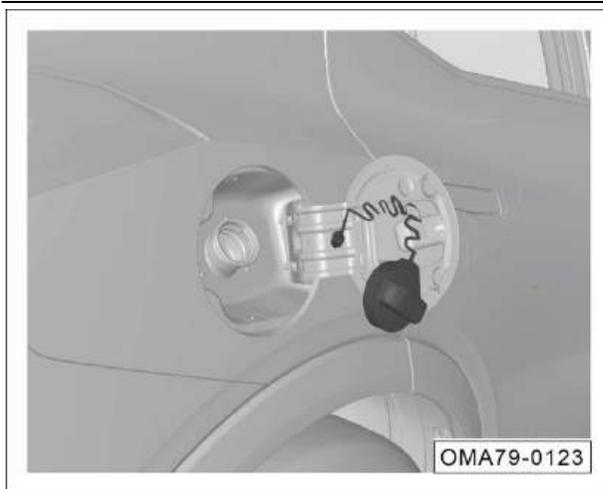
Add fuel



1. Pull the fuel filler door release handle , and the fuel filler door will spring open.



2. Fully open the fuel filler door, slowly unscrew the fuel filler cap counter-clockwise in the direction of the -arrow-. Once fully unscrewed, keep the fuel filler cap in place for a moment to allow the fuel tank to release internal fuel vapor pressure, then remove it.



3. Hang the fuel filler cap on the inside of the fuel filler door and begin adding fuel.
4. After refueling, tighten the fuel filler cap clockwise until you hear a "click" sound, indicating that the fuel filler cap is fully tightened.

Tip

This vehicle's fuel supply system is designed with a closed fuel vapor recovery system. When refueling, the fuel nozzle may "jump out" (stop prematurely) without the tank being full due to high ambient temperatures or excessively fast refueling speed. This is normal. In such cases, slow down the refueling speed.

CAUTION

- Using fuel with too low an octane rating or non-standard fuel may damage the engine or fail to meet performance requirements.
- When the fuel display is less than 1/4, to avoid the vehicle breaking down on uphill/downhill sections due to insufficient fuel supply, please refuel promptly.

CAUTION

When refueling, insert the nozzle as deep as possible into the filler pipe. When the nozzle clicks off for the first time, it is recommended not to continue refueling to avoid fuel overflow due to overfilling.

WARNING

- **At all times, the engine must be turned off when refueling, and ensure there are no open flames or ignition sources nearby.**
- **Avoid fuel contact with skin or clothing.**
- **Please refuel the vehicle with the specified fuel grade. If you accidentally add the wrong type of fuel, do not start the engine. Contact a GAC Service Center immediately for assistance.**

6. Use and Maintenance

6.4.2 Engine Oil

Function of Engine Oil

Engine oil has functions such as lubrication, sealing, cooling, rust prevention, and cleaning.

Engine Oil Specifications

The vehicle is filled with high-quality engine oil at the factory. Except in extremely cold climates, this oil can be used year-round.

When purchasing engine oil, please check if the specification on the oil's outer packaging is suitable for this vehicle's engine.

Tip

Oil Grade:

- API SN/ILSAC GF-5.

Oil Viscosity:

- SAE 0W-20.

Tip

- You must visit a GAC Service Center to have the engine oil changed according to the schedule in the Warranty and Maintenance Manual.
- If the vehicle is used under harsh conditions, or uses fuel with high sulfur content, or idles for long periods (e.g., taxis), or is driven in high-dust areas, or frequently tows a trailer, or is used in extremely cold regions, the maintenance cycle should be shortened and maintenance frequency increased.

WARNING

Always use engine oil approved by our company. Damage to the engine caused by using other specifications of engine oil is not covered by the quality warranty.

Engine Oil Pressure Warning Light

If the warning light  illuminates while driving, you must stop the vehicle in a safe place and turn off the engine. After the engine cools down, check the oil level.

If the oil level is normal but the warning light remains on after starting the engine, do not continue to run the engine. Please contact a GAC Service Center for inspection and repair promptly.

WARNING

- **Ignoring the warning light and related warnings may damage the engine.**
- **The low oil pressure warning light does not indicate the oil level; the oil level must be checked regularly.**

Checking Oil Level

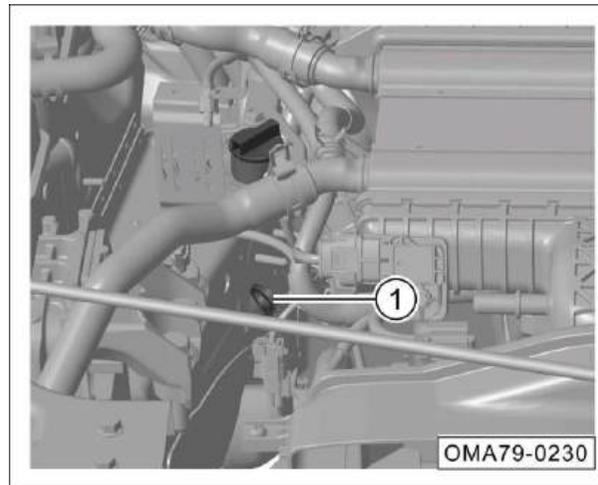
The engine oil level must be checked regularly. The vehicle should be parked on level ground with the parking brake applied, the engine turned off, and the front hood opened after the engine cools down, before checking the oil level.

i Tip

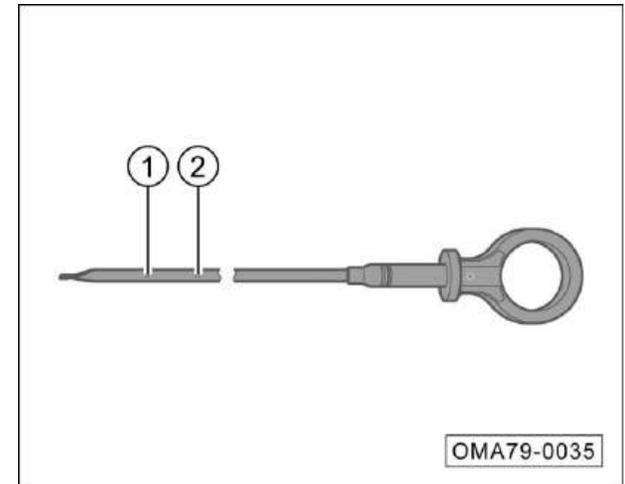
When checking the oil level, the engine should be cold.

⚠ WARNING

- **Exercise extreme caution when working in the front engine compartment.**
- **The front engine compartment is a high-risk area. Always read and comply with relevant warning instructions before opening the front engine compartment hood.**



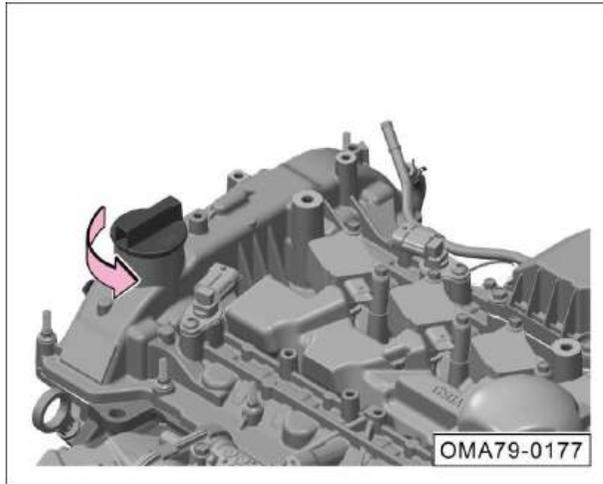
1. Pull out the oil dipstick.



2. Wipe the oil off the dipstick with a clean cloth, then reinsert it completely.
3. Pull out the oil dipstick again and read the measured oil level: The oil level should be between the minimum oil mark ① and the maximum oil mark ②.
4. If the oil is too low, add oil promptly. Insufficient oil can lead to poor lubrication and damage the engine.

6. Use and Maintenance

Adding Engine Oil



After checking the oil level, if oil needs to be added, follow these steps:

1. Unscrew the oil filler cap counter-clockwise.
2. Add oil in small amounts multiple times, checking the oil level after each addition.
3. When the oil level approaches the maximum mark ②, and the oil is sufficient, stop adding, replace the oil filler cap, and tighten it clockwise.

WARNING

- **Be very careful when adding engine oil not to spill it. If oil comes into contact with your skin, wash it off thoroughly.**
- **If you overfill the engine oil, do not start the engine. Please contact a GAC Service Center as soon as possible for assistance, as this could damage the three-way catalytic converter.**
- **After filling, the oil filler cap must be tightened to prevent oil from splashing out when the engine starts, which could cause a fire.**
- **Engine oil is a toxic substance. It should be stored in its original container, out of reach of children, to prevent accidental ingestion and poisoning.**
- **Do not add other lubricants to the engine oil, as this may damage the engine. Malfunctions caused by adding lubricants are not covered by the quality warranty.**

6.4.3 Coolant

Function of Coolant

Coolant has functions such as cooling, antifreeze, and anti-corrosion.

Coolant Specifications

The cooling system is filled with coolant at the factory. Except in extremely cold climates, this coolant can be used year-round.

Tip

- Coolant specification: DF-6, -35°C coolant.
- You must visit a GAC Service Center to have the coolant changed according to the schedule in the Warranty and Maintenance Manual.
- If the coolant becomes discolored, you should shorten the maintenance interval and visit a GAC Service Center for a replacement.

Engine Coolant Temperature Too High Indicator Light

If the coolant temperature is too high, the red indicator light  on the instrument cluster will illuminate, and a warning message will alert the driver. In this situation, you must stop in a safe place, turn off the engine, and check the coolant level after the engine has cooled down.

If the coolant level is normal but the indicator light remains on after starting the engine, do not continue to run the engine. Contact a GAC Service Center for inspection and repair promptly.

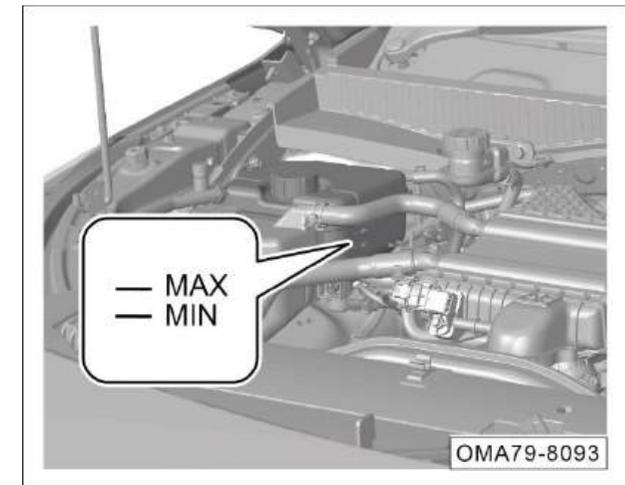
Checking Coolant Level

The coolant level must be checked regularly. The vehicle should be parked on level ground with the parking brake applied, the engine turned off, and the front hood opened after the engine cools down, before checking the coolant level.

WARNING

- **Exercise extreme caution when working in the front engine compartment.**
- **The front engine compartment is a high-risk area. Always read and comply with relevant warning instructions before opening the front engine compartment hood.**
- **If you see steam or coolant overflowing from the front engine compartment, do not open the front hood to prevent burns; wait until there is no steam or coolant overflowing and the engine has cooled down before opening the front hood.**

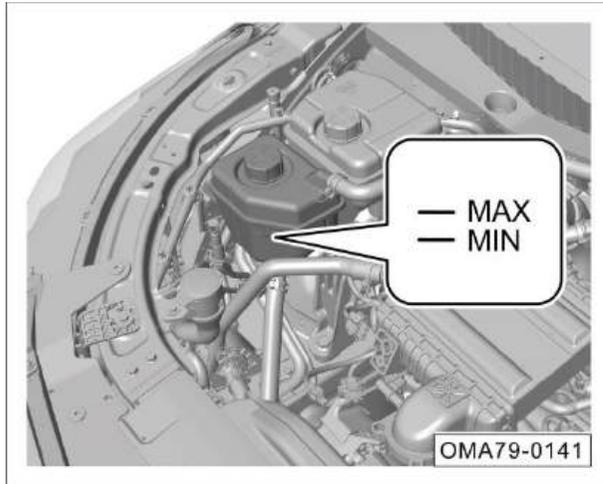
Engine Coolant



Check if the coolant level in the engine coolant expansion tank is between the "MAX" and "MIN" marks.

6. Use and Maintenance

Intercooler Coolant

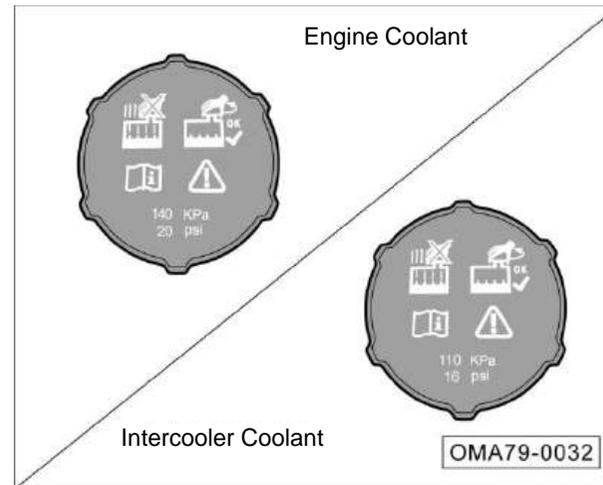


Check if the coolant level in the intercooler coolant expansion tank is between the "MAX" and "MIN" marks.

CAUTION

If the coolant level is below the "MIN" (minimum) mark, coolant must be added. An insufficient coolant level will affect cooling performance and can lead to damage to the engine or intercooler.

Adding Coolant



After checking the coolant level, if coolant needs to be added, follow these steps:

- Wrap the expansion tank cap with a thick cloth and unscrew it counter-clockwise.
- Add coolant until the level is between the "MAX" (maximum) and "MIN" (minimum) marks.
- Tighten the expansion tank cap clockwise until it locks.

CAUTION

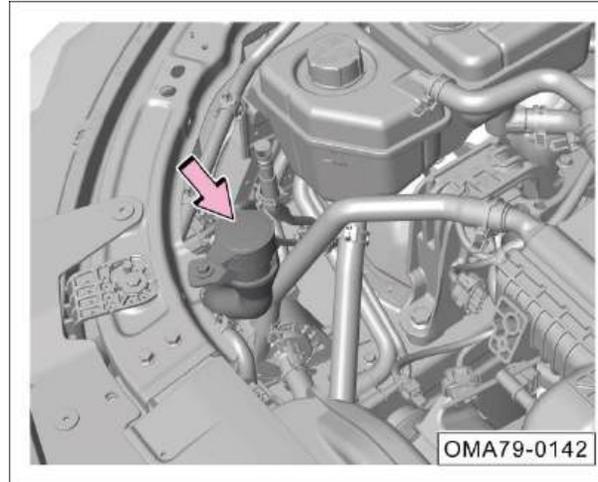
- When the engine is not cool, the cooling system is under high pressure. Do not open the coolant expansion tank cap, as you could be scalded by escaping coolant.
- Only add coolant after the engine or intercooler has cooled down. The added coolant level must not exceed the "MAX" mark, otherwise, when the engine starts and the cooling system is under high pressure, coolant will overflow.
- Only new coolant should be added.

WARNING

- It is forbidden to mix coolant not approved by the company with genuine coolant.
- In an emergency, if you have used another type of coolant or added plain water, you should visit a GAC Service Center promptly to have the cooling system flushed and refilled with new coolant.
- If you notice that the coolant is being consumed too much or too quickly, there may be a leak in the cooling system. You should visit a GAC Service Center for inspection and repair promptly.
- Coolant must be stored in its original container, out of reach of children, to prevent accidental ingestion and poisoning.

6.4.4 Windshield Washer Fluid and Wiper Blades

Adding Windshield Washer Fluid



- If the washer fluid level is too low, add washer fluid to the reservoir promptly.

CAUTION

- Do not use soapy water or other antifreeze instead of washer fluid, as this may cause streaks on the vehicle's paint finish.
- Do not mix windshield washer fluid with other washing liquids, as this may cause the washer fluid components to break down and clog the windshield washer nozzles.

6. Use and Maintenance

WARNING

- Exercise extreme caution when working in the front engine compartment. Always carefully read and comply with relevant warning instructions before starting any work.
- Never mistake coolant or any other additives for windshield washer fluid, as this may leave oily stains on the windshield when cleaning, affecting visibility and easily causing accidents.
- Do not use windshield washer fluid with an ethanol content exceeding 10%. In high-temperature environments, this type of washer fluid can corrode the light assemblies, causing them to crack. Methanol-based washer fluid is recommended.

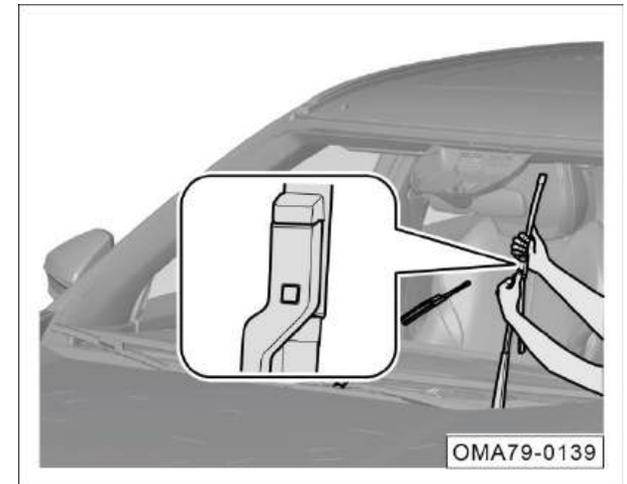
Replacing Front Windshield Wiper Blades



1. Activating Front Wiper Service Mode

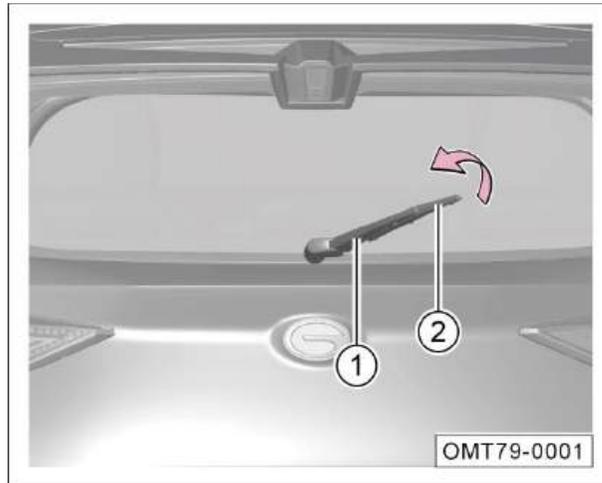
You can activate the front wiper service mode in one of two ways:

- Method 1: Switch the vehicle's power to "ON," then back to "OFF." Within 10 seconds, push the wiper combination switch to the MIST position. The wiper arms will move to the service position and stop.
- Method 2: With the wiper switch in the "OFF" position, you can activate the wiper service mode through the infotainment system's settings interface. The wiper arms will move to the service position and stop. Tapping it again will return them to their original position.



2. Lift the wiper arm, press the locking button, and remove the wiper blade.
3. Slowly lower the wiper arm.
4. Install the new wiper blade back onto the wiper arm by following the reverse steps. A "click" sound indicates correct installation.
5. Gently lower the wiper arm back onto the windshield.
6. Switch the vehicle power to the "ON" position, and the wiper arm will automatically return to its home position.

Replacing Rear Windshield Wiper Blades



1. Hold the wiper arm ① and lift it in the direction of the -arrow-.
2. Hold the wiper arm ① with your hand and pry up the wiper blade ② in the direction of the -arrow- to remove it.
3. Slowly lower the wiper arm.
4. Install the new wiper blade back onto the wiper arm by following the reverse steps. A "click" sound indicates complete installation.
5. Gently lower the wiper arm back onto the windshield.

CAUTION

- The wiper arm can only be lifted after it has been adjusted to wiper maintenance mode.
- Do not open the front hood when the wiper is lifted, as this may damage the front hood and wiper arm.
- Only new wiper blades of the same length and specification must be used.
- Be careful when lowering the wiper arm to prevent it from suddenly dropping and hitting the windshield.
- The condition of the wiper blades must be checked regularly, and wiper blades should be replaced as specified. Damaged wiper blades must be replaced promptly.
- Overworn or dirty wiper blades can easily scratch the windshield and affect visibility during use, reducing driving safety.

6.4.5 Brake Fluid

Brake Fluid Function

Brake fluid is used to transmit power in the vehicle's hydraulic braking system.

Brake fluid is hygroscopic, constantly absorbing moisture from the surrounding air during use. If brake fluid remains in the system for too long and absorbs too much water, air pockets may form in the system lines during braking, reducing braking effectiveness, affecting driving safety, and potentially leading to complete brake system failure and accidents. Therefore, you must visit a GAC Service Center to have the brake fluid level checked or the fluid replaced according to the schedule in the Warranty and Maintenance Booklet.

i Tip

Brake Fluid Specification: DOT4.

6. Use and Maintenance

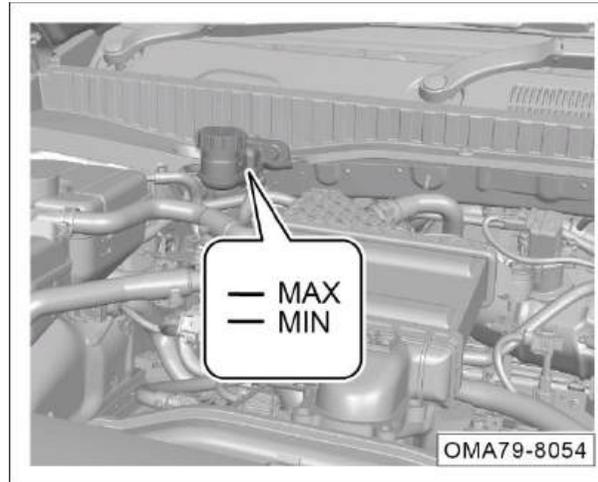
WARNING

- Using old brake fluid or brake fluid unsuitable for this vehicle will significantly reduce braking effectiveness or even lead to brake system failure! The company shall not be liable for any vehicle malfunctions or damages resulting therefrom (including quality warranty).
- Standard-compliant brake fluid must be used, and it must be new brake fluid.

Brake System Indicator Light

If the red indicator light  illuminates while driving, and the instrument cluster displays "Please add brake fluid" message, you must immediately stop the vehicle in a safe place and check if the brake fluid level is normal.

Checking Brake Fluid Level



After the engine cools, check if the brake fluid level is between the "MAX" (maximum) and "MIN" (minimum) marks.

During vehicle use, the brake fluid level will slightly decrease due to brake pad wear and automatic adjustment.

If the brake fluid level drops significantly in a short period or falls below "MIN", it indicates a possible leakage fault in the braking system.

Tip

- Always read and comply with relevant warning instructions before opening the front hood.
- After checking the brake fluid level, if the level is below the "MIN" mark, brake fluid must be added.
- If the brake system warning light does not go out after adding brake fluid or comes on again while driving, there may be a leak causing the fluid level to drop too quickly or another malfunction in the brake system. If this occurs, do not continue driving. Please contact a GAC Service Center for inspection and repair promptly.

Adding Brake Fluid

To ensure proper brake system operation, add brake fluid that meets the specifications:

1. Unscrew the brake fluid reservoir cap counter-clockwise.
2. Add new brake fluid until the level reaches the "MAX" (maximum) mark. Stop adding.
3. Tighten the brake fluid reservoir cap clockwise.

 CAUTION
Brake fluid is corrosive to paint. Wipe up any spilled brake fluid from painted surfaces immediately.

 WARNING
<ul style="list-style-type: none"> • Brake fluid is a toxic substance. It must be stored in its original sealed container in a safe place, out of reach of children, to prevent accidental ingestion and poisoning. • Brake fluid must be disposed of according to environmental protection laws.

6.4.6 Battery

Battery Operation Warning Symbols and Instructions

	Wear eye protection during operation!
	Battery electrolyte is highly corrosive; always wear protective gloves and eye protection during operation!
	No open flames, sparks, uncovered lights, or smoking are allowed in the work area!
	Highly explosive gas mixture is produced when charging the battery!
	Children must be kept away from electrolyte and vehicle batteries!
	When using the battery, refer to the instruction manual first!

If you are not familiar with the procedures or do not have the proper tools, do not perform any work on the vehicle's electrical system. Please contact a GAC Service Center.

6. Use and Maintenance

Charging System Warning Light

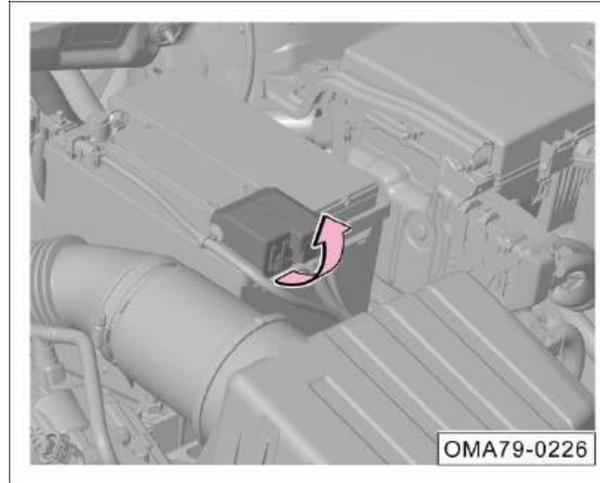
This warning light indicates a generator malfunction.

When the vehicle power is switched to the "ON" position and the engine is not started, the warning light  illuminates. After the engine starts, the warning light should turn off.

If the warning light illuminates while driving, it indicates that the alternator is no longer charging the battery. Please visit a GAC Service Center for inspection and repair promptly.

Checking the Battery

The battery must be checked according to the intervals specified in the "Warranty and Maintenance Manual."



- Flip up the positive battery terminal cover.
- Check the battery terminals and cable connections for corrosion or looseness; check the battery's appearance for cracks, swelling, etc. If any of the above phenomena are present, please visit a GAC Service Center for inspection and repair promptly.
- If the vehicle is to be parked for a long period without use, the battery condition should be checked frequently.

Usage Precautions

Please pay attention to the following precautions for using the low voltage battery, otherwise it may lead to premature battery replacement and affect warranty coverage:

1. If you use the vehicle's electrical equipment after the engine is turned off, the battery will discharge quickly:
 - Do not use the vehicle's electrical equipment for extended periods after the engine is turned off.
 - When leaving the vehicle, ensure that the doors are closed and all electrical equipment (such as lights, etc.) are turned off.
2. Do not arbitrarily install additional electrical appliances, to avoid long-term sulfation of the low voltage battery due to continuous discharge, which shortens its lifespan;
3. The connection between the low voltage battery terminals and wiring harness must be secure and have good contact, otherwise it will slow down charging speed and accelerate battery aging;
4. Do not frequently start the vehicle. For vehicles with intelligent start-stop function, reduce the use of electrical appliances during intelligent start-stop periods;

6. Use and Maintenance

5. If you do not plan to use the vehicle for more than 30 days, it is recommended to fully charge the low voltage battery and then disconnect the negative terminal cable to avoid excessive discharge of the low voltage battery; if you have not used the vehicle for more than 180 days, it is recommended to start the vehicle or use a special charger to charge the low voltage battery according to the operating instructions;
6. It is recommended to regularly and promptly check whether the vent holes on both sides of the low voltage battery top cover are clear. Do not let them be blocked by dust, ice water, etc., to prevent poor ventilation;
7. If the low voltage battery loses power due to various reasons during use, it should be recharged promptly to prevent accelerated aging due to power loss;
8. If the vehicle is driven short distances for a long time (driving time less than 10min), it is recommended to start the vehicle for more than 30min once a month;
9. Affected by lower temperatures, both battery discharge capacity and charging speed decrease. More attention should be paid to reducing low voltage battery discharge; if you are in an extremely cold region and have a heated garage at home, it is recommended to keep the vehicle in the heated garage;
10. Low voltage battery charging safety:
 - Low voltage batteries with swollen, cracked casings or acid leakage cannot be recharged;
 - Do not charge low voltage batteries with voltage below 10.5V at temperatures below 0 °C . If charging is required, move the battery to room temperature (25°C) and let it stand for 24 hours before charging;
 - If external charging is required, use a dedicated low voltage battery charger and operate according to the instructions. Prolonged charging at high voltage is strictly prohibited (e.g., AGM battery charging voltage should be $\leq 14.8V$).
11. When assembling and repairing with metal tools, do not use metal tools to directly connect the positive and negative terminals to avoid reverse connection or short circuits causing battery damage;
12. Strictly prohibit striking the terminals to prevent loosening of the terminals causing acid creep or leakage from the battery;
13. After the charging system warning light is illuminated and repaired, please start the vehicle or use a dedicated charger to charge the low voltage battery;
14. After a vehicle OTA* update, please start the vehicle or use a dedicated charger to charge the low-voltage battery.

CAUTION

- Avoid prolonged high-current discharge of the low voltage battery.
- Avoid overcharging or prolonged deep discharge of the low voltage battery.
- If the vehicle cannot be started due to a depleted battery, you can attempt to jump-start it. If the vehicle still will not start, it is recommended to contact a GAC Service Center for inspection and repair.
- Lead-acid batteries are consumable parts. If the battery is low on charge or damaged, causing difficulty starting the vehicle, it is recommended to promptly contact a GAC Service Center to have the battery charged or replaced and the charging system matched. Do not replace it arbitrarily.

6. Use and Maintenance

CAUTION

- Please comply with the precautions for low voltage battery use and maintenance, otherwise, it may lead to premature battery replacement and affect warranty coverage. Within the warranty period: provided that the use and maintenance precautions are followed and the battery appearance is good, if a product issue arises, you can contact the dealership for warranty service. If a low voltage battery problem occurs due to incorrect use, it is not within the warranty scope, but the company is willing to provide necessary technical support and services.
- To avoid damaging the vehicle's electrical system, do not connect power generating equipment such as solar panels or vehicle low voltage battery chargers to the power interface.
- The low voltage battery contains toxic substances such as sulfuric acid and lead, so it must be handled properly and never treated as ordinary household waste.

6.5 Air Conditioning Filter

Checking and Cleaning the Air Conditioning Filter

Regularly check or clean the air conditioning filter according to the "Warranty and Maintenance Manual." If the vehicle is driven in dusty environments, causing the air conditioning filter to become excessively dirty, it is recommended to replace the air conditioning filter sooner.

The air conditioning filter is located inside the glove box on the front passenger side. Removing the filter involves a relatively complex disassembly of components. To avoid unnecessary damage, it is recommended to visit a GAC Service Center to have the air conditioning filter inspected, cleaned, or replaced.

6.6 Replacing Light Bulbs

Information on Replacing Light Bulbs

When replacing a bulb, be careful not to touch the glass with your fingers. Otherwise, the heat from the bulb will cause the oils from your fingerprints to evaporate and condense on the glass, reducing the light's brightness.

After replacing a bulb, you must check that the light is working correctly and visit a GAC Service Center promptly to have the light beam alignment checked.

Tip

- The vehicle's lights are either halogen or LED. If an LED light is damaged, please visit a GAC Service Center for a replacement promptly.
- The removal and installation procedure is basically the same for the left and right side bulbs. This section only describes the procedure for a halogen bulb on one side.

⚠ CAUTION

You must replace a damaged bulb with a new one of the same specification. The bulb specifications for this vehicle are as follows. => [See page 237](#)

⚠ WARNING

Do not attempt to replace bulbs yourself if you are unfamiliar with the procedure, safety precautions, and proper tool usage.

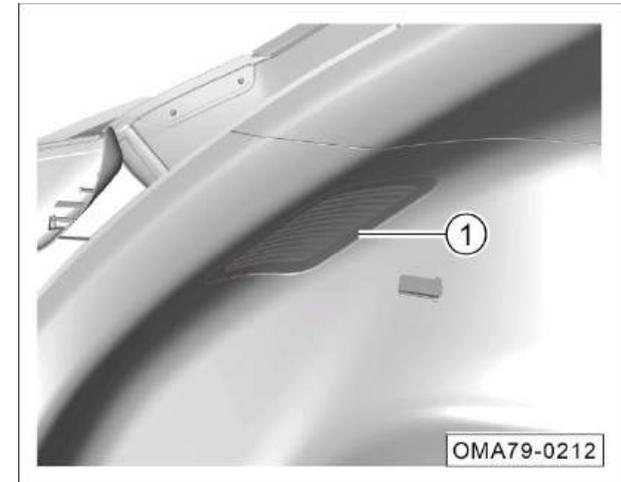
- **Before replacing a bulb, turn off all lights and wait for the bulb to cool down.**
- **Be aware of sharp components on the combination light housing in the engine compartment to avoid cutting your hands while replacing the bulb.**

Preparation Before Replacing a Bulb

If you find a damaged bulb, it should be replaced as soon as possible. Before replacement, make the following preparations:

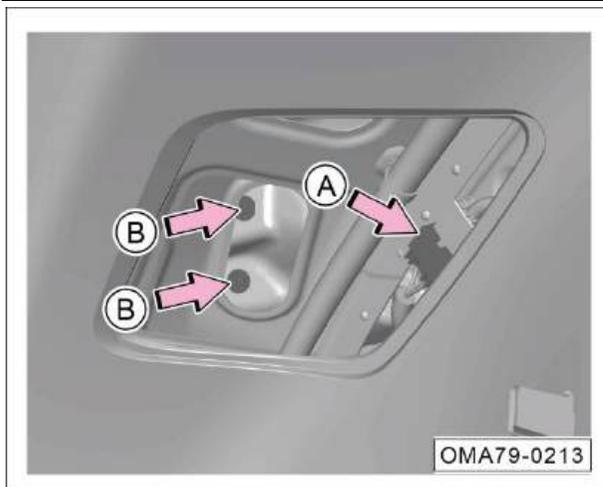
1. Turn off all lights.
2. Switch the ignition to the "OFF" position.
3. Check if the relevant fuse has blown. If the fuse is intact, proceed with inspecting and replacing the bulb.

Removing the Rear Combination Light

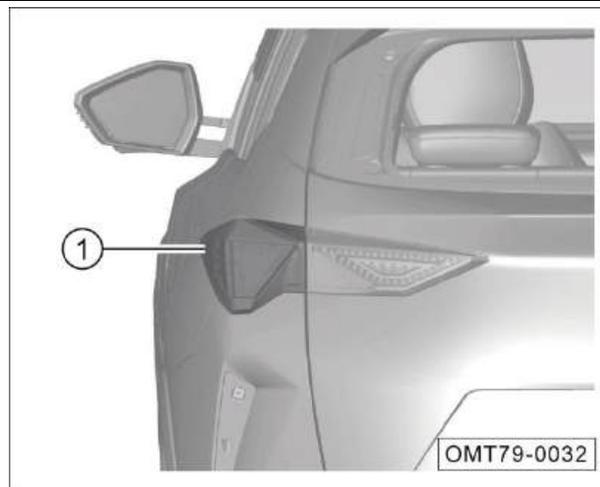


1. Open the rear tailgate.
2. Pry out the small trim panel ①.

6. Use and Maintenance

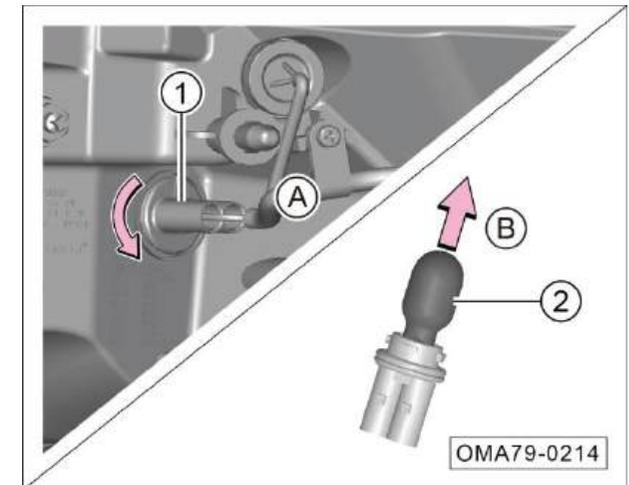


3. Disconnect the rear combination light connector -arrow A-.
4. Unscrew the rear combination light retaining nuts -arrow B-.



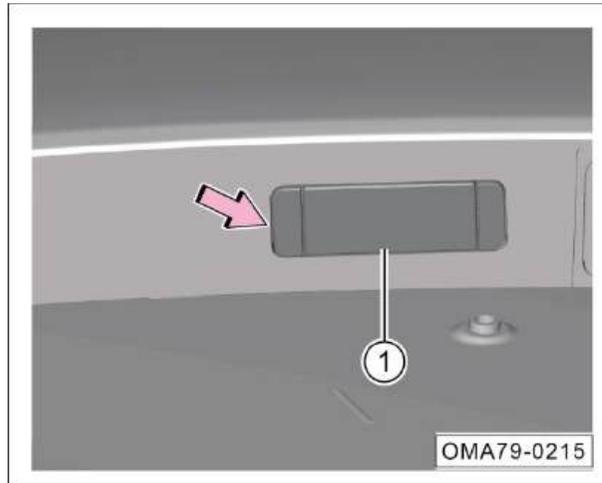
5. Remove the rear combination light ①.
6. After removing the rear combination light, install it by following the removal steps in reverse order.

Replacing the Rear Turn Signal Bulb

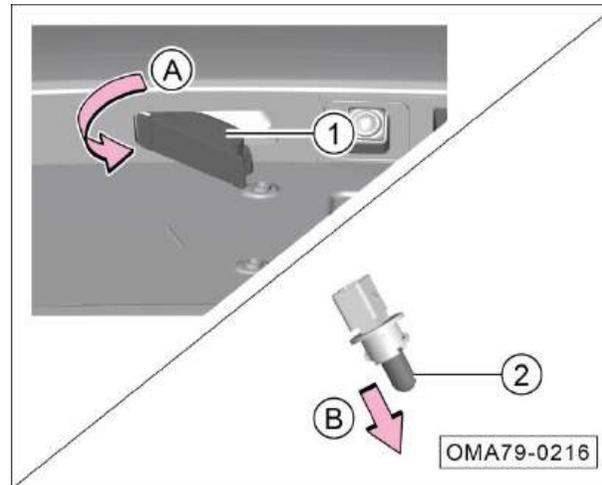


1. Remove the rear combination light. => See [page 219](#)
2. Turn and remove the turn signal bulb and socket ① in the direction of -arrow A-.
3. Remove the rear turn signal bulb ② in the direction of -arrow B-.
4. After replacing the rear turn signal bulb, install it by following the removal steps in reverse order.

Replacing the License Plate Light Bulb

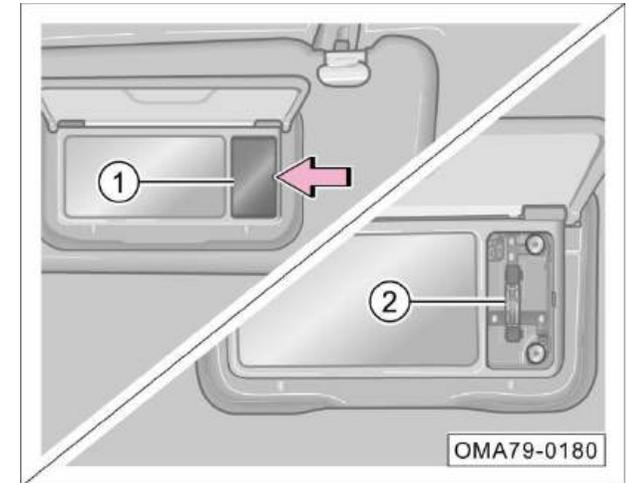


1. Pry out the license plate light assembly ① in the direction of the -arrow-.



2. Disconnect the wiring harness connector, then turn and remove the license plate bulb and socket ① in the direction of -arrow A-.
3. Remove the bulb ② in the direction of -arrow B-.
4. After replacing the license plate light bulb, install it by following the removal steps in reverse order.

Replacing the Vanity Mirror Light Bulb*



1. Carefully pry out the vanity mirror light cover ① at the position indicated by the -arrow-.
2. Remove the vanity mirror light bulb ②.
3. After replacing the vanity mirror light bulb, install it by following the removal steps in reverse order.

6. Use and Maintenance

6.7 Wheels

WARNING

The road adhesion of new tires cannot reach optimal condition within the first 500km, so the vehicle should be driven cautiously at a moderate speed to prevent accidents.

- Unbroken-in tires or excessively worn tires have insufficient road adhesion, directly affecting braking performance.
- If abnormal vibration or pulling is detected while driving, immediately stop the vehicle and check the tires for damage.
- If you notice uneven or excessive tire wear, have it inspected at a GAC Service Center as soon as possible.

WARNING

If a tire bursts or leaks while driving, it can easily lead to serious traffic accidents.

- Never use damaged tires and wheels, or drive with tires worn down to the tread wear indicators. Otherwise, it can easily cause accidents, as such tires may burst while driving, leading to traffic accidents and injuries. Such tires and wheels should be replaced promptly.
- Tire pressure must comply with regulations, otherwise, it may lead to accidents. If tire pressure is insufficient, continuous high-speed driving will cause tire deflection, leading to easy overheating of the tires, which may result in tire delamination or blowout.
- Never allow tires to come into contact with chemicals, engine oil, grease, fuel, and brake fluid.

WARNING

- Under no circumstances should used wheels and tires of unknown origin be used, as such wheels and tires, though without visible damage, may be internally damaged, potentially leading to loss of vehicle control and traffic accidents while driving.
- It is recommended not to use retreaded tires. Such refurbished tires may undergo changes in their carcass over their lifespan, and their durability may be limited, affecting driving safety.

Tire Malfunction Prevention Measures

- When driving over curbs or similar obstacles, drive slowly and as perpendicular to the obstacle as possible.
- Never allow tires to come into contact with grease, engine oil, or fuel.
- Regularly inspect tires for damage (e.g., cuts, wear, detachment, deformation, or bulging).
- Regularly remove debris embedded in the tire tread grooves.

Tire Storage Information

- Mark tires before removal to indicate their rotation direction. When installing tires, reset them according to the marks to maintain the wheel's rotation direction and dynamic balance.
- Removed wheels or tires should be stored in a cool, dry place, preferably in a dark place.
- Tires mounted on rims should not be stored upright.

New Tires and Wheels

- New tires and wheels must be carefully selected to ensure that their size, load range, speed rating, and construction type are as similar as possible to the original tires.
- Do not replace only one tire. At least two tires on the same axle should be replaced simultaneously.
- Never mix tires of different sizes or types, or mix summer, all-season, and winter tires.
- After each wheel installation, check that the wheel bolt tightening torque (125 ± 10 N·m) meets the requirements.

Non-Full Size Spare Tire

Spare tires differ from standard tires in structure, tread pattern, speed rating, and load index, and cannot be used interchangeably.

After using the spare tire in an emergency, you should drive safely to a GAC Service Center or a tire repair shop as soon as possible to have a full-size tire installed, to avoid the safety risks associated with long-term use of a spare tire.

WARNING

- **Spare tires are for temporary emergency use only, with a maximum speed not exceeding 80km/h.**
- **The storage life of a spare tire is 6 years; it is prohibited to use it beyond this period.**

6. Use and Maintenance

Summer Tires

Summer has frequent rain, and tire tread depth directly affects vehicle safety when driving in wet conditions. There is a high risk of hydroplaning when summer tire tread depth is below 3mm.

Winter Tires

Winter tires maintain good grip performance on snow-covered or icy roads. Their special tread compound design minimizes the impact of low temperatures on the tires, providing excellent braking capability and ensuring vehicle driving safety.

- Use winter tires on all four wheels.
- Only use radial winter tires that are approved for this vehicle and have the same size, load range, and speed rating as the original tires.

- Please note that winter tire tread must have sufficient depth (tread depth should not be less than 4mm; below 4mm, winter applicability is limited).
- After installing tires, check tire inflation pressure.

WARNING

- **Winter and summer tires are designed according to typical driving conditions on corresponding seasonal roads. It is recommended to use winter tires in winter. At low temperatures, summer tires adapt significantly worse, leading to a loss of grip and braking capability.**
- **In severe cold conditions, if summer tires are used, cracks may appear on the tires, completely damaging them, potentially leading to excessive tire noise and loss of balance.**

WARNING

- **After installing winter tires, a decrease in traction on dry roads, increased road noise, and reduced tread life may occur. After switching to winter tires, please note changes in vehicle handling and braking.**
- **Please note that the maximum speed applicable to winter tires is lower. Do not exceed the maximum speed allowed by the tires.**
- **Please note that when the weather temperature rises above 7°C, to ensure driving safety and performance, please change back to summer tires promptly.**
- **When driving with winter tires, if a spare tire is installed, unstable turning characteristics may occur due to different tires, weakening driving stability. Driving style needs to be adjusted, and cautious driving is required.**

Checking Tire Pressure

The standard tire pressure data label for the original tires on this vehicle is located on the right B-pillar.

1. Unscrew the valve cap (if the valve cap is missing, replace it promptly).
2. Use a high-quality tire pressure gauge to check tire pressure. Visual inspection alone cannot determine if the tire pressure is appropriate.
3. Attach the pressure gauge to the valve stem.
4. Tires must be cold when checking tire pressure. When the temperature rises, the pressure will be slightly higher than the specified pressure, but there is no need to reduce the tire pressure.
5. Balance the weight of occupants and luggage, avoid sloped areas, and adjust tire pressure according to vehicle load.
6. The pressure of the spare wheel or emergency spare wheel should also be checked simultaneously.
7. Install and tighten the valve cap.

Tip

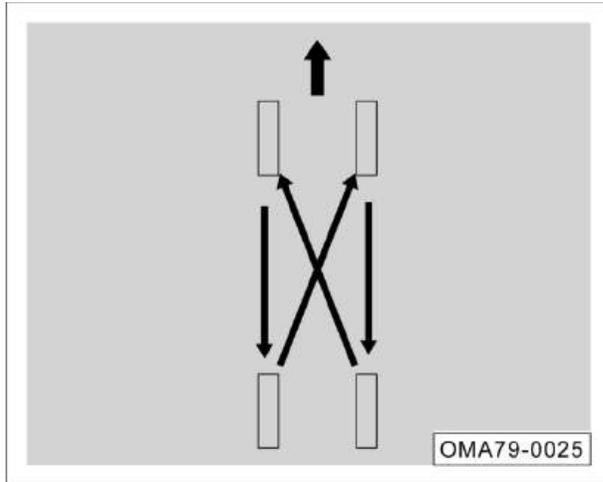
- The current tire pressure of the wheels can be viewed on the instrument cluster display.
- Be sure to reinstall the valve cap onto the valve stem. The valve cap prevents dust, debris, and moisture from entering.

WARNING

- **Abnormal tire pressure can lead to tire blowouts, causing traffic accidents, injuries, or even fatalities.**
- **Check tire pressure at least once a month or before long-distance driving. Tire pressure must meet specified requirements to prevent accidents.**
- **Insufficient tire pressure will exacerbate tire flexing, making the tires highly prone to overheating, which may lead to tread separation and tire blowout.**
- **Both excessively low and excessively high tire pressure will lead to premature tire wear and reduce vehicle handling stability.**

6. Use and Maintenance

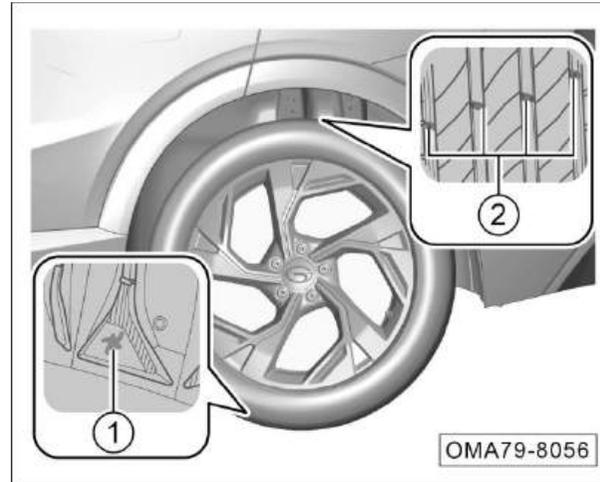
Tire Lifespan



Tire lifespan depends on tire pressure, driving habits, and tire mounting conditions.

If the front tires show more wear than the rear tires, it is recommended to rotate the front and rear tires as shown to achieve roughly similar lifespan for all tires.

Tire Wear Indicator



Pattern ① indicates the wear of the tire's outer circumference tread. If the outer circumference tread is worn to this pattern, the tire is no longer safe to use and must be replaced immediately.

The "Tread Wear Indicator" ② height is 1.6 mm. If the tread pattern wears down to the surface of this marker, the tire is no longer safe to use and must be replaced immediately.

Wheel Balancing

The wheels of a new car are balanced, but during operation, due to various factors, the wheels may become unbalanced, which can be manifested by steering wheel vibration.

Since wheel imbalance can cause excessive wear to the steering system, wheel suspension mechanism, and tires, the wheels should be rebalanced.

In addition, each wheel must be rebalanced after installing new tires or after tire repair.

Wheel Alignment Misalignment

Incorrect wheel alignment can cause uneven and excessive tire wear and affect driving safety. If you notice uneven tire wear, please visit a GAC Service Center to have the wheel alignment checked promptly.

Snow Chains

When driving in severe conditions such as snowy or icy roads in winter, tire wear may increase or other faults may occur. To reduce winter malfunctions, the following advice must be followed:

- When driving in deep snow, it is necessary to install tire anti-skid chains on the tires. If installing snow chains, you must choose an equivalent product whose size and type comply with the vehicle's tire specifications. Failure to do so will adversely affect the vehicle's performance and safety. Moreover, operations such as driving with a full load, overspeeding, sudden acceleration, emergency braking, and emergency turns pose significant risks.
- When decelerating, make full use of the engine braking function. Emergency braking on snowy or icy roads can cause the vehicle to skid. Maintain an appropriate safe distance from the vehicle ahead, lightly press the brake pedal, and be aware that anti-skid chains installed on tires provide some friction but cannot prevent skidding.

Tip

Different countries or regions have different regulations for tire anti-skid chains. Before installing tire anti-skid chains, refer to the regulations of each country or region. Do not install anti-skid chains without understanding the regulations of each country or region that may restrict their use.

CAUTION

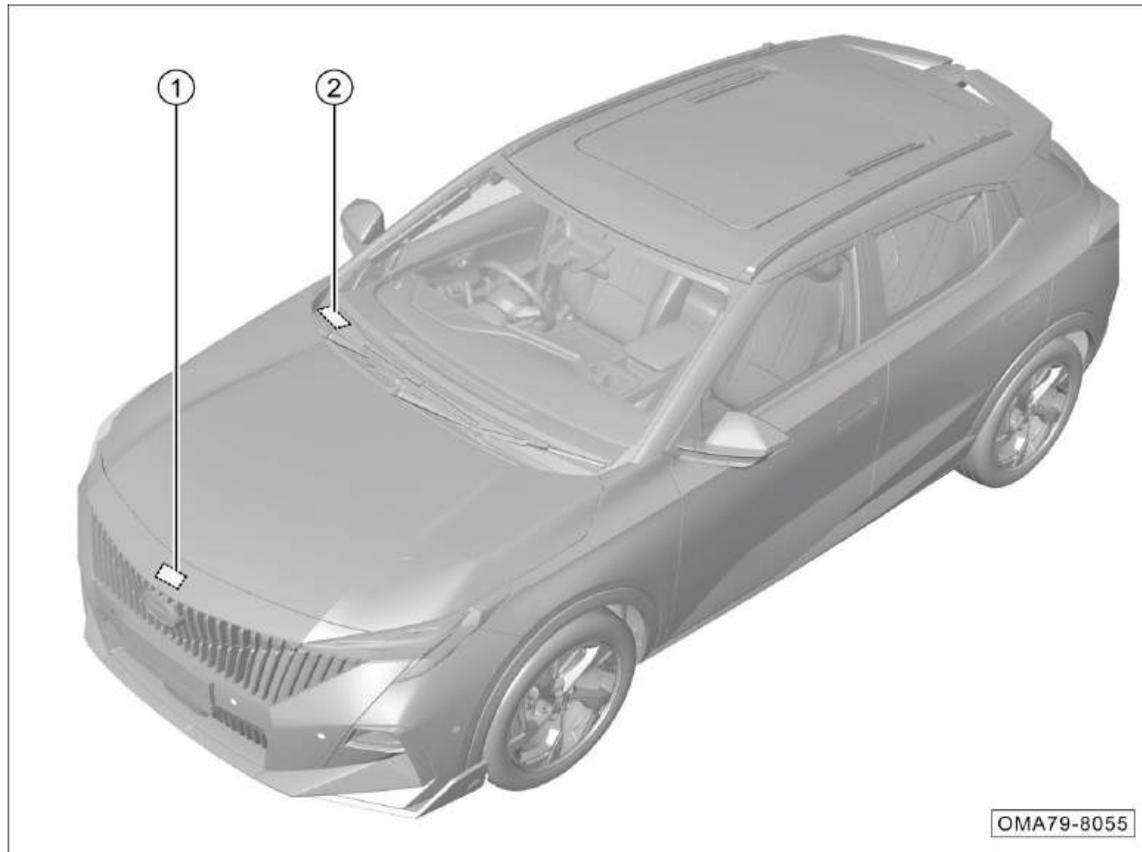
When installing anti-skid chains on tires, ensure balanced driving in all weather conditions. It should be remembered that vehicle power may be insufficient after installing anti-skid chains. Drive carefully even on good road surfaces. Do not exceed the specified speed limit for anti-skid chains when driving, and do not exceed 50km/h, whichever is lower.

CAUTION

- If anti-skid chains are installed on tires, their size and type should match the vehicle's standard tires, otherwise, it will adversely affect the driving safety and handling of the vehicle.
- Anti-skid chains must be installed in pairs on the front tires. Do not install them on the rear tires.
- Do not install anti-skid chains on the emergency spare tire. If a spare tire is installed on the front and anti-skid chains need to be added, be sure to swap the spare tire with the rear tire position.
- Do not use anti-skid chains on dry ground. Remove them after driving to a snow-free road.
- After installing the anti-skid chains as tightly as possible to the front tires, drive for (0.5~1.0) km, then retighten the anti-skid chains.

7. Technical Data

7.1 Identification Codes



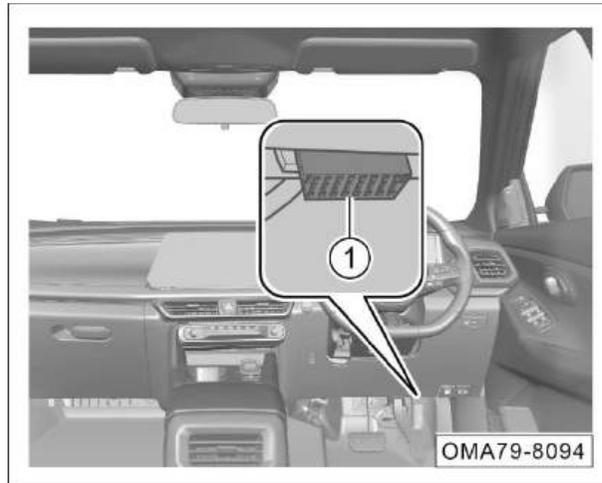
Identification code (VIN) locations are shown in the figure:

- ① Identification Code (VIN): Front engine compartment cover plate
- ② Vehicle Identification Number (VIN): Left side of the dashboard.

i Tip

The location and quantity of the Vehicle Identification Number (VIN) codes indicated are not exhaustive; please refer to the actual vehicle.

OBD Diagnostic Interface



The OBD port ① for reading the electronic VIN is located on the lower rear left of the instrument panel. The electronic VIN and vehicle status information can be read using a dedicated diagnostic tool.

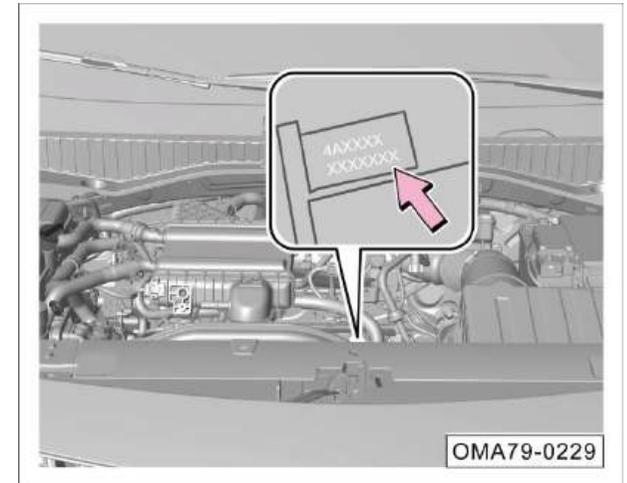
i Tip

To purchase a diagnostic tool, please consult a GAC Service Center.

Vehicle Nameplate

The vehicle nameplate label is located on the left B-pillar. The vehicle nameplate includes information such as the manufacturer, vehicle identification number, maximum gross vehicle weight, etc.

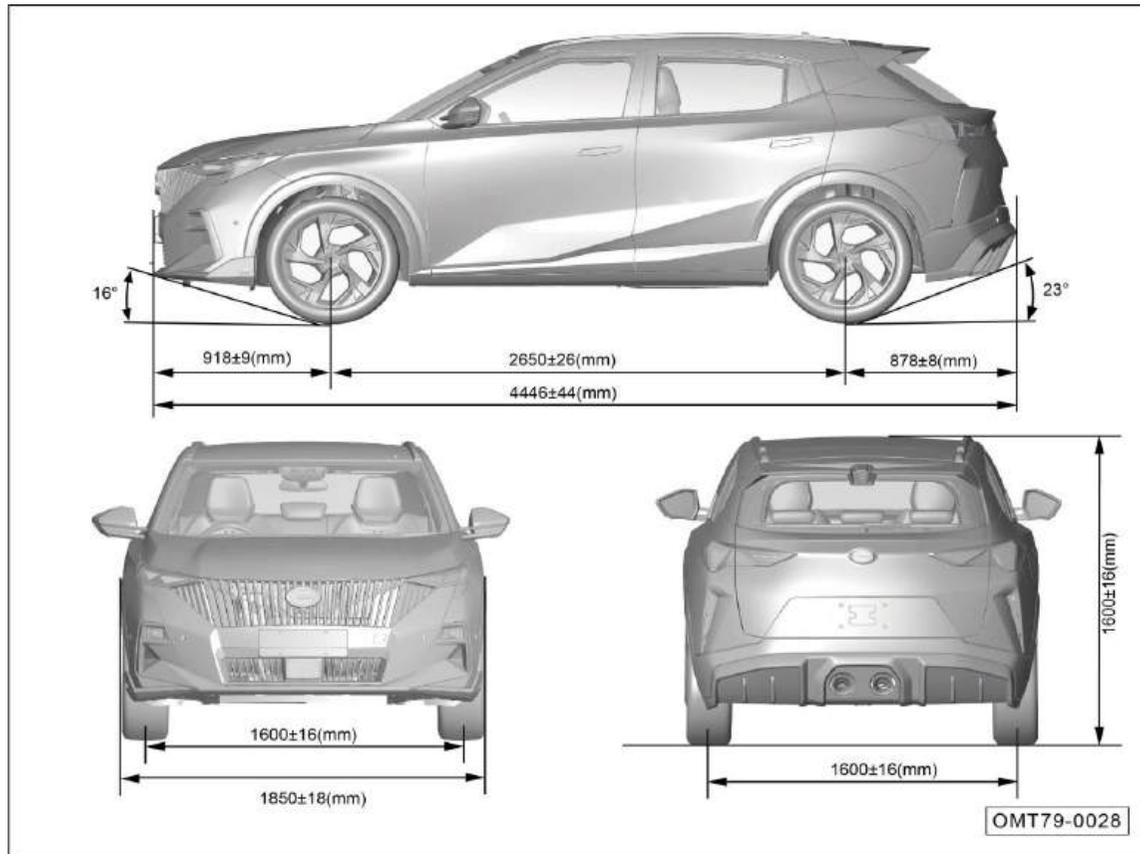
Engine Model and Serial Number



The engine model and serial number -arrow- are located on the engine block (above the starter).

7. Technical Data

7.2 Vehicle Dimensions Parameters

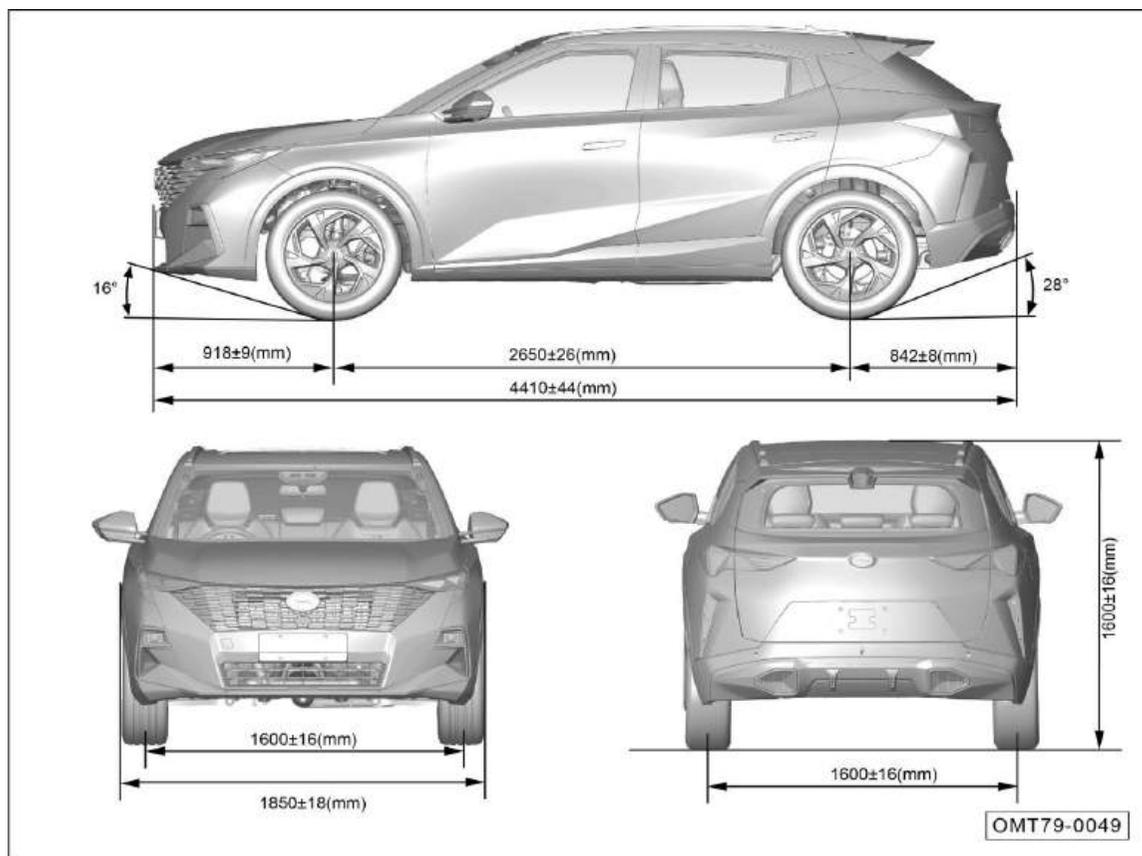


Type One

Dimension

Item	Parameter	
	Value	Unit
Overall Length	4446±44	mm
Overall Width	1850±18	mm
Overall Height	1600±16	mm
Wheelbase	2650±26	mm
Track Width	Front Wheels	1600±16
	Rear Wheels	1600±16
		mm
Front Overhang	918±9	mm
Rear Overhang	878±8	mm
Approach Angle (unladen)	16	°
Departure Angle (unladen)	23	°

Note: The exterior rearview mirrors (one on each side) located near the lower end of the A-pillar and the junction with the front door are not included in the overall width dimension.



Type Two

Dimension

Item	Parameter	
	Value	Unit
Overall Length	4410±44	mm
Overall Width	1850±18	mm
Overall Height	1600±16	mm
Wheelbase	2650±26	mm
Track Width	Front Wheels	1600±16
	Rear Wheels	1600±16
		mm
Front Overhang	918±9	mm
Rear Overhang	842±8	mm
Approach Angle (unladen)	16	°
Departure Angle (unladen)	28	°

Note: The exterior rearview mirrors (one on each side) located near the lower end of the A-pillar and the junction with the front door are not included in the overall width dimension.

7. Technical Data

7.3 Vehicle Mass, Engine, and Fluid Parameters

Mass

Model	Vehicle Curb Weight (kg)			Maximum Gross Weight (kg)		
	Curb Weight	Front Axle Load	Rear Axle Load	Maximum Gross Mass	Front Axle Load	Rear Axle Load
GAC7151HCW6B	1445±43	877±25	568±15	1795	985	810
	1490±44	890±26	600±18	1795	975	820

Overall Parameters

Item	Corresponding Vehicle Parameters	Unit
	GAC7151HCW6A	
Occupancy	5	persons
Minimum Turning Diameter	11.3	m
Maximum Gradeability	40	%
Maximum Speed	190	km/h
NEDC Fuel Consumption (Combined)	6.6 (Models equipped with GPF)	L/100km
	5.9 (Models without GPF)	

Engine Parameters

Model	4A15J2
Layout Type	Transverse Front
Type	Gasoline engine, spark-ignition, inline, four-cylinder, four-stroke
Number of Cylinders	4
Firing Order	1- 3- 4- 2
Bore (mm)	74
Stroke (mm)	87
Displacement (mL)	1497
Compression Ratio	(11.5±0.3):1
Rated Power/Speed (kW/(r/min))	130/5500
Maximum Net Power/Speed (kW/(r/min))	125/5500
Max. Torque/Speed (N·m/(r/min))	270/1400~4500
Max. Net Torque/Speed (N·m/(r/min))	250/1400~4500
Emission Level	Euro V

7. Technical Data

Fluid Specifications and Capacities

Item	Specification	Capacity	
Fuel 1)	Please refuel with the grade indicated on the fuel filler door	Total Volume (L)	47
Engine Coolant 2)	DF-6, -35°C coolant	Total Volume (L)	8.3
Engine Oil	Oil Grade: API SN/ILSAC GF-5 Oil Viscosity: SAE 0W-20	Total volume ³⁾ L	4.5
		Replacement ⁴⁾ L	4.2
Wet Dual-Clutch Transmission Fluid	Shell Spirax S5 DCT12 plus	Total Volume (L)	6.9
		Replacement (L)	5
Intercooler Coolant	DF-6, -35°C coolant	Total Volume (L)	3.2
Brake Fluid	DOT4	Total Volume (L)	0.75
Windshield Washer Fluid	Methanol type	Total Volume (L)	2.5
A/C Refrigerant	R134a	Total Volume (g)	510

Note: 1) Long-term refueling with fuel exceeding standard sulfur content may lead to emissions exceeding limits. Please use fuel that complies with local automotive sales standards.

2) Includes coolant in the reservoir and residual coolant in the engine.

3) Capacity for engine overhaul assembly.

4) Includes oil filter replacement.

7.4 Transmission, Chassis, and Light Specifications**Transmission Parameters**

Model	7WF25G
Type	Wet Dual-Clutch
Drive	Two-wheel drive
Final Drive Ratio	4.389 (5124R gear)
	2.724 (736 gear)
First Gear	3.846
Second Gear	2.308
Third Gear	2.500
Fourth Gear	1.140
Fifth Gear	0.911
Sixth Gear	1.180
Seventh Gear	0.946
Reverse Gear	3.491

Suspension

Type	Front Suspension	Rear Suspension
	MacPherson Strut Independent Suspension	Torsion beam non-independent suspension

Wheels

Rim Specifications		6.5Jx17*, 7Jx18*	
Tire Specification		215/60R17*, 225/55R18*	
Tire Pressure	-	Front Wheels	Front Wheels
	Half Load	230kPa	230kPa
	Full Load	230kPa	230kPa
Spare Tire Specification		T125/90R17	
Spare Tire Pressure		420kPa	

Steering Gear

Type	Rack and Pinion
Power Assist Type	Electric Power Steering

Brakes

Type	X-type dual circuit, hydraulic brake, vacuum assist
Front Wheels	Disc Brakes
Rear Wheels	Disc Brakes
Parking Brake	Electronic Parking Brake System (EPB)

7. Technical Data

Brake Pedal Free Travel

Name	Parameter
Travel	100.8mm
Free Travel	≤6mm

Brake Pad Technical Parameters

Name	Parameter
Front Brake Pad Wear Limit (excluding backing plate)	2mm
Rear Brake Pad Wear Limit (excluding backing plate)	2mm

Wheel Alignment Parameters

Name		Parameter
Front Wheels	Individual Toe	5'±5'
	Wheel camber	-15'±45'
	Caster angle	6°23'±45'
	Kingpin inclination angle	13°22'
Rear Wheels	Total Toe-in	4'±24'
	Wheel camber	-1°16'±30'
	Thrust Angle	0'±24'

7. Technical Data

Lights

Lights	Model	Power
High Beam	LED	/
Low Beam	LED	/
Daytime running lights	LED	/
Front Turn Signal Light	LED	/
Front Position Light	LED	/
Rear Fog Lights	LED	/
Side Turn Signal Light	LED	/
Brake lights	LED	/
Rear Position Light	LED	/
High-Mounted Brake Light	LED	/
Rear Turn Signal Light	WY16W	16W
Reverse lights	LED	/

Lights	Model	Power
License Plate Light	W5W	5W
Front Roof Lamp	LED	/
Second Row Dome Lights	LED	/
Vanity Mirror Light	14V1CP	1.4W
Ambient Light	LED	/
Trunk Light	LED	/

The light specifications are either LED or halogen. If replacement is needed, it is recommended to visit a GAC Service Center.

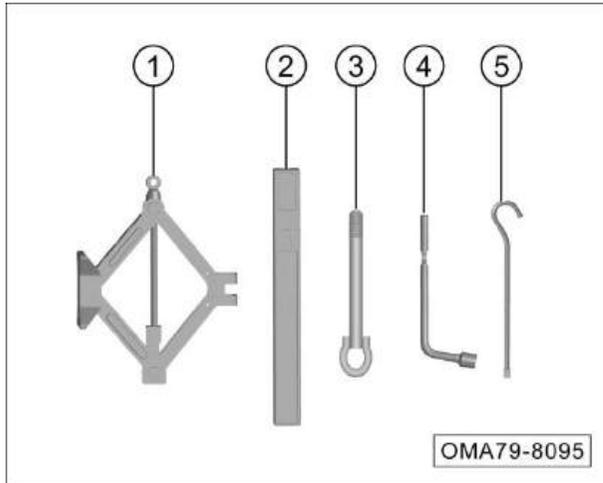
Battery

Item	Parameter
Rated Voltage	12V
20-Hour Capacity	60Ah
Cold Cranking Amps (EN)	660A

8. Accident Handling

8.1 On-board Tools, Spare Tire

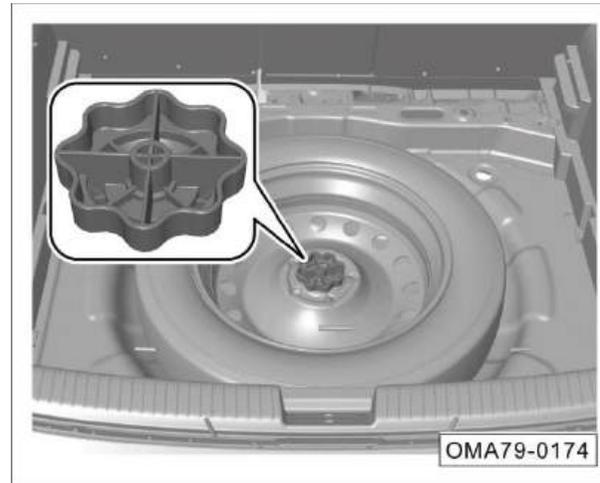
Vehicle Tools



This vehicle provides the following on-board tools stored in the trunk. After use, they should be cleaned promptly and returned to their original position.

- ① Jack
- ② Warning Triangle
- ③ Tow Hook
- ④ Wheel Bolt Removal Wrench
- ⑤ Jack Specific Wrench

Spare Tire



Removing the Spare Tire:

1. Open the rear tailgate.
2. Lift the trunk carpet.
3. Unscrew the central handwheel of the spare tire counter-clockwise and remove the spare tire.

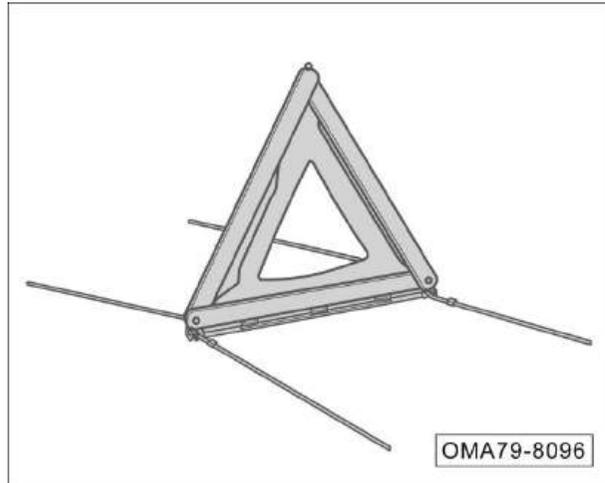
i Tip

The spare tire is inflated. Its pressure should be checked regularly to ensure it is at the specified maximum pressure, and checked multiple times within a year.

⚠ WARNING

- **Strictly use according to spare tire requirements to avoid danger.**
- **It is strictly forbidden to install and use more than one spare tire at a time.**
- **It is forbidden to use damaged or excessively worn spare tires.**
- **The storage life of a spare tire is 6 years; it is prohibited to use it beyond this period.**
- **After installing the spare tire, check its pressure as soon as possible to ensure it is within the specified range.**
- **The maximum speed for the spare tire must not exceed 80km/h. Avoid sudden acceleration and emergency braking.**

8.2 Use of Warning Triangle



1. Open the rear tailgate.
2. Take out the warning triangle and unfold it for use.

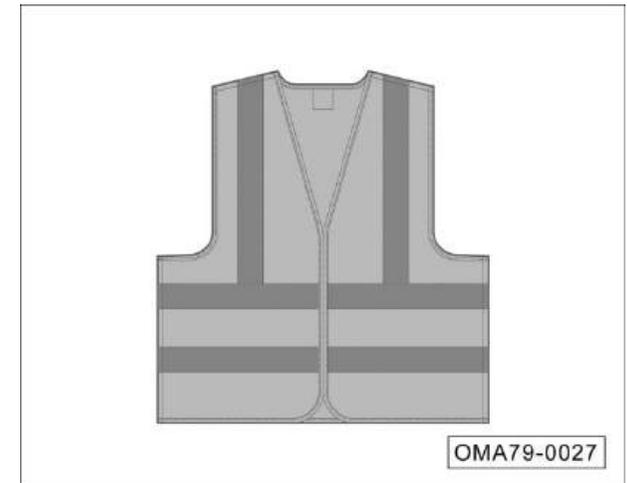
Placement Distance

General Road		Expressway
Daytime	Nighttime	
≥50m	≥80m	≥150m

👁 CAUTION

The above data is for reference only; please place the warning triangle at the actual distance specified by traffic regulations.

8.3 Use of Reflective Vest



- If the vehicle has an accident or other malfunction requiring it to stop, take out the reflective vest from the glove compartment and put it on properly before getting out to inspect and deal with the vehicle malfunction.

8. Accident Handling

Tip

- When handling a vehicle accident, regardless of lighting conditions, you must wear a reflective vest as required to attract the attention of pedestrians or other drivers.
- After using the reflective vest, store it properly in the glove compartment. If necessary, it can be washed according to the label instructions to maintain its reflective performance.

8.4 Changing a Flat Tire

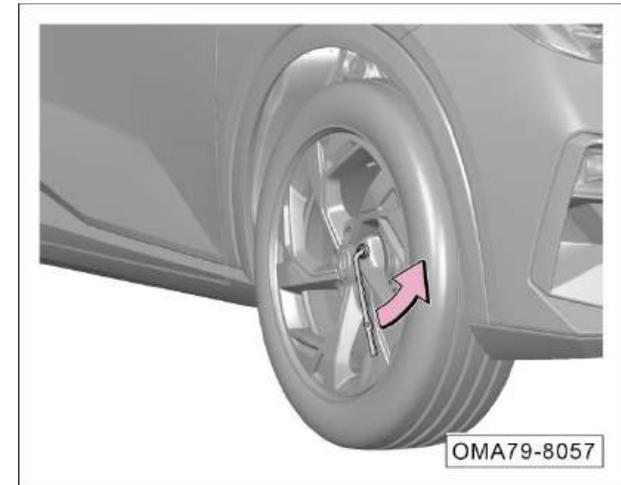
Preparation

1. Apply the parking brake.
2. Shift the gear lever to "P" position.
3. Switch the vehicle power to the "OFF" position, and turn on the hazard warning lights.
4. Place the warning triangle in a suitable position behind the vehicle.
5. Find a suitable object to chock the wheel diagonally opposite the wheel to be changed, to prevent the vehicle from moving.
6. Take out the on-board tools and spare tire.

WARNING

- **Relevant regulations must be strictly followed.**
- **All occupants must exit the vehicle and wait in a safe location.**

Loosening Wheel Bolts

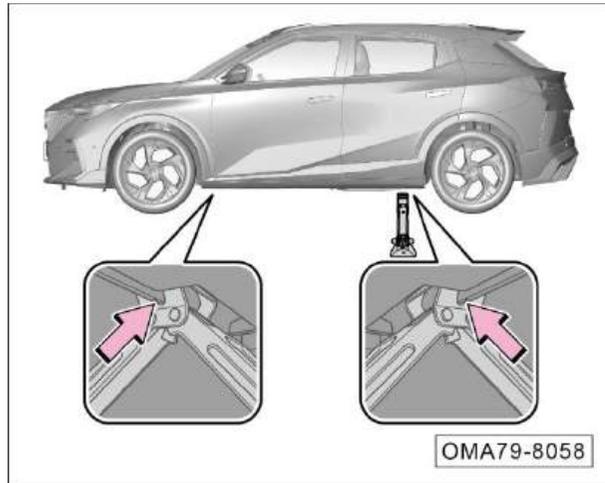


Place the wheel bolt removal wrench firmly onto the wheel bolt and loosen the wheel bolt counter-clockwise.

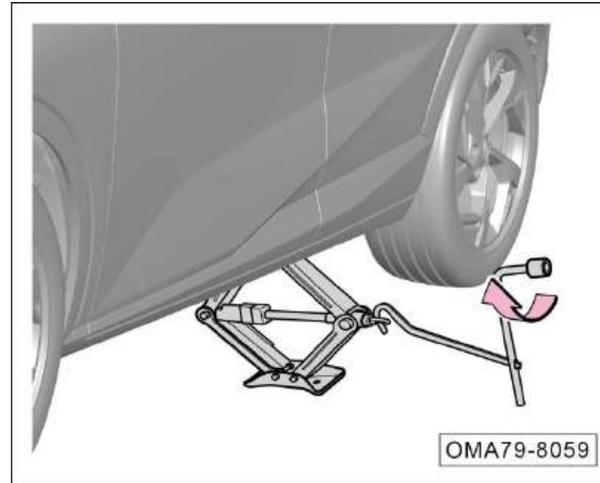
CAUTION

Before lifting the vehicle, only loosen the wheel bolts by one turn. After lifting the vehicle, fully unscrew the wheel bolts, then remove the flat tire.

Lifting the Vehicle



1. Place the jack directly under the ridge closest to the flat tire.
2. Raise the jack, ensuring that the jack's groove engages with the ridge.
3. Check that the jack is stable and firmly in contact with the ground.



4. Assemble the wheel bolt removal wrench, the jack-specific wrench, and the jack.
5. Raise the jack clockwise to lift the vehicle, so that the tire leaves the ground.

⚠ WARNING

Improper use of the jack can cause serious injury.

- The jack must be used on hard, level ground. If necessary, a hard pad (not higher than 1cm) can be placed under the jack.
- Strictly comply with jack operating precautions.
- If a trailer is attached, it must be separated from the main vehicle.
- Continuously observe the vehicle's condition during lifting. If significant tilting of the vehicle body is observed, stop lifting, identify the problem, and resume lifting after resolving it.

8. Accident Handling

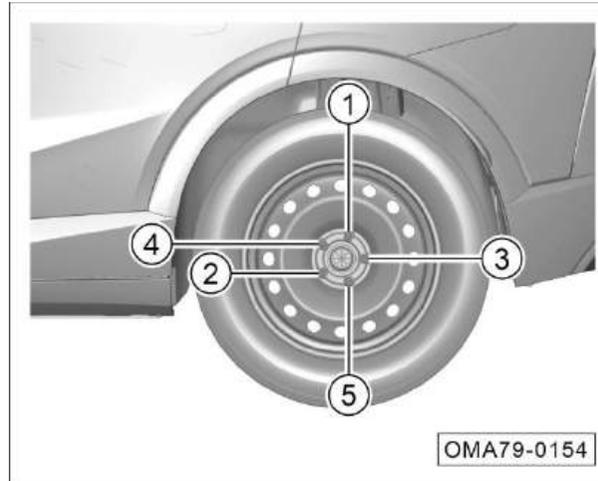
⚠ WARNING

- **The on-board jack is only for lifting this vehicle and cannot be used for lifting other heavy objects or vehicles.**
- **When using the jack, do not start the engine, otherwise, an accident may occur.**
- **When lifting the vehicle with the jack, remember not to place any part of your body under the vehicle to avoid accidents.**
- **If work indeed needs to be done under the vehicle, suitable protective supports must be placed underneath.**

Removing the Flat Tire

1. With the vehicle lifted, use the wheel bolt removal wrench to unscrew the loosened wheel bolts.
2. Remove the flat tire.

Installing the Spare Tire



1. Mount the spare tire onto the vehicle.
2. Install all wheel bolts and pre-tighten them in the order shown in the diagram (①~⑤) using the wheel bolt removal wrench.
3. Give a verbal warning, confirm no one is around the vehicle, then turn the jack wrench in the opposite direction to lower the vehicle.
4. Use the wheel bolt removal wrench to tighten all wheel bolts.
 - To avoid noise from the car during future driving, please remember the placement of all tools, and return them to their original positions and secure them after use.

👁 CAUTION

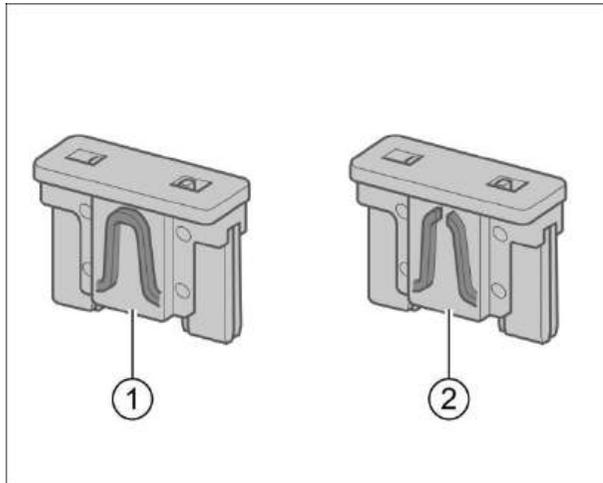
After installing a wheel, you must visit a GAC Service Center promptly to have the wheel bolt tightening torque checked (Wheel bolt tightening torque: 125 ± 10 N·m). Otherwise, the bolts may loosen while driving, which can easily lead to a traffic accident.

⚠ WARNING

- **The threads on the wheel bolts and hub must be kept clean, so that the bolts are easy to turn, and free from grease or other attachments.**
- **When changing a tire, if the bolts are rusted or difficult to turn, you must replace the bolts and clean the threaded holes.**
- **After the spare tire is no longer in use, it must be securely fastened in its mounting location.**

8.5 Checking Fuses

If an electrical appliance is not working, it may be due to a blown fuse. If this occurs, please contact a GAC Service Center for inspection and repair promptly.



① Normal Fuse

② Blown Fuse

CAUTION

To replace a fuse, please visit a GAC Service Center.

WARNING

- Do not arbitrarily modify or install equipment on the vehicle to avoid damage to vehicle electrical equipment or serious accidents such as fire.
- Do not use fuses with a rated current value higher than the specified value, otherwise, other parts of the electrical system may be damaged.
- Using inappropriate or repaired fuses can cause short circuits or even fires.
- The replacement fuse must be identical in color and marking to the original fuse.
- Never use metal strips, paper clips, or similar items in place of fuses.
- The electrical box must be kept clean and protected from moisture.

8.6 Emergency Starting

Jumper Cables

If the engine cannot be started due to a low battery, you can use jumper cables to connect to another vehicle's battery to start the engine.

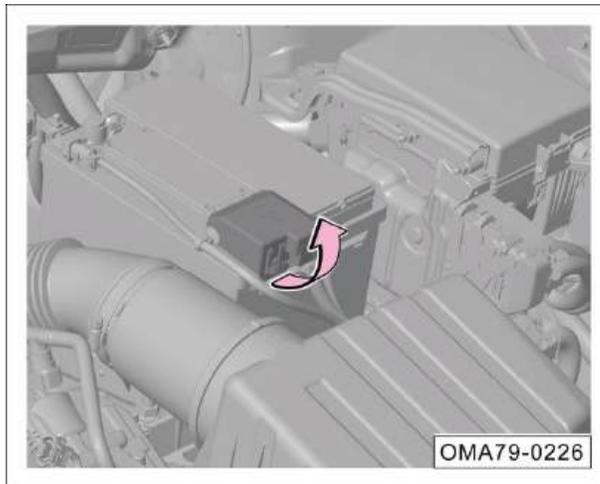
CAUTION

Before using jumper cables, be sure to turn off all electrical equipment in the vehicle with the depleted battery, such as the headlights, air conditioning, infotainment system, etc.

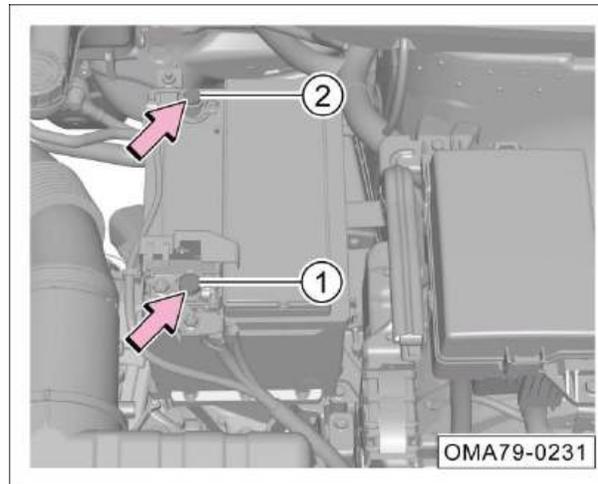
WARNING

- The front engine compartment is a high-risk area; improper operation can easily lead to injury or fatal accidents.
- Always read and comply with safety warning instructions related to battery operation before working on the battery.

8. Accident Handling



1. Open the hood and flip up the positive battery terminal cover in the direction of the -arrow-.



2. Connect the clamp of the red positive jumper cable to the positive terminal ① of your vehicle's battery, and connect the other clamp to the positive terminal of the other vehicle's battery. Connect the clamp of the black negative jumper cable to the negative terminal ② of your vehicle's battery, and connect the other clamp to the engine block or a solid metal part connected to the engine block of the other vehicle.
3. Start the vehicle with the good battery and let it run at idle. Then, start the engine of the vehicle with the depleted battery until it runs smoothly.
4. After the engine is running smoothly, remove the jumper cables in the reverse order of connection.

CAUTION

- When connecting the batteries of the two vehicles, you must connect the positive terminals first, then the negative terminals.
- Properly route the jumper cables to prevent them from contacting moving engine parts.

WARNING

- **Before disconnecting the jumper cables, ensure that the headlights are turned off.**
- **Turn on the blower fan and rear window defroster in the vehicle with the depleted battery to reduce the voltage spike when disconnecting the cables.**
- **Disconnect the jumper cables in the reverse order while the engine is running.**

⚠ WARNING

Improper use of jumper cables can cause battery explosion, resulting in severe injury.

- **The voltage of the booster battery must be the same as that of the depleted battery, and the capacities of the two batteries should be as similar as possible. Otherwise, an explosion could occur.**
- **Never allow the battery to come into contact with open flames to prevent explosion.**
- **Never connect the negative cable directly to the negative terminal of the discharged battery. Also, there should be no static electricity near the battery, otherwise, flammable gases produced by the battery may be ignited by sparks, causing an explosion.**
- **Never connect the negative cable to fuel system components or brake lines. Do not lean over the battery during operation to prevent acid burns.**

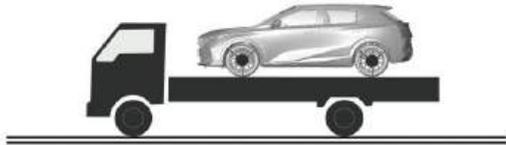
⚠ WARNING

Jumper cables must be connected correctly to the positive and negative terminals of the battery as described above. Do not connect them to other locations on the battery, otherwise it may cause fuse burnout or malfunction of some vehicle functions. The company will not bear any quality warranty responsibility.

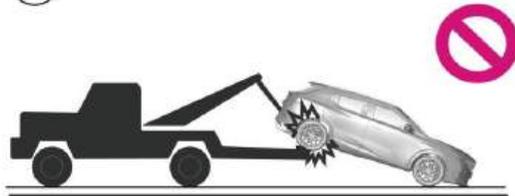
8. Accident Handling

8.7 Vehicle Towing

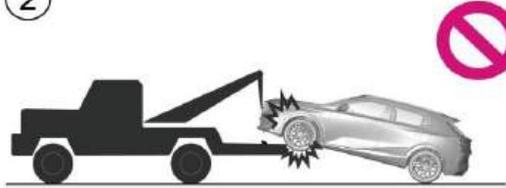
①



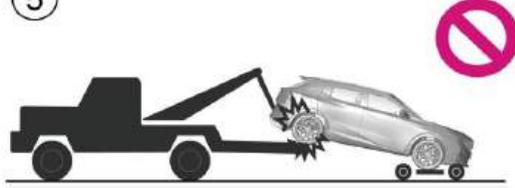
④



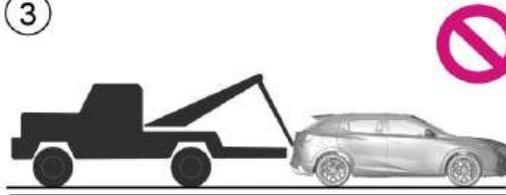
②



⑤



③



When the vehicle breaks down or has an accident preventing it from starting normally, the platform flatbed truck towing method shown in Figure ① should be used to remove it from the scene.

i Tip

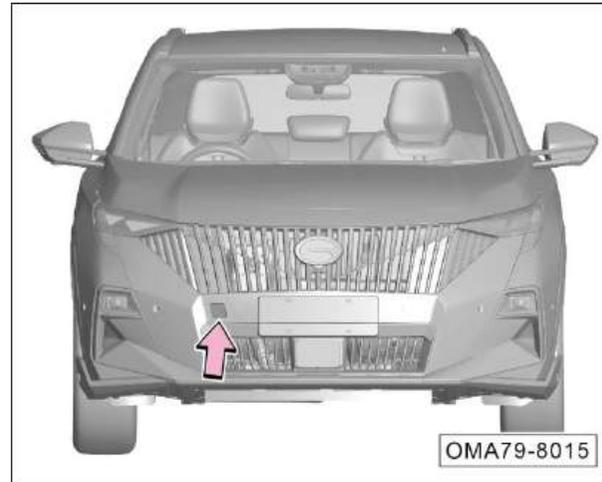
- If the vehicle needs to be towed, it should be done by a GAC Service Center or a professional towing company.
- If a platform truck cannot be used for vehicle towing, a rigid connection method can be used to emergency tow the vehicle to a safe area, awaiting rescue.
- When using rigid towing, avoid long-distance towing, and the towing speed should not exceed 5km/h.
- Ensure there are no safety risks with the vehicle before towing it away from the scene.

Emergency Towing

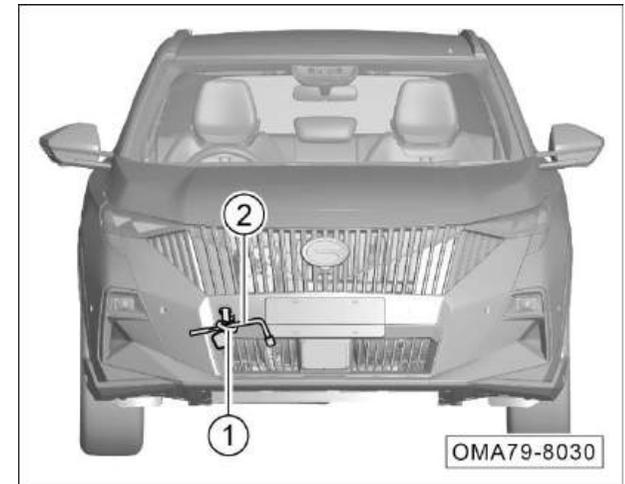
In an emergency, if a flatbed tow truck cannot be found, a tow cable or tow chain can be secured to the emergency towing eye for temporary vehicle towing. However, this method is only suitable for low-speed, short-distance towing on firm, flat roads.

⚠ WARNING

During emergency towing, drive slowly and avoid abrupt maneuvers. Excessive towing force can damage the vehicle.

Installing Towing Hook**Installing the Front Towing Hook**

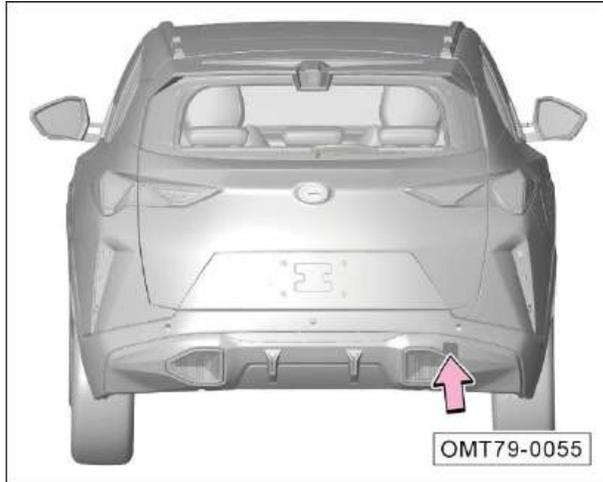
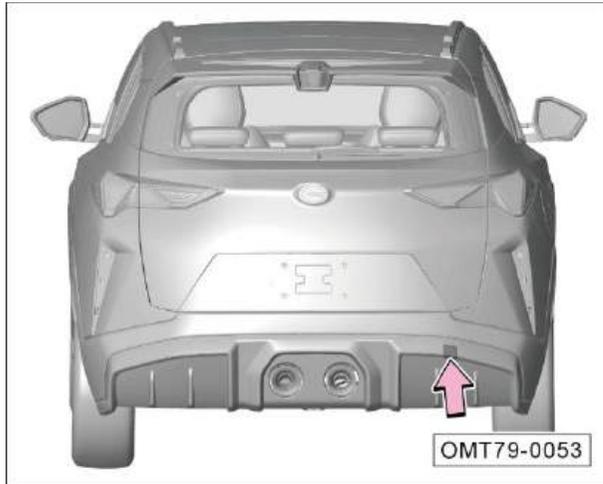
1. Use a cloth-wrapped flat-head screwdriver to pry open the towing hook cover at the - arrow - position.



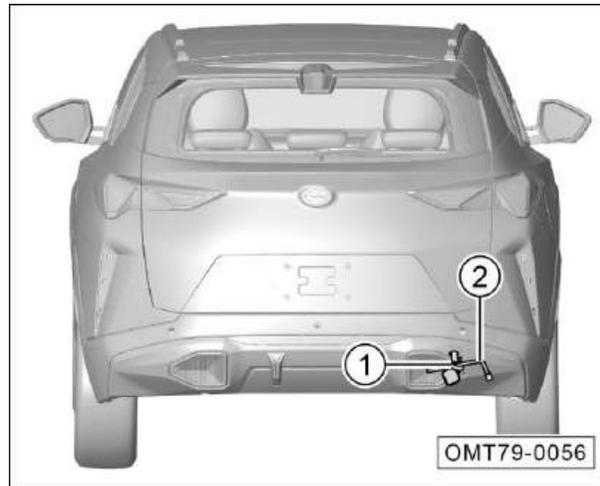
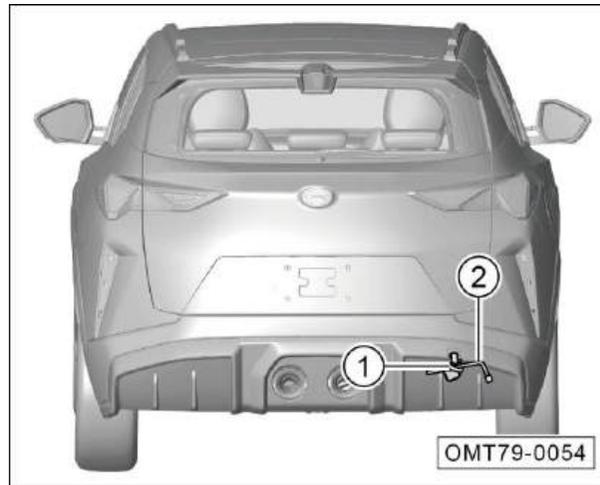
2. Take out the tow hook ① and the wheel bolt removal wrench ② from the on-board tool kit in the trunk.
3. Screw the tow hook ① clockwise into the threaded hole.
4. Insert the wheel bolt removal wrench ② into the round opening of the tow hook and rotate the wheel bolt removal wrench clockwise to firmly screw the tow hook into the threaded hole.

8. Accident Handling

Installing the Rear Towing Hook*



1. Use a cloth-wrapped flat-head screwdriver to pry open the towing hook cover at the - arrow - position.



2. Take out the tow hook ① and the wheel bolt removal wrench ② from the on-board tool kit in the trunk.
3. Screw the tow hook ① clockwise into the threaded hole.
4. Insert the wheel bolt removal wrench ② into the round opening of the tow hook and rotate the wheel bolt removal wrench clockwise to firmly screw the tow hook into the threaded hole.

CAUTION

Only some models are equipped with a towing eyelet at the rear of the vehicle. Please refer to the actual vehicle.

Towing Precautions

Before emergency towing, always follow these instructions:

- Both the towing and towed vehicles must have their hazard warning lights on and must comply with local traffic regulations.
- The tow hook must be firmly screwed into the threaded hole. Otherwise, the towing hook may slip out of the threaded hole during towing.
- The towed vehicle must be shifted to the "N" (Neutral) position.
- The towed vehicle needs to switch the vehicle power to the "ON" position, and turn the steering wheel back and forth to confirm that the steering wheel can turn.

During emergency towing, always follow these instructions:

- Start driving slowly until the tow rope is taut, then slowly accelerate.
- Drive smoothly; do not accelerate, decelerate, or turn sharply.
- When towing a vehicle, the towed vehicle should brake earlier than usual, but lightly press the brake pedal.
- During towing operations, the tow rope must always be kept taut.

8.8 Freeing the Vehicle from a Pit

If the vehicle is stuck in soft ground such as sand, mud, or snow, follow these steps to extricate it:

1. Observe the areas in front and behind the vehicle to ensure there are no obstacles.
2. Turn the steering wheel left and right to clear an area around the front wheels, removing mud, snow, or sand stuck around the tires.
3. Place wood blocks, stones, or other materials to help improve tire traction.
4. Start the vehicle and slowly accelerate to drive the vehicle out of the soft ground.
5. If the vehicle still cannot be extricated after several attempts, towing assistance is required.

Tip

During acceleration, human assistance can be used, pushing from the front and rear to help the vehicle move out of the pit.

This manual describes the configuration, functions, performance parameters, and product diagrams of the full range of this vehicle model. The actual configuration and functions of the vehicle are subject to the specific delivered vehicle. The exterior/interior diagrams in this manual are for reference only. If there are discrepancies between the product diagrams and the specific delivered vehicle, the actual vehicle delivered shall prevail.

The company reserves the right to adjust and optimize some functions by releasing updated iterative versions. The specific content shall be subject to the version announcement.

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