

Thanks for choosing Trumpchi vehicles manufactured by GAC Motor (Hangzhou) Co., Ltd. (hereinafter referred to as GAC Motor (Hangzhou)). For a better driving pleasure, please read the Owner's Manual carefully. This manual covers all instructions necessary for you to fully understand the operation methods and precautions of the vehicle. Proper operation of the vehicle can improve driving safety and prolong the service life of the vehicle.

The *Warranty Manual* supplied with the vehicle clearly describes the warranty services provided by GAC Motor (Hangzhou) and the regular maintenance of the vehicle. Please read this manual carefully to know your rights and responsibilities.

Please bring this manual with you for your reference when necessary.

In case of any doubts about this manual, please contact the GAC Motor authorized shop for detailed explanation.

If you have any suggestions or recommendations, please contact GAC Motor (Hangzhou) through the service hotline: 400-813-6666.

We are grateful for your support and love for GAC Motor (Hangzhou). Have a nice drive!

Notices to Readers

The safety of you and the passengers is crucial, so driving safely is an important responsibility of the driver.

In order to make clear the safety precautions, we provide operation steps and precautions through the various signs on the vehicle and this manual, reminding you of the potential dangers that will hurt you or the passengers.

It is impossible to list all the precautions for danger related to operation and maintenance of the vehicle in the manual, so it is up to you to make a correct judgment in time.

Those important safety instructions are available in many forms, including:

- Safety signs - pasted on the vehicle.
- Safety notes - the texts marked with warning symbol and warning words including “WARNING”, “CAUTION” or “NOTE” in front.

The meaning of warning words including “WARNING”, “CAUTION” and “NOTE” are as follows:

 WARNING	Very important instructions of which the nonobservance is likely to cause casualties.
 CAUTION	Important instructions of which the nonobservance is likely to cause damage to the vehicle.
 NOTE	General instructions of which the nonobservance could not cause injuries.

- Some paragraphs of this manual do not apply to all vehicle models. For the description of options, the title of them is followed by the symbol “**”.
- Unless otherwise specified, the directions of the vehicle (front, rear, left and right) referred to in this manual are based on the traveling direction of the vehicle.
- ENGINE START/STOP button or mechanical ignition switch is provided for the models of the vehicle series, and except for special description, the uniform term of “ignition switch” is used.

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1. Important Safety Precautions

◆ Be sure to fasten the seat belt correctly

The seat belt is the best protection device in the event of a collision. Airbags are only designed as auxiliaries, rather than replacements, of the seat belts, so even if the vehicle is equipped with airbags, make sure that you and the passengers always fasten the seat belts correctly.

◆ Do not leave children in an unattended vehicle

Do not leave children in an unattended vehicle, as injury or even death may occur if they trigger a control device accidentally, or when the vehicle is moved accidentally and collided with other objects due to their mis-operation, and besides, the temperature inside the vehicle may reach an extreme condition, depending on the ambient temperature.

◆ Protect all children

Children aged 12 or under should be properly restrained in the rear seats rather than the front seats. Child safety seats shall be used for infants and toddlers; and child safety seats and three-point seat belts shall be used for older children.

◆ Beware of danger of airbag

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

Airbags pose the greatest risk to infants, toddlers and short adults, so please follow all instructions and warnings in this manual.

◆ Never drink and drive

Drinking alcohol, even a little, will reduce your response capability, and your reaction time after drinking will become longer, so drinking and driving is strictly prohibited.

◆ During driving, please abide by the road traffic safety laws and yield to pedestrians.

◆ Be sure to pay attention to driving safety

Traffic accident will occur if you are busy answering the phone or handling other things so that you can not pay attention to road conditions, other traffics and pedestrians during driving. Please avoid distraction during driving.

◆ Control speed

Excessive speed is one of the main causes of traffic accidents. The faster the speed is, the greater the risk will be. Therefore, please choose the appropriate speed for safe driving according to the actual road conditions.

◆ Regular maintenance

Tire burst or mechanical failure is very dangerous. In order to reduce the possibility of such problems, please check the tire pressure and status frequently, and carry out regular maintenance as specified in the *Warranty Manual*.

1. Important Safety Precautions

Event data recorder (EDR)

This vehicle is equipped with an event data recorder (EDR). The main function of EDR is to record data in the event of certain collisions or risk of collisions (such as airbag deployment or colliding with a barrier), so as to help understanding the operation of the vehicle system. EDR is specially used to record data related to vehicle dynamic control and safety systems in a short period of time. However, depending on the severity and type of collision, data may not be recorded.

The data specially recorded by the EDR of this vehicle include:

- The status of driver depressing the brake pedal (if applicable).
- The vehicle speed.
- The longitudinal acceleration
- Vehicle Identification Number

These data help better understanding the situation in the event of a collision and personal injury, and are used to assist accident analysis.

i NOTE

The EDR will record data only when a certain degree of collision occurs to the vehicle; EDR will not record data during normal driving.

EDR data disclosure

Except for the following circumstances, GAC Motor (Hangzhou) will not disclose the data recorded in the EDR to third parties:

- Reaching an agreement with the owner (or the lessee of the rental vehicle).
- At the official request of the police, courts or government agencies.

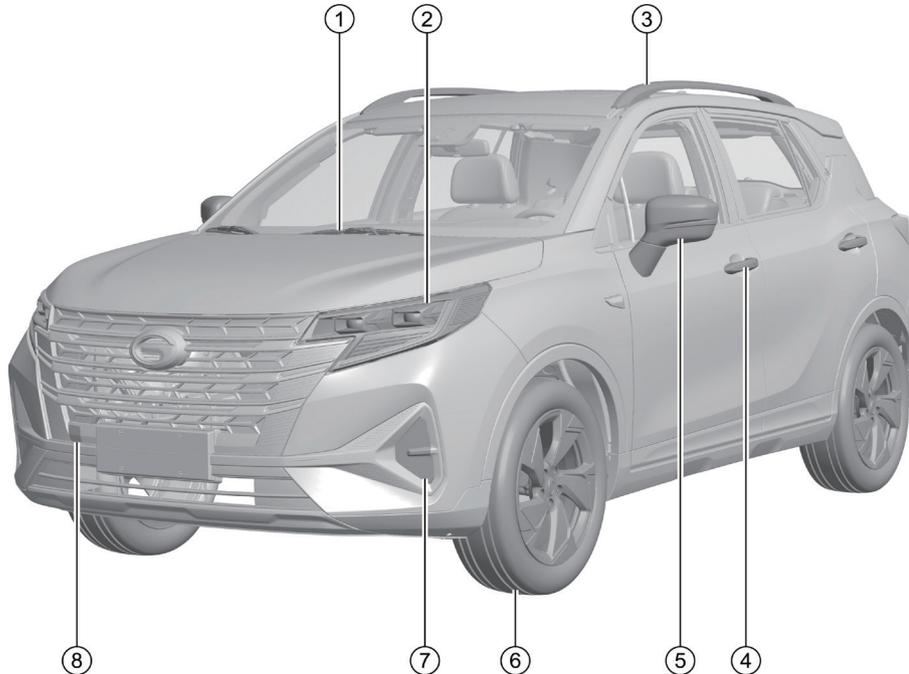
If necessary, the data will be used in:

- Research on vehicle safety performance.

How to obtain EDR data reading tool

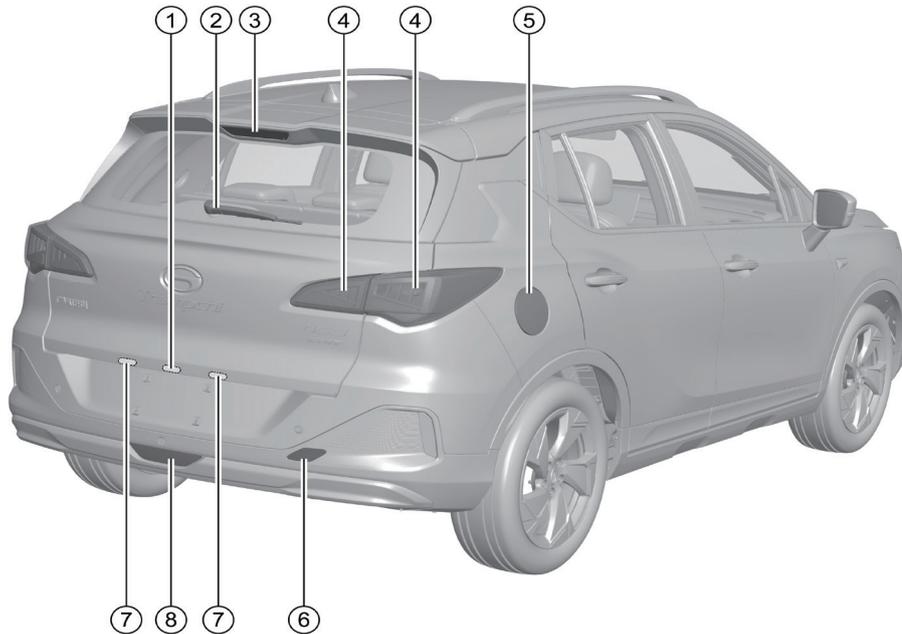
Special technical equipment is required to read EDR data. For more information, please contact GAC Motor authorized shop.

2.1 Exterior

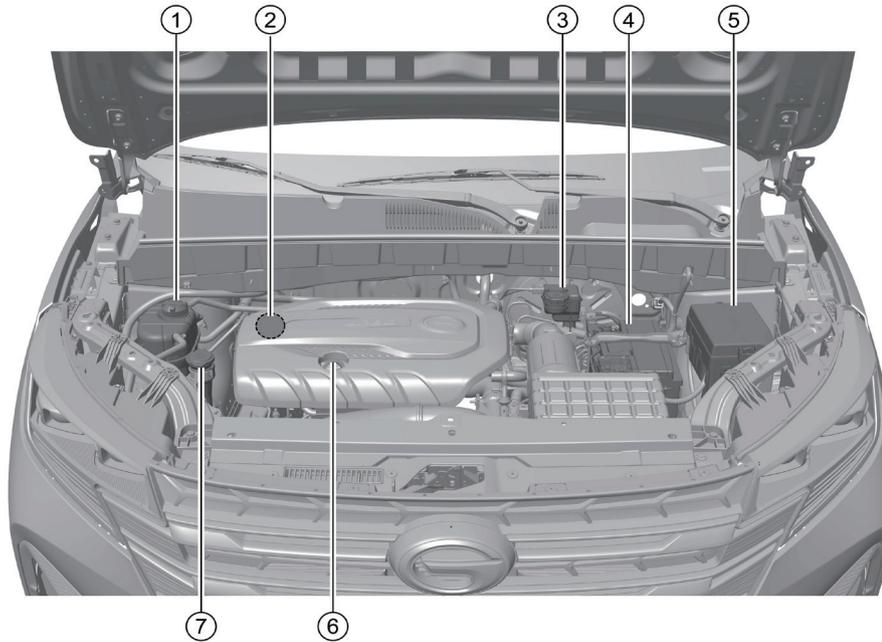


- ① Front wiper
 - Replacing front windshield wiper blades => [See page 192](#)
- ② Front combination lamp
 - Turning on lamps => [See page 70](#)
 - Replacing bulbs => [See page 199](#)
 - Specifications of front combination lamp bulb => [See page 224](#)
- ③ Luggage rack => [See page 93](#)
- ④ PEPS system* => [See page 61](#)
 - Door lock hole => [See page 57](#)
- ⑤ Exterior rearview mirror => [See page 80](#)
 - Side turn signal lamp => [See page 71](#)
 - Specifications of side turn signal lamp => [See page 224](#)
- ⑥ Wheel => [See page 207](#)
- ⑦ Front fog lamp * => [See page 74](#)
 - Specifications of front fog lamp * => [See page 224](#)
- ⑧ Front towing => [See page 248](#)

2. Picture index



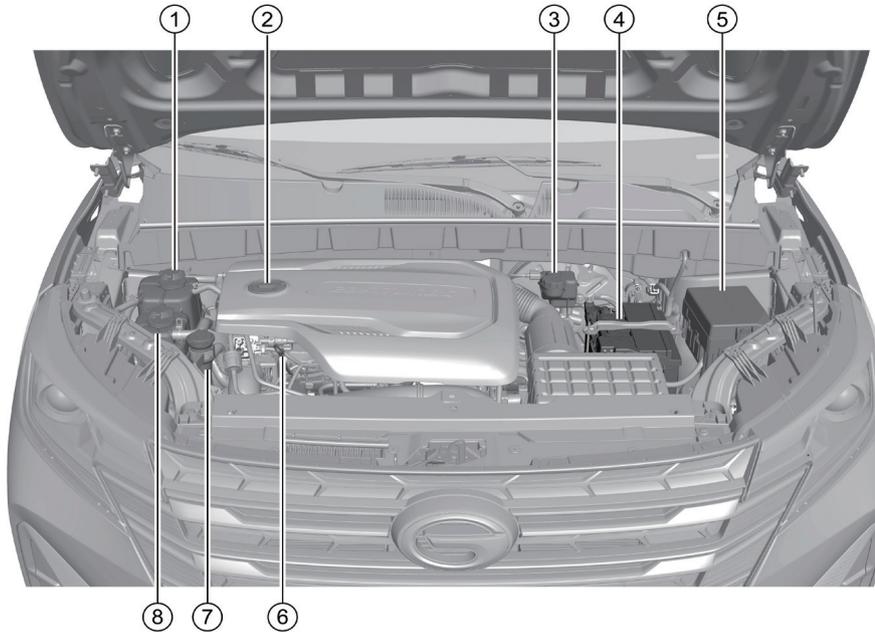
- ① Liftgate unlocking button => [See page 62](#)
- ② Rear wiper
 - Replacing rear windshield wiper blades => [See page 193](#)
- ③ High-mounted stop lamp
 - Specifications of high-mounted stop lamp => [See page 224](#)
- ④ Rear combination lamp
 - Specifications of rear combination lamp bulb => [See page 224](#)
- ⑤ Fuel tank cap => [See page 184](#)
- ⑥ Rear towing eye => [See page 248](#)
- ⑦ License plate lamp
 - Specifications of license plate lamp => [See page 224](#)
- ⑧ Rear fog lamp
 - Specifications of rear fog lamp => [See page 224](#)



Engine compartment (1.5T GDI engine)

- ① Engine coolant expansion tank => [See page 190](#)
- ② Oil filler cap => [See page 188](#)
- ③ Brake fluid reservoir => [See page 193](#)
- ④ Battery => [See page 195](#)
- ⑤ Engine compartment power distribution unit (PDU) => [See page 236](#)
- ⑥ Oil dipstick => [See page 187](#)
- ⑦ Windshield washer fluid reservoir => [See page 191](#)

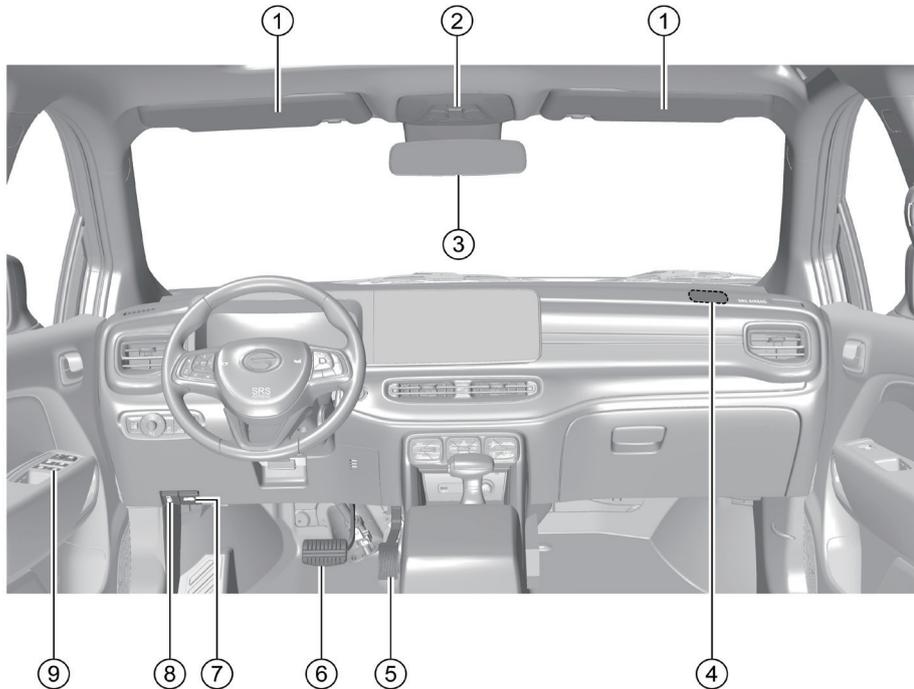
2. Picture index



Engine compartment (1.5TM engine)

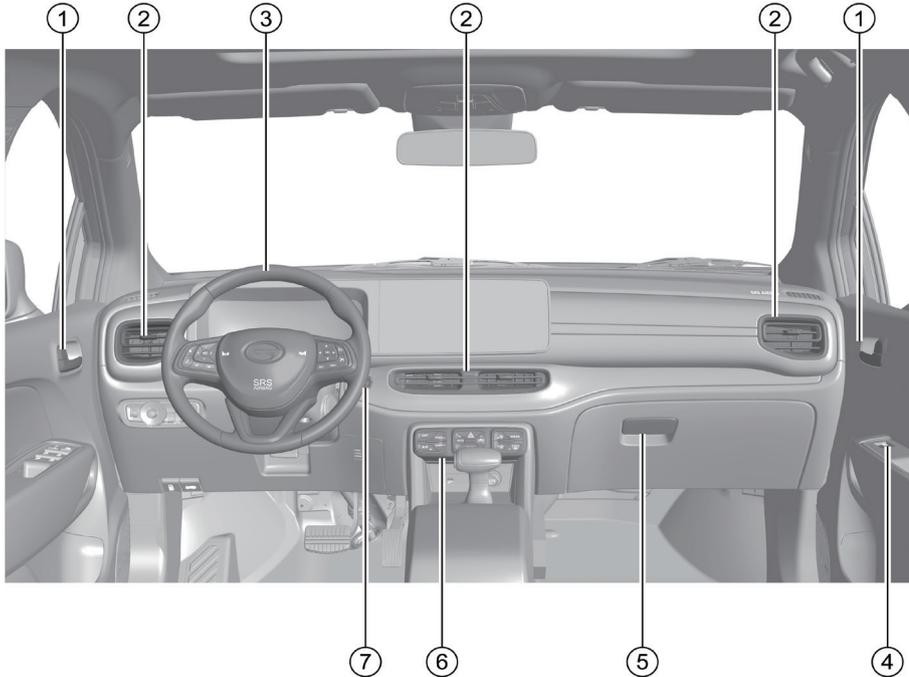
- ① Engine coolant expansion tank => [See page 190](#)
- ② Oil filler cap => [See page 188](#)
- ③ Brake fluid reservoir => [See page 193](#)
- ④ Battery => [See page 195](#)
- ⑤ Engine compartment power distribution unit (PDU) => [See page 236](#)
- ⑥ Oil dipstick => [See page 187](#)
- ⑦ Windshield washer fluid reservoir => [See page 191](#)
- ⑧ Intercooler coolant reservoir => [See page 190](#)

2.2 Interior



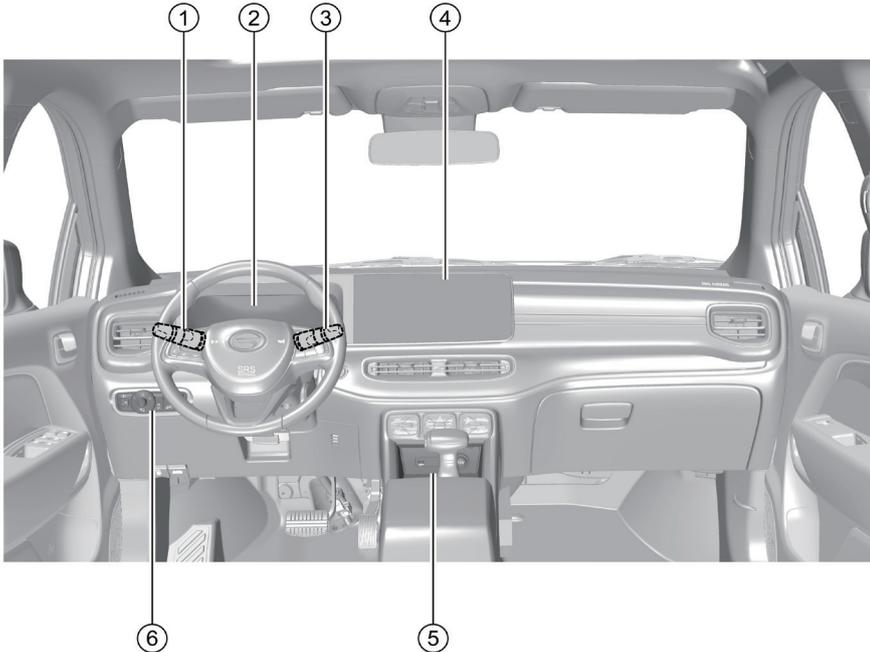
- ① Sun visor=> [See page 82](#)
- ② Front dome lamp => [See page 76](#)
 - Power sunroof control button *=> [See page 67](#)
 - Emergency call button of GAC Motor T-BOX APP*=> [See page 127](#)
 - Spectacle case => [See page 88](#)
- ③ Interior rearview mirror => [See page 80](#)
- ④ Front passenger's frontal airbag => [See page 21](#)
- ⑤ Accelerator pedal
- ⑥ Brake pedal
- ⑦ Engine hood release handle => [See page 64](#)
- ⑧ Fuel filler cap release handle => [See page 184](#)
- ⑨ Driver's power window control button => [See page 65](#)
 - Central locking button => [See page 56](#)

2. Picture index



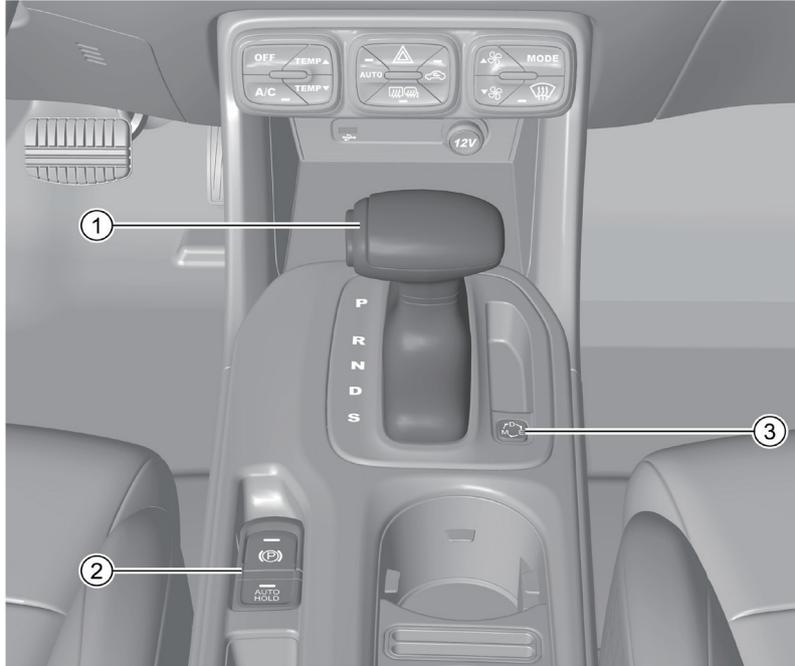
- ① Door latch and inside handle => [See page 56](#)
- ② A/C air outlet => [See page 101](#)
- ③ Steering wheel => [See page 36](#)
 - Buttons on steering wheel => [See page 37](#)
 - Driver's frontal airbag => [See page 20](#)
- ④ Passenger's power window control button => [See page 66](#)
- ⑤ Glove box opening handle => [See page 88](#)
- ⑥ HCP => [See page 96](#)
- ⑦ ENGINE START/STOP button * => [See page 96](#)

2. Picture index



- ① Lamplight combination switch => [See page 70](#)
- ② Instrument cluster => [See page 38](#)
 - Indicator lamp => [See page 47](#)
- ③ Wiper combination switch => [See page 77](#)
- ④ AV system display => [See page 104](#)
- ⑤ USB interface => [See page 90](#)
 - 12V power outlet => [See page 89](#)
- ⑥ Instrument panel left switch block:
 - Exterior rearview mirror adjusting knob=> [See page 80](#)
 - HDC button => [See page 150](#)
 - ESP OFF button => [See page 148](#)
 - Manual headlamp leveling knob => [See page 73](#)

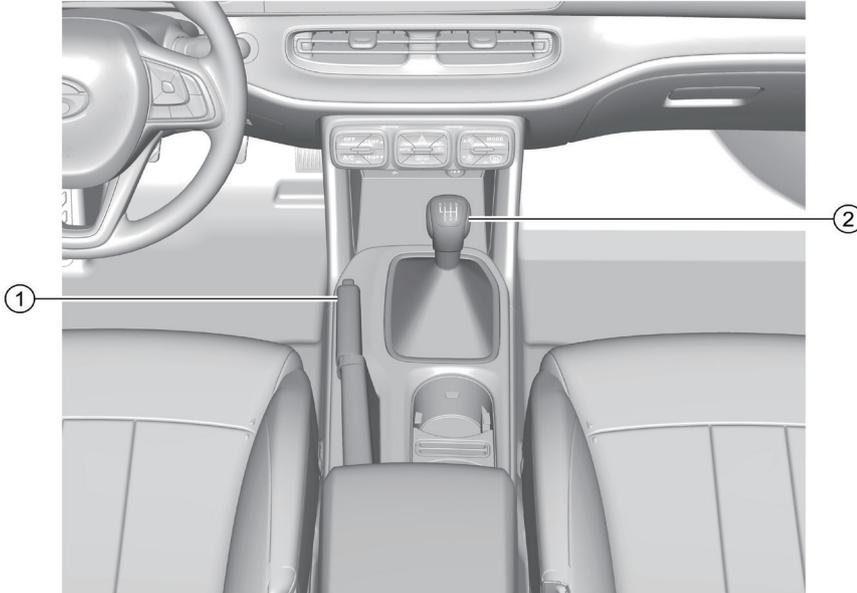
2. Picture index



- ① AT gearshift lever* => [See page 135](#)
- ② EPB button*=> [See page 142](#)
- ③ Driving mode button* => [See page 136](#)

2. Picture index

- ① Mechanical parking brake lever * => [See page 146](#)
- ② MT gearshift lever * => [See page 138](#)



3. Instructions for safe operation

3.1 Safe driving

3.1.1 General description

This section introduces important information, operating essentials, recommendations and safety precautions for safe driving. For the safety of you and the passengers, please read carefully and follow the relevant regulations.

NOTE

Please always keep the Owner's Manual in the vehicle. If you lend or resell the vehicle to someone else, be sure to hand the complete set of accompanying documents over to the new owner.

The following inspections must be carried out before driving:

- Check that all lamps are working properly.
- Check that the fuel level is normal.
- Check that the coolant level is normal.
- Check that the brake fluid level is normal.
- Check that the windshield washer fluid level is normal.
- Check that the tire pressure is normal.
- Check that all windows are clear and have a good view.
- Check that no objects obstruct the movement of the driver's foot pedals.
- Adjust the seat, head restraint and rearview mirror according to your body height and shape.
- Use appropriate child safety seats to protect children and help them fasten the seat belts correctly.
- Fasten the seat belt correctly and remind all passengers in the vehicle to fasten the seat belts correctly.
- Check that the surrounding environment is safe.

WARNING

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

- Do not overlap two or more floor mats.
- Do not make the bottom surface of the floor mat upward or back-to-front.
- Do not use floor mats that are incompatible with this model.

CAUTION

- Do not distract yourself from external factors during driving.
- Do not drive the vehicle when your response capability reduces, such as due to medicines, alcohol, or drugs.
- Strictly abide by traffic regulations.

3.1.2 Correct sitting posture of the driver and passengers

Correct sitting posture of the driver

The driver's sitting posture directly affects his/her fatigue level and driving safety. Before driving, the driver should:

- sit up straight and adjust the seat back to a suitable position so that your back fits completely the seat back.
- adjust the seat position so that all pedals can be operated effectively with slightly bent legs.
- correctly adjust the headrest. => [See page 83](#)
- fasten the seat belt correctly. => [See page 17](#)
- adjust the steering wheel position. => [See page 36](#)

WARNING

Do not adjust the seat, headrest or steering wheel during driving; otherwise the vehicle may be out of control, leading to an accident.

Correct sitting posture of the passengers

To guarantee the safety of the passengers and reduce the risk of casualties, the passengers should:

- sit up straight and adjust the head restraint of the seat correctly. => [See page 83](#)
- adjust the distance between the seat and the instrument panel as demanded (for front passenger).
- adjust the seat back until the back fits completely the seat back (for front passenger).
- fasten the seat belt correctly. => [See page 17](#)
- place both feet on the floor.
- use appropriate child safety seat in accordance with applicable regulations for children. => [See page 27](#)

WARNING

- It is forbidden to install a child safety seat in the front passenger's seat.
- If the front passenger is too close to the instrument panel, the SRS will not provide effective protection.
- When the vehicle is running, be sure to maintain a correct sitting posture and fasten the seat belt correctly, so as to avoid unexpected injuries in case of emergency braking or accidents.

3. Instructions for safe operation

3.2 Seat belt

3.2.1 Why must you fasten the seat belt

Protection of the driver and passengers by seat belts



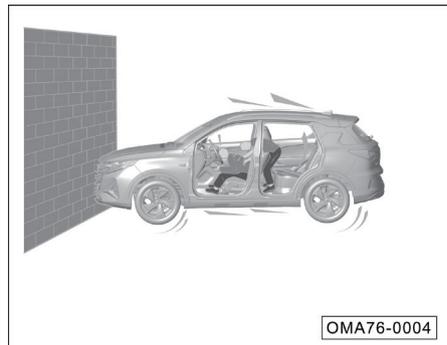
In the event of a vehicle collision, the seat belt, if fastened correctly, can restrain the driver and passengers in a proper position and slow down the inertia of their forward movement, thus preventing them from being thrown forward, and at the same time allow airbags to give them the best protection, thus reducing their impact injury as much as possible.

In the event of a collision, the seat belt will assist other safety systems in simultaneously absorbing the energy generated by the collision, further reducing the injuries suffered by the driver and passengers.

WARNING

Airbags cannot replace seat belts. Regardless of the availability of airbags, the seat belts should be fastened correctly.

Consequences of not fastening the seat belt



In the event of a collision, the driver or passenger who does not fasten the seat belt will be thrown forward due to inertia and thereby injured.



Even if the vehicle speed is very low, the force acting on the human body in the event of a collision is so great that the occupant cannot control his or her body with hands at all. In that case, the occupant who does not fasten the seat belt will be thrown forward, and injured if colliding with any interior objects.



Rear passengers must also fasten the seat belts correctly, otherwise they will be thrown forward when an accident occurs. The passenger who does not fasten the seat belt will not only hurt himself or herself, but also endanger other occupants in the vehicle.

3.2.2 Seat belt

Seat belt indicator lamp

: Driver's seat belt indicator lamp

: Front passenger's seat belt indicator lamp

The following alarms will be triggered when the ENGINE START/STOP button is set to "ON" position:

- if the driver or front passenger does not fasten the seat belt at a speed lower than 20km/h, the corresponding indicator lamp in the instrument cluster will flash for about 6s and stay on, accompanied by an alarm message.
- if the driver or front passenger does not fasten the seat belt at a speed higher than or equal to 20km/h, the corresponding indicator lamp in the instrument cluster will flash for about 20s and stay on, accompanied by an alarm message and a continuous audible alarm.

CAUTION

- Before driving, please check whether there are any heavy objects on the front passenger's seat to avoid the system mistakenly determining that the seat is occupied and issuing a false alarm.
- If the alarm remains on after the seat belt is fastened correctly, it means that the SRS is failed. In that case, please go to the GAC Motor authorized shop for inspection in time.

3. Instructions for safe operation

Seat belt pretensioner and load limiter



The seat belt pretensioner and load limiter can reduce the pressure of the seat belt on the chest of the driver or passenger and improve the protection performance.

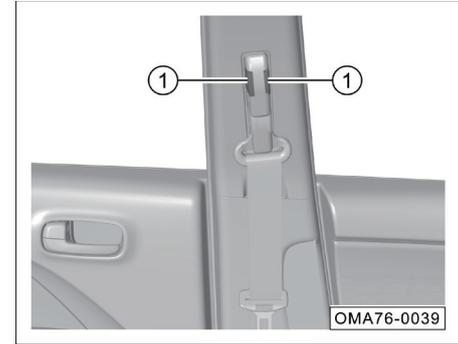
- Before the collision, the seat belt pretensioner and load limiter can restrain the driver or passenger and enable him or her to maintain a correct sitting posture to prevent the body from leaning forward.
- In the event of a severe collision where the triggering condition is reached, the seat belt pretensioner and load limiter will be triggered, driving the seat belt webbing to be quickly retracted and tensioned.

- When a vehicle collision occurs, the human body will move forward, and the seat belt load limiter will be activated at this time, so that the restraint force of the seat belt on the human body will be within a certain range, preventing the occupant from being further injured due to excessive force. And at the same time, the seat belt pretensioner and load limiter will work with the airbag to achieve a better safety protection performance.

i NOTE

- When the seat belt pretensioner and load limiter is activated, a little harmless smoke together with a sound will be produced, which is normal.
- The seat belt pretensioner and load limiter cannot be used any more if deployed, and in this case, the SRS indicator lamp  stays on, please contact the GAC Motor authorized shop for replacement.

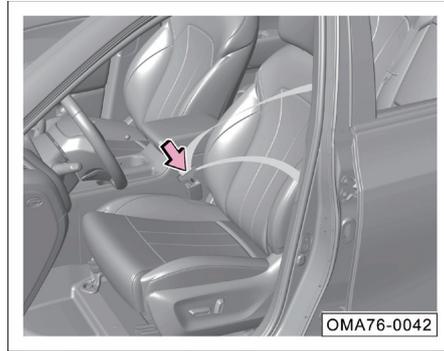
Adjusting the shoulder belt height



- Moving up: Grasp the guide and move it up to adjust the shoulder belt to the appropriate height.
- Moving down: Press the guide to unlock the switch ① and move it down to adjust the shoulder belt to the appropriate height.
- After the adjustment, move the guide down to check whether it is firmly locked.

3. Instructions for safe operation

Fastening the front seat belt

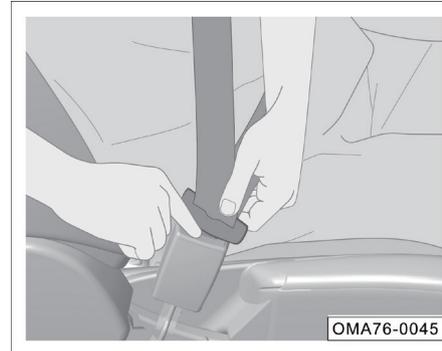


- Keep a correct sitting posture. => See [page 13](#)
- Pull out the seat belt slowly at a uniform speed, insert the lock tongue into the corresponding buckle until a click sound is heard.
- Pull the seat belt and confirm that the lock tongue is properly locked.

i NOTE

All seat belts are fastened in the same way, and the driver is responsible for reminding passengers to fasten the seat belts correctly.

Unfastening the seat belt



- Press the red button of the buckle. Then the lock tongue will pop out automatically.
- Grasp the seat belt to allow it to retract slowly.

Pregnant women must fasten the seat belts correctly



How should a pregnant woman fasten the seat belt?

- Adjust the seat and head restraint to the proper position.
- Grasp the lock tongue, slowly pull the seat belt over the shoulder, and ensure that the lap belt is as low as possible and not pressed against the abdomen.
- Insert the lock tongue into the corresponding buckle until a buckling sound is heard.
- Pull the shoulder belt upward parallel to the upper body, tension the lap belt, and make sure that the lock tongue is properly locked.

3. Instructions for safe operation

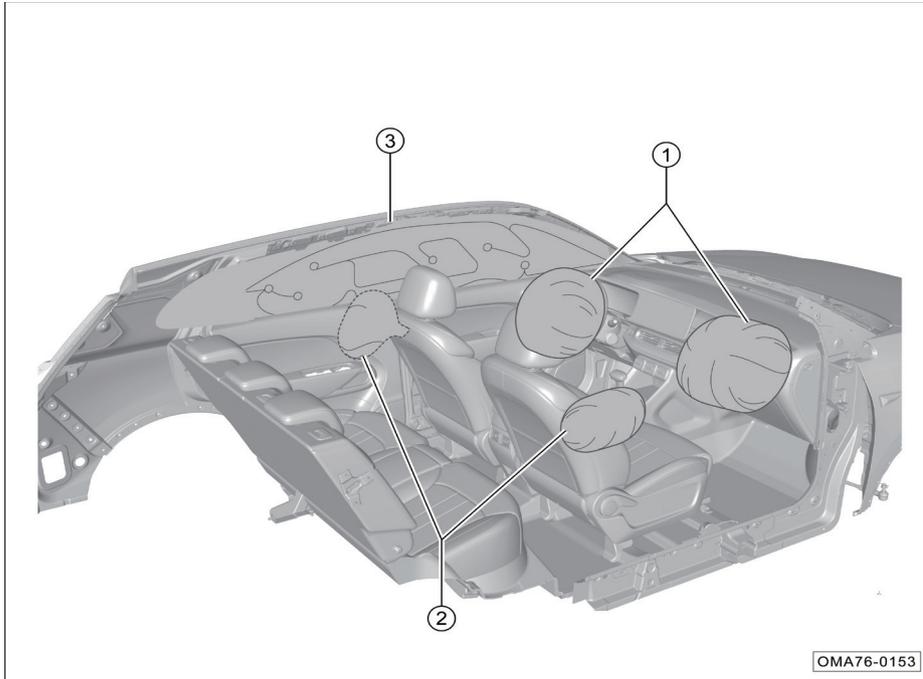


WARNING

To reduce the risk of injury during emergency braking or accidents, please observe the following precautions:

- Before driving, make sure that all occupants have properly fastened the seat belts.
- Each seat belt is for one person only. Do not share a seat belt with other persons (including children).
- Do not recline the front seat back excessively for comfort.
- Do not put the shoulder belt under or behind your arm.
- Be sure to insert the lock tongue into the buckle of corresponding side instead of the buckle of other side.
- Never unfasten the seat belt before the vehicle comes to a complete stop.

3.3 Supplemental restraint system (SRS)



Depending on vehicle configurations, the deployment positions of the SRS are as shown below:

- ① Front seat frontal airbag
- ② Front seat side airbag*
- ③ Side curtain airbag*

i NOTE

The airbag will produce a little harmless smoke when deployed, which is normal.

3. Instructions for safe operation

Supplemental restraint system (SRS) indicator lamp

After the ignition switch is switched to “ON” position, the indicator lamp  will be on for a few seconds and go out after the system completes self-test.

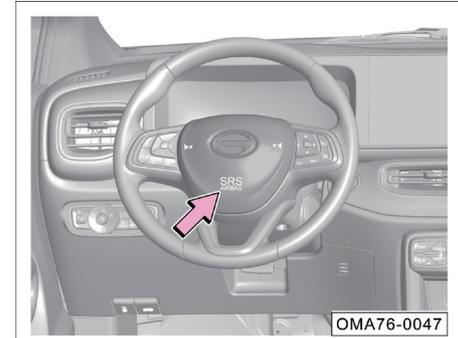
A system fault is indicated when the indicator lamp  is in the following conditions:

1. After the ignition switch is switched to “ON” position, the indicator lamp does not come on.
2. After the ignition switch is switched to “ON” position, the indicator lamp does not go out after the system completes self-test.
3. After the ignition switch is switched to “ON” position, the indicator lamp goes out but then comes on again.
4. The indicator lamp comes on or flashes while the vehicle is running.

WARNING

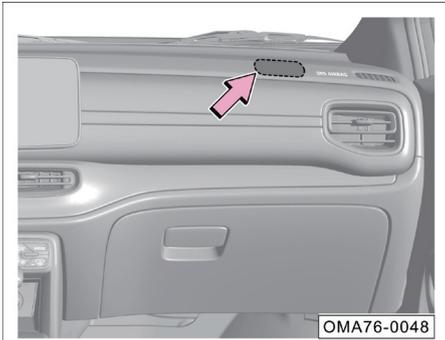
- **Never attempt to repair, adjust or modify the airbag.**
- **The airbag can be deployed once only, and thus, if it is deployed in the event of an accident, please contact the GAC Motor authorized shop for replacement.**
- **When the SRS is faulty, please contact the GAC Motor authorized shop for inspection; otherwise the system will not trigger or abnormally trigger the airbag in the event of a collision.**

Front seat frontal airbag



The driver's frontal airbag is installed inside the steering wheel (as indicated by the dotted dash) marked with “SRS AIRBAG”.

3. Instructions for safe operation



The front passenger's frontal airbag is installed inside the instrument panel (as indicated by the dotted dash) marked with "SRS AIRBAG".

In the event of a severe frontal collision where the triggering condition is met, the frontal airbags will be triggered by the system and deploy rapidly to assist the seat belts in protecting the driver and front passenger.

In certain collision accidents, the system may simultaneously trigger other airbags.

WARNING

Do not attach or place any decorative objects on the surface of instrument panel, because when the vehicle is running or the airbag deploys, these objects will fall, be knocked over and roll around in the vehicle, affecting the driver and hurting the passengers in the vehicle.

The front seat frontal airbags might not be triggered in the following cases:

- the ignition switch in "ACC" or "OFF".
- minor frontal collision.
- side collision.
- rear-end collision.
- rollover.
- other special circumstances.

NOTE

The word "minor" implies the severity of collision sensed by the vehicle control unit and has nothing to do with the damage of the vehicle.

3. Instructions for safe operation

Front seat side airbag*



The front seat side airbags are installed in the outboard sides of the driver's seat back and the front passenger's seat back respectively (as indicated by the dotted dash) marked with "AIRBAG".

In the event of a severe side collision where the triggering condition is met, the side airbags on the side where the vehicle collides will be triggered by the system and deploy rapidly to assist the seat belts in protecting the driver and front passenger.

In certain collision accidents, the system may simultaneously trigger other airbags.

The front seat frontal airbags might not be triggered in the following cases:

- the ignition switch in "ACC" or "OFF".
- 100% frontal collision.
- minor side collision.
- rear-end collision.
- other special circumstances.

i NOTE

The word "minor" implies the severity of collision sensed by the vehicle control unit and has nothing to do with the damage of the vehicle.

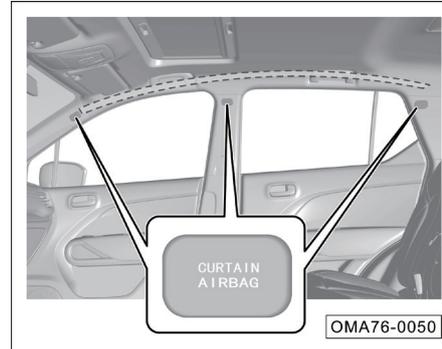
3. Instructions for safe operation



WARNING

- **Observe the instructions on the warning label pasted on the side of the door. Do not lean your body against the door side equipped with side airbags during driving.**
- **Do not cover the side airbags with seat covers or other objects; otherwise, the side airbags will not be triggered to protect the occupants when an accident occurs.**

Side curtain airbag*



Side curtain airbags are installed in the left and right sides of the roof respectively (as indicated by the dotted dash) marked with "CURTAIN AIRBAG".

In the event of a severe side collision, the side curtain airbags on the side where the vehicle collides will be triggered by the system and deploy rapidly to assist the seat belts in protecting the driver and passengers.

In certain collision accidents, the system may simultaneously trigger other airbags.

The side curtain airbags might not be triggered in the following cases:

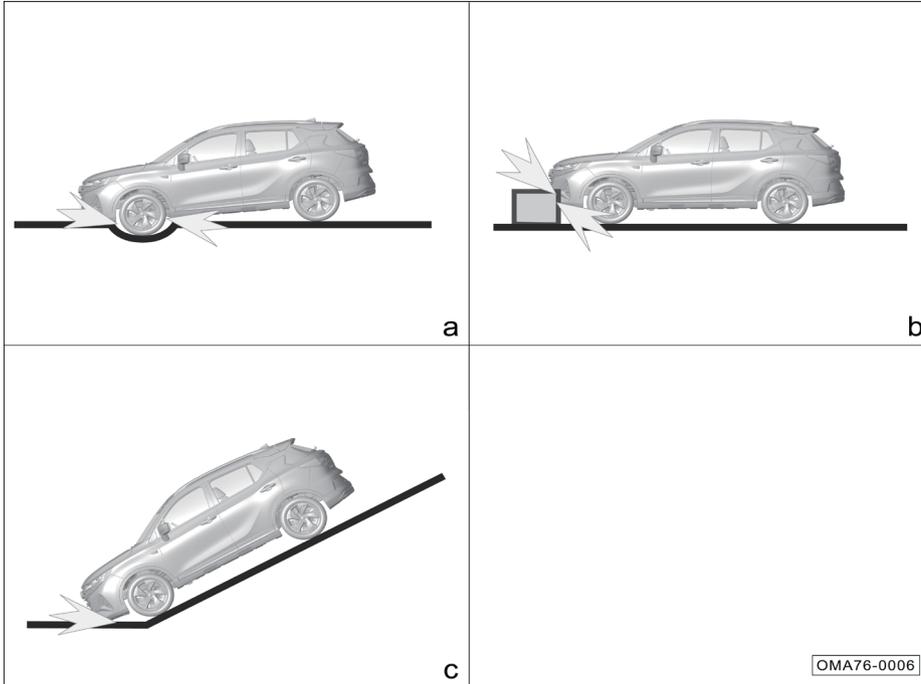
- the ignition switch in "ACC" or "OFF".
- 100% frontal collision.
- minor side collision.
- rear-end collision.
- other special circumstances.

NOTE

The word "minor" implies the severity of collision sensed by the vehicle control unit and has nothing to do with the damage of the vehicle.

3. Instructions for safe operation

3.3.1 Cases where the airbags may deploy

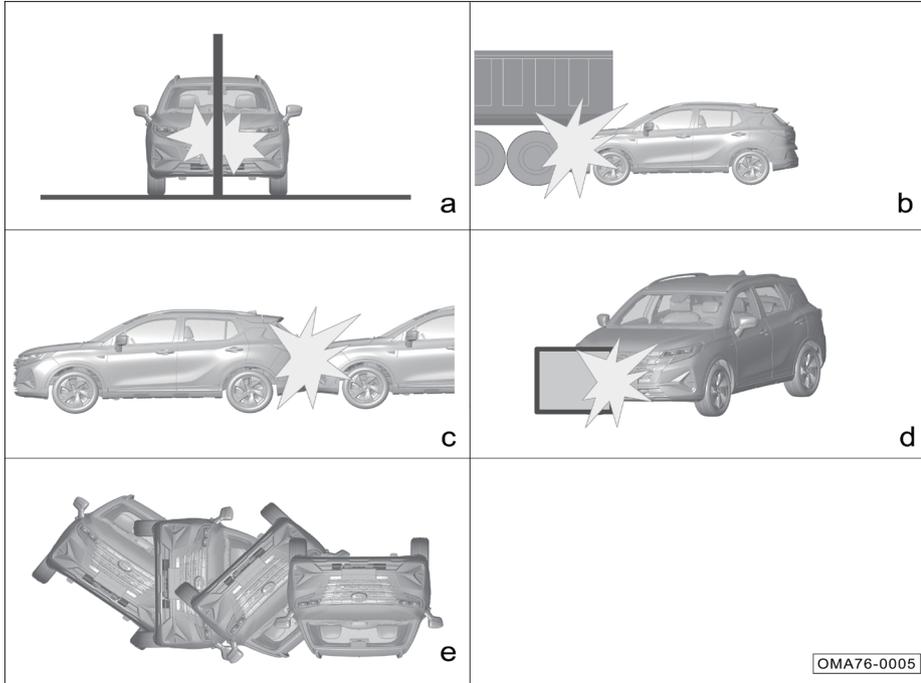


- a: Nose-down to the ground when the vehicle crosses a deep groove.
- b: Collision with roadside protrusions, curbs, etc.
- c: Nose-down to the ground when the vehicle runs down a steep slope.

OMA76-0006

3. Instructions for safe operation

3.3.2 Cases where the airbags might not deploy



- a: Collision with concrete pillars, trees or other elongated objects.
- b: Rear-end collision with the lower rear end of large truck.
- c: Rear-end collision by other vehicles.
- d: Collision with a wall or another vehicle, other than frontal collision.
- e: Rollover.

OMA76-0005

3. Instructions for safe operation

3.4 Child restraint

3.4.1 General description

The child must sit in a rear seat, and a suitable child safety seat should be selected according to the body size of the child.



Warning labels are pasted on the front and back of the right sun visor to remind the front passenger of the danger of frontal airbag. Be sure to read and follow the instructions on the labels.

⚠ WARNING

- Do not install any rear-facing child restraint system on seats with frontal airbags!
- Even if the child has been put in a child safety seat, do not let the head or any part of the body rest on the door area (the deployment area of the front seat side airbag* or side curtain airbag*); otherwise the impact force of the deployed front seat side airbag* or side curtain airbag* can cause serious injury or even death of the child.
- Do not let children stand or kneel on the seat.
- Do not allow children to operate devices that may cause pinch to themselves (such as power window, sunroof, etc.).

⚠ WARNING

- Never leave children alone in the vehicle!
- Never hold infants or toddlers on your knees!
- Seat belts are not suitable for infants and toddlers as they can cause injuries in the event of an accident.
- Ensure that in the event of a collision or emergency braking, children are less likely to be injured by hitting any hard objects in the vehicle.
- Lock the child safety lock of the door on the side where the child sits.

3. Instructions for safe operation

3.4.2 Child safety seat



a. Group 0/0+ child safety seats



b. Group I child safety seats



c. Group II child safety seats



d. Group III child safety seats OMA76-0037

Classification of child safety seats (for reference only):

- a. Group 0/0+ child safety seat**
 - Suitable for infants weighing less than 13kg.
- b. Group I child safety seats:**
 - Suitable for toddlers weighing between 9kg and 18kg.
- c. Group II child safety seats:**
 - Suitable for children weighing between 15kg and 25kg.
- d. Group III child safety seats:**
 - Suitable for children weighing between 22kg and 36kg.

3. Instructions for safe operation

3.4.3 Information about child safety seat

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

Weight group	Mounting position		
	Front passenger's seat	Outboard rear seats	Center rear seat
Group 0: <10 kg	X	U	X
Group 0+: <13 kg	X	U	X
Group I: 9~18 kg	X	U/UF	X
Group II: 15~25 kg	X	UF	X
Group III: 22~36 kg	X	UF	X

Note: The uppercase letters in the table are defined as follows:

U = All "general" child safety seats allowed for this weight group are suitable.

UF = All forward-facing "general" child safety seats allowed for this weight group are suitable.

X = The child safety seats for this weight group are not suitable.

For some child safety seats, a size class is specified. Be sure to check the size class according to the manufacturer's instructions, packaging, and child safety seat label. For guidance on proper installation, please refer to the instruction of the child safety seat.

3. Instructions for safe operation

Weight group	Size class	Fixture module	Mounting position		
			Front passenger's seat	Outboard rear seats	Center rear seat
Carry-cot	F	ISO/L1	X	X	X
Group 0: <10 kg	G	ISO/L2	X	X	X
	E	ISO/R1	X	IL	X
Group 0+: <13 kg	E	ISO/R1	X	IL	X
	D	ISO/R2	X	IL	X
	C	ISO/R3	X	IL	X
Group I: 9~18 kg	D	ISO/R2	X	IL	X
	C	ISO/R3	X	IL	X
	B	ISO/F2	X	IUF	X
	B1	ISO/F2X	X	IL	X
	A	ISO/F3	X	IUF	X
Group II: 15~25 kg	—	—	X	—	X
Group III: 22~36 kg	—	—	X	—	X

Note: The uppercase letters in the table are defined as follows:

IUF - The “forward-facing” general ISOFIX child safety seats for this weight group that are fixed with top tether are suitable.

IL - The listed special ISOFIX child restraint systems are suitable, which may be for special vehicles, or of restricted or semi-general categories.

X - The child safety seats for this weight group are not suitable.

For some child safety seats, a size class is specified. Be sure to check the size class according to the manufacturer's instructions, packaging, and child safety seat label. For guidance on proper installation, please refer to the instruction of the child safety seat.

3. Instructions for safe operation

3.4.4 Correct installation of child safety seat

The child safety seat is installed by three-point seat belt, ISOFIX system, or LATCH system.

To ensure a better protection effect and prevent the head restraint from affecting the performance of the child safety seat during use, it is recommended to remove the head restraint of the seat on which the child safety seat is installed.

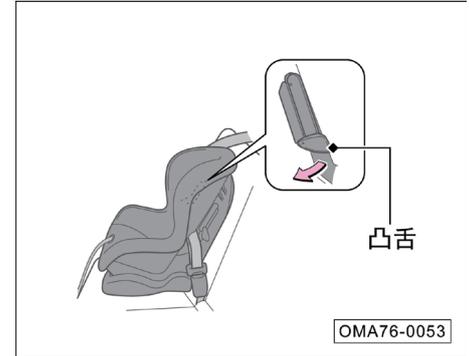
i NOTE

During the actual installation of the child safety seat, be sure to refer to the instruction of the child safety seat for correct installation.

Installation of child safety seat by three-point seat belt

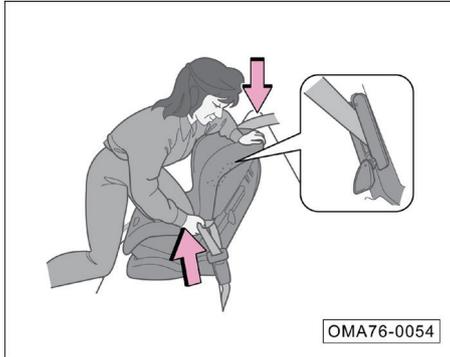


1. Place the child safety seat on the rear seat.
2. Pass the seat belt through the child safety seat and fully insert the tongue into the buckle until a click sound is heard.

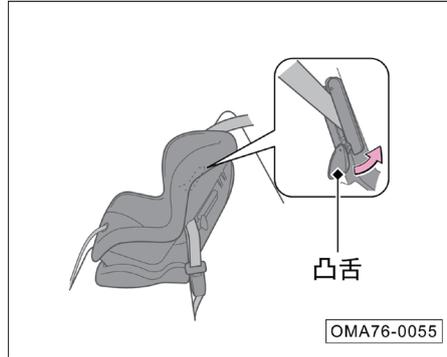


3. Push the tongue down and pass the shoulder belt through the slit on the side of the child safety seat.

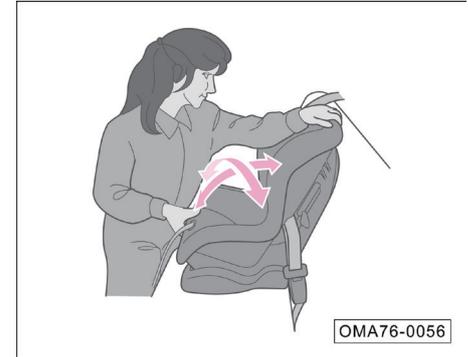
3. Instructions for safe operation



4. Grasp the shoulder belt near the buckle and pull it up to tension the lap belt. At this time, press the child safety seat with your own weight and push it into the vehicle seat.



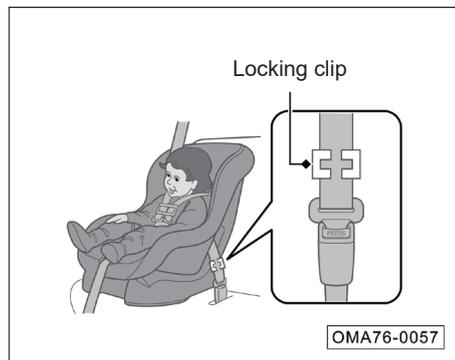
5. Place the seat belt correctly and push the tab up. Make sure the seat belt is not twisted. When pushing the tab up, pull upward the upper part of the shoulder belt to tension the belt.



6. Shake the child safety seat back and forth, left and right to make sure it is firmly fixed.

7. Make sure that all unused seat belts in the reach of the children are locked.

3. Instructions for safe operation



If no means are provided on the child safety seat for securing the seat belt, please install a locking clip on the seat belt.

- After the above steps 1 and 2, pull up the shoulder belt and make sure the lap belt is tensioned.
- Firmly grasp the seat belt near the locking tab. Pinch the two parts of the seat belt together so that they do not slip out of the locking tab. Unbuckle the seat belt.

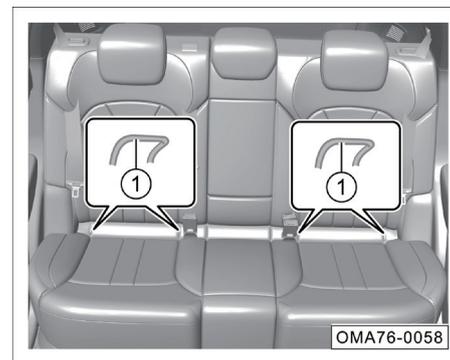
Install the locking clip as shown. Place the buckle as close as possible to the locking tab and insert the locking tab into the locking clip. Go to steps 6 and 7.

Installing LATCH or ISOFIX system

The rear seats of this vehicle are equipped with the LATCH system, and thus suitable for the LATCH or ISOFIX child safety seats. The installation instructions of the LATCH child safety seat are as follows.

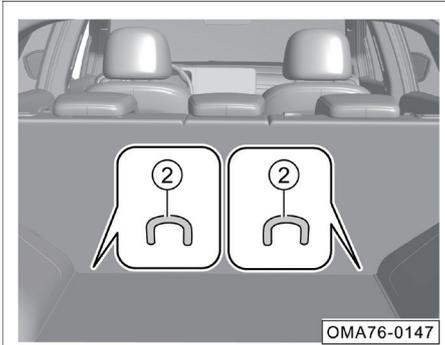
⚠ WARNING

- **The child safety seat anchorages installed in this vehicle can be used to fix the child safety seats only.**
- **Do not connect straps, hard and sharp objects or any other objects other than child safety seats to the anchorages; otherwise children may be endangered in the event of an accident.**



The front anchorage ① of the rear seat is hidden in the gap between the seat back and cushion.

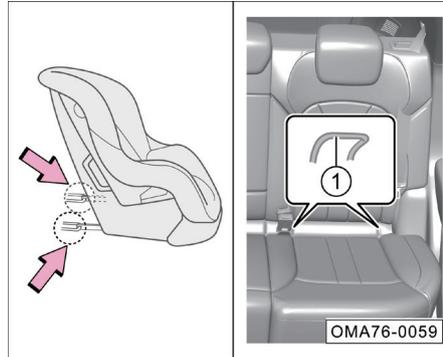
3. Instructions for safe operation



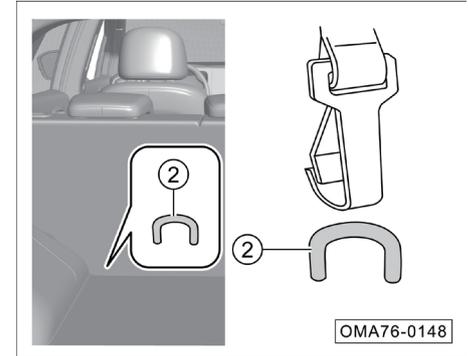
i NOTE

The rear anchorage ① of the rear seat is hidden below of the back face of the seat back.

The installation instructions of the LATCH child safety seat are as follows.



1. Put the child safety seat on the seat, find the front anchorage ①, and insert the lower guide groove of the child safety seat as arrowed into the front anchorage ① until a click sound is heard.



2. Thread the strap through the top of seat back and attach the strap hook to the rear anchorage ② with the strap not twisted.
3. Tension the strap and shake the child safety seat to ensure it is firmly fixed.

3. Instructions for safe operation

3.5 Exhaust gas hazard

Carbon monoxide

The exhaust gas emitted by the engine contains the toxic carbon monoxide. Please use the vehicle correctly to prevent the carbon monoxide from entering the vehicle.

Please contact the GAC Motor authorized shop to check whether the exhaust system is normal in the following cases:

- The exhaust system makes abnormal noises.
- The exhaust color is abnormal.

When the vehicle is driven with the trunk lid open, the exhaust gas will enter the vehicle, which is dangerous. If you must drive the vehicle with the liftgate open, please open all windows and turn on the A/C system as follows:

1. Select the fresh air mode.
2. Select  mode.
3. Set the fan speed to the maximum.

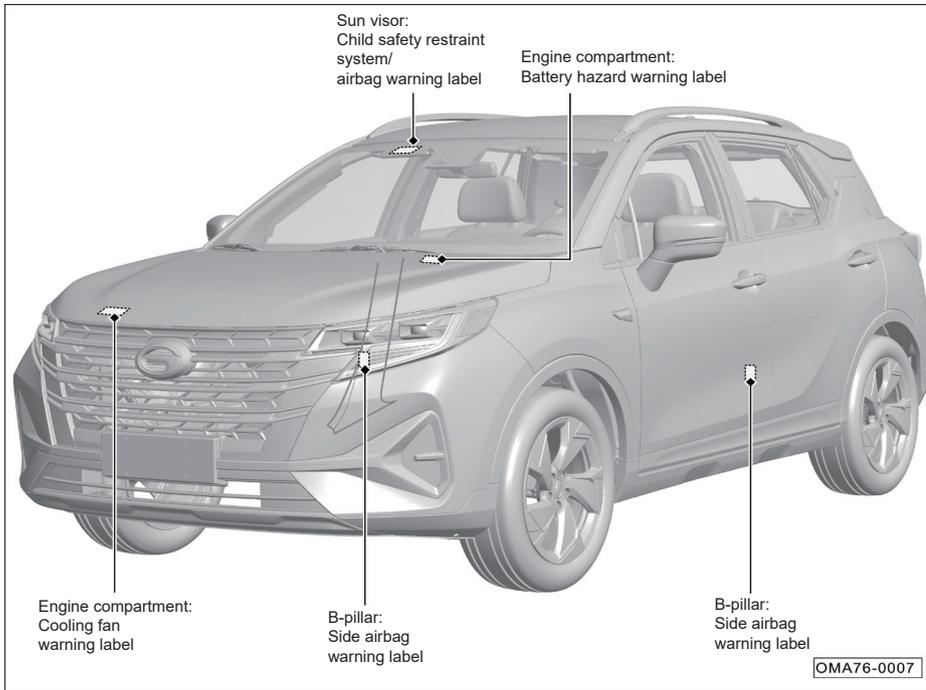
If the engine is idling during parking, adjust the A/C system in the same way.



WARNING

- **Carbon monoxide is toxic, and inhaling a great quantity of it will cause loss of consciousness and even death.**
- **When the engine is started for a long time in a confined space (such as a garage, etc.), carbon monoxide will quickly accumulate, resulting in excessive carbon monoxide in the vehicle. After starting the engine, drive the vehicle away from the confined space immediately.**

3.6 Safety label



The labels are located as shown to remind you of the potential danger that can cause serious injury or death. Please read these labels carefully.

If the label comes off or is difficult to read, please go to the GAC Motor authorized shop in time for replacement.

i NOTE

In case of any discrepancy in the illustrated location or quantity of the labels, the actual vehicle shall prevail.

4. Operation of systems and equipment

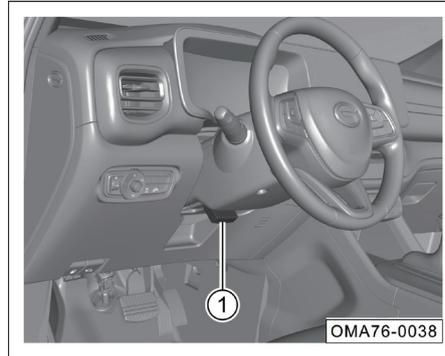
4.1 Cab

4.1.1 Steering wheel

Adjustment of the steering wheel position



- Adjust the driver's seat until your chest is at least 25mm away from the steering wheel.



- Pull up the locking handle ① to unlock the steering wheel.
- Adjust the steering wheel up and down to the appropriate position, so that you can see the instrument panel and all indicator lamps.
- Push down the locking handle ① to lock the steering wheel, and make sure it is firmly locked.

WARNING

- During driving, the driver's hands should always grasp the outer ring of the steering wheel (9 o'clock and 3 o'clock positions).
- After adjustment, the steering wheel must be locked to prevent shifting while the vehicle is running.
- Only when the vehicle is stopped can the steering wheel be adjusted to avoid traffic accidents.
- To ensure safety, the steering wheel should face your chest, otherwise the airbag cannot provide effective protection in the event of an accident.

Buttons on steering wheel*



- ① AV system control button => [See page 102](#)
- ② Horn button: Press  button to sound the horn; release the button to stop sounding the horn.

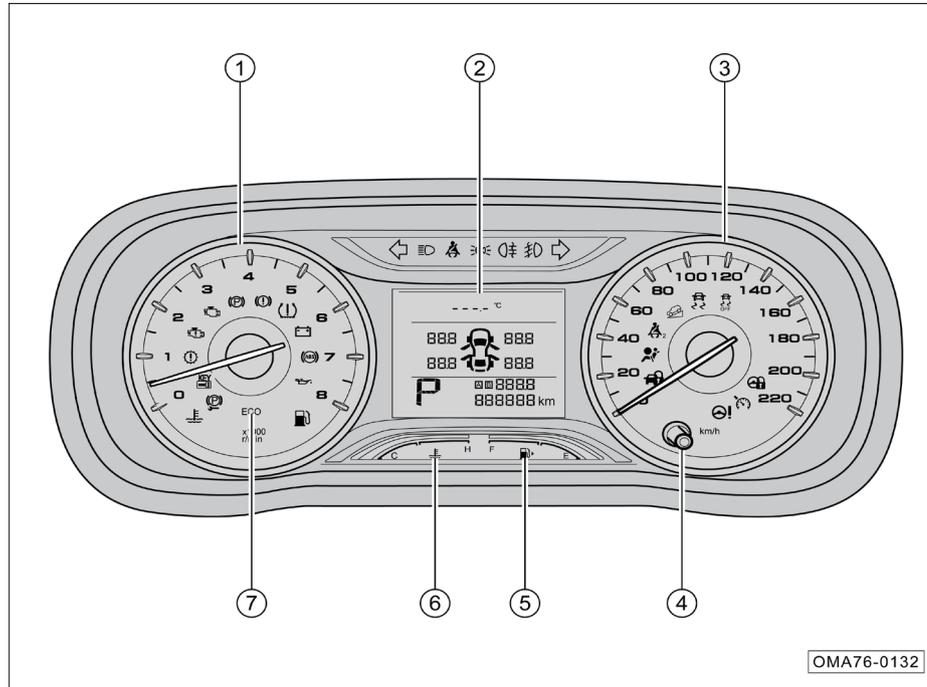
WARNING

Do not press and hold  button for a long time; otherwise the horn is highly prone to be damaged.

- ③ The right buttons include the control buttons of the instrument cluster display and the cruise control buttons:
 - Control buttons of the instrument cluster display*:
 - Driving information => [See page 42](#)
 - Menu setting => [See page 44](#)
 - Alarm information => [See page 41](#)
 - Cruise control buttons* => [See page 151](#)

4. Operation of systems and equipment

4.1.2 Instrument cluster



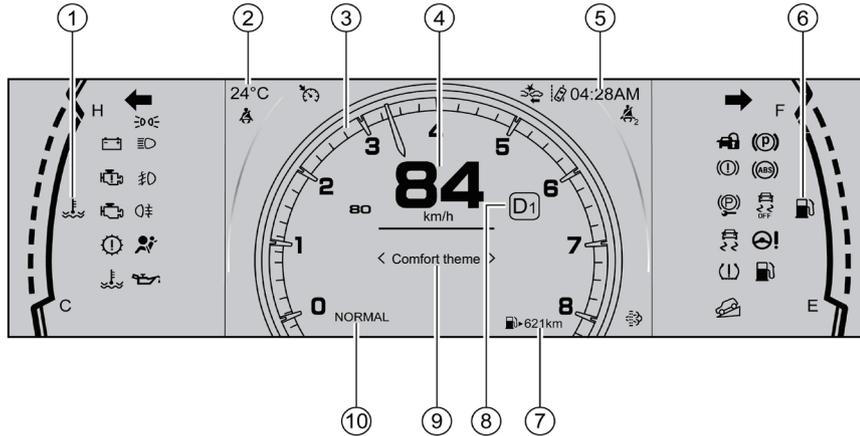
Instrument cluster with TFT display*

- ① Tachometer
- ② Instrument cluster display
 - Displayed information: door open indication, gear display*, mileage indication, driving information, menu settings, warning information.
- ③ Speedometer
- ④ Backlight brightness / trip meter adjustment rod
- ⑤ Fuel gauge
- ⑥ Engine coolant temperature gauge
- ⑦ Driving mode*

4. Operation of systems and equipment

Instrument cluster with segment display*

- ① Tachometer
- ② Instrument cluster display
- Displayed information: battery voltage, door open indication, gear display*, mileage indication.
- ③ Speedometer
- ④ Backlight brightness / trip meter adjustment rod
- ⑤ Fuel gauge
- ⑥ Engine coolant temperature gauge
- ⑦ Driving mode*



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4. Operation of systems and equipment

Tachometer

The tachometer is used to indicate the current engine speed, in 1,000 r/min.

NOTE

7000~8000 r/min is the high load area of the engine, which shall never be reached for fear of engine damage.

Instrument cluster display

Displayed information (TFT display): door open indication, gear display*, mileage indication, driving information, menu settings, warning information.

Displayed information (segment display): outside temperature, door open indication, gear display*, mileage indication.

CAUTION

If the instrument cluster display is abnormal, stop the vehicle immediately for the sake of safety, and contact the GAC Motor authorized shop for inspection.

Speedometer

The speedometer displays the current speed of the vehicle in km/h.

CAUTION

- For driving safety, please strictly abide by the traffic rules, and do not speed the vehicle at will.

Fuel gauge

The fuel gauge is used to indicate the current amount of fuel remaining in the fuel tank.

- The indication range is E~F, where “E” means the fuel tank is empty, and “F” means the fuel tank is full.
- The corresponding scale divisions will be illuminated according to the amount of remaining fuel in the fuel tank. When no scale division or only the first scale division is illuminated, it means that the fuel in the fuel tank is insufficient, and the indicator lamp  on the instrument cluster will flash in yellow, accompanied by an alarm message.

Engine coolant temperature gauge

The engine coolant temperature gauge is used to indicate the current temperature of the engine coolant.

- The indication range covers C~H, where, “C” means low temperature and “H” means high temperature.

After the engine is started, the corresponding scale divisions of the coolant temperature gauge will be illuminated according to different temperatures, and the engine operating temperature will vary depending on the ambient temperature and engine load. Driving mode*

- Conditions where the gauge indicates high coolant temperature: prolonged climbing in hot weather; deceleration or stop after driving at a high speed; in areas with heavy traffic, where the HVAC system is turned on and the engine idles for a long time; towing, etc
- Conditions where the gauge indicates low coolant temperature: insufficient warm-up after cold start in cold weather; running with maximum heating in cold weather, etc.

Driving mode*

- The current driving mode of the vehicle is displayed according to the received signal.

4. Operation of systems and equipment

Outside temperature*

- It displays the current ambient temperature outside the vehicle; when the outside temperature is not received, it reads “-.- C”.

Door open indication

- When either door, engine hood or liftgate is open, an icon will be shown to give an indication.

Range*

- It displays the current vehicle range.

Gear display*

- The current gear information of the vehicle such as “P”, “R”, “N” or “D” is displayed according to the received signal.

Mileage indication

Trip meter (Trip / 000.0 / 000000)

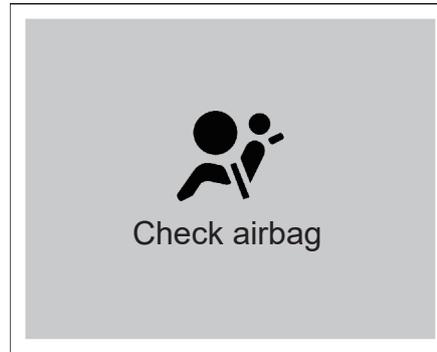
- The indication range is 0 km ~ 999.9km. When the indication of the trip meter is greater than 999.9km, the trip meter will be reset, and then its indication will be continued to accumulate.
- The trip meter on instrument cluster with TFT display can be reset through the trip meter option in the menu setting of the instrument cluster.

- The trip meter on instrument cluster with segment display can be adjusted through the trip meter adjustment rod.
- Press the trip meter adjustment rod to switch between Trip A and Trip B.
- Press and hold the trip meter adjustment rod to reset Trip A/B.

Odometer (000000^{km} / 000000^{km})

- The indication range is 0 km ~ 999999km.

Alarm message



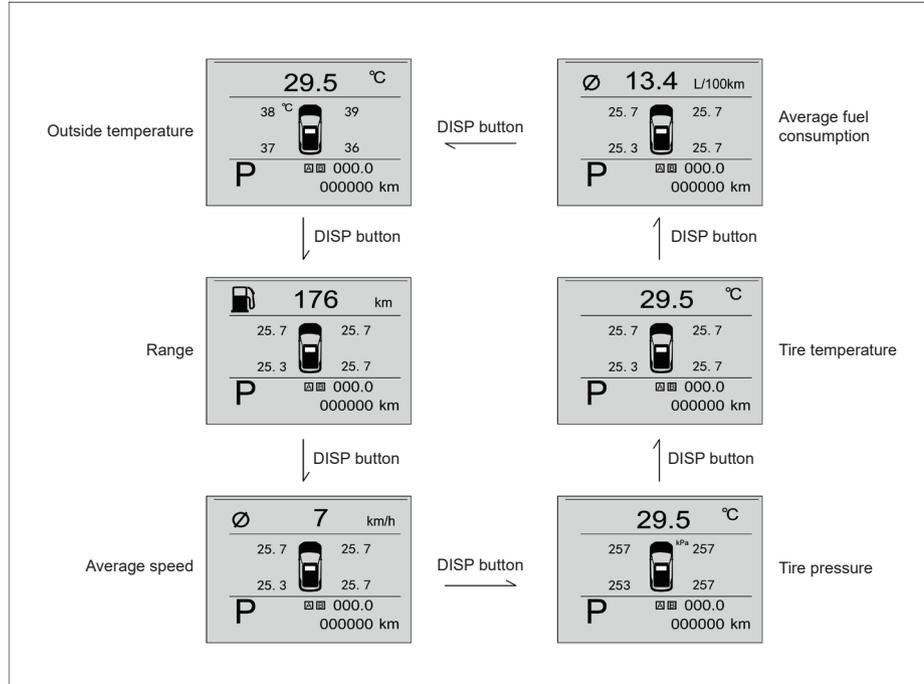
On the alarm message screen, the current state of the vehicle is displayed in the form of texts, pictures, beep sound or others. The driver should always pay attention to checking for alarm message.

- When the vehicle becomes abnormal with IGN ON, the instrument cluster will give priority to the display of the alarm message. In this case, press “OK” button on the right of the steering wheel to view the message.
- When multiple alarm messages are displayed, press and hold “OK” button to view these messages.

i NOTE

When multiple alarm messages exist, be sure to read and confirm them one by one before returning to the previous screen.

4. Operation of systems and equipment



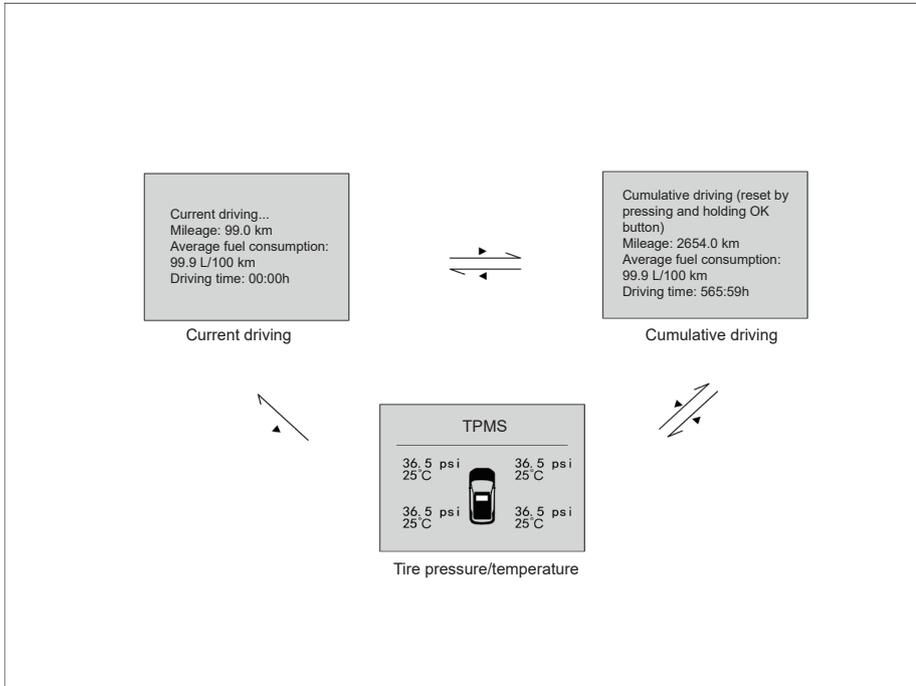
Driving information (instrument cluster with segment display)

With IGN ON, press the DISP button on the right side of the steering wheel to switch the display information screens.

i NOTE

- When no valid information is received, the driving information screen will not display valid data.
- The data on the long-term memory screen can be reset by pressing and holding the OK button.
- In case of any discrepancy in the driving information screen, the actual vehicle configuration shall prevail.

4. Operation of systems and equipment



Driving information (instrument cluster with TFT display)

With IGN ON, press the ▲ or ▼ button on the right side of the steering wheel to switch to the driving information screen, and then press ◀ or ▶ button to switch the display information screens.

i NOTE

- When no valid information is received, the driving information screen will not display valid data.
- The data in the cumulative driving screen can be reset by pressing and holding the OK button.
- In case of any discrepancy in the driving information screen, the actual vehicle configuration shall prevail.

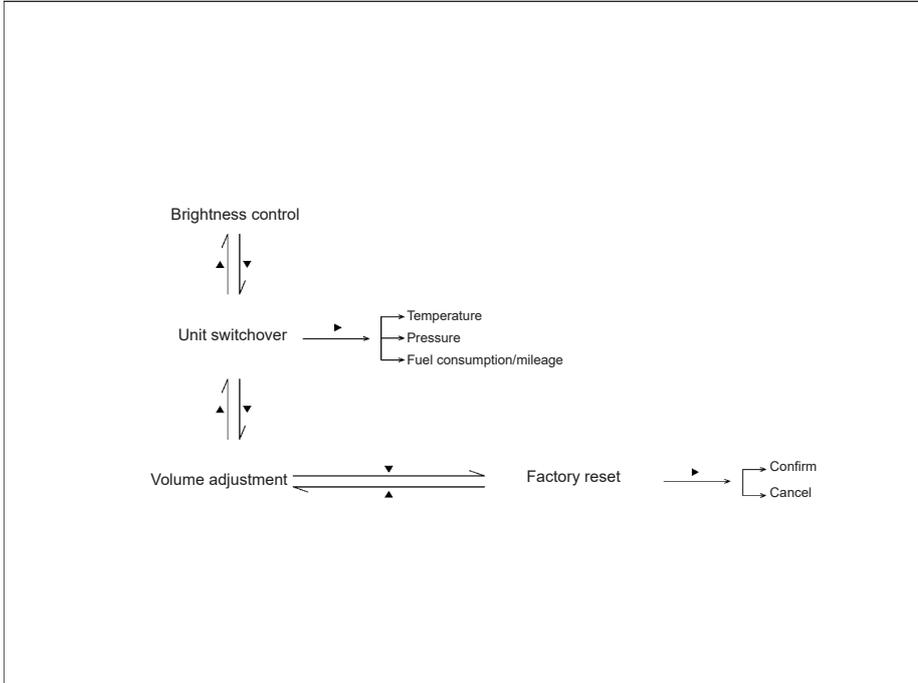
4. Operation of systems and equipment

Menu setting*

When the vehicle speed is zero with IGN ON, press the ▲ or ▼ button on the right side of the steering wheel to switch to menu setting, press ► button to enter the Menu Setting screen, and press ▲ or ▼ button to move the cursor, press ► button to enter the menu of next level, press ► button to select and confirm, and press ◀ button to return to the menu of previous level.

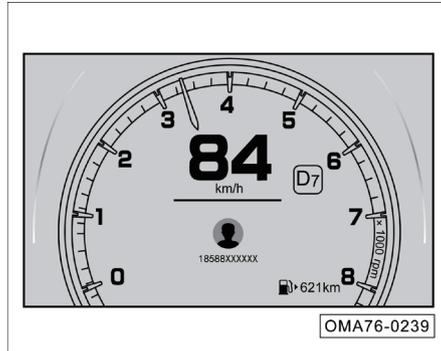
i NOTE

- In case of any discrepancy in the menu setting, the actual vehicle configuration shall prevail.



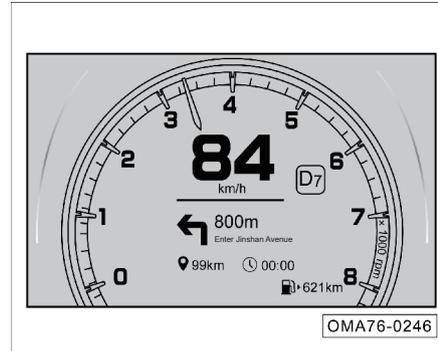
4. Operation of systems and equipment

Call information*



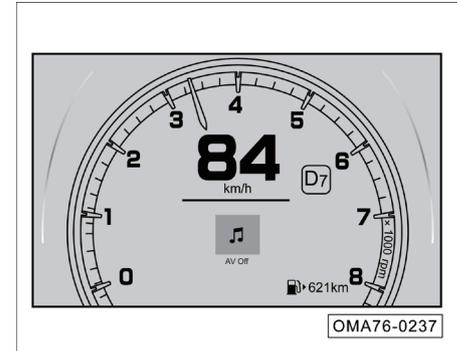
- When the AV system is connected to the Bluetooth of the mobile phone and there is an incoming call, the call information screen will display incoming call, calling, missed call, etc.
- When the B-CALL or E-CALL is used, the call information screen will display B-CALL or E-CALL status.

Navigation information *



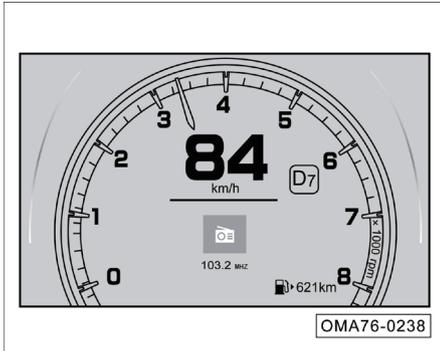
- When the ENGINE START/STOP button is at "ON" position, press the ▲ or ▼ button to switch to the navigation information screen.
- When the navigation function of the AV system is activated, the corresponding navigation information is displayed according to the navigation function status of the AV system.

AV and entertainment information *



- When the ENGINE START/STOP button is at "ON" position, press the ▲ or ▼ button on the steering wheel to switch to the AV and entertainment information screen. When the AV system is not turned on, the words "AV Off" will be displayed on the AV and entertainment information screen.

4. Operation of systems and equipment



- When the AV system is turned on, the current playback information will be displayed on the AV and entertainment information screen.

i NOTE

- When the AV system activates the CarLife, the AV and entertainment information screen will display the CarLife connection status rather than entertainment functions.

4. Operation of systems and equipment

4.1.3 Indicator lamp

No.	Icon	Designation	Color	Function
1		Charging system warning lamp	Red	<p>This warning lamp will come on when the engine is not started with the ENGINE START/STOP button set to "ON" position, and will go out after the engine is started.</p> <p>If this warning lamp comes on after the engine is started, it indicates that the charging system is faulty.</p>
2		Malfunction indicator lamp	Yellow	<p>If there is no fault, this indicator lamp will come on and stay on for a few seconds when the engine is not started with the ENGINE START/STOP button set to "ON" position, and then will go out after the system self-test.</p> <p>If this indicator lamp comes on after the engine is started, it indicates that the engine system is faulty.</p>
3		Low oil pressure warning lamp	Red	<p>This warning lamp will come on when the engine is not started with the ENGINE START/STOP button set to "ON" position, and will go out after the engine is started.</p> <p>If this warning lamp comes on after the engine is started, it indicates that the engine oil pressure is low.</p>
4		Emission fault indicator lamp	Yellow	<p>This indicator lamp will come on when the engine is not started with the ENGINE START/STOP button set to "ON" position, and will go out after the engine is started.</p> <p>If this indicator lamp comes on after the engine is started, it indicates that the exhaust system is faulty.</p>
5		Left turn signal indicator lamp and hazard warning lamp	Green	<p>When the left turn signal indicator lamp flashes alone, it indicates that the left turn signal lamp of the vehicle is on. When the hazard warning lamp switch is pressed, the left/right turn signal indicator lamps and all turn signal lamps will flash simultaneously.</p>
6		High engine coolant temperature indicator lamp	Red	<p>If the red indicator lamp comes on, it indicates that the engine coolant temperature is too high.</p>
7		Supplemental restraint system (SRS) indicator lamp	Red	<p>If the red indicator lamp comes on, it indicates that the SRS system is faulty.</p>
8		Low fuel level indicator lamp	Yellow	<p>If the yellow indicator lamp flashes, it indicates that the fuel level of the fuel tank is low.</p> <p>If the yellow indicator lamp comes on, it indicates that the fuel pump may be faulty.</p>

4. Operation of systems and equipment

No.	Icon	Designation	Color	Function
9		Right turn signal indicator lamp and hazard warning lamp	Green	If the right turn signal indicator lamp flashes alone, it indicates that the right turn signal lamp of the vehicle is on. When the hazard warning lamp switch is pressed, the left/right turn signal indicator lamps and all turn signal lamps will flash simultaneously.
10		IMMO indicator lamp	Red	If the red indicator lamp comes on, it indicates that the engine immobilizer system or the body anti-theft system is working.
11		Electric parking brake (EPB) status indicator lamp*	Red	If the red indicator lamp comes on, it indicates that the EPB is applied. If the red indicator lamp flashes, it indicates that the EPB is engaged partially or faulty.
			Green	If the green indicator lamp comes on, it indicates that the EPB is activated.
12		Electric parking brake (EPB) fault indicator lamp*	Yellow	If the yellow indicator lamp comes on, it indicates that the EPB is faulty. If the yellow indicator lamp flashes, it indicates that the EPB is in the service mode.
13		Parking brake and brake system indicator lamp	Red	If this indicator lamp comes on, it indicates that the parking brake is applied, the brake fluid level is too low or the electronic brake force distribution (EBD) system is faulty.
14		Electronic stability program (ESP) indicator lamp	Yellow	If the yellow indicator lamp comes on, it indicates that the ESP is faulty. If the yellow indicator lamp flashes, it indicates that the ESP is working.
15		ESP OFF indicator lamp	Yellow	If the yellow indicator lamp comes on, it indicates that the ESP is off.
16		Anti-lock braking system (ABS) indicator lamp	Yellow	If the yellow indicator lamp comes on, it indicates that the ABS is faulty.
17		Transmission fault indicator lamp	Yellow	If the yellow indicator lamp comes on, it indicates that the automatic transmission system is faulty. If the yellow indicator lamp flashes, it indicates that the ATF temperature is high.
18		Tire pressure monitoring system (TPMS) indicator lamp	Yellow	If the yellow indicator lamp comes on, it indicates that the TPMS is faulty.
19		Electric power steering (EPS) indicator lamp	Yellow	If the yellow indicator lamp comes on, it indicates that the EPS system is faulty.

4. Operation of systems and equipment

No.	Icon	Designation	Color	Function
20		Cruise control indicator lamp*	White	If the white indicator lamp comes on, it indicates that the cruise control is in the ready state.
			Green	If the green indicator lamp comes on, it indicates that the cruise control is activated.
21		Front passenger's seat belt indicator lamp	Red	If the red indicator lamp comes on, it indicates that the front passenger's seat belt is not fastened or the system is faulty.
22		Driver's seat belt indicator lamp	Red	If the red indicator lamp comes on, it indicates that the driver's seat belt is not fastened or the seat belt system is faulty.
23		High beam indicator lamp	Blue	If the blue indicator lamp comes on, it indicates that the high beam is on.
24		Position lamp indicator lamp	Green	If the green indicator lamp comes on, it indicates that the position lamp, instrument panel lamp, license plate lamp, etc. are on.
25		Rear fog lamp indicator lamp	Yellow	If the yellow indicator lamp comes on, it indicates that the rear fog lamp is on.
26		Front fog lamp indicator lamp*	Green	If the green indicator lamp comes on, it indicates that the front fog lamp is on.
27		Hill descent control (HDC) indicator lamp	Yellow	If the yellow indicator lamp comes, it indicates that the HDC system is activated.
28		LDW indicator lamp*	White	If the white indicator lamp comes on, it indicates that the LDW is activated.
			Green	If the green indicator lamp comes on, it indicates that the LDW is working normally.
			Red	If the red indicator lamp comes on, it indicates that the LDW is faulty. In that case, please go to the GAC Motor authorized shop for inspection in time.
29		FCW indicator lamp *	Green	If the green indicator lamp comes on, it indicates that the FCW is activated.
			Red	If the red indicator lamp comes on, it indicates that the FCW is faulty. In that case, please go to the GAC Motor authorized shop for inspection in time.
				If the red indicator lamp flashes, it indicates that the FCW is being triggered and activated.
30		GPF regeneration service indicator lamp*	White	If the white indicator lamp comes on, it indicates that high-speed driving is required for regeneration.
			Yellow	If the yellow indicator lamp comes on, please go to the GAC Motor authorized shop for maintenance.

4. Operation of systems and equipment

No.	Icon	Designation	Color	Function
31		Electronic steering column lock (ESCL) fault indicator lamp*	Red	If the indicator lamp flashes in red, it indicates that the ESCL fails to be unlocked during startup. In that case, please turn the steering wheel and press the ENGINE START/STOP button to try again.
				If the indicator lamp stays on in red, it indicates that the ESCL is faulty or abnormally locked. In that case, please go to the GAC Motor authorized shop for inspection in time.
32		Intelligent remote control key indicator lamp	Green	If the indicator lamp comes on in green, it indicates that the battery SOC of the intelligent remote control key is low. In that case, please replace the battery in time.
			Red	If the indicator lamp comes on in red, it indicates that the intelligent remote control key cannot be detected or is left in the vehicle.

Note: If any indicator or warning lamp on the instrument cluster comes on after the vehicle is started or during driving, it indicates that the related system or function is in a certain working state or faulty. Therefore, you should read carefully and understand the meaning of each indicator or warning lamp. In case of a fault, please go to or contact the GAC Motor authorized shop for inspection in time.

4.2 Vehicle locking and unlocking

4.2.1 Remote control key

The vehicle equipped with ENGINE START/STOP button* has an intelligent remote control key (including emergency mechanical key) and the corresponding key barcode; the vehicle equipped with traditional ignition switch* has a conventional remote control key (including mechanical key) and the corresponding key barcode. If the key needs to be re-customized or the key barcode is missing, please contact the GAC Motor authorized shop.

Poor signal strength of remote control key

The operation of the remote control key button may be interfered or unstable in the following cases:

- Nearby equipment is emitting strong radio waves.
- The remote control key is carried together with telecommunication equipment, laptop, mobile phone, access control card or wireless signal transmitter.
- The remote control key is put together with magnetic cards (such as bank card and bus card).
- Metal objects contact or cover the remote control key.

CAUTION

The remote control key contains an electronic circuit that can trigger the engine immobilizer system. If the circuit is damaged, the engine may not be started. Therefore,

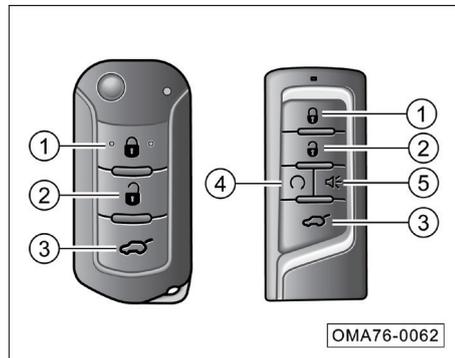
- Avoid placing the remote control key in direct sunlight or in a high-temperature or humid place.
- Avoid dropping the remote control key from a high place or crushing it by heavy objects.
- Avoid exposing the remote control key to any liquid. If the key gets wet accidentally, dry it immediately.

NOTE

- The buttons of the remote control key cannot be operated when the ENGINE START/STOP button is in the "ACC" or "ON" position.
- If the unlocking or locking function of the remote control key is deactivated, you can try to press the buttons on the remote control key 3 times continuously to activate the function.

4. Operation of systems and equipment

Button operations



- ① : Locking button
- ② : Unlocking button
- ③ : Liftgate unlocking button
- ④ : ENGINE START/STOP button*
- ⑤ : Anti-theft alarm button*

① Locking button

- If this button is pressed once within the effective range of the remote control key, all doors will be locked; if this button is pressed and held for 2 s, the windows* will be automatically closed, and if pressed and held for 3 s, the sunroof will be automatically closed; if the button is released when the windows or the sunroof is being closed automatically, the windows or the sunroof will stop moving.
- If this button is pressed twice consecutively within 0.5 s, the vehicle locating function will be realized and the turn signal lamps will flash 3 times quickly.

② Unlocking button

- If this button is pressed once within the effective range of the remote control key, all doors will be unlocked; if this button is pressed and held for 2 s, the windows* will be automatically opened, and if pressed and held for 3 s, the sunroof will be automatically opened; if the button is released, the windows or the sunroof will stop moving.

CAUTION

- When any door is not closed, if you press the locking button , the four doors will be locked and then unlocked immediately. When the engine hood or the liftgate is not closed, if you press the locking button , the system will give an alarm.
- Before closing the windows or the sunroof by the remote control key, make sure that there are no body parts (such as head and hands) in the movement path of the windows or the sunroof so as to prevent a risk of pinch injury.

NOTE

- The remote control key cannot control the tilting of the sunroof.
- The remote control function of sunroof can be activated or deactivated by clicking “System Settings → Body Accessories → Other Accessories → Remote Control Sunroof” on the display of AV system.
- When the doors are locked, the turn signal lamps will flash once. When the doors are unlocked, the turn signal lamps will flash twice.
- After the button  is pressed to unlock the door, if the door is not opened within 30 s, the system will re-lock the door.

③ Liftgate unlocking button

- Within the effective range, if you press and hold this button, the liftgate will be unlocked.

④ : ENGINE START/STOP button*

- Within the effective range, if the  button is pressed and then the  button is pressed and held within 2 s, the turn signal lamps will flash and the engine can be remotely started.
 - Then if the  button is pressed and held for 3 s, the engine can be remotely stopped.
- ### ⑤ : Anti-theft alarm button*
- If the button  is pressed and held for 3 s, the anti-theft alarm will be triggered, then the horn will sound and the turn signal lamps will flash for 30 s; if the  or  button is pressed, the anti-theft alarm will be stopped.

NOTE

- Before remotely stopping the engine, make sure that the vehicle is in the locked state, and if you are not sure about it, press the  button once, and then press and hold the button  to remotely stop the engine.
- To remotely stop the engine, keep the key within the effective range, otherwise the unlocking function may be triggered and then the engine cannot be started.
- The maximum default start hold duration is 5 min. If you need to change the duration, please go to GAC Motor authorized shop to change it.

4. Operation of systems and equipment

Switching between audible-visual alarm and visual alarm

The visual alarm is to remind the owner of the vehicle only through the flashing of the turn signal lamps; the audible-visual alarm is to remind the owner of the vehicle through both the flashing of the turn signal lamps and the sounding of the horn.

When the ENGINE START/STOP button is in the "OFF" position, if the  and  buttons on the remote control key are pressed and held for 2 s at the same time, the audible-visual alarm and the visual alarm can be switched between each other. If the switching is successful, the turn signal lamps will flash 3 times (only for electronic anti-theft alarm).

NOTE

The switching function is only applicable to the anti-theft alarm. For details, please refer to the basic operations of body anti-theft. => [See page 69](#)

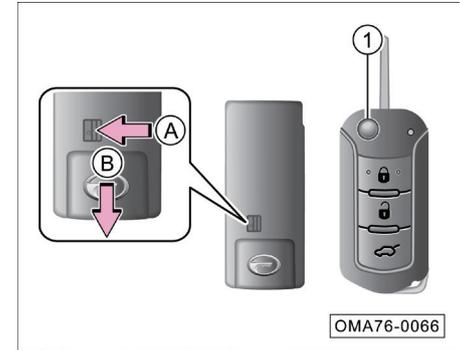
Battery replacement

Each time you press the buttons on the remote control key, the indicator lamp of the key will flash once. If the indicator lamp fails to flash, or you need to press the buttons several times to lock or unlock the doors, the battery may be exhausted or about to run out. It is recommended to go to the GAC Motor authorized shop for the battery replacement.

CAUTION

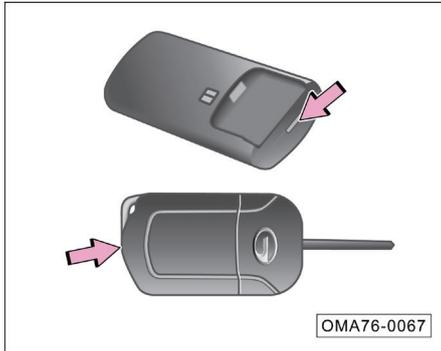
- Be sure to replace the battery with a new one of the same rated voltage and size.
- An inappropriate battery may damage the remote control key.
- Always comply with relevant environmental regulations to dispose the exhausted battery.

Battery replacement steps

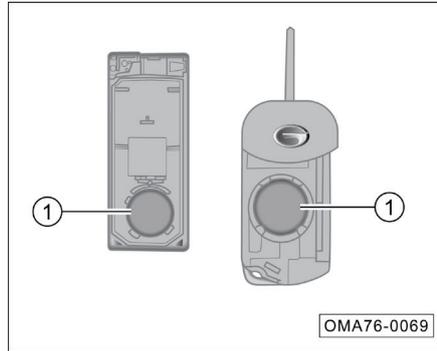


- Key for models with ENGINE START/STOP button*: Pull the switch in the direction of arrow A and pull out the emergency mechanical key in the direction of arrow B.
- Key for models with conventional ignition switch*: The mechanical key will pop out when the button ① is pressed.

4. Operation of systems and equipment



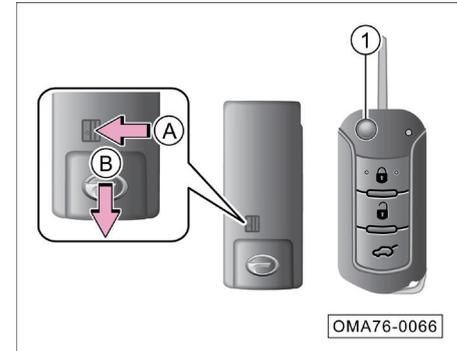
- Key for models with ENGINE START/STOP button*: Use the emergency mechanical key to pry open the remote control key housing at the arrow position.
- Key for models with conventional ignition switch*: Use a mini slotted screwdriver ① to pry open the remote control key housing at the arrowed position.



- Take out the battery ①.
- Assemble the remote control key in the reverse steps mentioned above.

4.2.2 Emergency mechanical key

Emergency mechanical key



- Key for models with ENGINE START/STOP button*: - Pull the switch in the direction of arrow A and pull out the emergency mechanical key in the direction of arrow B. The emergency mechanical key can be used to lock all doors or unlock the driver's door, but cannot be used to start the vehicle.
- Key for models with conventional ignition switch*: The mechanical key can pop out by pressing the button and can be used to lock all doors, unlock the driver's door, or start the engine.

4. Operation of systems and equipment

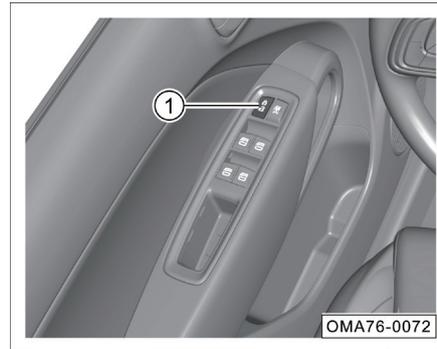
Spare mechanical key*



- The spare mechanical key can be used to lock all doors, unlock the driver's door, or start the engine.

4.2.3 Door lock system

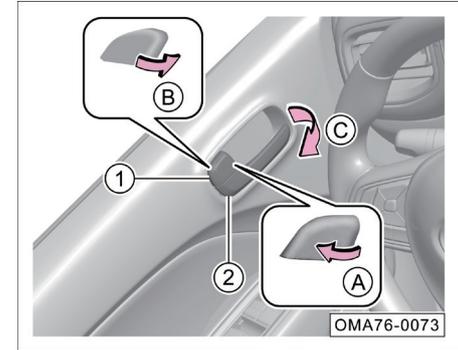
Central locking button



When the ignition switch is in the "ON" position, the central locking button ① can be used.

- Lock all the doors: Press the  end of ① button.
- Unlock all the doors: Press the  end of ① button.

Door latch and inside handle



- If the door latch ① is pushed inward in the direction of arrow B, the corresponding door can be locked.
- If the door latch ① is pulled outward in the direction of arrow A, the corresponding door can be unlocked; if the inside handle ② is pulled in the direction of arrow C, the corresponding door can be opened.

4. Operation of systems and equipment

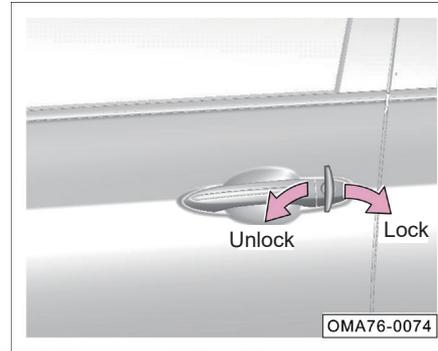
i NOTE

When the child safety lock is activated (=> [See page 57](#)), even if the rear door latch is unlocked, the rear door cannot be opened by operating the inside handle. In this case, the rear door shall be opened from outside. And do not pull the inside handle with force to avoid damages.

👁 CAUTION

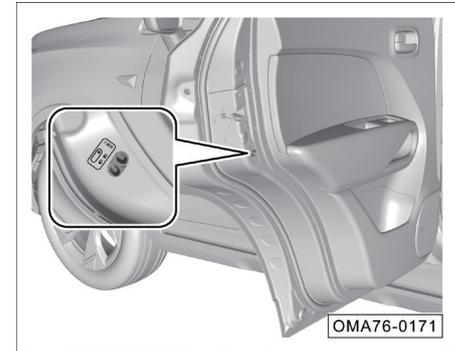
- Before driving the vehicle, make sure that all doors are properly closed and locked.
- Do not pull the inside handle during driving to avoid accidents when opening the door.
- When opening or closing the door, check the surroundings of the vehicle, such as whether the vehicle is on a slope, whether there is enough space to open the door or whether there is strong wind. When opening or closing the door, please firmly hold the door handle to prepare for any unpredictable movement.

Door lock hole



- Take out the emergency mechanical key*. => [See page 55](#)
- Insert the mechanical key into the driver's door lock hole.
- Turn the key clockwise to lock all the doors.
- Turn the key counterclockwise to unlock the driver's door only.

Child safety lock



- Activation: Turn the child safety lock switch from  to  position to activate the child safety lock.
- Deactivation: Turn the child safety lock switch from  to  position to deactivate the child safety lock.

4. Operation of systems and equipment

NOTE

- Before driving the vehicle, if any child sits in the rear seat, make sure that the child safety lock is activated.
- When the child safety lock is activated, the rear door cannot be opened by operating the inside handle. In this case, the rear door shall be opened from outside. And do not pull the inside handle with force to avoid damages.

WARNING

When the child safety lock is activated, never leave children or handicapped persons in the vehicle alone. Once the doors are locked, it is difficult for children or handicapped persons to leave the vehicle in an emergency; locked doors in an accident will make it more difficult to rescue persons inside the vehicle.

Automatic unlock function

If the traveling vehicle stops with the doors locked and the ignition switch is switched to the "OFF" position, the door will be automatically unlocked.

NOTE

This function can be activated or deactivated by setting the "System Settings → Body Accessories → Lock/Unlock → Auto Unlock" of the AV system.

Speed sensing door lock

If this function is activated with all doors closed, the vehicle will be automatically locked at certain vehicle speed or after certain driving time.

When all doors are locked manually or automatically and the ignition switch is in the "ON" position, if the system detects that the vehicle has suffered a severe collision, all doors will be automatically unlocked. Depending on the impact force and impact range, the system may not work under extreme conditions.

NOTE

Please read the above related content before activating this function.

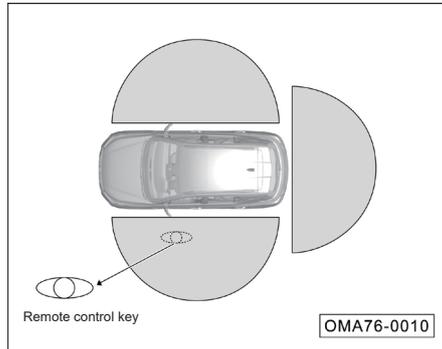
This function of the delivered vehicle is deactivated by default, and can be deactivated/activated by setting the "System Settings → Body Accessories → Lock/Unlock → Speed Sensing Door Lock" of the AV system.

4. Operation of systems and equipment

Collision unlock function

If the vehicle encounters a collision while the ignition switch is in the "ON" position and the required conditions are met, the four doors will be simultaneously unlocked, and will be simultaneously unlocked again after 3 s.

Intelligent active unlock*

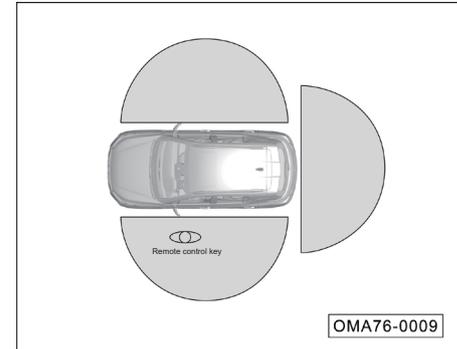


- When the intelligent active unlock function is activated and the intelligent remote control key is brought close to the left and right doors, the vehicle will be automatically unlocked and the exterior rearview mirrors* will be automatically unfolded.

i NOTE

- This function can be activated or deactivated by setting the "System Settings → Body Accessories → Lock/Unlock → Intelligent Active Unlock" of the AV system.
- If the intelligent active unlock is successful, the turn signal lamps will flash twice and the horn will sound twice.

Intelligent active lock*



- When the intelligent active lock function is activated, the ENGINE START/STOP button is in the "OFF" position and all doors are closed, if the intelligent remote control key is taken away from the vehicle within 2 m for more than 2 min or more than 2 m, the vehicle will be automatically locked and the exterior rearview mirrors* will be automatically folded.

4. Operation of systems and equipment

NOTE

- This function can be activated or deactivated by setting the “System Settings → Body Accessories → Lock/Unlock → Intelligent Active Lock” of the AV system.
- If the intelligent active lock is successful, the turn signal lamps will flash once and the horn will sound once.
- If one of the doors is ajar, there will be a corresponding indication on the instrument cluster.
- If the user approaches the vehicle within 3 s after the intelligent active lock is activated, the system will not activate the intelligent active unlock but will consider that the user wants to confirm whether the vehicle is locked. The user can confirm whether the doors are locked by pulling the rear door handles.

It should be noted that the intelligent active lock function will not be activated in case of the followings:

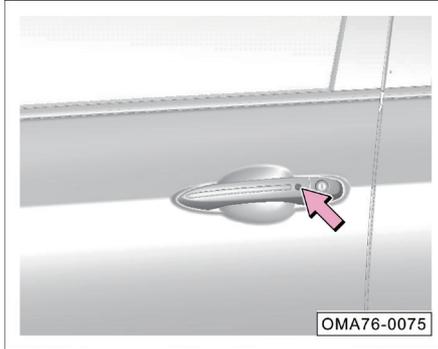
- The power mode is in any mode other than “OFF”.
- The intelligent remote control key is in the vehicle.
- No intelligent remote control key is detected within 2 m of the vehicle.
- One of the doors is ajar.
- The intelligent remote control key is thrown into the vehicle from the door window.
- The intelligent remote control key is in the trunk.
- The intelligent remote control key is too close to the vehicle.

CAUTION

- The intelligent active lock function cannot automatically close the door windows, so before leaving the vehicle, make sure that all door windows and the sunroof are closed.
- Do not leave children or handicapped persons in the vehicle alone when using the intelligent active lock function.

4. Operation of systems and equipment

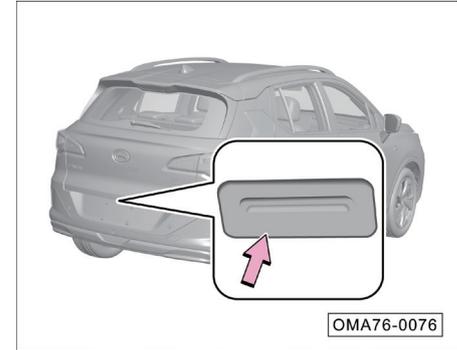
PEPS system*



- When the ENGINE START/STOP button is in the "OFF" position, all doors will be unlocked if you carry the intelligent remote control key to approach the door and press the button on the front door handle.
- When the ENGINE START/STOP button is in the "OFF" position, all doors will be locked if you carry the intelligent remote control key to leave the vehicle and press the button on the front door handle.

CAUTION

- Once the vehicle speed is higher than 1.5 km/h, it is prohibited to unlock the liftgate.
- If there is snow or ice on the front door handle, the PEPS function will be affected, so please clear the snow or ice as soon as possible.
- Even within 1 m, if the intelligent remote control key is higher or lower than the front door handle, the PEPS system may fail to lock/unlock the doors.
- If the intelligent remote control key is too close to the doors and the door windows, the PEPS system may not work properly; if the working distance of the remote control transmitter changes, the battery power may be low.



- When the ENGINE START/STOP button is in the "OFF" position, the liftgate will be unlocked and opened if you carry the intelligent remote control key to approach it and press the liftgate unlocking button.
- When the vehicle is in unlocked and stationary state, if you press the liftgate unlocking button without carrying the intelligent remote control key, the liftgate will be directly opened.

4. Operation of systems and equipment

4.2.4 Door



- To close the door in the vehicle, grab the door handle and pull it inward.
- To close the door outside, directly push the door toward the vehicle.

CAUTION

Before opening the door, always pay attention to other vehicles or pedestrians outside the vehicle to avoid accidents caused by collision.

WARNING

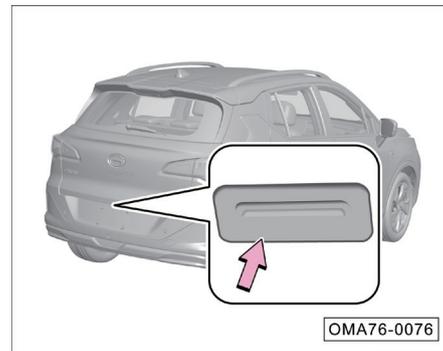
- Always ensure that all doors are closed to prevent suddenly opening during driving, which may cause personal injuries or accident.
- Open or close the doors only when the vehicle is stationary.
- Do not put your hands on the edge of the door when closing the door, otherwise there will be a risk of pinching.

NOTE

- If the door is not closed properly, please re-open the door and close it again.
- If the door is ajar, there will be a corresponding indication on the instrument cluster; then when the vehicle speed exceeds 5 km/h, a buzzer will sound.

4.2.5 Liftgate

Opening of liftgate

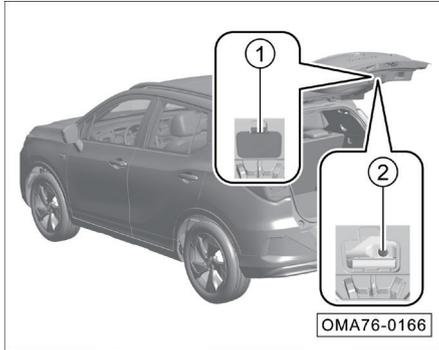


In the effective range, press and hold the  button on the remote control key to unlock the liftgate; or press the  button on the remote control key to unlock all locks and press the liftgate unlocking button to open the liftgate.

For the model equipped with PEPS, carry the intelligent remote control key with you. You can also open the liftgate by directly pressing the liftgate unlocking button within a range of about 1 m from the liftgate.

4. Operation of systems and equipment

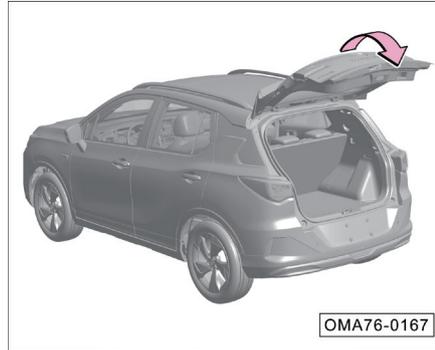
Emergency opening of liftgate



When the battery is under charge or the liftgate fails to be opened normally, you can try the emergency interior opening of liftgate:

- Fold down the rear seat back => [See page 86](#) to enter the trunk area.
- Open the liftgate trim cover ①.
- Insert the mechanical key into the groove ② of the unlocking mechanism and turn the key to unlock and open the liftgate.

Closing of liftgate



- Lower the liftgate close to the rear bumper cover, and then press down the liftgate firmly with both hands to close it.

i NOTE

If the liftgate is ajar, the instrument cluster will display the corresponding alarm information; when the vehicle speed exceeds 5 km/h, the buzzer will sound.

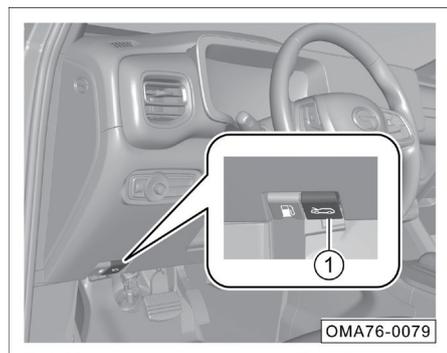
👁 CAUTION

- Be careful when closing the liftgate to ensure that no person is within the movement range of the liftgate.
- Always ensure that the closed liftgate is locked to prevent suddenly opening during driving, which may cause an accident.

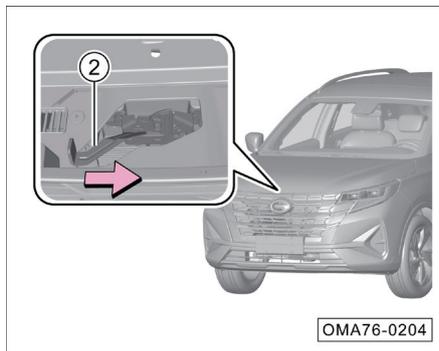
4. Operation of systems and equipment

4.2.6 Engine hood

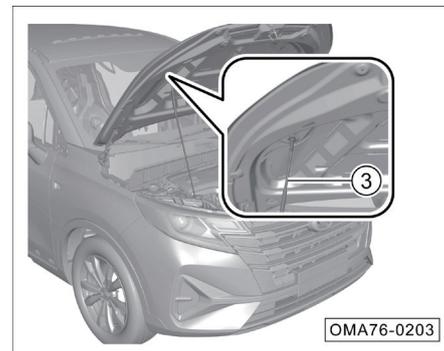
Opening of engine hood



- If the engine hood release handle ① is pulled, the engine hood will be unlocked and pop up slightly.



- If the locking mechanism ② is pushed as arrowed, the engine hood will be fully unlocked.
- Rise the engine hood to its maximum height.



- Use the stay bar ③ to support the engine hood.

Closing of engine hood

- Lower the engine hood to a height close to the fenders, and then press down the front end of the engine hood with force for firm locking.

i NOTE

- Proper lubrication of the locking mechanism moving parts of the engine hood is helpful for opening or closing the engine hood.
- If the engine hood is ajar, the instrument cluster will display the corresponding alarm information; when the vehicle speed exceeds 5 km/h, the buzzer will sound.

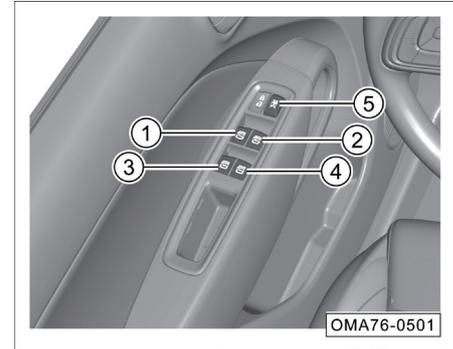
4.2.7 Power window

The power window can be operated when the ignition switch is in the "ON" position. It will still be operable within 40 s after the ignition switch is switched from the "ON" position to the "ACC" or "OFF" position, but will become inoperable if one of the doors is opened within 40 s.

👁 CAUTION

- Please close all windows before leaving the vehicle.
- Do not put your hands on the edges of the windows when closing the windows, otherwise there will be a risk of pinching.

Driver's power window control button



- 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's power window control button

4. Operation of systems and equipment

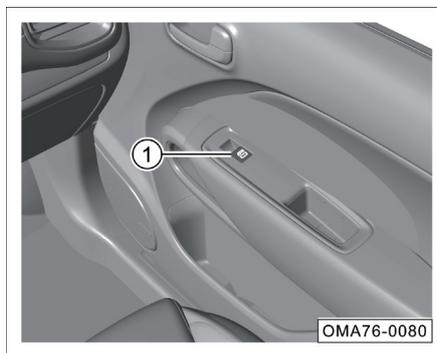
- If the button ① is pulled up to the first stop position, the power window will be lifted for closing until the button is released or the window reaches the highest position.
- If the button ① is pulled up to the limit position, the power window will be lifted automatically for closing until the window reaches the highest position.
- If the button ① is pressed down to the first stop position, the power window will be lowered for opening until the button is released or the window reaches the lowest position.
- If the button ① is pressed down to the limit position, the power window will be lowered automatically for opening until the window reaches the lowest position.

i NOTE

- Only the left front window with the anti-pinch function has the express-up function.
- If you want to stop the window during the automatic lifting or lowering, just press down/pull up the button ①.
- The operation methods of the buttons ②, ③ and ④ are the same as that of the button ①, only corresponding to the respective windows.

- If you press the passenger's power window control button ⑤, the button indicator lamp will come on and the passenger's power windows cannot be operated anymore. If you press this button again, this function will be deactivated and the button indicator lamp will go out.

Passenger's power window control button



- For the operation methods of the passenger's power window control button ①, please refer to the driver's power window control button.

Initialization of anti-pinch function*

If the express-up function is not available, or the anti-pinch function fails, or the initialization becomes invalid automatically because the anti-pinch function is triggered multiple times in a short period of time, the power window needs to be initialized again.

1. Pull up the power window control button, and then the window is lifted in steps until it is completely closed.
2. After the window is completely closed, continue to pull up the power window control button and hold it for 2~3 s to complete the initialization.

⚠ WARNING

- If the window has no anti-pinch function during the initialization learning process, please do not use any part of your body or other objects to hinder the closing of the window, otherwise it will cause personal injury and affect the result of the initialization learning.
- If the power window system fails, please go to the GAC Motor authorized shop for inspection in time.

4.2.8 Power sunroof*

The power sunroof can be operated when the ignition switch is in the "ON" position. It will still be operable within 40 s after the ignition switch is switched from the "ON" position to the "ACC" or "OFF" position, but will become inoperable if one of the doors is opened within 40 s.

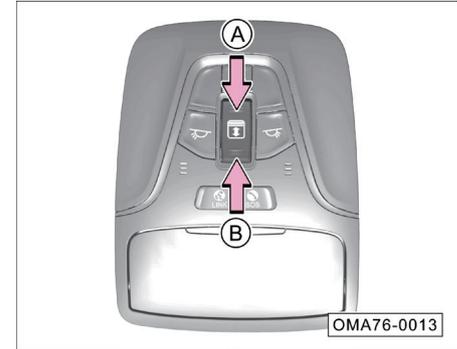
CAUTION

Please close the sunroof, otherwise there will be a risk of water ingress on rainy days.

Opening and closing of sunshade



- Automatic opening: The sunshade will be automatically opened as the sunroof is opened.
- Manual opening: Just push the sunshade backward.
- Manual closing: Just push the sunshade forward after the power sunroof is closed.



- If you press the end of the switch (arrow A), the sunroof will move a short distance for slight opening and then stop.
- If you press the end of the switch (arrow B), the sunroof will move a short distance for slight closing and then stop.

4. Operation of systems and equipment

- If you press and hold the end of the switch (arrow A), the sunroof will be fully opened automatically.
- If you press and hold the end of the switch (arrow B), the sunroof will be fully closed automatically.
- When the sunroof is fully closed, the sunroof will be tilted outward if you manually open the sunshade and press the end of the switch (arrow B). Press the end of the switch (arrow A) until the sunroof is completely closed and stops.

NOTE

If the sunroof switch  is pushed during the automatic opening or closing of the sunroof, the sunroof will stop at the current position.

Anti-pinch function of sunroof

The anti-pinch function is available for the closing of the sunroof:

- When the sunroof is closed by sliding, if the anti-pinch function is activated, the sunroof will move in the opening direction for a certain distance and then stop.
- When the sunroof is closed by tilting, if the anti-pinch function is activated, the sunroof will move in the tilting direction until it reaches the maximum tilting position.

CAUTION

Do not operate the sunroof when the ambient temperature is below -20°C , at which the anti-pinch function of the sunroof may not be activated, resulting in accidents. In addition, the low temperature will also damage the motor to a certain extent.

WARNING

- **The anti-pinch function of the sunroof cannot prevent pinching of light or thin objects.**
- **When closing the sunroof, make sure that no one is within the movement range of the sunroof to avoid any pinching.**
- **The sunroof will stop detecting obstacles at a position where the sunroof is about to be closed fully, so the anti-pinch function will be deactivated at this time.**
- **Do not try to activate the anti-pinch function by your hand or any part of your body, otherwise there will be a risk of pinching.**

CAUTION

If the power sunroof fails, please go to the GAC Motor authorized shop for inspection in time.

Initialization and self-learning of power sunroof



OMA76-0016

- When the sunroof is closed, press the end (arrow B) of the switch until the sunroof reaches the maximum tilting position and then release the switch.
- Press the end of the switch (arrow B) again and hold it for more than 10 s. At this time, the sunroof will be initialized. If two “clicks” are heard, it indicates that the sunroof initialization is completed.
- After the initialization, if you press and hold the end of the switch (arrow B), the sunroof will be “tilted → closed → opened → closed” and then will stop, at this time, the sunroof self-learning will be completed.

4.2.9 Basic operation of body anti-theft system

Body anti-theft function - unlock

When the ignition switch is in the “OFF” position and the vehicle is in the anti-theft state, if you bring the intelligent remote control key to approach the vehicle doors and press the button on the front door handle or unlock the door by remote control, all the doors will be unlocked to release the vehicle from the anti-theft state, and the turn signal lamps will flash twice.

Body anti-theft function - lock

When the ignition switch is in the “OFF” position and the four doors, engine hood and liftgate are closed, if you take the intelligent remote control key away from the vehicle and press the button on the front door handle or unlock the door by remote control, all the doors will be locked to enable the vehicle to enter the anti-theft state, and the turn signal lamps will flash once.

Activation of body anti-theft function

When the ignition switch is in the “OFF” position and the vehicle is in the anti-theft state, if the door is unlocked by an illegal key or is forcibly unlocked, the anti-theft system will be activated, the anti-theft horn will sound and the turn signal lamps will flash for about 28 s.

When the vehicle is locked by remote control and enters the anti-theft state, if the driver’s door is unlocked with the emergency mechanical key, the anti-theft system will trigger the horn to sound and the turn signal lamps will flash.

i NOTE

Before the anti-theft alarm is triggered or the anti-theft alarm has been triggered, if you press the unlocking button on the remote control key or switch the ignition switch to the “ON” position, the anti-theft alarm can be canceled and the vehicle can be released from the anti-theft state.

4. Operation of systems and equipment

Engine immobilizer

When the ignition switch is in the "OFF" position with the body anti-theft state released and the legal key in the vehicle, if the engine immobilizer system passes the verification, it will be deactivated.

If the engine immobilizer system does not pass the verification, the engine cannot be started and an immobilizer alarm will be triggered.

Body anti-theft maintenance instructions

No maintenance is required during normal use. If you have any doubt, please contact the GAC Motor authorized shop.

4.3 Lamps and vision

4.3.1 Exterior lamps

Lamp combination switch



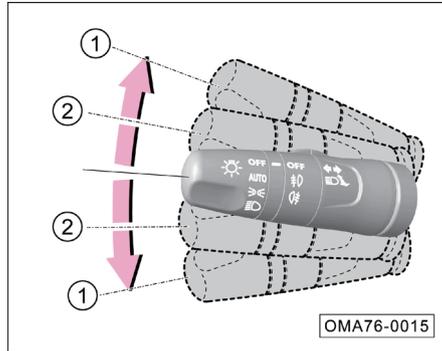
- ① Lamp switch
- ② Fog lamp switch

i NOTE

- Water vapors or even water drops may appear on the inner surfaces of the lamps under certain conditions (such as high air humidity and vehicle washing conditions), similar to the fogging phenomenon on the windows when the vehicle is traveling in the rain, but this is not a malfunction.
- This fogging phenomenon can be eliminated by parking the vehicle in a dry environment, turning on the lamps or driving the vehicle, but may recur.
- If there are a lot of water drops or water ingress in the lamps, please contact the GAC Motor authorized shop for inspection.

4. Operation of systems and equipment

Turn signal lamp



- When the ignition switch is in the "ON" position, if you turn the lamplight combination switch up or down to the limit position ① and turn on the right or left turn signal lamp, the corresponding indicator lamp ➡ or ⬅ on the instrument cluster will flash.

Turn signal lamp flashing for lane change

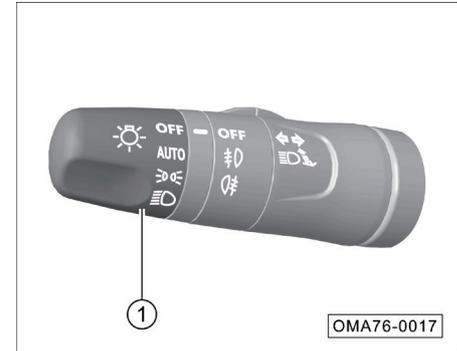
- In case of lane changing or overtaking, if you quickly turn the lamplight combination switch up or down to the position ② and then release it to the original position, the corresponding turn signal lamp and the indicator lamp ➡ or ⬅ on the instrument cluster will flash 3 times.

- If you turn the lamplight combination switch up or down and hold it at the position ②, the corresponding turn signal lamp and the indicator lamp ➡ or ⬅ on the instrument cluster will flash continuously. Releasing the switch to the original position can stop the flashing.

CAUTION

If the corresponding indicator lamp ➡ or ⬅ on the instrument cluster flashes twice as fast as before, it indicates that one of the turn signal lamps may be faulty, and in this case, please go to the GAC Motor authorized shop for inspection as soon as possible.

Lamp switch



When the ignition switch is in the "ON" position, turn the lamp switch ① to turn on or off 远光 (position lamp), and 近光 (low beam).

When the lamplight switch is turned to the "OFF" position, all lamps will go out.

4. Operation of systems and equipment

Daytime running lamp*

- When the engine is started and the position lamps are off, the daytime running lamps can be automatically turned on; when the position lamps are turned on or the engine is shut down, the daytime running lamps can be automatically turned off.

i NOTE

This function can be activated or deactivated by setting the “System Settings → Body Accessories → Exterior Lamp → Daytime Running Lamp” of the AV system.

Position lamp

- If you turn the lamplight switch to the  position, the position lamps, instrument panel lamps, license plate lamps and other lamps will be turned on, and the corresponding indicator lamp  on the instrument cluster will come on.

i NOTE

If you forget to turn off the position lamps when the ignition switch is switched to the “OFF” position and the vehicle is not locked, the position lamps will stay on for 15 min and then go out automatically in order to save the battery power; when the ignition switch is switched to the “OFF” position and the vehicle is locked, the position lamps will go out immediately.



WARNING

- **When driving the vehicle at night or on a road with poor visibility, please do not only turn on the position lamps. Otherwise, accidents may easily occur.**
- **When temporarily parking the vehicle at night or on a road with poor visibility with the need of indicating the position of the vehicle, do not use the position lamps as the parking lamps but be sure to turn on the hazard warning lamp due to the battery power saving function of the position lamps.**

4. Operation of systems and equipment

Low beam

- Turn the lamp switch to the  position to turn on the low beam.

High beam

- After turning on the low beam, if you push the lamplight combination switch forward to the limit position, the high beam will be turned on and the corresponding indicator lamp  on the instrument cluster will come on.
- If you pull the lamplight combination switch backward to the original position, the high beam will be turned off.

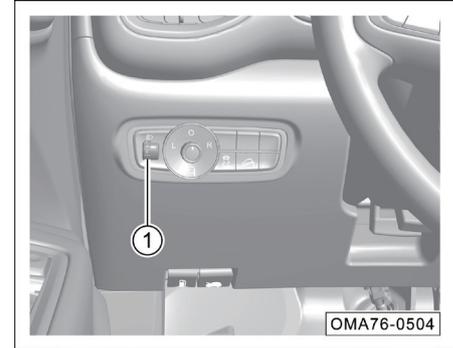
Headlamp flashing

- If you pull the lamplight combination switch backward to the limit position, the high beam will be turned on.
- If you release the switch, the lamplight combination switch will automatically return to its original position and the high beam will be turned off.

NOTE

- The high beam may cause dazzling to drivers of oncoming vehicles at close range, which may easily cause accidents. Therefore, please use the high beam reasonably.
- When all the lamps are turned off, if you pull and hold the lamplight combination switch backward, the high beam will stay on, and the corresponding indicator lamp  on the instrument cluster will come on.

Manual headlamp leveling



Rotate the knob  to manually level the headlamp (low beam) at 0, 1, 2 and 3 positions. The level of the headlamp will decrease as the adjustment value increases.

Position lamp on warning

When the ignition switch is turned to the "OFF" position with the position lamps turned on, if you open the driver's door, the system will send a buzzer sound and the instrument cluster TFT display * will display the message "Lamp On".

4. Operation of systems and equipment

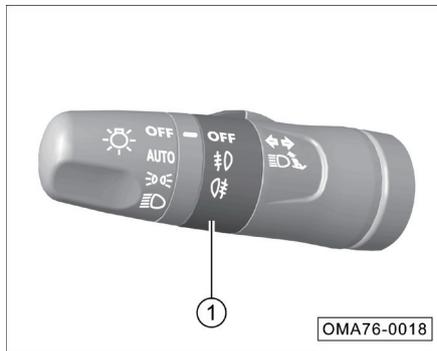
Follow Me Home

Within 10 minutes after switching the ignition switch to the "OFF" position, if you turn the lamplight switch from the OFF position to other positions and then back to the OFF position within 2 s, the Follow Me Home will be activated. In this case, the low beam will stay on for 30 s, within which if one of the doors (including four doors, engine hood and liftgate) is opened, this function will be re-timed, and then the low beam will stay on for 80 s, within which if all the doors are closed, this function will be re-timed again, and then the low beam will stay on for 30 s repeatedly.

i NOTE

This function can be activated or deactivated by setting the "System Settings → Body Accessories → Exterior Lamp → Follow Me Home" of the AV system.

Fog lamp switch



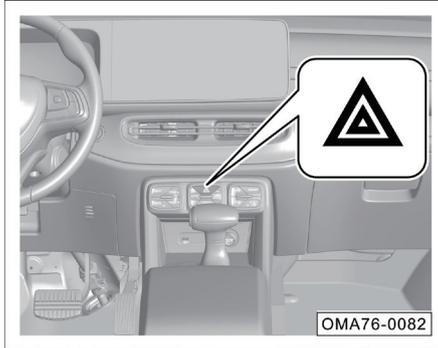
When the ignition switch is in the "ON" position with the position lamps or the low beams turned on, turn the fog lamp switch ① to turn on or off the  (front fog lamps) *and  (rear fog lamps).

- When the fog lamp switch ① is turned to the  position, the front fog lamp* will come on.
- After the fog lamp switch ① is turned to the  position and then released to the  position*, the rear fog lamp will come on. Repeat the operation to switch between turning on the front fog lamp* and turning on both the front* and rear fog lamps.

i NOTE

For some models which are not equipped with front fog lamps, directly turn the fog lamp switch to the  position to turn on the rear fog lamps after the ignition switch is turned to the "ON" position and the lamp switch is turned to the position lamp or the low beam position.

Hazard warning lamp



When the ignition switch is in any position, if you press the  switch, the switch red indicator lamp will flash and the hazard warning lamp will be turned on. Press this switch again to turn off the hazard warning lamp.

If the hazard warning lamp is turned on, all turn signal lamps and the indicator lamps  and  on the instrument cluster will flash simultaneously.

The hazard warning lamp shall be turned on in the following cases so as to attract the attention of persons on the road and reduce the risk of traffic accidents:

- The vehicle is involved in any failure.
- The vehicle is at the tail end of a traffic jam.
- The vehicle tows another vehicle or is towed.
- The vehicle is temporarily parked due to poor visibility.

NOTE

- The use of the hazard warning lamp will consume the battery power, so please turn it off when not in use.
- Be sure to strictly abide by the relevant regulations when using the hazard warning lamp.
- In the event of an emergency, if the hazard warning lamp is faulty, other methods that comply with the relevant traffic rules and regulations must be taken to attract the attention of persons on the road.

Vehicle assisted lighting

- If you press the unlock button  on the remote control key within the effective range, the position lamps will stay on for 25 s for the purpose of helping you to approach your vehicle. If you press the unlock button  on the remote control key again, the position lamps can stay on for another 25 s. When the ignition switch is switched to the "ON" position, the position lamps will go out.

Vehicle locating lighting

- If you press the lock button  on the remote control key twice within 0.5 s, the position lamps will stay on for 8 s and the turn signal lamps will flash 3 times for the purpose of helping you to locate your vehicle.

4. Operation of systems and equipment

4.3.2 Interior amp

Dome lamp



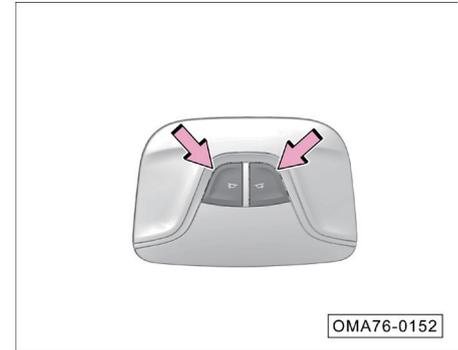
- With the deactivated automatic light-on function of dome lamps, if you press the switch once to activate this function and open one of doors, all the dome lamps will automatically come on; if you close the doors, all the dome lamps will stay on for a while and then go out automatically.
- Press the switch again to deactivate the automatic light-on function of dome lamps.

Front dome lamp



- Press left or right side front dome lamp switch to turn on the dome lamp on the corresponding side.
- Press the switch again to turn off the dome lamp.

Rear dome lamp



- With rear dome lamps off, press the switch as arrowed to turn on the dome lamp on the corresponding side; press the switch again as arrowed to turn it off.
- If you forget to turn off the lamp, when the ignition switch is in the "OFF" position and the vehicle is locked for 15min, the lamp will automatically go out.

4. Operation of systems and equipment

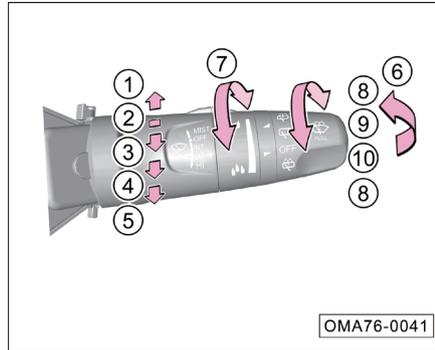
Glove box lamp*

- If the glove box is opened, the glove box lamp will come on automatically.
- If the glove box is closed, the glove box lamp will go out automatically.

Vanity mirror lamp*

- If the vanity mirror cover is opened, the vanity mirror lamp will come on automatically.
- If the vanity mirror cover is closed, the vanity mirror lamp will go out automatically.

4.3.3 Wiper combination switch



When the ignition switch is in the "ON" position, the wiper combination switch can be operated as follows:

- ① MIST: continuous wiping
- ② OFF: front windshield wiper off
- ③ INT: intermittent wiping
- ④ LO: wiping at low speed
- ⑤ HI: wiping at high speed
- ⑥ Front windshield washer system on

⑦ Adjusting knob:

- Intermittent wiping time adjustment
- ⑧ : Rear windshield washer system on
- ⑨ : Rear wiper on
- ⑩ OFF: Rear windshield washer or wiper off

MIST: continuous wiping

- If the wiper combination switch is turned to the ① MIST position, the front wiper will start wiping continuously.
- If the wiper combination switch is released to automatically return to the ② OFF position, the front wiper will stop wiping.

OFF: wiper off

- If the wiper combination switch is turned to the ② OFF position, the front wiper will stop wiping.

4. Operation of systems and equipment

INT: intermittent wiping

- If the wiper combination switch is turned to the ③ INT position, the front wiper will start wiping intermittently.
- The wiping interval can be adjusted through the knob ⑦. Rotate the knob ⑦ up/down to adjust the intermittent wiping time. The time increases from top to bottom.

LO: slow speed wiping

- If the wiper combination switch is turned to the ④ LO position, the front wiper will wipe at a slow speed.

HI: high speed wiping

- If the wiper combination switch is turned to the ⑤ HI position, the front wiper will wipe at a high speed.

Front windshield washer system on

- If the wiper combination switch is turned toward the rear of the vehicle to the ⑥ position, the front washer will start spraying water and then the front wiper will start wiping.
- The front windshield washer system is turned off and the front wiper continues to work for about 4 s when the wiper combination switch is released and returns to the original position.
- After the front wiper stops wiping for 6 s, it will wipe once again so as to clear the residual water stains from the glass.

Rear windshield washer system on

- If you turn the rear wiper knob up/down to the limit position ⑧, the rear windshield washer system will be turned on, that is, the washer will start spraying water and then the rear wiper will start wiping.

Rear wiper on

- If you turn the rear wiper knob to the limit position ⑨, the rear wiper will start wiping.

OFF: Rear windshield washer or rear wiper off

- If you turn the rear wiper knob to the limit position ⑩, the rear windshield washer system will be turned off or the rear wiper will stop wiping.

Front wiper maintenance

- Within 10 s after the ignition switch is turned to the "OFF" position, the front wiper will move to the highest position and stop if the wiper combination switch lever is moved to the "MIST" position and then quickly return to the original position.

NOTE

This function can be activated or deactivated by setting the "System Settings → Body Accessories → Other Accessories → Wiper Maintenance" of the AV system.

4. Operation of systems and equipment

4.3.4 Windshield



Windshield glass

The green heat-insulation and laminated anti-scattering glass is used for the front windshield, which can effectively reduce the personal injury in an accident.

WARNING

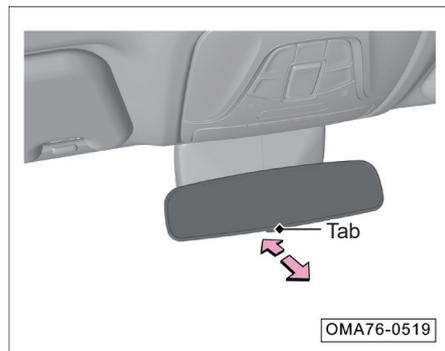
- Always keep the glass surface clean.
- Please affix the necessary identifications according to local traffic laws, rules and regulations. Do not stick paper or hang objects on the surface of the front windshield glass, otherwise the front view will be obstructed, which may easily cause traffic accidents.

4. Operation of systems and equipment

4.3.5 Rearview mirrors

Interior rearview mirror

Manual anti-glare interior rearview mirror



Manually adjusting the manual anti-glare interior rearview mirror can reduce the light reflected off the mirror surface, thus realizing the optimal rear view.

- As shown in the figure, the tab is at a normal rearview position. Push it backward to offset the light reflected off the mirror surface to achieve the anti-glare purpose.
- Pull the tab forward to return to the normal rearview angle.

Exterior rearview mirror

⚠ WARNING

Although the curved (convex and spherical) rearview mirror can expand the field of view, the reflected object image is smaller and farther than the real object. Therefore, when changing the lanes, do not judge the distance between your vehicle and the following vehicle by the reflected image, otherwise accidents may occur due to wrong judgment.

i NOTE

If the function of the exterior rearview mirror fails, please go to the GAC Motor authorized shop for inspection in time.

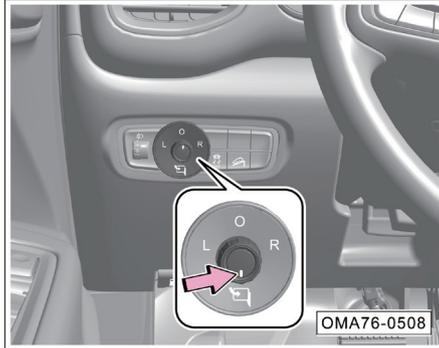
Electric adjustment



- Turn the exterior rearview mirror adjusting knob to the "L" or "R" position (to select the left or right exterior rearview mirror).
- Turn the exterior rearview mirror adjusting knob up, down, left, and right to adjust the selected exterior rearview mirror to the appropriate rearview angle.
- After adjustment, turn the exterior rearview mirror adjusting knob to the "O" position.

4. Operation of systems and equipment

Electric folding*



- Turn the exterior rearview mirror adjusting knob to the  position to electrically fold the exterior rearview mirror.
- Turn the exterior rearview mirror adjusting knob out of the position  to electrically unfold the exterior rearview mirror.

Automatic folding*

- If the vehicle is locked from outside, the exterior rearview mirror will be folded automatically.
- If the vehicle is unlocked from outside, the exterior rearview mirror will be unfolded automatically.

NOTE

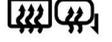
This function can be activated or deactivated by setting the “System Settings→ Body Accessories → Other Accessories → Auto Folding of Exterior rearview Mirror” of the AV system.

CAUTION

- If the exterior rearview mirror does not feature the electric folding function or the electric folding function fails, the mirror can be manually folded and then manually unfolded. A click sound can be heard when the mirror is manually unfolded.
- Be careful when operating the electric folding function of the exterior rearview mirror to prevent your fingers from being pinched by the rearview mirror and its base.

Defogging and defrosting*



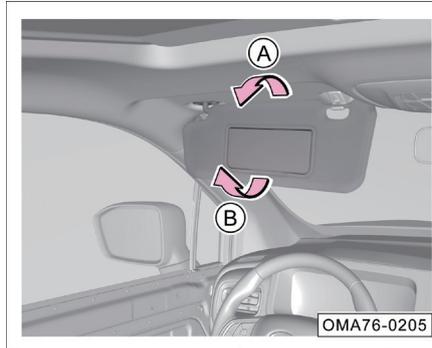
- If the  button is pressed, the button indicator lamp will come on and heating will be activated to clear the fog or frost on the exterior rearview mirrors and the rear windshield glass.
- This function will be deactivated automatically after about 15 min or pressing down the button again can manually deactivate this function; when the heating function is deactivated, the button indicator lamp will go out.

4. Operation of systems and equipment

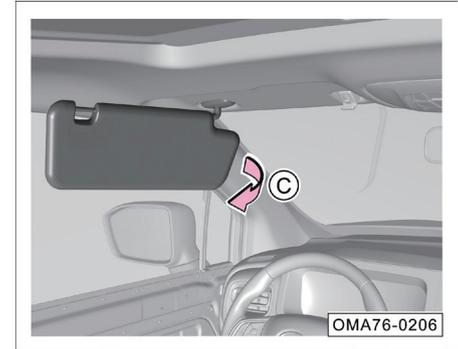
CAUTION

- If there is residual fog or frost after defogging and defrosting function is deactivated automatically, just press the  button again.
- Do not use the defrosting and defogging function for a long time, otherwise the heater may be damaged due to overheating.
- If the defrosting and defogging function is out of use, please deactivate it to avoid wasting battery power.

4.3.6 Sun visor



- Turn down the sun visor on the driver's side or front passenger's side in the direction of arrow A to shelter from the incoming sunlight from the front windshield.
- To use the vanity mirror, just turn down the sun visor and pull open the vanity mirror cover in the direction of arrow B, and then the vanity mirror lamp * comes on automatically.



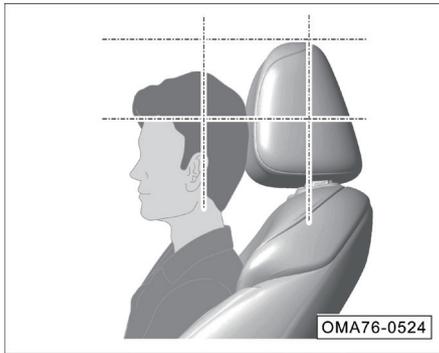
- After turning down the sun visor on the driver's side or front passenger's side, pull it out from the movable bracket in the direction of arrow C to shelter from the incoming sunlight from the side window.

NOTE

When the ignition switch is in the "OFF" position or the vehicle is locked for a few minutes, the vanity mirror lamp* will go out automatically.

4.4 Seats and storage facilities

4.4.1 Headrest



Correct adjustment of the headrests is essential to protect the occupants and reduce the personal injuries in accidents.

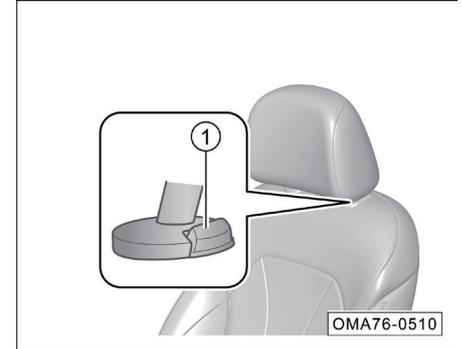
All occupants must adjust the headrests to the correct position (as shown in the figure) according to their body shape.

WARNING

In order to reduce the risk of accidental casualties, please strictly observe the followings:

- Do not adjust the headrest while driving.
- Always keep the headrest in its mounting position. If the headrest is removed or installed improperly during driving, the occupants may be seriously injured in an accident.

Height adjustment of front seat headrests



- Downward adjustment: Press and hold the lock button (1), and press down the head restraint to the desired position.
- Upward adjustment: Lift up the head restraint directly to the desired position.

NOTE

The adjustment method of other seat headrests is the same.

4. Operation of systems and equipment

4.4.2 Front seats

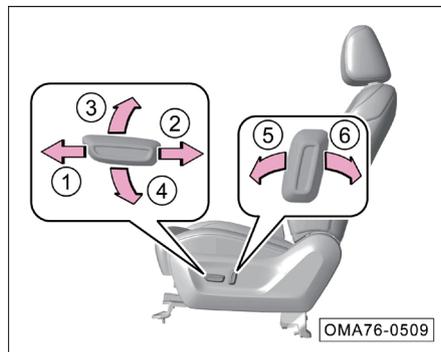
i NOTE

When measuring the depth of the seat cushion, be sure to adjust the front and rear positions of the seat to the middle of the slide rail and the seat back to the normal operating state (25°).

⚠ WARNING

- **Do not place objects under the front seats, for these objects may be caught between the seat and the slider rail, hindering the seat from being locked.**
- **Please adjust the front seat only when the vehicle is in a stationary state, because incorrect sitting posture during the seat adjustment may easily cause casualties.**
- **Never leave children alone in the vehicle to prevent them from accidentally operating the power seat and causing accidents, because the power seat* adjustment mechanism still works after the ignition switch is turned to the “OFF” position.**

Power seat*



Forward and backward adjustment of seat:

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

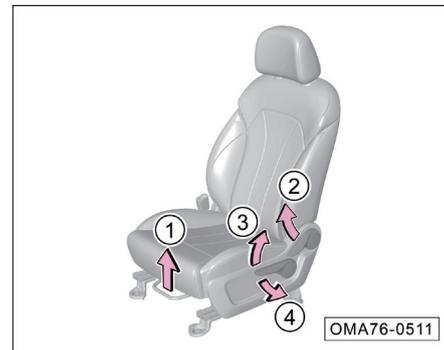
Upward and downward adjustment of seat:

- Pull the switch in the direction of arrow ③ or ④ to adjust the seat upward or downward.

Forward and backward adjustment of seat back:

- Pull the switch in the direction of arrow ⑤ or ⑥ to adjust the seat back to slide forward or backward.

Manual seat*



Forward and backward adjustment of seat:

- Pull the adjusting handle in the direction of arrow ① to adjust the seat to slide forward or backward. Then release the adjusting handle, and slide the seat forward or backward slightly until the seat is firmly locked.

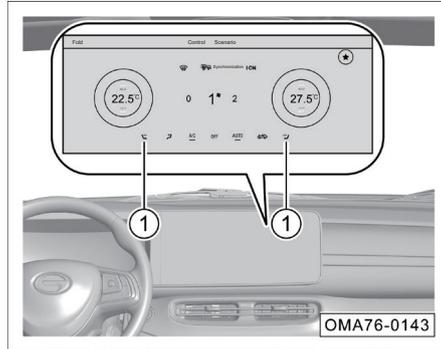
Forward and backward adjustment of seat back:

- Pull up the adjusting handle in the direction of arrow ② to adjust the seat back to a desired position, and then release the handle.

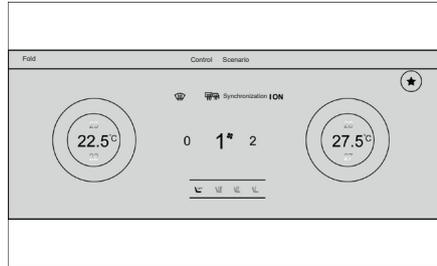
Upward and downward adjustment of seat (for driver's seat)*:

- Pull the switch in the direction of arrow ③ or ④ to adjust the seat upward or downward.

Seat heater*



- Switch the ENGINE START/STOP button to the "ON" position.
- Switch the AV system to the A/C control interface, click  or  soft key ①, and enter the next page to select the seat heating positions or deactivate the seat heater function.



- Click the  /  /  soft key to activate the seat heater function.
- Click the  soft key to deactivate the seat heater function.

The seat heater has three heating positions, that is, ,  and , corresponding to three different seat surface temperatures, among which the 3rd position has the highest temperature followed by the 2nd position, and the 1st position has the lowest temperature.

If you click the  /  /  soft key during the automatic heating process, the automatic heating function will be deactivated and the current heating position will be changed by one position.

i NOTE

The seat heater switch has no physical button and also no display on the main interface of the AV system. You need to click on the A/C status display area in the lower left/right corner of the AV system interface to enter the A/C control interface for adjustment.

The automatic heating function can be activated or deactivated by setting the "System Settings → A/C & Seat → Seat → Driver's Seat Automatic Heating/Front Passenger's Seat Automatic Heating" of the AV system.

4. Operation of systems and equipment

WARNING

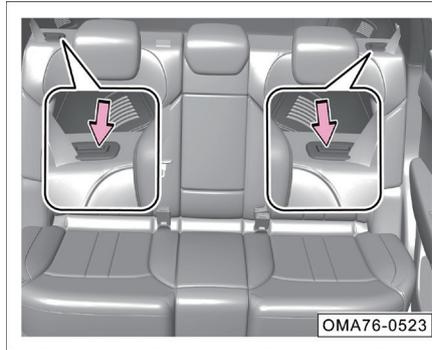
If you are sensitive to the temperature change of the seat heater function, please do not use this function to avoid burns by the heater.

CAUTION

- Do not kneel on the seat or apply pressure to a point on the seat cushion or seat back, in order to avoid damaging the electrical components in the seat.
- If you feel no temperature change of the seat or feel hot after turning on the heater for a long time, please immediately turn off the seat heater and go to the GAC Motor authorized shop for inspection in time.

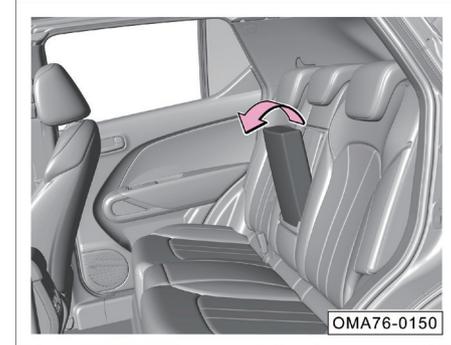
4.4.3 Rear seats

Folding down of rear seat backs



- Folding down: press the rear seat back switch as arrowed to fold down the rear seat back.
- Restore: Push the rear seat back directly backward until the seat back is locked.

Rear center console armrest*



- Turn down the central armrest forward to use it.

NOTE

The central armrest shall not be seated by anyone, and shall return to the seat back if the rear middle seat needs to be occupied.

4.4.4 Storage facilities

Storage compartment on door interior trim panel

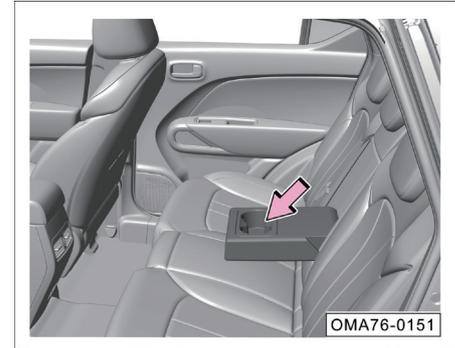


- Place beverage bottles, map manuals and other articles here.

Cup holder



- Front cup holder: hold beverage bottles.



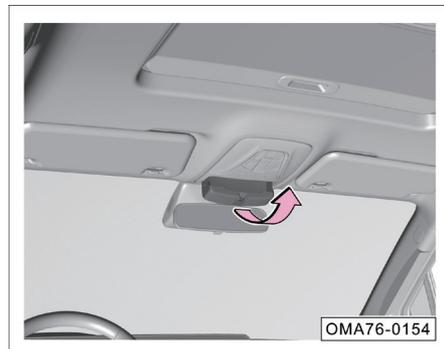
- Rear cup holder: Turn down the central armrest forward and then place beverage bottles.

WARNING

Do not place hot beverages on the cup holder, or hot beverages may spill out while driving, scalding the driver.

4. Operation of systems and equipment

Spectacle case



- Press to slowly open the spectacle case and place small articles such as sunglasses.
- Push back to close the spectacle case until a “click” is heard.

Front passenger's glove box

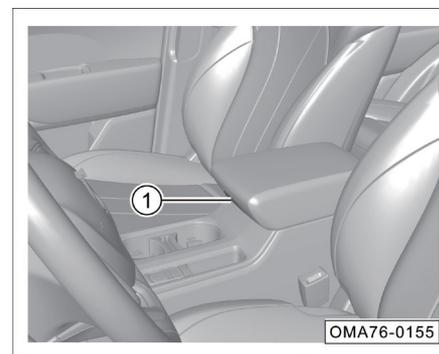


- Pull the handle to open the glove box and place articles such as file bags.
- Push back to close the glove box until a “click” is heard.

⚠ WARNING

The glove box must be closed when the vehicle is traveling, otherwise the articles in the glove box may fly out and cause personal injury to the occupants in case of an emergency braking or an accident.

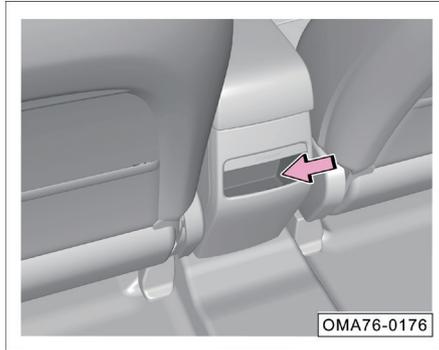
Front central armrest box



- Press the switch ①, lift up and open the front central armrest box cover, and place wallets and other articles.

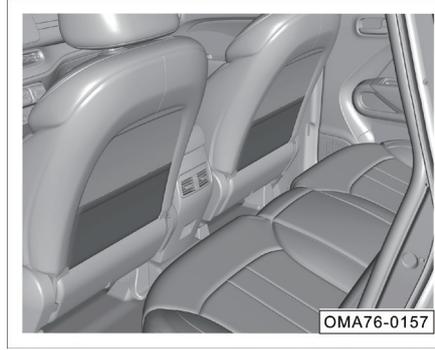
4. Operation of systems and equipment

Console rear storage compartment*



- Place small articles here.

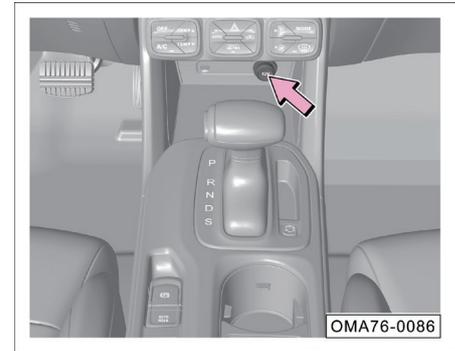
Storage bag on the back of front seat



- Pull open the storage bag to put books, foldable umbrellas and other articles in it.

4.4.5 Power outlet

Power outlet



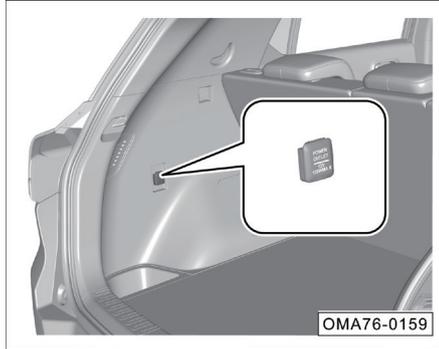
- With the ignition switch in the “ACC” or “ON” position, the power outlet can be used once the 12 V power trim cover is removed.

i NOTE

Devices up to 12 V are supported.

4. Operation of systems and equipment

Trunk power outlet*

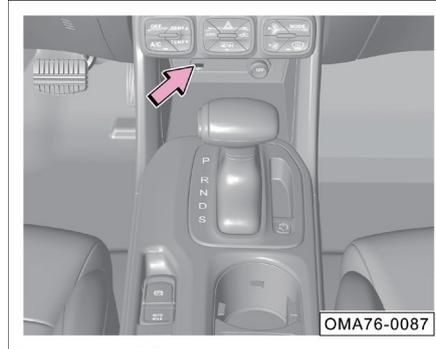


With the ignition switch in the “ACC” or “ON” position, after the rear power outlet cover is opened, a device can be connected for charging.

i NOTE

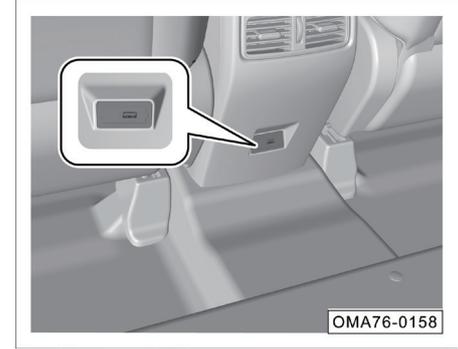
Devices up to 12V/120W are supported.

USB interface



- When a device is connected successfully, the AV system can switch to the USB playback mode.

Rear USB charging port*



- With the ignition switch in the “ACC” or “ON” position, connect a device here to charge it.

CAUTION

- To avoid damage to the electrical system of the vehicle, never connect power generation equipment to a power outlet.
- Only use electrical equipment that complies with national electromagnetic compatibility regulations.
- Before turning on or off the ignition switch, always disconnect the device connected to the power outlet to avoid damage to the electrical equipment due to voltage fluctuations.

WARNING

- **Never use the power outlet when nobody is in the vehicle. Improper use may easily cause a fire.**
- **Do not let children use the power outlet.**
- **Never use the high-power electrical equipment.**

4.4.6 Trunk

In order to ensure the maneuvering stability of the whole vehicle, the luggage shall be placed as evenly as possible, and the heavy objects shall be placed at the front of the trunk.

WARNING

- **The center of gravity of the vehicle carrying heavy objects may change. If heavy objects in the trunk suddenly slip, the maneuvering stability of the vehicle will change.**
- **Articles in the trunk must be fixed, otherwise they may fly forward and cause injuries to the occupants in case of emergency braking or an accident.**
- **Never place fragile, flammable and explosive articles in the trunk!**

Trunk space

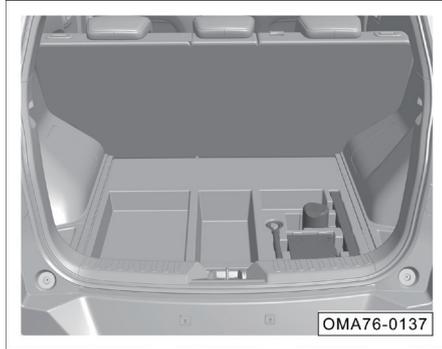
- Fold down the rear seat back to increase the trunk capacity. => [See page 86](#)

CAUTION

When placing liquids in the trunk, make sure that the container is sealed and the liquid does not leak. Avoid placing liquids on the seat back folded down to prevent liquid leakage and thus wetting the seat.

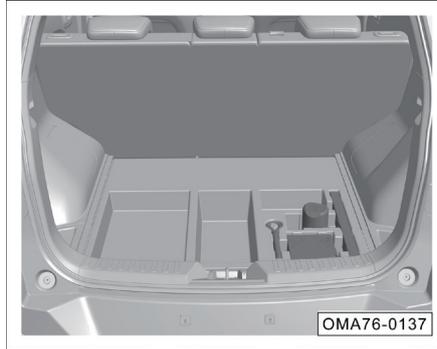
4. Operation of systems and equipment

Objects in trunk



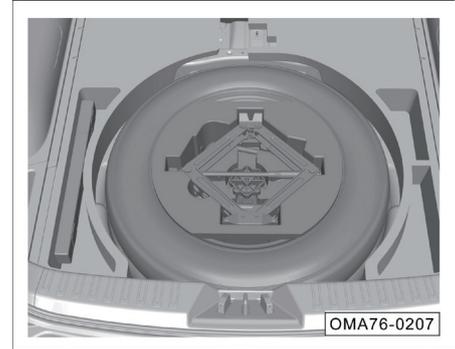
- Open the liftgate.
- Lift the trunk carpet.
- Take out the retaining cable of the trunk carpet and hang the carpet hook on the retaining cable onto the liftgate or the upper edge of the vehicle.

Models with tire vulcanizing machine:



- There are inflator pump, tire sealant, towing hook, and warning triangle inside.

Models with spare tire



- There are driver's tools, spare tire and warning triangle inside.

4.4.7 Luggage rack*



This vehicle is equipped with a luggage rack with a maximum bearing capacity of 35 kg.

WARNING

Do not carry objects more than 35 kg on the luggage rack!

4.4.8 Accessories and modification

Data labels and signs indicating important data and information about the use of the vehicle are affixed to the fuel tank cap, engine hood latch and other components of the delivered vehicle. Do not remove or damage these labels and signs, and always keep the data and information on them legible.

The vehicle is designed with the latest safety technologies by GAC to ensure excellent active safety and passive safety. Therefore, in order to maintain the excellent characteristics of this vehicle, please be sure to consult the GAC Motor authorized shop before installing accessories or replacing parts.

It is recommended to use accessories and parts approved by GAC. The parts other than GAC ones will not be covered by the warranty.

WARNING

The installation of inappropriate accessories or the modification of the vehicle may affect the maneuvering stability and other performance of the vehicle, and even may cause serious casualties.

To install a car phone, alarm device, transceiver, low-power AV system, etc., ensure that they will not interfere with the electronic control unit such as anti-lock braking system (ABS) on the vehicle.

4. Operation of systems and equipment

Before installing the accessories, please ensure that:

1. The accessories neither dim the lamps, nor affect the normal operation or performance of the vehicle.
2. For the vehicle equipped with side curtain airbags, the accessories must not be installed on the B-pillar or across the rear door window. Because the installation in these areas will interfere with the normal function of the side curtain airbags.

NOTE

When additions (such as headrest, seat cover, floor mat, sun protection mat, etc.) are required, inferior additions may contain VOCs that do not meet national standards, and may emit unusual odors, causing hidden dangers that affect the air quality in the vehicle; therefore, the genuine high-quality additions are recommended to ensure a comfortable driving environment.

Modification of vehicle

Dismantling the parts from the vehicle or replacing the genuine parts with non-GAC Motor parts will seriously damage the maneuvering stability and reliability of the vehicle. For example:

- The installation of larger or smaller wheel and tire will interfere with the normal operation of the anti-lock braking system (ABS) and other systems.
- The modification of the steering wheel and other safety devices may cause the system failure.

WARNING

- **Improper modification of the vehicle or installation of inappropriate accessories may easily cause failures and accidents. The accessories and parts approved by GAC are always recommended, because the adaptability, reliability and safety of these accessories and parts have been strictly verified by GAC.**

WARNING

- **Improper modification or maintenance of the vehicle may weaken the protective effect of airbags, resulting in system failures and fatal accidents. The accessories such as beverage cup holder and mobile phone holder must not be installed or connected to the cover of the airbag assembly or within the working range of airbags.**
- **Improper operation or modification of the vehicle (such as the modification of the engine, brake system, or components that affect the performance of the wheels and tires) will affect the SRS function, causing serious casualties.**
- **Do not install wheels and tires that are not approved by GAC.**
- **The modifications of the front and the engine compartment of the vehicle may weaken the function of the pedestrian detection system and violate road traffic regulations.**

4.5 A/C system

4.5.1 General description

The A/C filter can filter pollen and dust entering the air inlet of A/C system.

The A/C filter must be regularly cleaned and replaced according to "Regular Maintenance Schedule" in *Warranty Manual*.

If the vehicle often runs in areas with poor air quality, the replacement interval of the A/C filter should be shortened. If the airflow from the A/C air outlet is not as smooth as usual, it may be due to the dirty and clogged A/C filter. In this case, clean or replace the A/C filter as soon as possible.

WARNING

If the air in the vehicle is foul, it will make the driver easily fatigued, lack of energy, and distracted, which is easy to cause an accident, resulting in personal injury or even death. Therefore, enable the air circulation mode according to the actual situation.

CAUTION

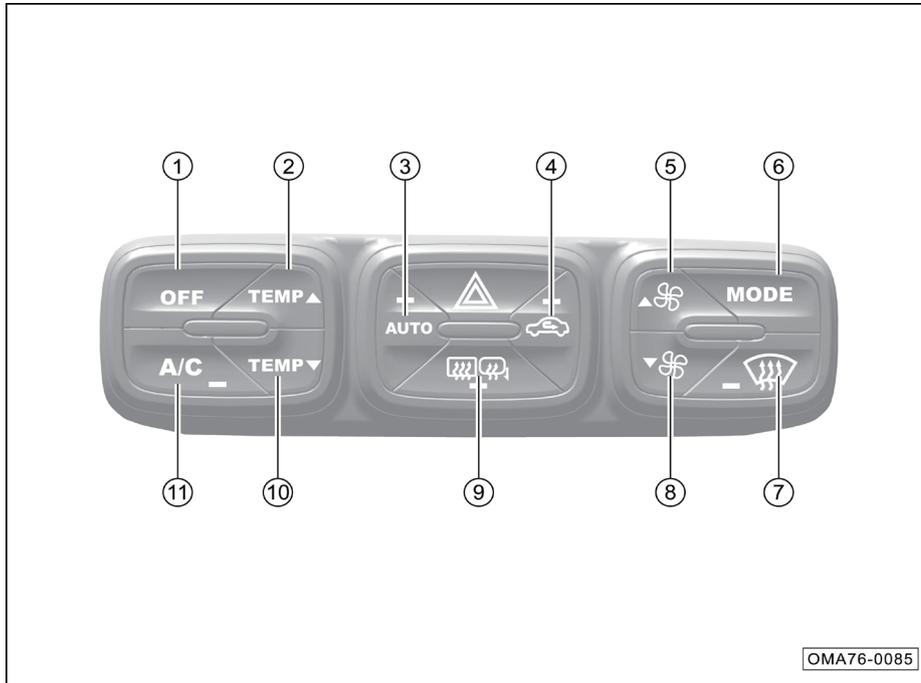
If the A/C system has failures (such as no cooling, odor in outlet air, etc.), please go to the GAC Motor authorized shop for inspection.

NOTE

- When the ignition switch is in "ON" position, the A/C system can be operated.
- When the A/C is turned on, there will be water dripped under the vehicle. Prolonged parking with the A/C on will cause accumulated water, which is normal.
- Regularly clean the front windshield wiper cover and remove snow, ice, and leaves to avoid clogging the A/C air intake and ensure normal air intake.
- The A/C system can achieve its maximum effect with the windows and sunroof closed. However, when the inside temperature is high under hot sun, open the windows briefly to dissipate the inside heat, and then enable the A/C for cooling.

4. Operation of systems and equipment

4.5.2 A/C system



- ① OFF button
- ② TEMP ▲ Temperature up button
- ③ AUTO mode button*
- ④  Recirculation/ fresh air mode button
- ⑤  Fan speed up button
- ⑥ MODE Air supply mode button
- ⑦  Front windshield defrosting/defogging button
- ⑧  Fan speed down button
- ⑨  Rear windshield and exterior rearview mirror defrost/defog button*
-  Rear windshield defrost/defog button*
- ⑩ TEMP ▼ Temperature down button
- ⑪ A/C cooling button

NOTE

- The A/C system can also be controlled by pressing any button on the HVAC control panel and switching the AV system display interface to the A/C system control interface.
- Some functions specific to the A/C system can be set in "System Settings → AC & Seat → A/C" of AV system.

Turn off the A/C

- Press the OFF button to turn off the A/C system.
- After the A/C system is turned off, the  button and the MODE button can be effectively operated without turning on the A/C system; operating the button  and the  button has no effect; operating the AUTO button*, A/C button,  button,  button or  button can turn on the A/C system.

Temperature setting

- Press the  button and  button to adjust the inside temperature by 0.5°C each time.
- The adjusted temperature value, within the range of 18.5°C~31.5°C, is displayed on the AV system display. When the set temperature is lower than 18.5°C, the display shows LO; when the set temperature is higher than 31.5°C, the display shows HI.
- In auto mode, when LO/HI is displayed, the system will keep high air volume.
- In auto mode, in order to obtain the most satisfactory indoor temperature, it is recommended to set the temperature to 25.0°C, and adjust the temperature if necessary.

Automatic mode*

If the AUTO button is pressed, the button indicator lamp will come on, and the A/C system will enter the auto mode. The followings item will all automatically be controlled according to the settings:

- Outlet air temperature.
- Air volume at the air outlet.
- Air supply mode.
- Air circulation mode.
- Working state of the A/C cooling system.
- Working state of the plasma purifier.

Press the  button or the  button or the MODE button to exit the auto mode of the A/C system.

4. Operation of systems and equipment

Air circulation

Repeatedly press the  button to switch the air circulation between the recirculation mode and the fresh air mode.

- Recirculation: press the  button, so the button indicator lamp comes on and the air circulation enters the recirculation mode. This mode prevents the outside air from entering the vehicle and recirculate the inside air. This mode can prevent dirty air from entering the vehicle.
- Fresh air: press the  button, so the button indicator lamp goes out, and the air circulation enters the fresh air mode. This mode introduces the outside air into the vehicle to keep the inside air fresh.

CAUTION

- Long-term recirculation mode will cause accumulation of carbon dioxide in the vehicle, which is not conducive to keeping driver clearheaded.
- The recirculation mode in cold or rainy days can easily cause the windows to mist up, affecting the driver's visibility and probably causing serious accidents.

Fan speed setting

- The fan speed setting can be controlled manually or automatically*.
- Press the  /  button to increase/decrease the fan speed by one level each time. The AV system display shows the corresponding fan speed level.
- In auto mode, in order to make the indoor temperature reach the target value, the A/C system will automatically control the fan speed. The A/C system will exit the auto mode if the  button/  button is pressed.

Air supply mode

- Press the MODE button to manually and circularly select 4 air supply modes in the following order:  panel mode, →  floor mode, →  floor mode, →  floor/defrost mode.

4. Operation of systems and equipment

- In auto mode*, the A/C system will automatically control the air supply mode. When the outlet air temperature is high, most of the air will be directed through the floor outlets; when the outlet air temperature is low, most of the air will be directed through the panel outlets. Press the MODE button to exit the auto mode of the A/C system.

NOTE

-  The panel/floor mode is mainly used when the outside temperature is slightly lower in spring and autumn. Therefore, the temperature of the upper outlets is slightly lower than that of the lower outlets, which is a normal phenomenon.
- The air supply mode, set temperature and comfort curve can be adjusted for personal comfort.
- In order to ensure that the A/C system can effectively control all the air supply modes automatically, please keep all air outlets open.
- During cold start in winter, in the auto mode*, A/C system will start from the defrost mode and enable a gradual transition to other modes.

Front windshield defrost/defog function

- If the  button is pressed, the button indicator lamp will come on, and the front windshield defrost/defog function will be activated.
- If the  button is pressed again, the button indicator lamp will go out, front windshield defrost/defog function will be deactivated and the state before defrosting/defogging will be restored; or press the AUTO button to enter the auto mode to turn defrost/defog function.

CAUTION

- When the temperature is set to the lowest, the defrost/defog function will cause the outer surface of the windshield to mist up, affecting the driver's visibility and probably causing serious accidents. When using the defrost/defog function, set the temperature close to the ambient temperature outside the vehicle.
- When using the defrost/defog function, if you manually turn off the A/C cooling function, it will cause the front windshield to mist up, affecting the driver's visibility and probably causing serious accidents.

Rear windshield defrost/defog function

- If the  /  button is pressed, the button indicator lamp will come on, the rear windshield defrost/defog function will be activated, and the rear windshield and exterior rearview mirrors* will be electrically heated.
- If the  /  button is pressed again, the button indicator lamp will go out, and the rear windshield defrost/defog function will be deactivated. If you do not manually turn off the rear windshield defrost/defog function, this function will be automatically deactivated after 15 minutes.

NOTE

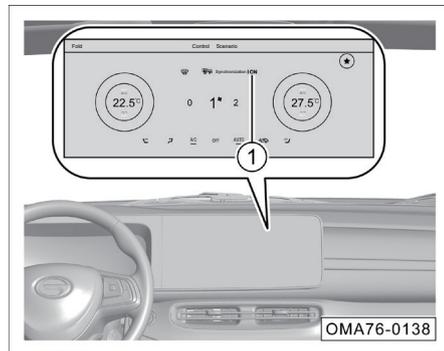
With the engine shut down, using the rear windshield defrost/defog function for a long time will cause low battery voltage, making it impossible to start the engine.

A/C cooling button

- Press the A/C cooling button. The button indicator lamp will come on, and the A/C system will start cooling.
- Press the A/C cooling button again. The button indicator lamp will go out, and the A/C system will stop cooling.

4. Operation of systems and equipment

Plasma purifier

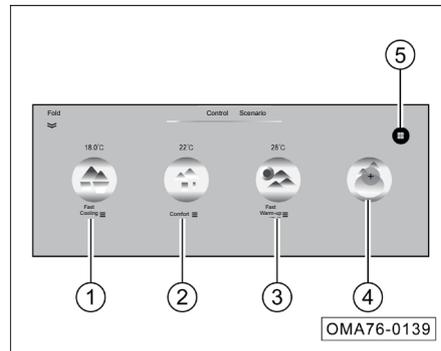


Switch the AV system to the A/C system control interface, and click ION soft key ①. The soft key indicator lamp will come on, and the A/C system will turn on the plasma purifier. It can produce negative ions, effectively decompose harmful gases such as formaldehyde and benzene in the vehicle, and purify the inside air.

Click ION soft button ① again. The soft key indicator lamp will go out, and the A/C system will turn off the plasma purifier.

Operating ION soft key and AUTO button* can turn on the plasma purifier.

A/C scene



Switch the AV system to the A/C system control interface, and click "Scene" soft key to enter the A/C scene interface.

1. Preset scene 1

- Fast Cooling: 18°C, AUTO: On, the A/C curve is "Fast", and the temperature is rapidly decreased until the target temperature is reached.

2. Preset scene 2

- Comfort: 22°C, AUTO: On, the A/C curve is "Normal" until the target temperature is reached.

3. Preset scene 3

- Fast Warm-up: 28°C, AUTO: On, the A/C curve is "Fast", the temperature is rapidly increased, and the maximum power is maintained until the target temperature is reached.

4. Add custom items

- Click the button to add up to 9 custom scenes.

5. Edit scene

- Click the button to adjust the sequence of scenes, delete a scene, and edit scene name.

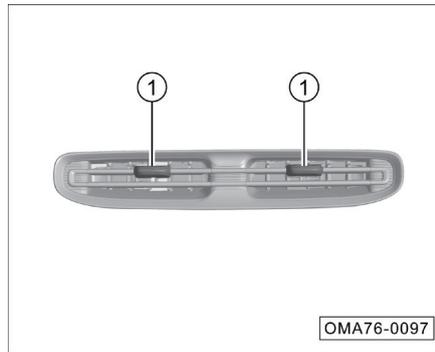
4.5.3 A/C air outlet

Panel side air outlet



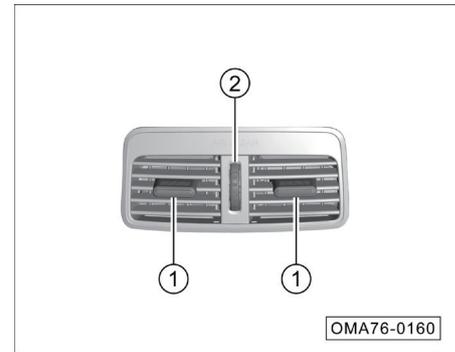
- Toggle the paddle ① up and down to adjust the air direction.
- Toggle the paddle ① left and right to adjust the fan speed, or close the air outlet.

Panel central air outlet



- Toggle the paddle ① up and down to adjust the air direction.
- Toggle the paddle ① left and right to adjust the fan speed, or close the air outlet.

Rear air outlet*

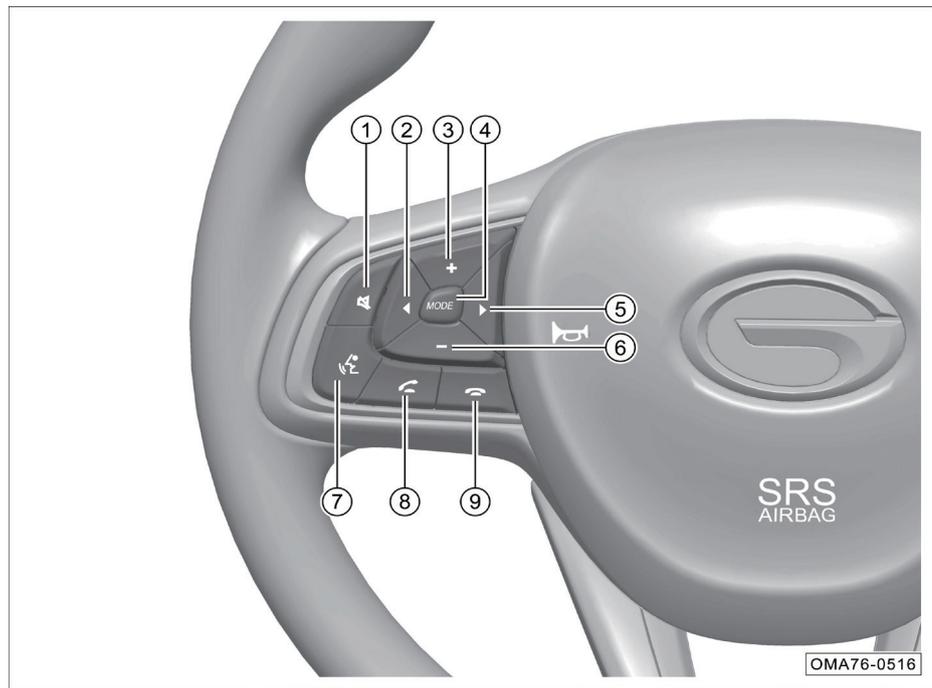


- Toggle the paddle ① to adjust the air direction.
- Turn the knob ② to adjust the air volume or close the air outlet.

4. Operation of systems and equipment

4.6 AV system

4.6.1 Control buttons on steering wheel



① Mute button

② ◀ button

- In radio mode, press this button to automatically search for valid stations with lower frequencies. If a valid station is found, the automatic search will be stopped and the station will start playing.

- In media source playback mode, press this button to skip to the previous track.

③ Volume up button

④ Audio source switching button

- Press this button repeatedly to switch as follows: FM → AM → Online Radio * → USB → Bluetooth Music → Online Music * → FM.

- Pressing this button will not actively switch to CarLife music; if CarLife music is currently playing, pressing this button will switch to radio mode.

⑤ ▶ Button

- In radio mode, press this button to automatically search for valid stations with higher frequencies. If a valid station is found, the automatic search will be stopped and the station will start playing.
- In media source playback mode, press this button to skip to the next track.

⑥ Volume down button

⑦ Voice button

- Models with AV unit: Press this button to activate or end the carlife voice.
- Models with AVNU unit: Press this button to activate or end the voice Xiaoqi, and press and hold this button to activate or end the carlife voice.

⑧ Answer call button

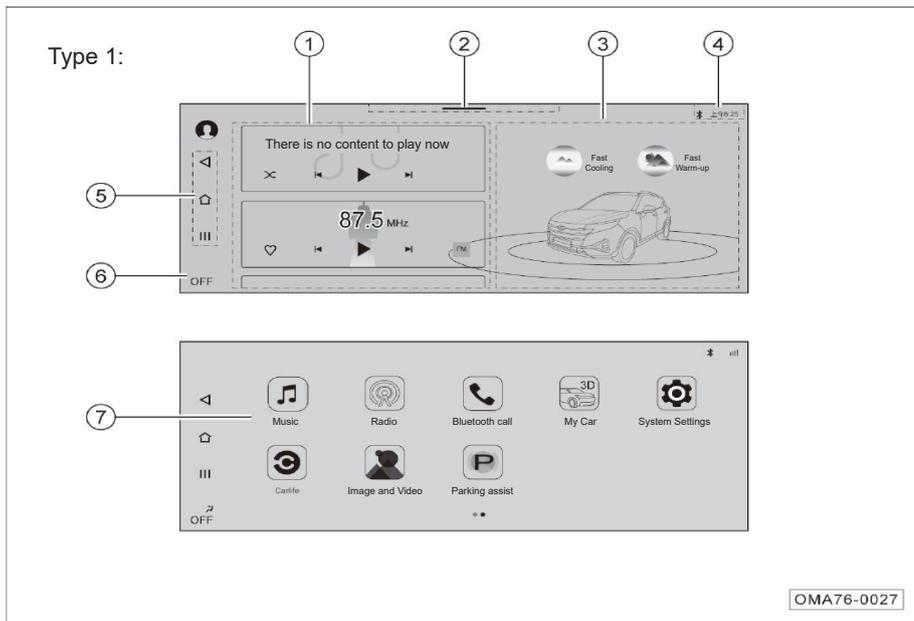
- When there is an incoming call via the Bluetooth, you can press this button to answer the call.
- When there is no incoming call via the Bluetooth, you can press this button to enter the Bluetooth Settings interface.

⑨ End call button

- When there is an incoming call via the Bluetooth, you can press this button to reject the call.
- During a call, you can press this button to end the current call.

4. Operation of systems and equipment

4.6.2 Basic operation



Description of function areas in main interface:

- ① Smart card area
 - Click the cards to quickly enter the corresponding function interfaces.
 - Cards can be added and sorted in a user-defined way.
- ② Drop-down menu bar
 - Swipe down to enter the drop-down menu bar control interface.
- ③ Smart scene area

The smart scene area includes two functions: 3D vehicle model, and smart scene mode.

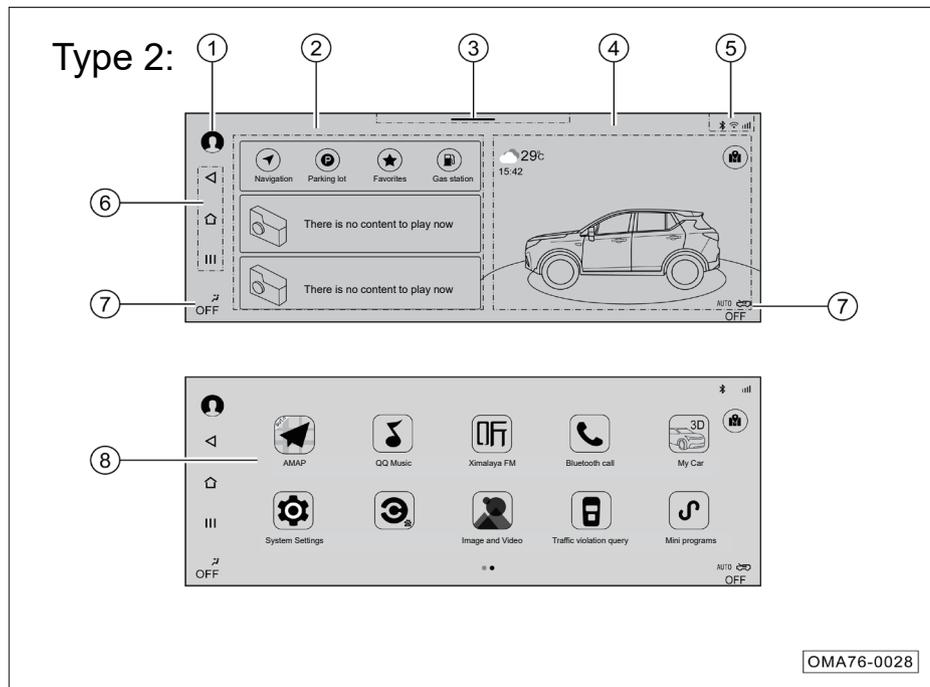
 - 3D car model: swipe left and right to rotate the 3D car model leftward and rightward; click to enter the “My Car” application interface for sunroof operation.
 - Smart scene mode: this mode includes fast cooling and fast warming. Click to control the mode switch and switch to the other mode.

- ④ System status bar
 - This bar indicates the system status such as “Time”, and “Bluetooth Connection”. Click on an icon to enter the corresponding function interface.
- ⑤ System navigation bar area
 - Soft keys for system control.
- ⑥ A/C state display/control bar area
 - This area indicates the current A/C state. Click on here to enter the A/C control interface.
- ⑦ Application menu interface
 - Click the menu button in the system navigation bar on the left side of the desktop to enter the application menu interface.

i NOTE

The main interface shown is only an example of configuration. It can be used as a guide for vehicle models with an AV unit. Specific functions and interfaces depend on the actual vehicle configuration.

4. Operation of systems and equipment



Description of function areas in main interface:

- ① Entrance to Personal Center
 - Click here to enter the Personal Center Settings interface.
- ② Smart card area
 - Click the cards to quickly enter the corresponding function interfaces.
 - Cards can be added and sorted in a user-defined way.
- ③ Drop-down menu bar
 - Swipe down to enter the drop-down menu bar control interface.
- ④ Smart scene area
 - Click the Scene switching button to switch between the Car Model mode and Cruise Control mode.
 - In the Car Model interface, swipe left and right to rotate the car model leftward and rightward; click on the car model to enter "My Car" application interface.
 - In the Cruise Control interface, you can perform simple operations in the Map interface.

4. Operation of systems and equipment

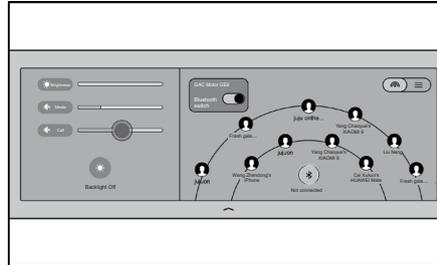
- ⑤ System status bar
 - This bar indicates the system status such as “Bluetooth Connection”. Click on an icon to enter the corresponding function interface.
- ⑥ System navigation bar area
 - Soft keys for system control.
- ⑦ A/C state display/control bar area
 - This area indicates the current A/C state. Click on here to enter the A/C control interface.
- ⑧ Application menu interface
 - Click the menu button in the system navigation bar on the left side of the desktop to enter the application menu interface.

i NOTE

The main interface shown is only an example of configuration. It can be used as a guide for vehicle models with an AVNT unit. Specific functions and interfaces depend on the actual vehicle configuration.

The AVNT unit will automatically and synchronously refresh the GPS time, without manual setting.

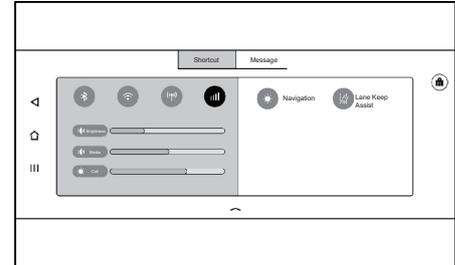
Drop-down menu bar (for vehicles with AV unit)



In any other interface, swipe down from the top of the screen (drop-down menu bar) to show the drop-down menu. Click on  or swipe up to hide the drop-down menu bar. In the drop-down menu bar interface, if there is no operation, the drop-down menu will be automatically hid after 20s.

Click any function button in the drop-down menu bar to turn on/off the corresponding function, or enter the corresponding function interface.

Drop-down menu bar (for vehicles with AVNT unit)



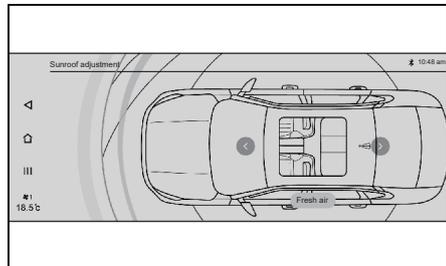
In an interface other than the voice and A/C interfaces, swipe down from the top of the screen (drop-down menu bar) to show the drop-down menu. Click on  or swipe up to hide the drop-down menu bar. In the drop-down menu interface, if there is no operation, the drop-down menu will be automatically hid after 20s.

Click the “Shortcut” or “Message” button to switch to the shortcut drop-down interface or the message drop-down interface.

Click any function button in the drop-down menu bar to turn on/off the corresponding function, or enter the corresponding function interface.

4. Operation of systems and equipment

My Car



After the AV system works normally, click on the 3D car model in the smart scene area in the main interface or the “My Car” soft key in the application menu interface to enter the My Car interface.

- Click on  or the “Fresh air” soft key to adjust the sunroof accordingly.

CarLife*

Via CarLife, the in-car system can share functions of mobile phones such as calls, navigation and music.

i NOTE

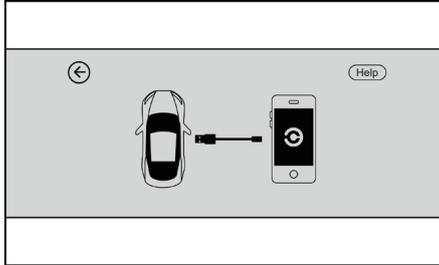
- CarLife is developed by Baidu for connecting mobile phones with vehicles. It only supports mobile phones with Android 4.0 or above and iPhones with IOS 8.0 or above. For supported mobile phones, refer to the latest list on Baidu's official website. The CarLife interface/function will be updated with the APP version. For the specific interface/function, refer to the actual version used.
- If an abnormality occurs in CarLife, it is recommended to unplug and replug the connector and check that the connecting cable is in good conditions. If the connecting cable is damaged, please replace it with a new genuine one.

i NOTE

- When the operating system of mobile phones/iPhones (Android/IOS) is updated, all or some CarLife functions may become unavailable. This is because, after the operating system of mobile phones/iPhones is updated, the original interaction protocol is changed or the version is not supported by CarLife. As a result, the CarLife functions are affected.
- iPhones do not currently support WiFi connection.
- Due to different compatibility of CarLife with various versions of operating system of mobile phones, mobile phones with CarLife APP may not be normally connected with the in-car system. For details, please consult the mobile phone dealer.

4. Operation of systems and equipment

How to obtain the application



- If CarLife APP is not installed on the mobile phone, search for Baidu CarLife APP in the browser or Android app store and download it. After connecting the mobile phone to the main unit via a USB cable, click the “CarLife” soft key in the application menu interface.
- When the display shows the interface as shown, click “Help” to obtain connection help. You can view the detailed instructions to connection method for “Android phone” or “iPhone” according to your mobile phone.

Voice*

After the AV system is turned on and works normally, wake up the voice recognition engine in the following ways before issuing a voice command to the voice recognition engine that needs to be waken up:

- Press the button  on the left side of the steering wheel to start the voice recognition engine.
- Click the voice image in the “Voice card” in the main interface and the “Voice” icon in the application menu interface to start the voice recognition engine.
- Wake-up word: the default wake-up-word is “Hello, Xiaoqi”, and another wake-up word can be customized.

Define another wake-up word as follows:

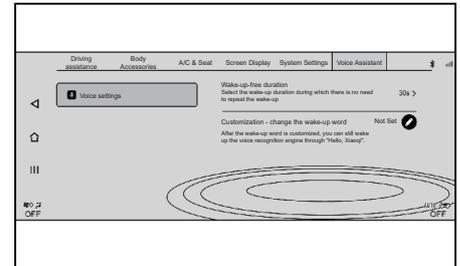
1. Wake up the voice assistant by saying “Hello, Xiaoqi”, and say “Give you a name XXX” to set another wake-up word.
2. The user can set the voice function through System Settings → Voice Assistant.

After you wake up the voice recognition engine and hear a beep, you can perform the voice control setting.

i NOTE

The success rate of voice recognition will be affected by objective factors, such as ambient noise and network signal conditions, as well as subjective factors, such as usage habits and pronunciation. Specific control effects depend on the actual vehicle.

Voice settings



4. Operation of systems and equipment

Enter the “Voice Assistant” interface, and then enter the Voice Settings interface or About Voice Assistant interface.

1. Wake-up-free duration
 - The duration can be set to 15s/30s/60s/90s.
2. Customization - change the wake-up word
 - You can change the wake-up word of the voice assistant according to your own habits and preferences. After the wake-up word is customized, you can still wake up the voice recognition engine through “Hello, Xiaoqi”.

4.6.3 Personal account*

Identification for activation



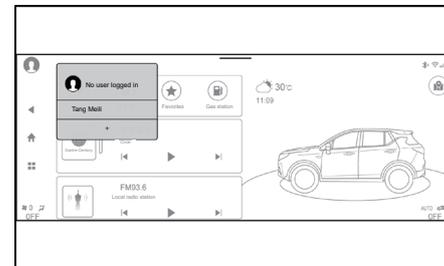
When using the main unit for the first time, the user needs to perform owner identification to activate the main unit (this page can be skipped by clicking the “Experience Mode” soft button).

Step 1: Download the GAC Motor T-BOX APP by scanning the QR code or from the App Store.

Step 2: Register an account on the GAC Motor T-BOX APP.

Step 3: Enter the vehicle information on the GAC Motor T-BOX APP, and scan the QR code for identification and activation. After owner identification, this owner account will be logged in automatically and the home page will show.

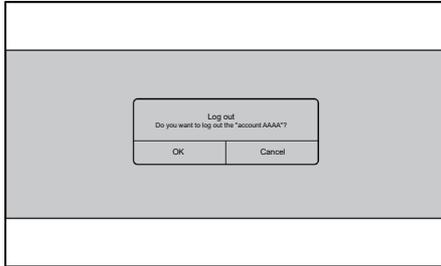
Account login



Click on the avatar in the upper left corner of the home page, so the account list interface will pop up. Select an existing user account avatar to log in or add a new account by registering it on the GAC Motor T-BOX APP to log in.

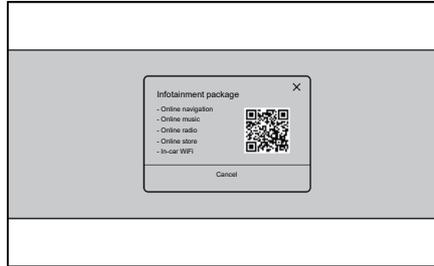
- Select either “Scan QR code” or “Password” to log in.
- Users can also choose to log in without a password, provided that users check to agree to use the switched account without verification and click on the account avatar after checking to log in successfully.

Logout



Click Logout on the Personal Center page, and then "OK" to log out of the current account. The precondition for the logout is that the gearshift lever is in a position other than "P" and the vehicle speed is 0. If this condition is not met, the logout will fail, and a prompt "Stop vehicle to log out for the sake of your safety" will appear.

Mobile data query



Users can click "My mobile data" on the personal center page to query the data plan and remaining data.

4. Operation of systems and equipment

4.6.4 OTA update*

Available update reminder

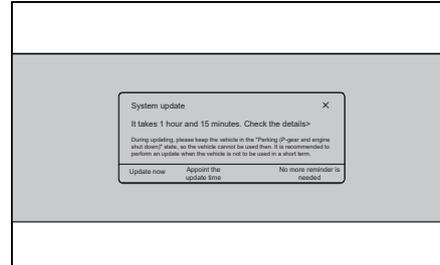
- When an update is available, an update prompt window will pop up automatically when the ignition switch or ENGINE START/STOP button is set to "OFF".
- Click "Update" to open the system update window; if the APP is currently the latest version, "This APP is currently the latest version" will be displayed.

Interface reminder display

- When the system detects a new version, the "System Settings" will show an update mark.
- Click this mark to enter "System Settings". When there is a new version, the page "System Information" will show an update mark.
- Click this mark to enter "System Information". When there is a new version, the "update" button in the page will show an update mark.

Update operation

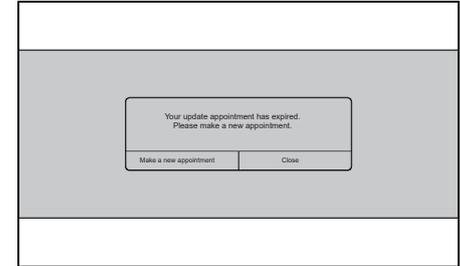
Update appointment



1. Click "Update appointment" to set the update time. If the vehicle meets the update conditions at the set time, the update will be automatically performed.

i NOTE

The appointment adopts a 24-hour system. If the set time is earlier than the current time, it will be postponed to the next day.

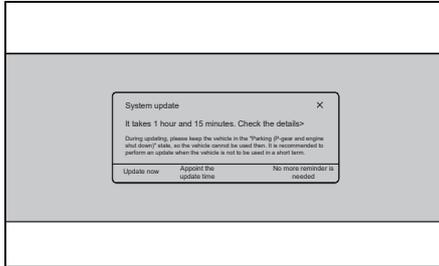


2. Update appointment reminder

- After making an appointment for an update, a window will always pop up to prompt that there is an appointment for an update every time the engine is started.
- In 15 minutes before the set time, if the gearshift lever is in the P position, a window will pop up to prompt that there is an appointment for update.

4. Operation of systems and equipment

Update now

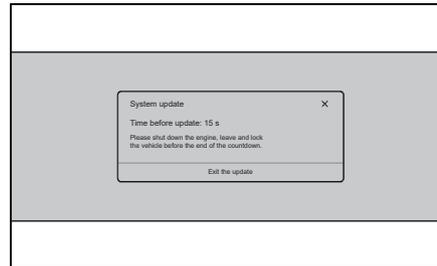


Click "Update now" to start the update process immediately.

- Click "View details" to display the information of the updated version and updated contents.
- Click "No more reminder is needed", so no active reminders will be given for this update task.
- Click "Update now" to display "Tips", i.e., precautions for an update.

Screen interaction and display during update

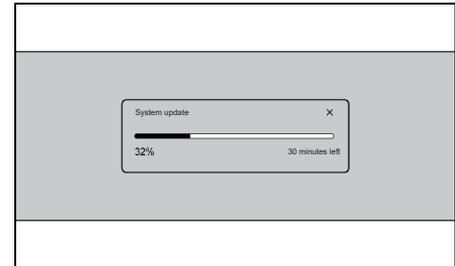
Update countdown



- Before a due update, a countdown page appears. Before the countdown ends, you can cancel the update through the "Exit the update" button.
- The countdown window displays precautions for an update, update guidelines and estimated update duration.
- At the end of the countdown, an update will start. If the vehicle does not meet the update conditions, a corresponding prompt will be displayed. If the vehicle meets the update conditions, an update will start. Once the update starts, it cannot be interrupted for exit.

- Once the update starts, the main unit will display a black screen and be muted, and at the same time, functions such as ENGINE START/STOP button and door window regulator may fail and will automatically resume after the update.

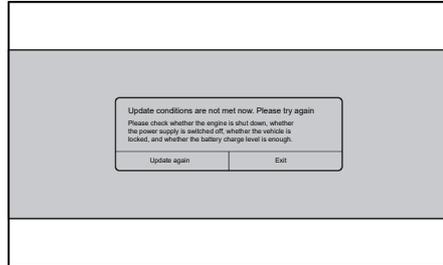
Update progress display



- During the update, click to light up the screen and display the update progress page, which contains information such as update progress status and estimated remaining time.

4. Operation of systems and equipment

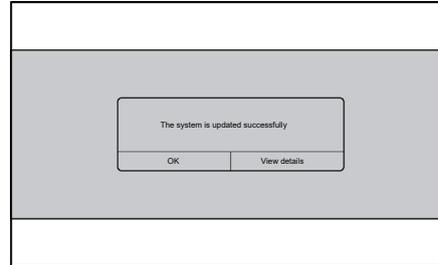
Update again



- When the update conditions are not met, a prompt window will pop up. Click "Update again" to enter the system update window and restart the update.

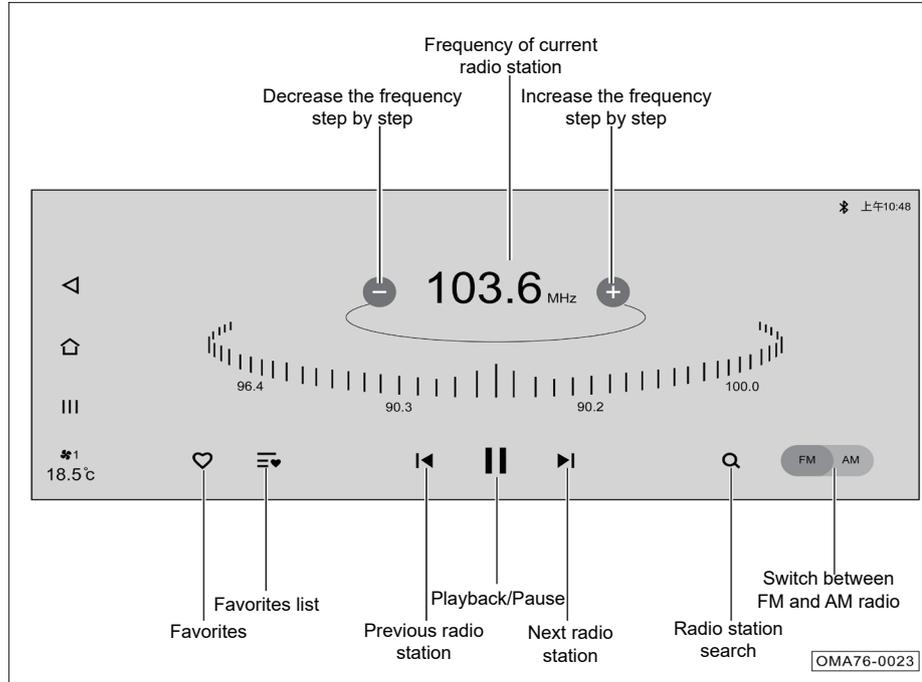
Update result feedback

Successful update



- If the update is successful, a window will pop up. Click "View details" to view the information of the current version and updated contents.

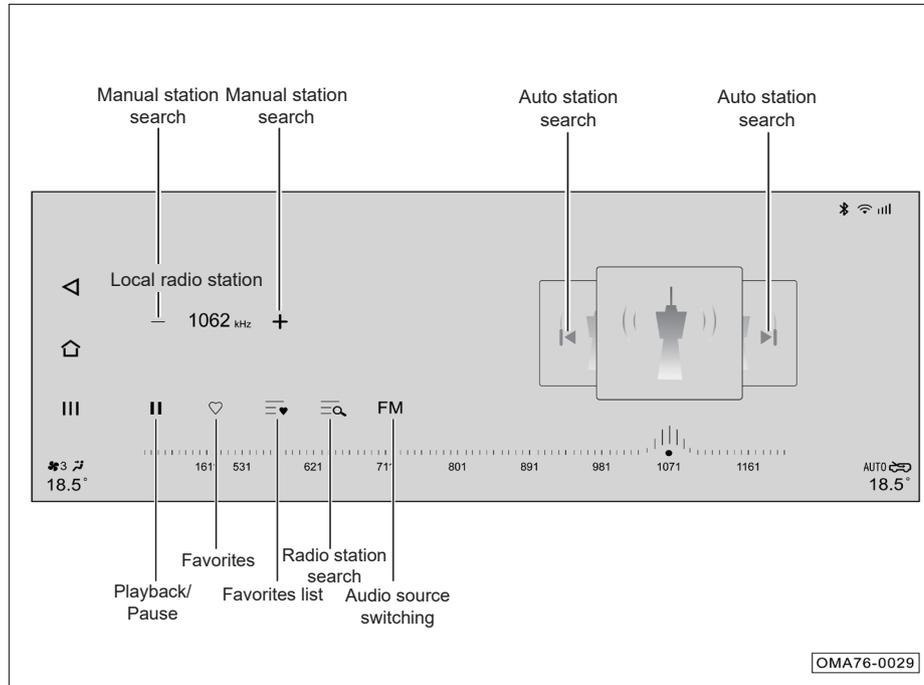
4.6.5 Radio



Enter the Radio interface of the AV unit in the following ways:

- Click the “Radio” card in the main interface to enter the radio mode.
- Enter the radio mode by clicking the “Radio” soft key in the application menu.
- Press the MODE button on the left side of the steering wheel repeatedly to switch to the radio mode.

4. Operation of systems and equipment



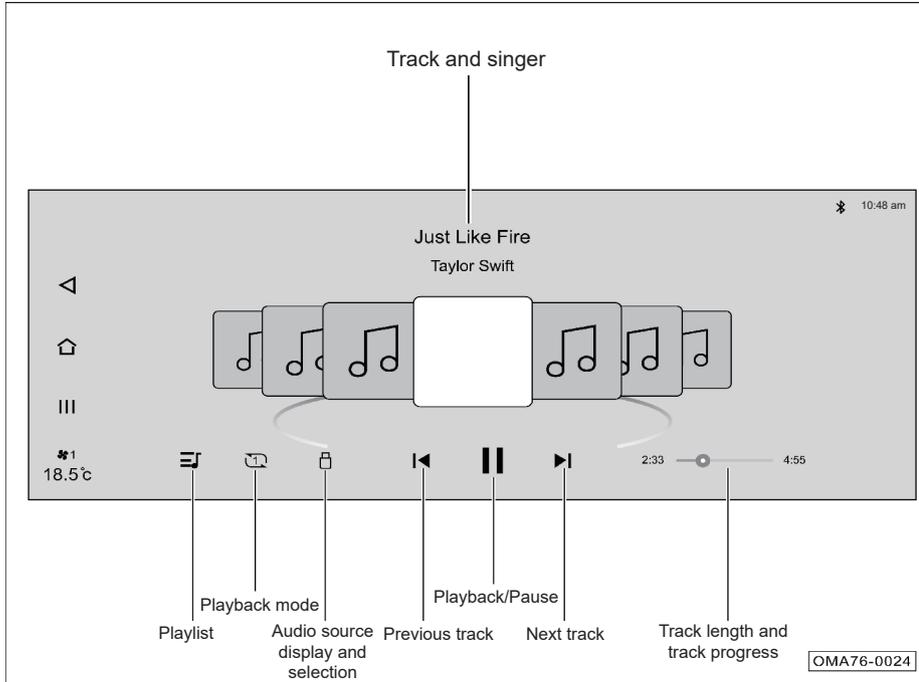
Enter the Radio interface of the AVNT unit in the following ways:

- Click the "Radio" card in the main interface to enter the radio mode.
- Enter the radio mode by clicking the "Radio" soft key in the application menu.
- Press the MODE button on the left side of the steering wheel repeatedly to switch to the radio mode.

i NOTE

The radio station is divided into two modes: local radio and online radio. Only local radio is described here.

4.6.6 USB media playback



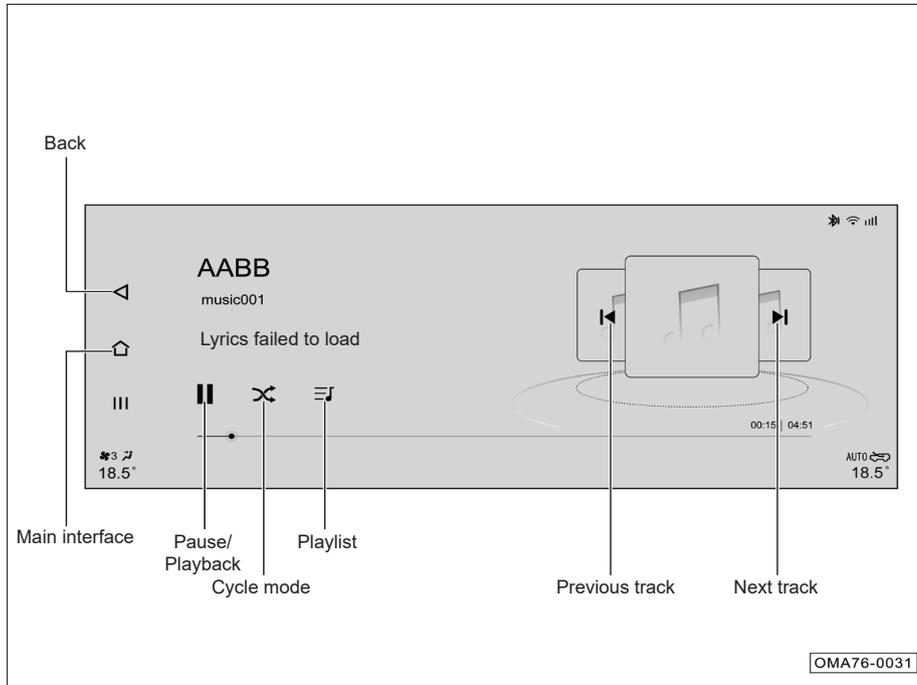
Enter the USB media playback mode of the AV unit in the following ways:

- Click the "Music" card in the smart card area of the main interface to enter the music interface, and click "Audio source switching" to switch to "USB media playback".
- Click the "Music" soft key in the application menu interface to enter the music interface, and click "Audio source switching" to switch to "USB media playback".
- Press the MODE button on the left side of the steering wheel repeatedly to switch to the USB media playback mode.

i NOTE

The AV system supports USB flash drives with capacity of FAT 16/32.

4. Operation of systems and equipment



Enter the USB media playback mode of the AVNT unit in the following ways:

- Click the "Music" card in the smart card area of the main interface to enter the music interface, then click "Local music", and click "USB media playback".
- Click the "Music" soft key in the application menu interface to enter the music interface, then click "Local music", and click "USB media playback".
- Press the MODE button on the left side of the steering wheel repeatedly to switch to the USB media playback mode.

i NOTE

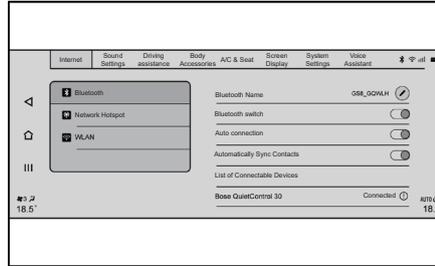
- The music interface has three functions: Music hall (Online music), Local music, My music; only "Local music" is introduced here.
- The AV system supports USB flash drives with capacity of FAT 16/32.

4.6.7 Bluetooth function

Enter the Bluetooth mode

Enter the Bluetooth mode in the following ways:

- Click the “Bluetooth call” soft key in the application menu interface to enter the Bluetooth mode.
- In non-call mode, press the button  on the left side of the steering wheel to enter the Bluetooth mode.
- Click the button  in the drop-down menu to enter the Bluetooth mode.



- If there is no Bluetooth device connected, use the above method to enter the Bluetooth Settings interface.
- After turning on the Bluetooth function, the main unit will automatically search for nearby connectable devices and display them in the list.
- Follow the prompts to connect the mobile phone successfully.
- Click “Connected” in the list of connectable devices to disconnect the Bluetooth device.

Bluetooth connection failure

Possible cause	Action
The device's Bluetooth function is set incorrectly	Set the device's Bluetooth so that it can be “Visible to Everyone” or can be searched or opened for detection
The current device is not compatible with the in-car Bluetooth system	Confirm the compatibility of the device with the Bluetooth version, update the operating system of the mobile phone to the latest version and try again
The mobile phone's Bluetooth was connected to other devices	It is recommended to delete the Bluetooth devices that were connected

4. Operation of systems and equipment

4.6.8 System settings

Click the “System Setting” soft key in the application menu interface to enter the system setting interface. In the settings interface, click on an option to select it, click on the slider  to enable or disable the function, and drag the progress bar for adjustment.

Settings group	Function	Function	Options
Internet	Bluetooth	Bluetooth Name	/
		Bluetooth switch	On/Off
		Auto connection	On/Off
		Automatically Sync Contacts	On/Off
		List of Connectable Devices	/
	Network Hotspot	Mobile networks	On/Off
		Mobile hotspot	On/Off
		Hotspot name	/
		Connection password	/
		Restart the on-board communication module	Restart
	WLAN*	WLAN On/Off	On/Off
		List of connectable networks	/

4. Operation of systems and equipment

Settings group	Function	Function	Options
Sound Settings	System sound effect	Multimedia volume	Range: 0~39
		Voice recognition*	Range: 0~10
		Call volume	Range: 0~10
		Navigation volume*	Range: 0~10
		3D sound effect	Off/Driver/All occupants
		Sound effect mode	Classic/Pop/Jazz/Rock/Default/Custom
		DTS professional sound effects	Natural soundtrack/clear voice/subbass/leisure mode
		Speed-sensitive volume control	Not sensitive/Weakly sensitive/Generally sensitive/Strongly sensitive
		Startup volume	Adaptive/Invariant
		Assist chime and media sound	Unchanged/Mute
	Unlock/lock prompt sound	On/Off	
	Interactive sound effect	Touch tone	Modern/retro/off
Driving assistance	Safe driving reminder	Safe speed reminder	Range: 0~200
	Longitudinal vehicle control assist	Forward collision warning*	On/Off
		Forward collision warning distance setting*	Far/medium/near
		Active brake assist*	On/Off
	Lateral vehicle control assist	Steering mode	Comfort/Standard/Sport
		Lane departure warning*	On/Off
		Current driving mode memory	On/Off

4. Operation of systems and equipment

Settings group	Function	Function	Options
Body Accessories	Exterior Light	Follow me home	Off/Low beam only/Low beam and rear fog lamp
		Daytime running lamp*	On/Off
	Lock/Unlock	Remote unlock	All doors/Driver's door only
		Speed sensing door lock	On/Off
		Auto unlock	On/Off
		Intelligent active lock*	On/Off
		Intelligent active unlock*	On/Off
	Other accessories	Auto folding of exterior rearview mirror*	On/Off
		Remote control of windows & sunroof	On/Off
Wiper maintenance		On/Off	
A/C & Seat	A/C	Maximum air volume in auto mode	Low/medium/high
		Intelligent control of recirculation/fresh air mode*	On/Off
		A/C comfort curve	Soft/Normal/Fast
	Seat*	Automatic heating of driver's seat	On/Off
		Automatic heating of front passenger's seat	On/Off
Screen Display	Console display	Console screen brightness mode	Range: 0~100
		A/C interface hold time	5s/10s/15s/30s

4. Operation of systems and equipment

Settings group	Function	Function	Options
System Settings	Basic settings	Time and date	/
		24-hour system	On/Off
		Message push*	On/Off
	System information	Hardware version	/
		System version	/
		System update*	Update
		Memory size*	/
		Cleanup acceleration*	Cleanup
		Current language	Chinese/English*
		Supported languages	Chinese/English*
	Vehicle Information	Factory reset	Reset
		Manufacturer	/
Model		/	
Voice assistant	Voice settings	S/N	/
		Customized wake-up duration	15s/30s/60s/90s
		Customized wake-up word	/

4. Operation of systems and equipment

4.7 GAC Motor T-BOX*

4.7.1 General description

GAC Motor T-BOX is an intelligent in-car service system for GAC Motor series vehicles.

GAC Motor T-BOX was self-developed by GAC as GAC Motor's latest generation of automotive electronic system. It uses mobile communication networks, and is connected into the professional TSP platform. Relying on global satellite-based positioning systems, owners can enjoy services such as security self-help, vehicle control via mobile APP, and infotainment in real time through emergency rescue service and owner self-service website and the GAC Motor T-BOX. GAC Motor T-BOX is dedicated to creating a quality intelligent vehicle for you, bringing you an intelligent, secure and enjoyable driving experience.

This section aims to introduce the GAC Motor T-BOX, so you can quickly learn about its use and operation. For further information, please read the "Help Center" on the GAC Motor T-BOX's owner self-service website or mobile APP.

Before using the GAC Motor T-BOX for the first time, be sure to read the "Service Agreement" and "Help Center" carefully to familiarize yourself with its usage and associated provisions.

If you have any questions, please consult a GAC Motor authorized shop or call the service hotline: 400-813-6666.

Tips

GAC Motor T-BOX will be restricted under any of the following conditions:

1. If the communication company's termination, postponement, gradual withdrawal, etc. leads to the inability to provide network services of the current communication standard (4G), the OEM will not assume the corresponding responsibility.
2. The GAC Motor T-BOX terminal integrated with the electronic equipment of the vehicle has been repaired or altered without authorization.
3. Power supply to the terminal is interrupted due to natural disasters, violent impacts, etc., or power supply is unavailable due to electric leakage of the vehicle's battery.
4. The vehicle cannot be located accurately due to abnormal GPS satellite signals, external interference in the airwaves, restricted airwaves in a certain area, etc.
5. The vehicle is running in an area where GPS satellite cannot accurately locate the vehicle, such as a place between high buildings, a tunnel and underground space.
6. All or partial services may be limited or terminated due to overhaul, replacement or malfunction of the center's system, natural disasters, national unrest, equipment failure, a dramatic increase in service usage, etc.

Communication service

Communication service is required when you use the GAC Motor T-BOX. During the experience period, the following backstage support services will be provided:

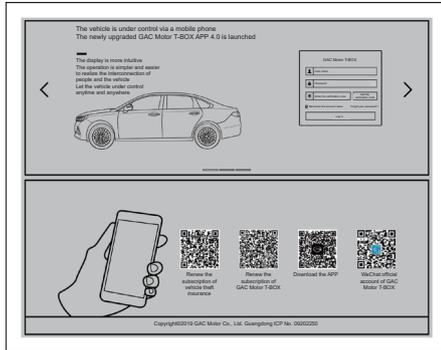
- A communication package provided by China Mobile will be available to vehicles equipped with the backstage support service system. Please consult the GAC Motor authorized shop for the details of the communication package.
- The communication package contains a certain amount of data traffic and call duration. After the set amount of the package is exceeded, some functions will be unavailable and users need to purchase new data plans at their own expense.

CAUTION

- GAC Motor T-BOX provides you with services such as vehicle control via mobile APP, vehicle condition query via mobile APP, and safety and security, allowing vehicle control via mobile APP anytime and anywhere and enhancing the convenience of vehicle usage. Since the in-car Internet device will cause communication costs, if you don't use it for a long time, there may be a risk that your SIM card will be deactivated and your number will be canceled by the telecoms operator. It is recommended that after purchasing the vehicle, you can open your account as soon as possible to experience the convenient life brought about by the GAC Motor T-BOX.
- The in-car device of GAC Motor T-BOX is integrated with SIM card's communication function. The basic data package of the SIM card can be used normally during the basic warranty period. But after the warranty period, the SIM card number will be canceled by the telecoms operator and cannot be activated. To restore this function, you need to replace the components of T-BOX assembly at your own expense at a GAC Motor authorized shop.

4. Operation of systems and equipment

4.7.2 Owner self-service website



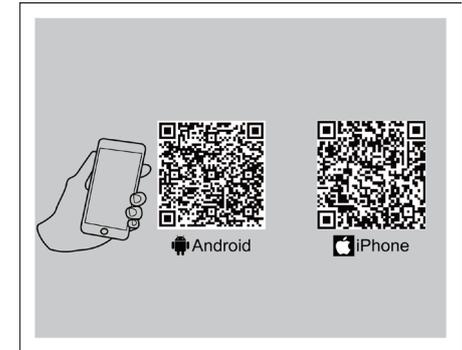
1. Use a browser to open the link “<http://trumpchi.gacmotor.timasync.com/selfservice-portal/>”.
2. Enter the user name and password.
3. Click the “Get Verification Code” (sent to the bound mobile phone number).
4. Enter the verification code.
5. Click the “Login” to enter the home page of GAC Motor T-BOX.

i NOTE

- Check the box “Save Account” so that you can log in this account directly next time without entering the user name and password.
- The user name is the mobile phone number that you bind to the GAC Motor T-BOX. If you need to change the password, you can log in the account to change it.

4.7.3 Download APP on mobile phone

Download and install APP on mobile phone



Use the mobile phone to scan the APP QR code to download the APP.

- In case of an Android mobile phone, scan the QR code on the left.
- In case of an iPhone, scan the QR code on the right.

4.7.4 Emergency rescue

The emergency rescue function includes automatic call after crash, roadside service and manual emergency call. Automatic call after crash will be automatically enabled by GAC Motor T-BOX under certain circumstances, while roadside service and manual emergency call need to be manually enabled by pressing the emergency call button.

Both the automatic call after crash and manual emergency call can call the emergency contact.

- Automatic call after crash: when the vehicle is involved in an accidental collision and the airbag is deployed, GAC Motor T-BOX will activate the automatic call after crash function to automatically call the emergency contact.
- Manual emergency call: when the automatic call after crash function does not work, manually press the emergency call button to activate the manual emergency call function to call the GAC rescue center.

Emergency call button



① LINK button: press and hold this button (3s) to make the GAC Motor T-BOX activate the roadside service function and call the roadside service phone number (this phone number is the 24-hour rescue phone number of a GAC Motor authorized shop written by this authorized shop when the vehicle is sold). After the call is answered, the rescue personnel of the GAC Motor authorized shop will provide services for you.

② SOS button: press and hold this button 3s to make the GAC Motor T-BOX call the emergency telephone number and the emergency contact.

i NOTE

- The emergency contact phone number is that you designated when you purchase the vehicle.
- If you need to change the phone number of the emergency contact, you can change it through the GAC Motor T-BOX APP or go to a GAC Motor authorized shop.

4. Operation of systems and equipment

4.7.5 Function list

You can obtain the GAC Motor T-BOX services by pressing the in-car emergency call button, using the mobile APP, or logging into the owner self-service website.

Category	Service	Description	Access method			Notification method		
			Website	APP	Button	Website	APP	Text message
Emergency rescue service	Automatic call after crash	When the vehicle is involved in an accidental collision and the airbag is deployed, GAC Motor T-BOX will activate the automatic call after crash function to automatically call the emergency contact.	Auto					○
	Roadside service	If the vehicle has a problem, you can seek for roadside service from the GAC Motor authorized shop by pressing the "LINK" button.			○			○
	Manual emergency call	In case of emergency, you can call the emergency contact you set up for the rescue service by pressing the "SOS" button immediately.			○			○
Vehicle control via mobile APP	Vehicle locating	When the vehicle is missing, you can locate it through the GAC Motor T-BOX APP on your mobile phone.		○		○	○	
	Door lock/unlock via mobile APP	You can lock or unlock the doors via the GAC Motor T-BOX APP.		○			○	
	Horn sounding via mobile APP	You can control the horn via the GAC Motor T-BOX APP.		○			○	
	Lamp flashing via mobile APP	You can control the flashing lights of the vehicle through the GAC Motor T-BOX APP.		○			○	
	Engine start/shutdown via mobile APP ¹	You can start or shut down the engine via the GAC Motor T-BOX APP.		○			○	
	A/C on/off via mobile APP ¹	You can control the A/C, including temperature, fan speed and recirculation/fresh air mode, via the GAC Motor T-BOX APP.		○			○	
	Seat heating via mobile APP ¹	You can heat the seats of the vehicle via the GAC Motor T-BOX APP.		○			○	

4. Operation of systems and equipment

Category	Service	Description	Access method			Notification method		
			Website	APP	Button	Website	APP	Text message
Car care service	Vehicle condition query ^{*2}	You can query about the vehicle conditions, including door lock status, tire pressure, etc., in real time via the GAC Motor T-BOX APP.	○	○		○	○	
	Self-diagnosis ^{*2}	You can query about the vehicle conditions in real time via the GAC Motor T-BOX APP which will prompt you when an abnormality occurs.	○	○		○	○	
	Vehicle abnormality alarm	The in-car GAC Motor T-BOX terminal monitors the vehicle conditions in real time, and uploads abnormalities if any. According to the abnormality information, specialists in GAC Motor T-BOX Service Center will contact you and remind you to go to the GAC Motor authorized shop for inspection as soon as possible.		Auto		○		○
Safety and security service	Vehicle anti-theft and abnormal event alarm	When the engine is shutdown, if the vehicle is illegally moved, for example, towed, the GAC Motor T-BOX Service Center will send a text message to notify you. Break-in alarm: When the doors are locked and the engine is shutdown, in case of a break-in, the GAC Motor T-BOX Service Center will send a text message to notify you.		Auto			○	

*1: This service can be executed only when the vehicle is equipped with an ENGINE START/STOP button and is armed.

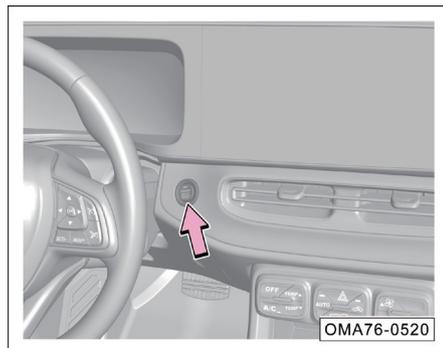
*2: This service can be executed only when the vehicle is armed.

5. Driving guide

5.1 Starting and driving

5.1.1 Ignition switch

ENGINE START/STOP button*



The ENGINE START/STOP button works only when the intelligent remote control key is detected in the vehicle.

When the transmission gearshift lever is in “P” position and the brake pedal is depressed, the ENGINE START/STOP button indicator lamp will turn green. At this time, press the ENGINE START/STOP button to start the engine.

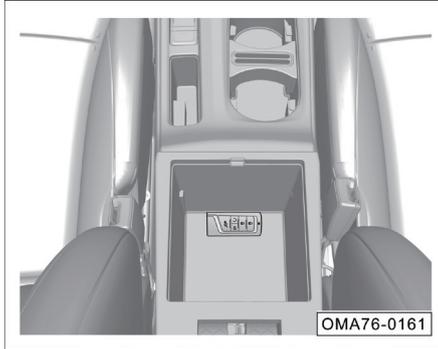
When the automatic transmission gearshift lever is set to “P” position and the brake pedal is not depressed, press the ENGINE START/STOP button to switch between positions in the following order: “OFF → ACC → ON → OFF...”.

- OFF: The ENGINE START/STOP button indicator lamp goes out, and the ENGINE START/STOP button is switched off.
- ACC: The ENGINE START/STOP button indicator lamp turns orange, and the circuits of 12V power supply and other accessories are connected.
- ON: The ENGINE START/STOP button indicator lamp turns orange, the instrument cluster backlight comes on, and the circuits of all electrical consumers are connected.

i NOTE

- When the gearshift lever of the automatic transmission is in a position other than “P” and the brake pedal is not depressed, press the ENGINE START/STOP button to switch it from “OFF” to “ACC”. If the ENGINE START/STOP button is pressed repeatedly, it will be switched in the sequence of “ACC→ON→ACC...”, rather than return to “OFF”.
- Under normal circumstances, the positions can only be switched cyclically in turn, that is, from “ACC” to “ON”. However, when the transmission gearshift lever is in “P” position and the ENGINE START/STOP button remains in “ACC” position for one hour, the vehicle will enter the battery saver mode and the ENGINE START/STOP button automatically returns to “OFF” position.
- For MT models, it is recommended to operate the ENGINE START/STOP button when the manual transmission gearshift lever is in the N position.

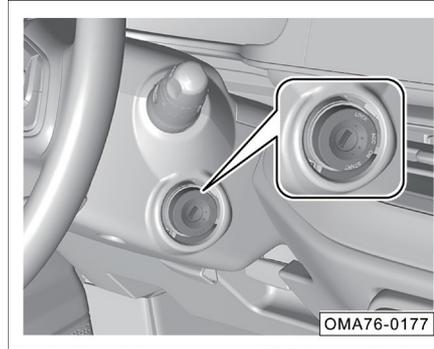
Limp home mode*



When “No key detected” appears on the instrument cluster display due to low battery of the intelligent remote control key, you can try to place the intelligent remote control key flatwise in the front of the bottom inside the armrest box, then set the ENGINE START/STOP button to “ACC” or “ON” position or depress the brake pedal, and after the ENGINE START/STOP button indicator lamp turns green, press the ENGINE START/STOP button to start the engine.

This method is intended for emergency start. Please replace the battery of the intelligent remote control key as soon as possible.

Conventional ignition switch*



The ignition switch has 4 positions:

- LOCK (OFF): in this position, circuits are not connected; the key can be pulled out only in this position.
- ACC: The circuits of accessories such as the 12V power supply are connected.

- ON: in this position, the instrument cluster backlight comes on, and the circuits of all electrical consumers are connected; after the engine is started, the ignition switch will be switched to this position.
- START: this position is only used to start the engine.

i NOTE

In case of failure to turn the key from “LOCK” to “ACC”, the steering wheel may be turned slightly to disengage the steering wheel locking mechanism until the key can be turned to switch the position of the ignition switch.

5. Driving guide

5.1.2 Engine start

Vehicle models with a manual transmission

Vehicle models with an ignition switch

- Insert the mechanical key in the ignition switch.
- Make sure the gearshift lever is in N position.
- Turn the mechanical key to switch the ignition switch to “START” position to start the engine, and then release the mechanical key.

Vehicle models with an ENGINE START/STOP button

- Enter the vehicle with the intelligent remote control key.
- Make sure the gearshift lever is in N position.
- Depress the brake pedal and ensure that the ENGINE START/STOP button indicator lamp turns green.
- Press the ENGINE START/STOP button to start the engine.

i NOTE

To ensure safety, it is recommended to depress the clutch pedal and brake pedal at the same time when starting the engine of an MT model.

Vehicle models with an automatic transmission

Vehicle models with an ignition switch

- Insert the mechanical key in the ignition switch.
- Make sure the gearshift lever is in “P” or “N” position.
- Depress the brake pedal.
- Turn the mechanical key to switch the ignition switch to “START” position to start the engine, and then release the mechanical key.

Vehicle models with an ENGINE START/STOP button

- Enter the vehicle with the intelligent remote control key.
- Make sure the gearshift lever is in “P” or “N” position.
- Depress the brake pedal and ensure that the ENGINE START/STOP button indicator lamp turns green.
- Press the ENGINE START/STOP button to start the engine.

i NOTE

- In case of a cold start, run the engine at idle speed to warm up it before driving. At the same time, the valve tappet takes a few seconds to reach the normal working pressure and operation noise will occur, which is normal.
- If there is a brake signal failure during the engine start, first set the ENGINE START STOP button to “ACC” position and then hold it for 15 s so as to start the engine. During the start, the transmission gearshift lever must be in “P” or “N” position.

CAUTION

- The engine start time shall not exceed 15s. If the engine is not started successfully, you must wait about 30s before next attempt.
- Do not depress the accelerator pedal hard to make the engine run at high speed or overload after starting. Otherwise, the engine is likely to be damaged.
- If the battery level is low and the engine cannot be started, try to start it by a jumper cable. => [See page 245](#)
- It is prohibited to start the engine by pushing or towing the vehicle.

WARNING

- **Do not keep starting the engine for a long time in a poorly ventilated place or an enclosed place. The engine exhaust contains harmful gases which can make people comatose and even suffocate.**
- **Never let the engine idle unattended.**
- **Do not add a starting aid for starting the engine, as it is likely to make the engine run at high speed or cause an explosion.**

5.1.3 Engine shutdown

Vehicle models with a manual transmission

- Park the vehicle steadily and apply the parking brake.
- Set the gearshift lever to the N position.
- Turn the mechanical key to switch the ignition switch to the "LOCK" position to shut down the engine. (This step is applicable to models with a conventional ignition switch.)
- Press the ENGINE START/STOP button to shut down the engine. (This step is applicable to models with an ENGINE START/STOP button.)

Vehicle models with an automatic transmission

- Park the vehicle steadily and apply the parking brake.
- Set the gearshift lever to the "P" position.
- Turn the mechanical key to switch the ignition switch to the "LOCK" position to shut down the engine. (This step is applicable to models with a conventional ignition switch.)
- Press the ENGINE START/STOP button to shut down the engine. (This step is applicable to models with an ENGINE START/STOP button.)

5. Driving guide

NOTE

After the engine is shut down, the radiator fan may still run for a while.

Emergency shutdown*

When the vehicle is running, press and hold the ENGINE START/STOP button or press it three times to switch it from “ON” to “ACC” position for emergency shutdown of the engine. The engine can be started again in a few seconds after emergency shutdown.

When the vehicle is running, if the engine is shut down automatically or after emergency shutdown is conducted, just set the transmission gearshift lever to “N” position and press the ENGINE START/STOP button again to restart the engine.



WARNING

Emergency shutdown is forbidden during normal driving, as it is likely to lead to vehicle damage, safety and power steering failure, and traffic accidents.

Precautions for parking

When parking, set the gearshift lever to “P” or “N” position, and pay attention to the following:

- Pay attention to the direction the vehicle is parked, for fear of damage to the green belt with the exhaust spraying on the plants.
- Try to park on a flat and straight road instead of a steep slope.
- When parking on a slope, regardless of whether the vehicle is facing the top or bottom of the slope, the front wheels should be turned towards the curb.
- Apply the parking brake, shut down the engine, and turn off all lamps and electrical consumers.
- When leaving the vehicle, be sure to take away your valuables and the key, and check that the sunroof, windows, doors and liftgate are closed and locked.

- Check the engine immobilizer system indicator lamp  on the instrument cluster to confirm that the anti-theft system has been activated.

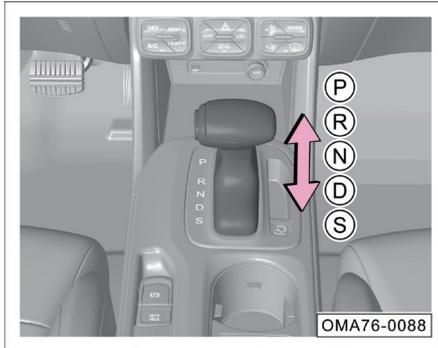


WARNING

- **When leaving the vehicle, be sure to shut down the engine, apply the parking brake and take away the key.**
- **Do not leave any person in the vehicle. Otherwise, suffocation, coma and even death can easily occur in the closed space.**
- **Do not park near flammable and explosive materials.**

5.1.4 Gear description

Vehicle models with an automatic transmission*



There are “P, R, N, D and S” positions. When the ignition switch is in “ON” position and the gearshift lever is set to a position, the instrument cluster will display the corresponding position.

WARNING

The “R” or “P” gear can be engaged only when the vehicle is completely stationary, otherwise the transmission will be damaged.

P: Parking

- When the vehicle is stationary, press the unlocking button in the front of the gearshift lever to set the gearshift lever to “P” position.
- Depress the brake pedal and press the unlocking button in the front of the gearshift lever to set the gearshift lever to “P” position.

R: Reverse

- When the vehicle is stationary, depress the brake pedal, and press the unlocking button in the front of the gearshift lever to set the gearshift lever to “R” position.
- Release the brake pedal and slowly depress the accelerator pedal to reverse the vehicle.

N: Neutral

- Set the gearshift lever directly from “R” or “D” position to “N” position.
- Depress the brake pedal when setting the gearshift lever out of “N” position.

WARNING

Do not make the vehicle coast with the gearshift lever in “N” position. Otherwise, it is likely to cause an accident.

D: Drive

The gearshift lever is usually set to this position when the vehicle is running forward.

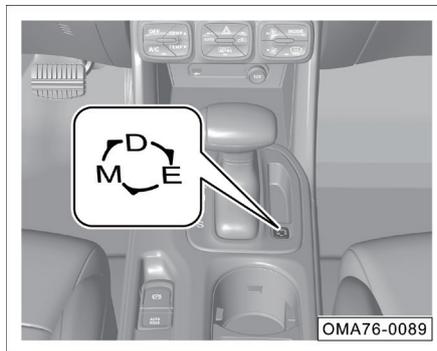
- Set the gearshift lever directly from “N” to “D”. With the gearshift lever in this position, the system will automatically upshift or downshift according to the engine load and vehicle speed.

5. Driving guide

S: Sport

The “S” position is for sport mode. When the gearshift lever is set to this position, the transmission will shift into a lower gear according to the changes in resistance (e.g., traction, climbing a long slope, etc.), and the engine will run at a higher speed to provide more power. The “S” position is mainly intended for driving with high power and also for hill driving, which can avoid frequent gear shifting.

Driving mode



When the ignition switch is set to the “ON” position, press the driving mode button to switch between “D→E→M” modes.

“D” drive mode

In general, the transmission is in “D” mode by default.

“E” ECO mode

When the vehicle enters this mode, both the transmission control unit and the A/C system will adopt the economy strategy.

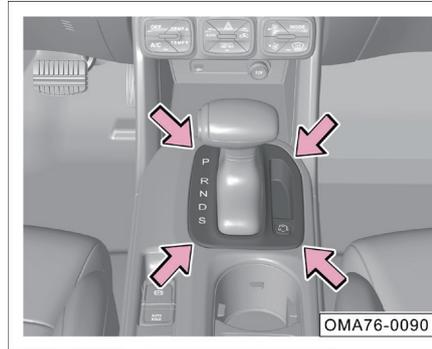
i NOTE

- When the ECO mode is activated, the “ECO” indicator lamp on the instrument cluster comes on.
- ECO mode can be entered when the gearshift lever is in “P”, “R”, “N” or “D” positions, but only can be activated in “D” position.
- In the ECO mode, if the gearshift lever is set to the “S” position and later out of this position, the vehicle will return to the ECO mode.
- All modes other than “M” have the memory function, so that when the engine is shut down and restarted, the transmission will still work in the previous mode.

“M” manual mode

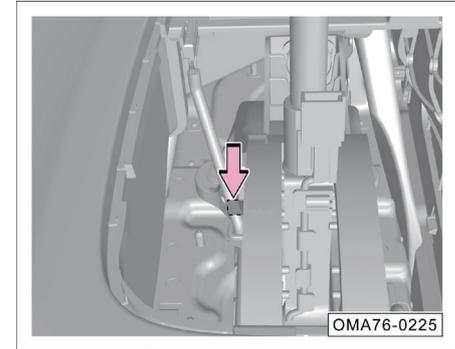
“M” mode is the driving mode with manual transmission. When the transmission is in this mode, the driver can upshift/downshift by pressing the “+/-” button on the side of the gearshift lever according to road conditions and driving style to enjoy driving pleasure.

Release the seized gearshift lever



If the gearshift lever is seized and cannot be set out of “P” position normally, the gearshift lever must be released.

- Turn off the ignition switch.
- Use a suitable tool to carefully pry up the gearshift lever cover as arrowed.



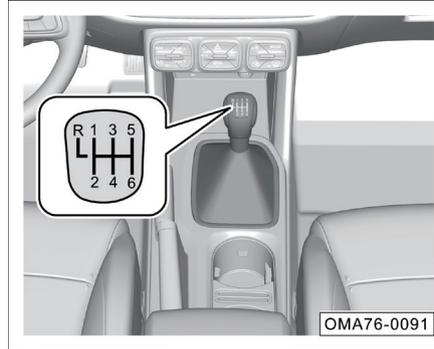
- Press the locking switch on the left side of the gearshift mechanism to unlock ①, and at the same time, press the unlocking button in the front of the gearshift lever, and then set the gearshift lever from “P” to “N”.
- Install the gearshift lever cover.
- Depress the brake pedal, start the engine, and check whether the gearshift lever can be set to other positions normally.

5. Driving guide

CAUTION

If the gearshift lever is seized and cannot be set out of "P" position normally, it can be released by this method. If this fault occurs, there may be some problems with the vehicle. Please contact the GAC Motor authorized shop for inspection.

Vehicle models with a manual transmission



Vehicle models with a manual transmission have the following positions: "R, 1, 2, 3, 4, 5 and 6".

- During gear shifting, depress the clutch pedal to the floor and set the gearshift lever to "1, 2, 3, 4, 5 or 6" position.

Set to R position

- When the vehicle is stationary, depress the clutch pedal to the floor and press the gearshift lever down to set it to "R" position.

NOTE

- When the gearshift lever is set to "R", make sure that the vehicle is stationary and the engine speed is not high, otherwise the transmission may be damaged.
- Set the gearshift lever gently rather than forcibly.
- Do not start the engine with high gears.
- Do not put your hand on the gearshift lever while the vehicle is running, for fear of early wear of the shift fork.

5.2 Braking system

5.2.1 Service brake

Under certain driving and weather conditions, squeaks, screams, or other noises may be heard from brakes when the brake pedal is depressed for the first time or lightly stepped on, or braking noise during light or moderate braking, especially for new vehicles (as their brakes have not undergone running-in), which is normal, and does not constitute a failure symptom of braking system nor has effects on the braking safety and performance.

CAUTION

- If there is metal friction rasp, the brake lining may be worn to the limit. Please go to the GAC Motor authorized shop for inspection as soon as possible.
- If the steering wheel vibrates or twitches continuously during braking, go to the GAC Motor authorized shop for inspection as soon as possible.

NOTE

- Do not rest your foot on the brake pedal during driving, otherwise the brakes will heat up to an abnormally high temperature, and the brake linings and brake pads will wear excessively, increasing the braking distance.
- When driving down a long slope or a steep slope, downshift to a low gear (in manual mode or for a vehicle with MT) to avoid continuous application of brakes, so as to make full use of engine braking and reduce brake load.
- Continuous application of brakes will cause brake overheat and result in a temporary loss of braking performance.

NOTE

- Under normal driving conditions, brake linings will wear, and dust will accumulate on wheels, which is inevitable but yet has no effect on the braking performance.
- If rust and corrosion exist because the brake linings and brake discs are not used or used rarely, noise may be heard from brakes for the first use. This is normal. It is recommended to choose a safe area and good road conditions and brake the vehicle several times to clean the brake linings and brake discs.

5. Driving guide

Brake booster

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

If the brake booster does not work properly due to a fault, or when the vehicle is towed, the force on the brake pedal must be increased to compensate for the assist power loss of the brake booster.

WARNING

- **Never make the vehicle coast with the engine shut down, because at this moment, the brake booster does not work, the braking distance will be greatly increased, and an accident is likely to be caused.**

Braking effect and braking distance

The braking effect and braking distance mainly depend on the driving environment, road conditions and driving style,

With worn brake linings, the vehicle cannot be braked effectively. The wear rate of brake linings mainly depends on the vehicle operation conditions and driving style. If the vehicle often runs in urban areas or for short distances, it is recommended to check the brake lining thickness more frequently based on the maintenance cycle specified in the *Warranty Manual*.

After wading, heavy rain or vehicle washing, brake linings may get wet or icy (in winter), resulting in a reduction in braking effects. In this case, the brake pedal must be lightly depressed to heat the brake by friction and evaporate the moisture to restore braking effects.

WARNING

A new tire and brake lining having not undergone running-in do not have the best adhesion and friction characteristics.

- **New tires do not yet have the best adhesion, so please drive carefully for the first 500km to avoid accidents!**
- **New brake linings in the first 200km to 300km driving distance do not get the best friction characteristics, and braking effects are not as good as expected, so new brake linings must be subject to running-in. Braking effects can be compensated by increasing the force applied to the brake pedal. New brake linings must also be subject to running-in.**
- **When driving, do not get too close to other vehicles or bring the vehicle to a situation where emergency braking is necessary. Take care especially when driving with a new tire and new brake lining having not undergone running-in, for fear of accidents!**

WARNING

When the brake is wet or icy or when the vehicle is running on a salted road, the braking lag may occur, resulting in a longer braking distance. Therefore, be careful to prevent accidents.

- A longer braking distance or a fault in the braking system will increase the accident rate.
- Lightly depress the brake pedal to check the brake.
- Lightly depress the brake pedal to dry brakes or remove ice or anti-skid salt from brakes.

WARNING

When brakes are overheated, braking effects will reduce, increasing the braking distance!

- Take care to avoid overheating brakes.
- When driving downhill, brakes are likely to be overheated as the brake load increases.
- It is recommended to engage a low gear (in manual mode or for a vehicle with MT) before driving down a long and steep slope to reduce the vehicle speed, and make full use of the engine braking effect to reduce the brake load.
- Do not keep depressing the brake pedal. Otherwise, brakes will overheat and the braking distance will increase. Brake the vehicle intermittently according to road and traffic conditions.

WARNING

- The brake fluid must be changed every two years. If the brake fluid stays in the brake system for a long period, air resistance may occur in the pipeline during braking, reducing the braking effect significantly and impairing driving safety, and even causing failure of the brake system, resulting in an accident thereby!
- If the front spoiler is out of standard or damaged, it will block the cooling airflow to brakes, causing brakes to overheat and degrading the braking effect.

5. Driving guide

5.2.2 Electric park brake (EPB)*

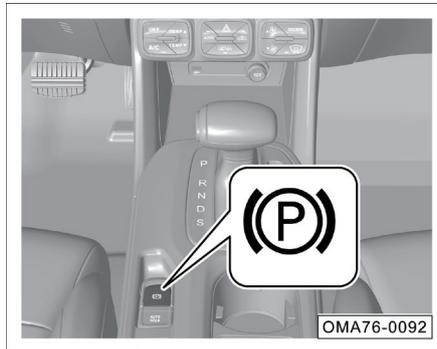
The driver can apply or release the parking brake by operating the EPB button. HSA can be applied for driving on a slope. When the accelerator pedal is depressed with the vehicle parked, the EPB will be automatically released to provide driving assist for the driver.

CAUTION

The EPB will apply a fixed force according to the gradient for braking.

- If the vehicle slides downwards after parking, the EPB will automatically increase the brake force.
- If the vehicle continues to slide after the brake force is automatically increased, please depress the brake pedal and drive the vehicle to a flat road. Contact the GAC Motor authorized shop for inspection in time.

Application of static park brake



- When the vehicle is stationary, pull up the EPB button. The button indicator lamp and the indicator lamp (P) on the instrument cluster will come on, indicating that the EPB has been applied.
- When the gearshift lever is switched to the "P" gear, the EPB will be applied automatically.
- When the vehicle is powered off, the EPB will be applied automatically

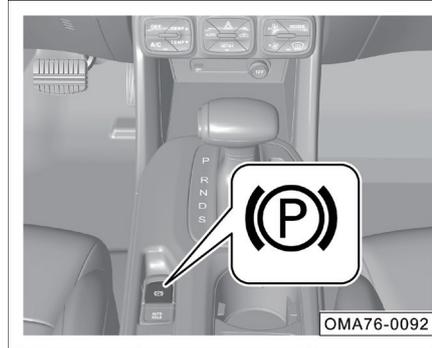
NOTE

- The EPB can also be applied when the ENGINE START/STOP button is in the "OFF" position.
- After the vehicle is parked steadily, the EPB should be applied first.
- When the EPB is working, operating noise can be heard, which is normal.
- If the vehicle is coupled with a trailer or is to be parked on a steep slope, it is recommended to pull up the EPB button again after the first application of EPB to ensure the maximum braking effect.
- On a slope with a gradient of 17% to 30%, in 5 minutes after the EPB is applied for the first time, it will be applied again. At this time, operating noise can be heard, which is normal.

WARNING

- Be sure to apply the EPB during parking.
- When the vehicle is running, do not apply the EPB for speed reduction unless necessary, as the EPB only applies braking force to rear wheels, which is likely to cause traffic accidents.

Release static park brake



- When the ENGINE START/STOP button is in the "ON" position, depress the brake pedal.
- Press the EPB button. The button indicator lamp and the indicator lamp (P) on the instrument cluster will go out, indicating that the EPB has been released.

NOTE

- If the EPB button is pressed without depressing the brake pedal, the EPB will not be released, and the instrument cluster will give a visible warning tell-tale together with an audible beep alarm.
- When the EPB is being released, operation noise will occur, which is normal.
- When the battery is low, the system cannot release the EPB. If conditions permit, you can connect a jumper cable for emergency start => [See page 245](#), and then release the EPB. Contact the GAC Motor authorized shop for inspection.
- If the EPB has not been used for a long time, the system will perform automatic test, and operation noise will be heard at this time.

5. Driving guide

Application of dynamic emergency brake



- If the service brake fails while the vehicle is running, you can try to continuously pull up the EPB button for emergency braking. To exit the emergency braking, release the EPB button or depress the accelerator pedal.

CAUTION

In the following cases, operate the EPB button again. If the fault is not eliminated, please contact the GAC Motor authorized shop for inspection.

- If the indicator lamp  flashes red continuously, it indicates that the EPB is partially engaged/disengaged or the system is malfunctioning.
- If the indicator lamp  comes on in red when EPB is not applied, it indicates that the system is abnormal.
- If the indicator lamp  comes on in yellow, it indicates that a fault is detected in EPB and the EPB is degraded.

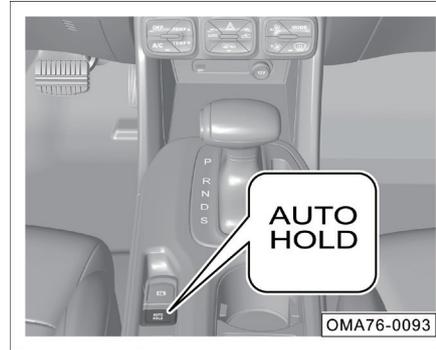
CAUTION

- Do not use dynamic emergency braking unless necessary, as it is likely to cause traffic accidents. Moreover, the braking distance is longer than braking by depressing the brake pedal, and the service life of the parking brake system will be shortened.
- If you pull up the EPB button when the vehicle is running, the instrument cluster display will give a visible warning tell-tale together with an audible beep alarm.
- If you release the EPB or depress the accelerator pedal during dynamic emergency braking, the EPB will be released. If the EPB button is pulled up until the vehicle stops, the EPB will remain engaged.

AUTO HOLD

AUTO HOLD can keep the vehicle still automatically based on the driver's braking needs; when the system detects the driver's intention of starting off (such as depressing the accelerator pedal), it will automatically release the brake; AUTO HOLD can ensure the ease of starting off when the brake is released automatically according to the information on the slope; AUTO HOLD can make the vehicle still by active pressurization when the brake force is insufficient.

On and Off



- When the engine is started, the driver's door is closed and the driver's seat belt is fastened, press the AUTO HOLD button. Then, the button indicator lamp comes on, and the AUTO HOLD is enabled. Press this button again. The button indicator lamp goes out, and the AUTO HOLD is disabled.

Activation

When this function is enabled, it supports automatic brake application and release under stop & go conditions. When the driver brakes the vehicle, the vehicle will be automatically parked to avoid slide at startup.

Exit

Under the following conditions, AUTO HOLD will be disabled and the parking brake will not be locked:

1. The accelerator pedal is depressed at startup.
2. The engine stops while the vehicle is running.
3. The EPB is manually released.
4. The AUTO HOLD button is pressed when the brake pedal is depressed.

5. Driving guide

For the sake of safety, the AUTO HOLD will be disabled and the parking brake will be locked under the following conditions:

1. The engine is shut down.
2. The driver's door is opened or the seat belt is unfastened when the vehicle is stopped.
3. The AUTO HOLD button is pressed to disable AUTO HOLD.

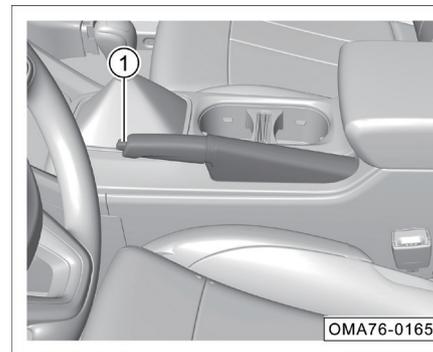
CAUTION

When driving into a mechanism such as a vehicle washing device that transports the vehicle with a conveyor belt, be sure to disable the AUTO HOLD, otherwise the vehicle cannot move or may run off the path.

EPB self-learning

In some cases (for example, upon sudden battery failure or after long-term stop), the indicator lamp (P) will flash in red, and EPB will not work when the EPB button is pulled up manually. At this time, please depress the brake pedal, press and then pull up the EPB button, so that EPB button indicator lamp does not flash and EPB can complete self-learning to restore its normal operation.

5.2.3 Mechanical parking brake system*



Apply parking brake

- When the mechanical parking brake is released, directly pull up the mechanical parking brake lever to the limit to apply the mechanical parking brake.

Release parking brake

- Pull up the mechanical parking brake lever slightly, then press the button ① in the front of the mechanical parking brake lever, and press down the lever to the limit to release the mechanical parking brake.

**WARNING**

After the vehicle is parked steady, the mechanical parking brake shall be applied.

- When the ignition switch is set to the “ON” position, the corresponding indicator lamp (Ⓢ) will come on if the mechanical parking brake is applied, and the indicator lamp (Ⓢ) will go out if the brake is released.
- When the vehicle is running, do not apply the mechanical parking brake to reduce the vehicle speed, as this brake only applies braking force to rear wheels, which is likely to cause traffic accidents.
- Do not drive the vehicle when the parking brake is not completely released! Otherwise, rear wheel brakes will overheat, reducing braking efficiency, and rear wheel brake linings will be worn prematurely.

5.3 Electronic service brake system

5.3.1 Anti-lock braking system (ABS)

When the driver brakes, ABS automatically monitors the slip rate of the front and rear wheels, and when the wheels are to be locked, adjusts the wheel cylinder hydraulic pressure through pressure holding, depressurization, and pressurization to keep the wheel slip rate within the specified range, thereby preventing the wheels from being locked.

When the ABS starts working after the driver depresses the brake pedal in an emergency, the driver will feel the brake pedal shuddering, accompanied by the “click” sounds when the master cylinder is running. It is normal that shuddering is felt when the ABS works after the brake pedal is depressed in the following situations:

- Gear shifting.
- Emergency braking.
- Sharp turns at high speed.
- Driving on a wet and slippery road.
- Passing over bumps or ditches.
- Driving off immediately after the engine is started.

Anti-lock braking system (ABS) indicator lamp

After the ignition switch is set to “ON” position, the indicator lamp (Ⓢ) will be on for a few seconds and go out after the system completes self-test.

If the following conditions occur, it indicates that the system is faulty:

- After the ignition switch is set to “ON” position, the indicator lamp (Ⓢ) does not come on.
- After the ignition switch is set to “ON” position, the indicator lamp (Ⓢ) does not go out after it is on for a few seconds.
- The indicator lamp (Ⓢ) comes on when the vehicle is running.
- When there is a fault in the ABS, the indicator lamps (Ⓢ), (Ⓢ) and (Ⓢ) come on.

5. Driving guide

Electronic brake force distribution (EBD)

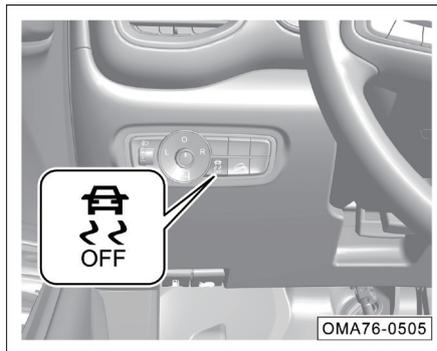
As a part of ABS, the electronic brake force distribution (EBD) balances the distribution of braking force on the front and rear wheels according to the vehicle load during normal braking.

The EBD applies greater braking force to the rear wheels by adjusting the slip rate to obtain the shortest braking distance while maintaining the braking stability. This improves the stability and operability of the vehicle during braking, especially when it runs on poor or slippery roads.

5.3.2 Electronic stability program (ESP)

ESP can effectively reduce the risk of sideslip.

On and Off



ESP is on by default when the vehicle is running. If the button  is pressed, the ESP will be deactivated, and the indicator lamp  on the instrument cluster will come on and an alarm message will be displayed.

i NOTE

- When the vehicle speed is greater than 80 km/h, the ESP will be activated automatically.
- When the vehicle speed is less than 80km/h, the ESP, if inactive, can be activated by pressing the button .
- If the button  is pressed and held for more than 10 s, the system will identify it as a wrong operation, and the working state of the system will not be affected.

ESP indicator lamp

- After the ignition switch is set to “ON” position, the indicator lamps  and  will be on for a few seconds and go out after the system completes self-test.
- If ESP works during driving, the indicator lamp  will flash.
- After ESP is turned off, the indicator lamp  will come on.
- When ESP is faulty, the indicator lamp  will come on.

If the indicator lamp  comes on after the engine is started, it indicates that ESP has been disabled, and the instrument cluster display shows an alarm message. To enable the ESP, please turn off and then turn on the ignition switch.

When the indicator lamp  goes out, it indicates that the system has started working.

If the battery connector is disconnected from and then connected to the cable, the indicator lamp  may come on when the ignition switch is turned on, and then goes out after a short driving distance.

For driving safety, it is recommended to enable ESP. The ESP can be disabled in the following special cases:

- When the vehicle runs with tire chains.
- When the vehicle runs on roads covered with deep snow or on soft grounds.
- When the vehicle is trapped on muddy roads, etc., and you need to move it back and forth.

Traction control system (TCS)

As a subsystem of ESP, TCS determines if the driving wheel slips based on the speed of the driving wheel and the drive wheel, and if the speed of driving wheel is higher than that of drive wheel, it will limit the speed of the driving wheel to prevent vehicle slip.

When ESP is turned off or on, TCS will be turned off or on accordingly.

5.3.3 Hill hold control (HHC)

HHC allows the driver to move the foot from the brake pedal to the accelerator pedal when driving off on a slope without application of the parking brake, so as to prevent accidents resulted from sliding.

Activation conditions of HHC

- On a slope with a gradient greater than 4%, if the vehicle is stopped by depressing the brake pedal with transmission in “P” or “N” position and the EPB not applied, HHC will be activated when the driver releases the brake pedal to apply brake pressure to the vehicle for 1 s.
- If the engine torque rises above the drag torque of the vehicle when HHC is working, the brake pressure will be released to allow you to drive off successfully.
- During driving downhill with transmission in “R” position, the HHC will also work.

5. Driving guide

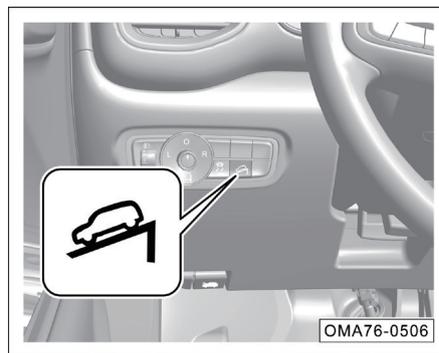
i NOTE

- When you drive off on a steep slope or drive downhill with transmission in “R” position, HHC will automatically apply brake to prevent vehicle from sliding.
- HHC is integrated in the ESP. If HHC fails, the ESP indicator lamp will come on, and a graphic prompt message will be displayed on the instrument cluster display.

5.3.4 Hill descent control (HDC)

HDC is a subsystem of ESP. If the driver does not depress the brake pedal while going downhill, HDC will help the driver to decelerate via the ESP actively applying braking force.

On and Off



- When the vehicle speed is lower than 35 km/h, press the  button to activate the HDC, and then the indicator lamp  comes on. The brake lamp comes on after the HDC is activated.

- Press the  button again to deactivate the HDC, and then the indicator lamp  goes out.

After the HDC is activated, if the driver does not depress the brake pedal while going downhill, the vehicle keeps running at the speed of at least 8 km/h.

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

- If the vehicle speed is 8~35 km/h when the pedal is released, HDC is activated again to keep the vehicle going downhill at the current speed.
- When the vehicle speed is higher than 60 km/h, HDC is automatically deactivated.
- When the HDC is active, ESP automatically intervenes in driving if the wheels slip excessively.

i NOTE

- When the HDC has a fault, the function is deactivated and an alarm message is displayed on the instrument cluster display with an audible alarm lasting for about 5 s. In this case, HDC cannot work properly, and the driver should depress the brake pedal to decelerate on a steep slope, and should go to the GAC Motor authorized shop for inspection as soon as possible.
- In some special environments, the HDC enters the thermal protection mode due to too high braking temperature. For example, when the system operates at a high ambient temperature for a long time, the temperature of the brake system constantly increases due to friction. When the upper limit of temperature is reached, the HDC enters the thermal protection mode (i.e., the HDC function is active but inoperative), and the vehicle shows signs of acceleration. When the temperature of the brake system drops to an effective operating temperature, the HDC resumes its function.

5.4 Driver assistance systems

5.4.1 Cruise control*

The cruise control allows the vehicle to run without depressing the accelerator pedal at the set vehicle speed of 40~120 km/h.

⚠ WARNING

- **When driving on high-traffic roads, slopes, multi-curve roads or wet and slippery roads, do not use the cruise control for fear of accidents.**
- **The cruise control shall be used with caution. After setting the vehicle speed, ensure that the vehicle maintains a safety distance from the lead vehicle.**

Control buttons



 : activating/deactivating the cruise control

 : deactivating the cruise control

SET/-: activating the cruise control/decelerating

RES/+: resuming the cruise control/accelerating

5. Driving guide

Activating cruise control

- If the  button is pressed, the cruise control will be enabled, and the indicator lamp  on the instrument cluster will come on in white.
- Increase the vehicle speed above 40 km/h.
- If the SET/- button is pressed, the indicator lamp  on the instrument cluster will turn green, and the vehicle will enter the cruise control status. After that, release the accelerator pedal.

Deactivating cruise control

The cruise control can be deactivated as follows:

- Depress the brake pedal.
- Press the button  (after this, the vehicle will keep running at the set speed).
- Press the button  (after this, the set vehicle speed will be cleared).
- Activate the ESP.
- Set the gearshift lever to "N" position.

Resuming cruise control

When the cruise control is deactivated by depressing the brake pedal or pressing the button , the indicator lamp  on the instrument cluster will become white, and the cruise control can be reset by pressing the RES/+ button:

- When the vehicle speed is higher than 40 km/h, if the RES/+ button is pressed, the indicator lamp  on the instrument cluster will turn green from white, and the vehicle speed will return to the value set during the last cruise control.

Increasing cruising speed

- Press the RES/+ button to increase the vehicle speed by 1.6km/h each time.
- Press and hold the RES/+ button to increase the vehicle speed continuously until the button is released.

NOTE

- The maximum setable cruising speed is 120 km/h. When the vehicle speed is higher than 120 km/h, it cannot be adjusted by the RES/+ button.
- When the accelerator pedal is depressed for acceleration, the vehicle will temporarily deactivate the cruise control and run at the increased speed; after the accelerator pedal is released, the vehicle will resume the cruise control.

Decreasing cruising speed

- Press the SET/- button to decrease the vehicle speed by 1.6km/h each time.
- Press and hold the SET/- button to decrease the vehicle speed continuously until the button is released.

NOTE

When the vehicle speed is lower than 40 km/h, it can no longer be adjusted by the SET/- button.

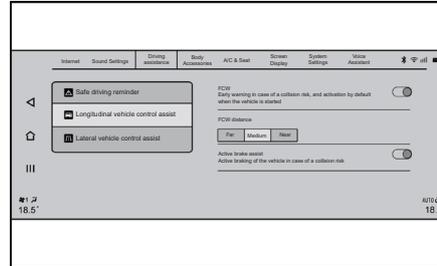
5.4.2 Forward collision warning (FCW) system *

The FCW system assesses the danger level of pre-collision by detecting the relative distance and speed of the vehicle/pedestrian ahead in the same path according to the IFC installed on the windshield and the driver's other operations (such as depressing the brake pedal or accelerator pedal), and timely reminds the driver to take measures to avoid or mitigate the collision in case of a collision risk.

i NOTE

Precautions for use of camera. => [See page 165](#)

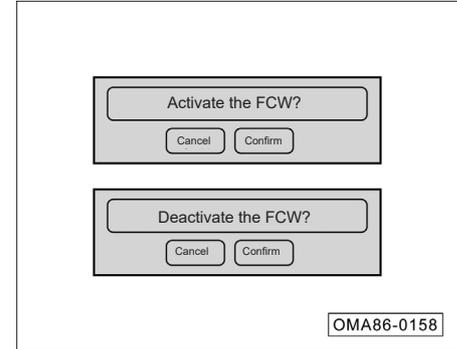
On and Off



When the ENGINE START/STOP button is set to "ON" position, the FCW system will be activated by default. When there is a risk of front collision at the vehicle speed greater than 30 km/h, the instrument cluster will pop up a visual prompt, accompanied by audible alarm.

To activate/deactivate it manually, please operate as follows:

- Click the "System Settings → Driving Assistance → Longitudinal Driving Assistance" in the AV system to activate/deactivate the FCW system.



- When the FCW system is deactivated, a confirmation window will pop up on the AV system display. In this case, click "OK" or "Cancel" to confirm the operation.

i NOTE

The deactivated FCW system will no longer give alarm in face of any target vehicle or pedestrian.

5. Driving guide

How it alerts the driver

The FCW system alerts the driver by the following three methods:

1. Distance warning (vehicle speed > 60km/h)

When the vehicle is following the other vehicle ahead at high speed too closely, the indicator lamp  on the instrument cluster will flash, accompanied by the corresponding visual prompt.

2. Proximity warning (vehicle speed > 30km/h)

When the vehicle is approaching the vehicle/pedestrian ahead with a risk of collision, the indicator lamp  on the instrument cluster will flash, accompanied by the audible alarm and visual prompt.

3. Brake jerk warning (vehicle speed > 45km/h)

When the vehicle has a high risk of collision with a moving vehicle ahead, the brake jerk warning will be triggered to remind the driver to take immediate collision avoidance measures.

i NOTE

- “Far, medium and near” can be set via the “System Settings → Driving Assistance → Longitudinal Driving Assistance → FCW Distance Warning” in the AV system. The FCW is designed with a memory function to save the last set warning distance.
- The FCW alerts can be stopped by depressing the accelerator pedal or turning the steering wheel.
- In a complex driving environment (such as traveling on a curved road), the FCW system may issue an unnecessary warning.

The FCW system may not work properly in the following cases:

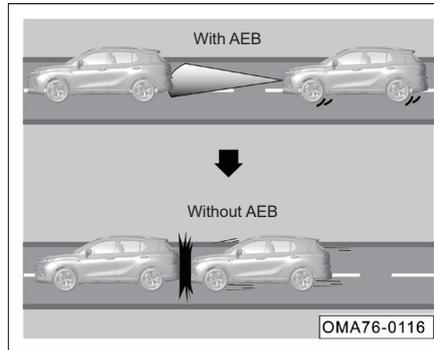
- The vehicle is traveling in an environment with low visibility (such as heavy rain, snow and haze).
- The camera is subjected to direct strong light or the light intensity changes suddenly (such as entering and exiting a tunnel).
- The vehicle is passing through a curve, a ramp or a bumpy road section.
- The windshield in front of the camera is dirty, damaged or covered.
- The vehicle ahead has special modifications or decorations.
- In the dark environment, the tail lamps of the vehicle ahead are not lit or the pedestrian is outside the range of the vehicle lamps.
- The pedestrian is short in height.
- The obstacles ahead are animals or small vehicles (such as bicycles, motorcycles and tricycles).
- The driver depresses the brake pedal.
- The driver depresses the accelerator pedal to the floor.
- The steering wheel angle is large.
- The vehicle is not in “D position.

WARNING

The FCW system is subject to the limitations of laws of physics, and thus shall never be used for risky driving.

- The FCW system is not always effective under all circumstances. The driver must always be ready to control the vehicle.
- When the FCW system gives alert, the driver must apply the brake to reduce the vehicle speed or avoid obstacles according to traffic conditions.
- The FCW system is only a warning system to remind the driver to avoid collisions. It cannot replace the driver in providing the corresponding active brake assistance when the system is triggered, so the driver must always keep control of the vehicle and take full responsibility for the speed of the vehicle and the distance from other vehicles.

5.4.3 Autonomous emergency braking (AEB)*



The AEB assesses the danger level of collision by detecting the relative distance and speed of the vehicle/pedestrian ahead in the same path according to the IFC installed on the windshield and the driver's other operations (such as depressing the brake pedal or accelerator pedal), and applies brake when necessary.

When the AEB detects that a collision is about to occur, it will be activated in the following two cases:

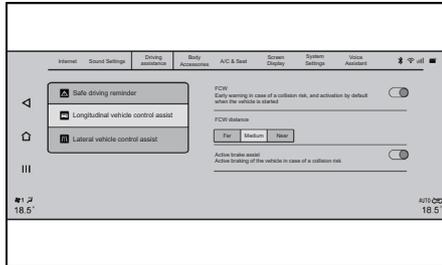
1. The obstacle ahead is the vehicle or pedestrian, and the driver does not depress the brake pedal.
2. The obstacle ahead is the vehicle, and the driver depresses the brake pedal with greater force but still cannot avoid a collision.

NOTE

- Precautions for use of camera. => [See page 165](#)

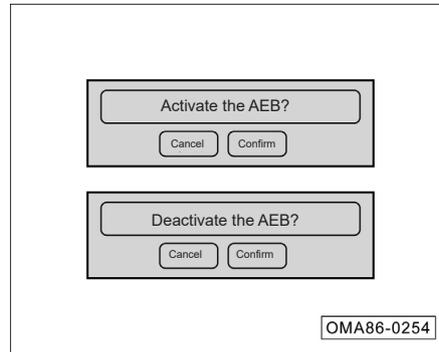
5. Driving guide

On and Off



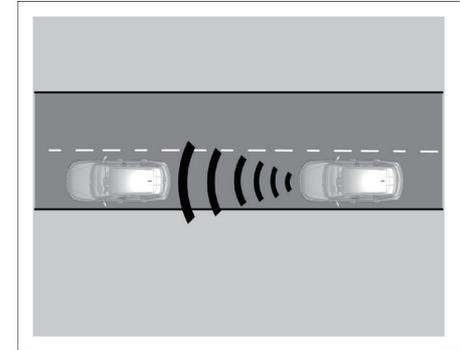
When the ENGINE START/STOP button is set to "ON" position, the AEB will be activated by default. To activate/deactivate it manually, please operate as follows:

- Click the "System Settings → Driving Assistance → Longitudinal Driving Assistance" in the AV system to activate/deactivate the AEB system.

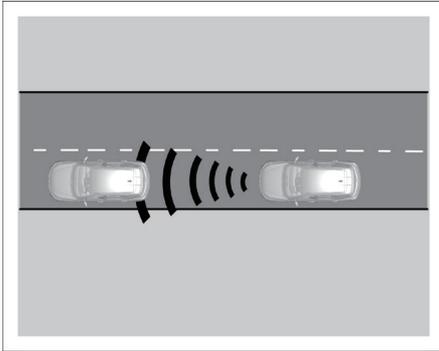


- When the AEB is deactivated, a confirmation window will pop up on the AV system display. In this case, click "OK" or "Cancel" to confirm the operation.

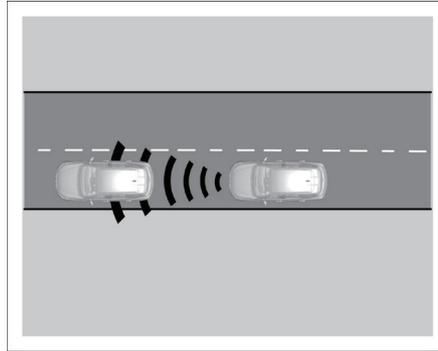
AEB braking level



- First-level braking: Brake jerk warning is provided when your vehicle is approaching a vehicle ahead.



- Second-level braking: Slight automatic emergency braking is applied if your vehicle continues to approach the vehicle ahead after the first-level warning.



- Third-level braking: Full braking is applied automatically when a rear-end collision is inevitable.

The AEB will be deactivated in the following four cases, in which the driver should take over the vehicle:

- The driver depresses the accelerator pedal.
- The driver quickly turns the steering wheel.
- The vehicle speed is reduced to below 40km/h.
- The vehicle decelerates to a standstill for about 2s.

The AEB may not work properly in the following cases:

- The vehicle is traveling in an environment with low visibility (such as heavy rain, snow and haze).
- The camera is subjected to direct strong light or the light intensity changes suddenly (such as entering and exiting a tunnel).
- The vehicle is passing through a curve, a ramp or a bumpy road section.
- The windshield in front of the camera is dirty, damaged or covered.
- The vehicle ahead has special modifications or decorations.
- The chassis of the vehicle ahead is too high or its cargo protrudes from the trunk.
- The pedestrians are short in height or their main features are obscured by holding umbrellas, wearing raincoats, holding ladders, wearing carnival costumes, etc.
- There is an oncoming vehicle.
- In the dark environment, the tail lamps of the vehicle ahead are not lit or the pedestrian is outside the range of the vehicle lamps.
- The obstacles ahead are animals or small vehicles (such as bicycles, motorcycles and tricycles).
- The vehicle speed is lower than 8km/h or higher than 80km/h.

5. Driving guide

- The ESP system is manually deactivated.
- The driver's seat belt is not fastened.
- The vehicle has a large turning angle.
- The vehicle is not in "D" position.

NOTE

- When the AEB is activated, the vehicle will be braked, and the foot may feel hard or vibration from the brake pedal, which is normal.
- In a complex driving environment (such as traveling on a curved road), the AEB may brake the vehicle unnecessarily.
- When the AEB is negatively affected by the environmental factors (for example, electromagnetic interference or the target itself), the detection function will be interfered and the AEB performance will be degraded.

WARNING

The AEB can improve the driving safety, but it is still subject to the limitations of laws of kinematics, and thus shall never be used for risky driving. The driver must always be ready to apply the brake to reduce the vehicle speed or avoid obstacles.

The AEB can only achieve limited braking to mitigate collision injuries, and cannot prevent a vehicle accident or injuries on its own. Therefore, when the AEB is working, the driver is still required to apply braking when necessary.

When the AEB is activated, the driver shall keep controlling the vehicle during driving, and shall take full responsibility for the vehicle speed and the distance to other vehicles.

WARNING

The AEB only has a collision mitigation effect on the vehicles/pedestrians detected by the camera, so there may be no response or a certain delay in the response. Therefore, the driver shall apply the brake as required instead of waiting for the AEB system to operate.

The AEB may not always be able to clearly identify objects and complex traffic conditions. In these cases, the AEB may:

- issue a warning or apply braking when unnecessary.
- fail to issue any warning or apply braking when necessary.

Therefore, the driver shall always observe traffic conditions instead of completely relying on the AEB. As the AEB is only a driver assistance function, the driver shall be fully responsible for keeping a proper distance from the vehicle ahead, controlling the speed and braking in time. The driver must always be ready for braking or steering.

5.4.4 Pedestrian detection system (PDS) *

The PDS will, based on the IFC installed on the windshield, detect pedestrians ahead and actively assist the driver in avoiding or mitigating collisions with pedestrians within its operating range so as to lower the likelihood of accidents. When a collision is about to occur, the PDS will issue an alarm to alert the driver that the vehicle is ready to apply emergency braking, and then will assist in braking and activate the AEB.

NOTE

Precautions for use of camera. => [See page 165](#)

CAUTION

The PDS cannot be substituted for a driver's attention during driving!

Proximity warning

If a potential collision with a pedestrian is detected, the system will alert the driver to actively apply braking through the audible warning and warning lamps on the instrument cluster when the speed is between 30km/h and 64km/h. The duration of warning is contingent on the practical traffic conditions and the driver's action. In addition, the vehicle is ready for applying emergency braking at any time.

The proximity warning function of the PDS is integrated in the FCW system. For its activation/deactivation method, refer to the description of the FCW system. => [See page 153](#)

Active brake assist

If the driver does not respond to the alarm issued by the system, the PDS may automatically apply full braking when the vehicle speed is between 4 km/h and 64 km/h. If a potential collision is detected, the PDS will reduce the speed by braking to lower the likelihood of the collision.

The active brake assist function of the PDS is integrated in the AEB. For its activation/deactivation method, refer to the description of AEB. => [See page 155](#)

The accurate activation of the PDS depends on the accuracy of pedestrian information detected.

CAUTION

The PDS may be unable to detect pedestrians under all conditions, and thus the driver shall be fully responsible for the safety of the vehicle.

5. Driving guide

PDS fault indication

- When the PDS is faulty, the instrument cluster will display a message reading “PDS is not available” to the driver.

NOTE

The PDS is still subject to the limitations of some physical conditions, and it may be unable to play its full within the vehicle speed range specified by the system. Therefore, the driver is required to apply effective braking when necessary. The response of the PDS, including alarm, and braking or avoiding pedestrians with the help of the brake pedal, depends on the practical conditions.

- The PDS may fail to avoid some collisions or serious injuries in some occasions.
- In case of some complex road conditions (such as curved roads), the PDS may response to some targets of similar shape or size with pedestrians and then issue an unnecessary alarm or brake the vehicle unnecessarily.

NOTE

- When the PDS is faulty, for example, due to inaccurate camera sensor angle, there may be unwanted alarms or vehicle braking.
- The driver shall always be ready to take over control of the vehicle when necessary.
- If the PDS is activated to brake the vehicle, the driver will feel hard while depressing the brake pedal.
- When the driver depresses the accelerator pedal or turns the steering wheel, the active brake assist function activated by the PDS will be deactivated.
- If the PDS has the anomalies other than those described above (for example, repeated abnormal activation), please deactivate the PDS and go to the GAC Motor authorized shop for inspection in time.



WARNING

- **Never ignore any suddenly activated warning lamp and reminder displayed on the instrument cluster, otherwise a traffic accident and even serious injuries may occur.**
- **The system may have no time to help the driver in avoiding a collision after issuing an alarm, so the driver shall observe the vehicle status and surrounding environment to ensure driving safety.**

System limitations

PDS is subject to physical and system limitations. For example, in some cases, the PDS may be activated unintentionally or after a certain delay due to intervention by the driver. Therefore, the driver shall stay vigilant and take over control of the vehicle if necessary.

The PDS may be activated unintentionally or after a certain delay when:

- The vehicle is running on a narrow curve.
- The accelerator pedal is depressed to the floor or the vehicle accelerates quickly.
- The assist function is deactivated or operates abnormally.
- The ESP is manually deactivated.
- The ESP control is activated.
- The IFC surface is dirty or blocked by foreign objects.
- The vehicle is reversing.
- Traffic is chaotic.
- The vehicle is towing another vehicle.
- A pedestrian is standing on a refuge island or a curve.

- A pedestrian is completely or partially covered by other objects, for example, a worker holding a ladder, a pedestrian holding an umbrella, etc.
- A pedestrian is wearing fancy clothes, such as the carnival costume.
- External conditions such as sunset, night, ice, snow, heavy rain, fog and backlight lower the visibility.

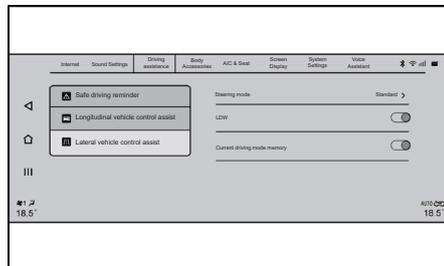
5.4.5 Lane departure warning (LDW) system*

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

The LDW system detects the lane markings on the road through the camera installed on the front windshield, analyzes the driving behavior of the driver and moving status of the vehicle, and issues a warning when the vehicle unconsciously deviates from the lane due to fatigue, distraction or phone calls of the driver. It usually issues a warning when the front wheel crosses a lane marking.

5. Driving guide

On and Off



When the ENGINE START/STOP button is set to the “ON” position, click the “System Settings → Driving Assistance → Lateral Driving Assistance → LDW” in the AV system to activate/deactivate the LDW system.

When the LDW system is activated, the button will be in on state, and the indicator lamp  on the instrument cluster will light up in white; when the LDW system is deactivated, the button will be in off state, and the indicator lamp  on the instrument cluster will go out.

i NOTE

The system has a button state memory function, so that when the vehicle is restarted, the system will work in the state before last shutdown.

How it alerts the driver

When the instrument cluster shows a vehicle speed greater than 65km/h and the system detects at least one valid lane marking on one side, the indicator lamp  on the instrument cluster will turn green, indicating that the system may issue a warning in this case. When only the lane marking on one side is detected, the system will only alert the driver to the side with the lane marking.

When the indicator lamp  turns green, the system may not issue a warning if the vehicle departs from the lane under one of the following conditions.

- The brake pedal is depressed with great force.
- The accelerator pedal is quickly depressed.
- The driver quickly turns the steering wheel.
- The corresponding turn signal lamp is turned on.
- The hazard warning lamp is turned on.
- The vehicle is rolling on or crossing over the lane marking.
- The lane is too narrow.
- The radius of the lane curve is less than 250m.

When the indicator lamp  lights up in green, if no condition mentioned above happens and the vehicle departs from the lane (due to the driver's fatigue, distraction or phone calls, etc.), the system will alert the driver by flashing the lane marking reminder on the instrument cluster and beeping, and the indicator lamp  will turn amber.

Image	Meaning
	Left departure
	Right departure

Function limitations

The LDW, even activated, may involve wrong or failed detection of lane marking due to inevitable environmental factors and conditions. It may become affected or inoperative under the following conditions:

- Poor line of sight, such as snow, rain, fog or water spots.
- Dirty or foggy windshield, or obstruction in front of the windshield camera.
- Overtemperature around the camera due to direct sunlight.
- Glare due to direct sunlight, oncoming traffic, reflected light from road water-logging, etc.
- Sudden changes in outdoor brightness, such as entering/exiting tunnels.
- Headlamp not turned on at night or when the light illumination is low in tunnels.
- No lane marking, or difficulty in distinguishing the lane marking color from the road surface color.
- Fishbone-shaped (FS) markings with speed reduction sign.
- Red lane marking on road due to road maintenance.
- Unobvious, too thin, worn, blurred or dirt/snow-covered lane markings.
- Too wide or narrow lanes.
- Increase or decrease in lanes, or complicated routing of lane markings.
- More than two lane markings on the left and right sides of the vehicle.
- Marks or objects similar to lane markings on roads.
- Isolation strips or other objects casting shadows on lane markings.
- Short-term change of marking, such as ramp or highway exit.
- Driving on steep slopes or curved roads.
- Close distance from the vehicle ahead or lane markings blocked by the vehicle ahead.
- Severe shaking of the vehicle.

5. Driving guide

WARNING

- The LDW is only a driver assist system and cannot actively control your vehicle for lane changing or lane keeping. Therefore, the driver must always hold the steering wheel, check the road conditions and actively control the vehicle.
- The LDW system is not always able to identify the lane markings, for example, missing detection of lane marking due to adverse weather, poor night lighting, water logging and snow on road surfaces, damage and blurs of lane markings, etc, or mistaking of specific objects and structure as lane markings due to road surface damage, water logging and snow on curb, other road structure and road surfaces, shadows cast on road surfaces, etc. If this occurs, missing and false activation of warning may occur, so drivers shall concentrate on observing road and traffic conditions and drive carefully.

WARNING

- Do not place reflective objects on the instrument panel, which may not only cause dazzling to the driver but also reflect the light to the IFC, causing abnormal operation.
- Protect the camera against strong impact, moisture or heat; and never remove and refit any part without authorization.
- Do not color or coat the front windshield with any material not meeting the corresponding specifications. Any additional objects that negatively affecting the sight of the system camera may lead to improper operation of the system.
- If the camera fails to detect the lane marking or judges that the driver deliberately deviates from the lane (for example, detects fast turning of the steering wheel), or the vehicle speed is less than 65km/h, the LDW will not issue a warning even if the vehicle deviates or departures from the lane.

WARNING

- The sound inside or the noise outside may prevent you from hearing the warning beep, so you may not notice the warning issued from the LDW system under any circumstances.
- Cracks, scratches, or damage by gravel on the windshield in front of the camera view may make the LDW system deteriorated, unserviceable, or abnormal. In this case, it is recommended to replace the front windshield. Please contact a GAC Motor authorized shop to ensure that a correct front windshield is installed.
- When detecting an unintentional lane departure, the LDW system will issue a warning. Neither panic nor turn the steering wheel fiercely.

5.4.6 Intelligent front camera (IFC)*

IFC

An IFC is installed above the front windshield to detect the vehicles and pedestrians ahead on the road. It can identify an object up to 80m away from the vehicle (in case of the environmental factors such as lighting is ideal), and a pedestrian being the minimum height of 0.8m.

The IFC must be calibrated under the following conditions:

- The front windshield or the camera bracket has been removed or replaced.
- The IFC sensor has been removed and replaced.

NOTE

- Special tools are required to be used for calibration of the IFC. If the camera needs calibration, please go to the GAC Motor authorized shop for calibration.
- When the IFC sensor is faulty, maladjusted or blocked, the functions such as LDW, FCW, AEB and PDS may be affected and will not work properly.

CAUTION

Poor lighting conditions, night, backlight or heavy rain may pose effect on the IFC, leading to interruption/performance degrade and even disabling of FCW, AEB, LDW and PDS, and in this case, the instrument cluster will display alarm messages such as "Check FCW", "Check AEB", "Check PDS" and "Check LDW".

5. Driving guide

CAUTION

- Objects such as dust, sediment, mist, ice, snow, or sludge on the windshield glass may block the view of the IFC, and if this occurs, the systems such as FCW, AEB, LDW and PDS may be disabled. In this case, please wipe the area around the IFC on the front windshield or activate the A/C defrost/defog function, and thereafter these systems will return to be normal.
- The IFC cannot recognize obstacles or short pedestrians other than the vehicles and normal pedestrians.
- Before driving the vehicle, please check whether there is any obstacle in the area around the IFC.
- Keep the view of the IFC clear.

5.4.7 Tire pressure monitoring system (TPMS)

The TPMS monitors pressure and temperature of the tire, and displays them on the instrument cluster. In case of tire anomalies such as low/high pressure, rapid air leakage and high temperature, the instrument cluster will display an alarm message accordingly.

With the ignition switch in the "ON" position, if the vehicle has not been used for more than seven days or the battery has been disconnected, the tire pressure and temperature will be displayed as "---" on the instrument cluster, and after the vehicle speed reaches above 25km/h, the real-time tire pressure and temperature will be displayed on the instrument cluster.

- If the tire pressure is higher than 330Kpa, the TPMS indicator lamp will come on, and the alarm message reading high tire pressure will be displayed on the instrument cluster.
- If the tire pressure is lower than 75% of the normal set value, the TPMS indicator lamp will come on and the alarm message reading low tire pressure will be displayed on the instrument cluster.

- If the tire pressure continuously decreases at a rate higher than the specification, the TPMS indicator lamp will come on, and the alarm message reading tire leakage will be displayed on the instrument cluster.
- If the tire temperature is higher than 85°C, the TPMS indicator lamp will come on, and the alarm message reading high tire temperature will be displayed on the instrument cluster.

CAUTION

- Some electronic add-ons may make the TPMS unable to operate normally.
- After replacing the tire pressure sensor or rotating the tires, you do not need to go to the GAC Motor authorized shop for re-learning and calibration, provided that the tire pressure sensor is correctly installed for the model, because the TPMS can automatically complete the learning and calibration in the next few driving cycles.

5.5 Parking assist system (PAS)

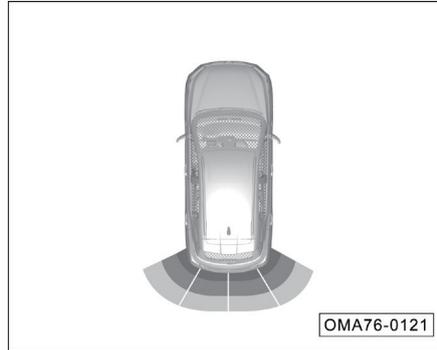
5.5.1 Reversing parking aid (RPA)

The RPA uses the RPA sensors to send and receive the ultrasonic waves reflected by the obstacle to measure the distance between the vehicle and the obstacle.

On and Off

Release the EPB and move the gearshift lever to "R" position, and then the RPA starts to operate if the vehicle is reversing at 10km/h below, and stops operating if the vehicle speed is higher than 12km/h; move the gearshift lever out of "R" position and apply the EPB, in this way, the RPA also stops operating.

Dynamic view



The dynamic view on the display shows the distance between the front/rear of the vehicle and the obstacle. As shown in the figure, the outermost sector of the vehicle is in yellow, followed by sectors in orange and red in sequence. According to the distance signal of the RPA sensor, the corresponding sector is displayed while other sectors are not displayed.

Change of dynamic view is synchronized with that of the distance audible alarm.

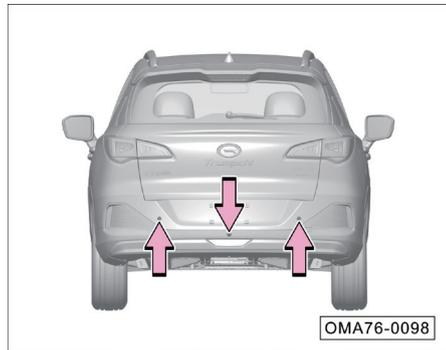
Distance audible alarm

The audible alarm changes with reference to the distance between a detected obstacle and the rear bumper, and meanwhile, the color of activated sectors shown on the display changes accordingly:

Distance to detected obstacle			Audible alarm level message
Rear left sensor	Rear middle sensor	Rear right sensor	
120~90cm	150~90cm	120~90cm	Level 1
90~60cm	90~60cm	90~60cm	Level 2
60~30cm	60~30cm	60~30cm	Level 3
< 30cm	< 30cm	< 30cm	Level 4

5. Driving guide

Distribution of RPA sensors



The RPA sensors are installed on the rear bumper cover.

CAUTION

- Always keep the surface of the RPA sensors clean and never cover a RPA sensor.
- Keep the RPA sensors clean and protect them from freezing to ensure they operate properly.
- Clean the RPA sensor surface with a piece of soft damp cloth to avoid scratching.

WARNING

- The RPA cannot take the place of the driver's observation of the surrounding environment. The driver shall be concentrated and reverse safely according to the actual conditions.
- The RPA sensors have blind spots while they are detecting obstacles. During reversing, the driver shall observe the surrounding environment carefully to avoid scratches or collisions.
- When the vehicle is reversing at a narrow place or on an uphill slope, the RPA sensors may not detect railings, trees or slope surfaces, which is normal.
- When the reversing speed is high, the detection accuracy of the RPA sensor reduces. Thus the reversing speed had better not to exceed 10km/h. When the RPA sends the continuous audible alarms, it indicates that the vehicle is extremely close to the detected obstacle, and reversing shall be stopped immediately to prevent an accident.

WARNING

- When a high-pressure cleaner is used, clean the RPA sensors in snatches gently, with the nozzle at least 30cm away from the sensor.
- If water drops are on the surface of the RPA sensors on the rear bumper, the sensitivity of the sensors will reduce. Wiping off them can restore the sensitivity of the sensors.
- The surface of some materials cannot reflect the signal from the RPA sensors, so that the RPA sensors cannot detect such materials or people wearing the clothing made of such materials.
- Noise sources outside the vehicle may interfere with the RPA sensors, preventing them from detecting any object.
- The RPA sensor is a precision component, which shall not be removed, refitted and repaired without authorization. Otherwise, GAC will not assume any responsibility for the damage arising therefrom.

5.5.2 Reverse image system *

The reverse image system can cover the video at a wide angle up to 130° and display a wide-range image behind the vehicle on the AV system display to allow the driver to know various complex road conditions behind the vehicle and improve the safety of reversing.

On and Off

With ignition switch set in “ON”, the reverse image system will automatically start working if the gearshift lever is moved to the “R” position. In this case, the AV system display will begin to show the image behind the vehicle and display the dynamic trajectory in the reverse image.

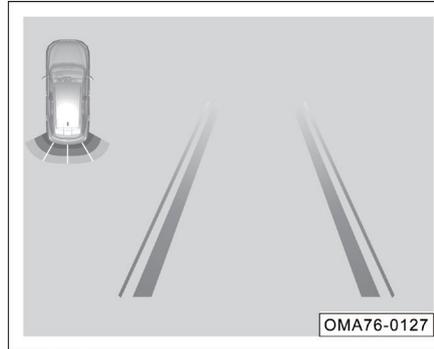
If the gearshift lever is move out of the “R” position, the reverse image system automatically will stop working and the AV system will exit from the reverse image.



WARNING

The reverse image system cannot take the place of the driver's observation to the surrounding environment. The driver shall be concentrated and reverse safely according to the actual conditions.

Dynamic trajectory



The lines appearing on the display represent the dynamic trajectory of the vehicle body and wheels as you turn the steering wheel, which can be used as reference lines to determine the size of the desired parking space when you are reversing or parking.



CAUTION

The above-mentioned distances are obtained by tests on the flat ground, and are only used as references for visual distance judgment. In case of driving on a slope, the above distances cannot be used as accurate references.

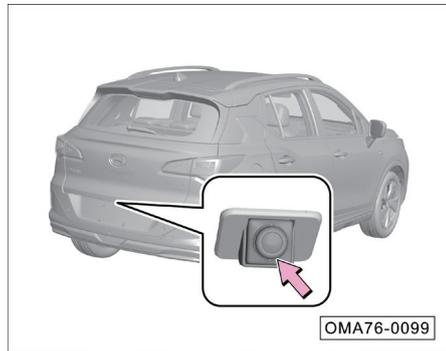


NOTE

- The vertical lines on both sides of the distanced reference lines can be used as reference lines for judging the parking space you need when reversing or parking.
- The distanced reference lines can be adjusted constantly as the steering wheel is turned.

5. Driving guide

CCD



CCD is installed next to the license plate lamp.

⚠ WARNING

- The CCD have blind spots, for example, it may not detect young children or small pets. Therefore, the driver is required to pay special attention to the young children or small pets around the vehicle during reversing.
- The CCD may not be able to recognize the vertical objects at high position, such as wall flange.

👁 CAUTION

- Always keep the CCD surface clean. Clean the surface of the CCD with a piece of soft damp cloth to avoid scratching.
- Do not use a high-pressure cleaner to clean the CCD for a long time, and if it to be used, please keep the nozzle at least 30 cm away from the CCD.
- Do not cover the CCD.

5.6 Electric power steering (EPS)

The EPS is a power steering system which directly uses the motor for providing torque. It is mainly composed of a torque sensor, a motor, a retarding mechanism and an electronic control unit (ECU).

The EPS ECU controls the torque provided by the EPS motor in real time by detecting the torque applied by the driver, the vehicle speed, the engine speed and other status signals of the vehicle to augment the steering effort in the best way so as to ensure the easiness of steering at a low speed and the stability of steering at a high speed, and to improve the driving comfort and vehicle safety.

EPS indicator lamp

With ignition switch set in “ON” position, the indicator lamp  comes on, and if it goes out several seconds after the engine is started, it means that the system has passed the self-test and no fault is found.

If the indicator lamp  does not go out after the engine is started or comes on during driving, it indicates that the EPS is faulty, and in the meanwhile, an alarm message will be displayed on the instrument cluster display. In this case, it is required to park the vehicle in a safe place, and shut down and restart the engine. If the indicator lamp does not go out or comes on again during driving, stop driving, and contact the GAC Motor authorized shop for inspection.

Steering mode

There are three steering modes: Standard, Sport and Comfort modes, where the hand force of the driver turning the steering wheel in Sport mode will be a little greater than that in the Standard mode, and the hand force in Comfort mode will be a little smaller than that in the Standard mode, and the system is set to the Standard mode by default. For setting of steering mode, click “System Settings → Driving Assistance → Lateral Driving Assistance → Steering Mode” in the AV system.

CAUTION

- The steering mode cannot be switched when the steering wheel is turned.
- To prevent an accident, never set the steering mode during driving.

5.7 Driving skills

5.7.1 Pre-driving safety inspection

Routine inspection

- Check the tire for high/low pressure, cuts, bulges, damage or excessive wear.
- Check whether the wheel studs are missing or loose.
- Check whether the front & rear combination lamps and other lamps work properly; check the lighting direction of the front combination lamp.
- Check that the seat belt is not worn or damaged; check that the seat belt is fastened securely after fastening the seat belt.
- Check that the free travel of the pedal is sufficient.
- Check whether the levels of coolant, engine oil, brake fluid and windshield washer fluid are normal.
- Check the battery terminals for corrosion or looseness, and check the battery case for cracks or deformation caused by expansion.
- Check for leakage of fuel, engine oil, water or other fluids under the vehicle, and pay attention that water drip found after A/C operation is normal.

5. Driving guide

Inspections after starting/during driving

- Check whether the instrument cluster works properly; check whether any indicator lamp comes on or any alarm message is shown, etc.
- Check whether all controls (such as the lamplight combination, wiper combination and defrost switches) work properly.
- Check that the vehicle does not deviate to one side during braking on a road without safety risks.
- Check for other anomalies, such as part looseness, leakage and unusual noise.

5.7.2 Driving during running-in period

In order to prolong the service life of the vehicle, the vehicle shall be subject to running-in of certain mileage before it is brought into use. Please comply with the following rules in the running-in period:

- The mileage in the running-in period shall be 1500km.
- Choose roads in good condition and drive it at reduced load and limited speed.
- Do not start the engine with full throttle or drive with harsh acceleration.
- Avoid emergency braking in first 300 km.
- Strictly follow the operating procedures and make sure that the engine has reached normal operating temperature. Do not change the oil before regular maintenance.
- Carry out daily maintenance of the vehicle carefully; check and tighten the external bolts and nuts frequently; check the sound and temperature changes of the assemblies generated by operation and adjust them timely.

Engine running-in

The mileage in the running-in period of a new engine shall be 1500km. Within the first 1000km of driving:

- Keep the vehicle speed no more than 3/4 of the maximum allowable speed.
- Do not drive the vehicle with full throttle.
- Avoid running the engine at high speed.
- Do not tow any trailer.

Within 1000km-1500km, it is allowed to increase the engine & vehicle speeds gradually to the maximum allowable range.

The internal frictional resistance of the engine at the beginning of running-in is much greater than that after running-in, and all the moving parts of the engine can have the best fitting after running-in.

After fully running in, both the service life and the fuel efficiency of the engine can be improved.

Running-in of tire and brake lining

Within the first 500km of driving, drive the vehicle at a moderate speed to get the new tires run in fully.

Within the first 200km-300km of driving, the brake linings have not reach the optimal friction condition, so please drive at a low speed and avoid emergency braking as much as possible.



WARNING

- **A new tire and brake lining will not have the best adhesion and friction characteristics without running-in. Therefore, drive the vehicle cautiously within the first 500km to get the tires fully run in to prevent accidents.**
- **Newly replaced brake lining shall be run in according to the above requirements as well.**
- **During driving, keep an appropriate distance from other vehicles to prevent emergency braking, as the new tires and brake linings have not been fully run in at this time and if an emergency braking is applied, a traffic accident is likely to occur.**

5.7.3 Driving essentials

Precautions under various road conditions:

- When the vehicle is driving on a road with crosswinds and gusts, please decelerate in advance and control the speed and steering wheel.
- Avoid driving on sharp-edged objects or other road obstacles, otherwise it may cause serious damage such as tire burst.
- Reduce the speed and drive at a low speed while driving on a bumpy or uneven road; otherwise the chassis may be scratched, which result in vehicle damage.
- When the vehicle is being driven downhill, decelerate and downshift in advance (in M mode of AT or for the vehicle models with MT); avoid emergency braking, otherwise the brake system will overheat or be worn prematurely.
- When the vehicle is running on a slippery road, be careful during accelerating, upshifting/downshifting (in M mode of AT or for the vehicle models with MT) or braking; avoid sudden acceleration or emergency braking, otherwise it is likely to cause wheel slip.

- When the vehicle is running on an icy or snowy road, drive at a low and constant speed; avoid sudden acceleration or emergency braking and install tire chains for the wheels when necessary.

Precautions while driving over a water-logged road section:

1. Before driving over a water-logged road section, check the depth of water, which shall not be higher than the lower edge of the vehicle body.
2. Before driving through water, switch off the A/C before starting, decelerate and then gently depress the accelerator pedal without release to drive over the water-logged road section at a stable and low speed.
3. Do not stop the vehicle, reverse or shut down the engine in water.
4. After the vehicle is successfully driven through the water-logged road section, gently depress the brake pedal for several times to evaporate the moisture on the brake discs so as to restore the braking performance as soon as possible.

5. Driving guide

i NOTE

The brake linings and brake discs are soaked in water while the vehicle is washed or driven over a road with deep water logging, and the braking effect will be greatly reduced; the braking distance will be longer than usual and the vehicle may be deviated to one side, and the parking brake cannot hold the vehicle still. In this case, it is recommended to drive the vehicle at a low speed and constantly depress the brake pedal slightly to remove residual moisture in the brake to recover the braking effect to the normal level. And then, normal driving can be resumed.

Driving essentials in winter

1. Check if the coolant is in good condition and if it has good anti-freeze effect as follows:
 - Fill the cooling system with the coolant of the same type as the original one according to the ambient temperature.
 - Adding unsuitable coolant may cause damage to the engine.
2. Check the battery and cables as follows:
 - A low temperature in chilly days will reduce the capacity of battery, and therefore, fully charge the battery for start-up in winter.
3. Prevent the door lock from being frozen by ice and snow as follows:
 - Spray some de-icer spray or glycerin into the door lock hole to prevent the door lock from being frozen.
4. Use washer fluids containing antifreeze:
 - These products are available at GAC Motor authorized shop.
 - The mix ratio of water to antifreeze shall comply with the manufacturer's instructions.
5. Avoid accumulated ice and snow beneath the mudguard:
 - Accumulated ice and snow beneath the mudguard may result in difficult steering. Stop the vehicle regularly to check for accumulated ice or snow beneath the mudguard while driving the vehicle in severe cold winter.
6. It is recommended to bring some necessary emergency items according to the road conditions, such as:
 - Tire chains, a window scraper, a bag of sand or salt, a flashing light, a plough staff, connecting cables, etc., which are recommended to be placed in the vehicle.
7. In cold winter (especially in northern China), avoid starting the engine frequently and shutting down the engine immediately after a short-time start. If the engine is often in an alternating heat & cold cycle, the condensed water is likely to form in the engine, and when the condensed water adheres to the engine oil, it may give an illusion of water-in-oil emulsion, and after the engine is restarted and warmed up, this illusion will be shattered; in addition, please change the oil regularly as required in the *Warranty Manual*.

5.7.4 Efficient use of vehicle

- Before driving, make sure that the parking brake is completely released and the parking brake indicator lamp is off.
- Maintain sufficient tire pressure, as a too low tire pressure can cause premature tire wear and higher fuel consumption.
- Ensure that the wheel alignment is accurate. Otherwise it will cause premature tire wear, increased engine load and higher fuel consumption.
- Do not overload the vehicle, and unload unnecessary items from the vehicle, as excessive load will increase the engine load and the fuel consumption thereafter.
- Accelerate the vehicle slowly and smoothly to avoid rapid acceleration.
- Avoid roads with traffic jams as much as possible, as driving in traffic jam will increase the fuel consumption.
- Follow the instructions of traffic lights or maintain a safe distance with other vehicles while driving to avoid unnecessary stop or emergency braking, so as to save fuel and reduce wear on the brake system.
- Do not step on the brake pedal when the vehicle is running, for fear of premature wear and overheating of brake linings and waste of fuel.
- When driving, select good road surface. If driving on uneven roads, control the vehicle speed to avoid collision or scratches.
- If the chassis is stained with objects such as excessive dirt, clean them in time to reduce the vehicle's weight and prevent corrosion.
- Perform regular maintenance on the vehicle to maintain its optimal working condition, as dirty air cleaner, spark plugs, oil, and grease will reduce the engine performance and increase fuel consumption.
- When starting the engine at a low temperature, drive slowly for a few minutes, and ensure the engine is warmed up before acceleration.
- Do not open windows when driving at high speed.
- Properly use the A/C, etc.
- In case of parking for a long time, please shut down the engine to avoid wasting fuel due to long time idling of engine.

5. Driving guide

5.7.5 Fire prevention

In order to prevent vehicle fires, pay attention to the followings during use:

1. Never store flammables or explosives in the vehicle:
 - In hot summer days, the inside temperature of vehicles parked in the sun can be as high as 70°C or more. If flammables or explosives such as lighters, cleaning agents and perfumes are stored in the vehicle, fire and even explosion is likely to occur.
 - Items with risk of fire such as lithium batteries or power banks left in the vehicle by passengers are also likely to cause fire.
2. Make sure the cigarette butts are completely extinguished after smoking:
 - If the cigarette butts are not completely extinguished, fire may be caused.
3. It is recommended to regularly drive to the GAC Motor authorized shop for inspections:
 - Also subject all electric lines of the vehicle to regular inspections. Specifically speaking, check whether the connectors, insulation, and fixing positions of electrical components and harnesses are normal, and handle any problems found during inspection in a timely manner.
4. Never modify the electrical circuits or install additional electrical components:
 - Installation of additional electrical consumers (such as high-power audio device and xenon headlamps) will cause excessive load on the electrical line, causing overheating and even fire of harnesses.
 - Never use fuses that exceed the rated specifications of the electrical consumer or other metal wires to replace the fuses.
5. Precautions for driving:
 - During driving and parking, especially in summer, be sure to check if there are flammables such as hay, dry branches, leaves and wheat stalks under the vehicle, as they may be ignited by the components heated after long-time driving, such as engine exhaust pipe.
 - Do not park the vehicle in places involving serious rat infestation, such as garbage dumps, and do not place items that attract rats, such as snacks in the vehicle, because rats will bite through the harnesses and a fire will be caused therefrom.
6. Always place a lightweight fire extinguisher in the vehicle, and know its operation method:
 - In order to ensure the safety of the vehicle, place a fire extinguisher in the vehicle, and regularly check and replace it; at the same time, be familiar with the operation method of the fire extinguisher, so as to be prepared for handling any unexpected fire accident.

6.1. Maintenance instructions

Safety precautions

To avoid potential hazards, please read this section before work and confirm that you have the necessary tools and techniques.

- Make sure that the vehicle is parked on a level ground, shut down the engine and apply the parking brake.
- When cleaning parts and components, use the commercially available de-greaser or parts cleaner, instead of gasoline.
- Keep lit cigarettes, sparks, and open flames away from batteries and all fuel system related components.
- When working on batteries or with compressed air, wear goggles and protective clothing.

WARNING

Incorrect vehicle maintenance or driving the vehicle before the problem is solved may cause a traffic accident, resulting in serious injury or death.

Potential hazards of the vehicle

- Carbon monoxide: carbon monoxide in the exhaust gas of the engine is toxic. Be sure to start the engine in a well-ventilated place.
- Burns: the engine and exhaust system are at high temperature during operation, which can easily cause burns. Therefore, wait till the engine and exhaust system cool down before touching the related parts and components.

CAUTION

This section lists some of important safety precautions. We cannot list all the dangers you may encounter during maintenance work.

6.2 Interior maintenance

Cleaning and maintenance of instruments and plastic parts

Clean the surface of instruments and plastic parts with a clean soft cloth and clean water.

If it cannot be cleaned, it is required to use a special solvent-free plastic cleaning agent for cleaning.

CAUTION

Solvent-based cleaning agents can damage plastic parts.

WARNING

It is forbidden to use cab sprays and solvent-based cleaning agents to clean the surface of the instrument panel and airbag assembly. Otherwise, it may loosen the surface and trigger the airbag, which may cause serious injury to occupants.

6. In-service maintenance

Cleaning and maintenance of carpet

Vacuum the dust on the carpet frequently.

Scrub the carpet regularly with detergent to keep it clean.

CAUTION

Please perform the cleaning in strict accordance with the operating instructions of cleaning agents.

WARNING

It is forbidden to add water to the foam cleaner. The carpet shall be kept as dry as possible.

Cleaning and maintenance of leather*

- Vacuum the dust.
- Clean the leather with a clean soft cloth and clean water.
- Wipe the leather dry with another dry soft cloth.
- If the cleaning methods described above are not enough to clean stains, please combine these methods with special leather cleaning soap or detergent.

CAUTION

If a leather stain remover is used, wipe it dry with a soft dry cloth as soon as possible.

WARNING

Never leave a soft cloth wet with leather stain remover on any part of the interiors for a long time. Avoid discoloring or breaking the resin or fibers of interior fabrics.

Cleaning and maintenance of seat belts

- Pull the seat belt out slowly and keep it being extracted.
- Remove dirt from the seat belt by using a soft brush and neutral soapy water.
- After seat belts dry completely, retract the seat belts.

CAUTION

- Wait till the seat belts dry completely before retracting them. Otherwise, seat belt retractors may be damaged.
- Regularly check all the seat belts in the vehicle to ensure that the seat belts are clean and avoid hindering the normal operation of seat belts.



WARNING

- **If the seat belt webbing, connectors, retractor mechanism or buckles are damaged, please go to the GAC Motor authorized shop for replacement as soon as possible.**
- **For the overhaul of an accident vehicle, seat belts must be replaced, no matter whether they are damaged or intact.**
- **Avoid foreign objects or liquids entering the seat belt buckles, which may result in the buckles and seat belts not working properly.**
- **Under any circumstances, it is forbidden to remove or modify seat belts without authorization.**
- **It is forbidden to use chemical cleaning agents to clean the seat belts, for fear of damaging the seat belt webbing and impairing the function of seat belt.**

Cleaning and replacement of filters

The vehicle is equipped with an air cleaner, an A/C filter, an oil filter, a fuel filter, etc. They aim to filter gases or fluids. If they are too dirty or clogged, the normal operation of corresponding systems will be affected. Therefore, it is recommended to regularly clean or replace the filters at the GAC Motor authorized shop according to the provisions of the *Warranty Manual*.

6.3 Exterior maintenance

Vehicle washing

Washing the vehicle frequently helps to protect its appearance.

Vehicle washing shall be performed in a cool place, rather than under direct sunlight. If the vehicle is left in the sun for a long time, wait till the vehicle body surface cools down before washing the vehicle.

When using an automatic vehicle washer, be sure to follow the instructions of the operator of the automatic vehicle washer.



WARNING

The ignition switch must be set to OFF before vehicle washing.

6. In-service maintenance

CAUTION

The paint surface of the vehicle body is strong enough to withstand the washing of the automatic vehicle washer. However, it is important to pay attention to the effects on the paint surface. The structure of the automatic vehicle washer, the cleaning agent, the filtering state of the clean water, and the type of wax solvent that do not meet the requirements may cause damage to the paint surface.

Manual vehicle washing

- Rinse the vehicle with plenty of water to remove floating dust.
- Prepare a bucket of water and add a special cleaning agent for vehicle washing to it.
- Gently scrub the vehicle with a soft cloth, sponge or soft brush and rinse it several times from top to bottom.
- Rinse the parts such as wheels and door sills at last. Replace sponges or soft cloth while washing the vehicle.
- After scrubbing, rinse the vehicle thoroughly with plenty of water.
- After washing, carefully dry the paint surface of the vehicle using a soft towel or antelope skin.

CAUTION

When the vehicle body has dirt such as asphalt, it needs to be cleaned with a special cleaning agent, and then rinsed with clean water to avoid damaging the surface finish of the vehicle body. Check the body for paint peeling and scratches while wiping the body. If any, drive to the GAC Motor authorized shop for touch-up.

When using a steam cleaner or a high-pressure cleaner to wash the vehicle, be sure to be very careful. Be sure to wash the vehicle in accordance with the operating instructions and requirements of the steam cleaner or high-pressure cleaner. Pay attention to the working pressure, temperature and spraying distance:

- When using a steam cleaner or a high-pressure cleaner to wash the vehicle, keep a sufficient water spray distance from the vehicle, and ensure the temperature does not exceed 60°C.
- If the vehicle is equipped with a power sunroof, keep the water spray distance more than 80 cm when washing the vehicle. If the high-pressure cleaner is close to the vehicle, or if excessive pressure or temperature is used, the vehicle may be damaged.
- Do not wash a radar sensor or a parking assist camera with a high-pressure cleaner for a long time; when washing the radar sensor or parking assist cameras, keep the water spray distance more than 30 cm.

WARNING

- **When washing the vehicle manually, pay attention to personal safety and beware of angular parts at the bottom of the vehicle to avoid being scratched.**
- **When washing the vehicle, pay special attention to the bottom of the vehicle and the inner side of wheelhouses. Do not hurt hands and arms with sharp parts.**
- **Never spray water directly into the engine compartment when washing the vehicle. Otherwise, it will affect the service life of various parts and components in the engine compartment.**

Waxing

Regular waxing can protect the paint surface of the vehicle body and keep the vehicle body clean. In order to effectively protect the paint surface of the vehicle body, it is recommended to apply high-quality hard wax once a year to protect the paint surface against corrosion by external bad environments and to resist light mechanical scratch.

Be sure to wipe the appearance of the entire vehicle dry before waxing. Before waxing the vehicle, please select a high-quality wax protectant. High-quality wax protectant generally falls into the following two types:

- Vehicle body wax: a wax used to protect the paint surface against damage by external bad environments such as sun exposure and air pollution. This type of wax is generally used for new vehicles.
- Polishing wax: a wax which can restore the gloss of the paint surface that has been oxidized or tarnished. This type of wax is generally used to restore the gloss of paint surface.

6. In-service maintenance

Cleaning and maintenance of external plastic parts

External plastic parts are generally washed with clean water, soft cloth and soft brushes. If they cannot be cleaned, please use the special solvent-free plastics cleaner approved by our company.

CAUTION

Do not use solvent-based cleaning agents when washing plastic parts. Otherwise, it is easy to damage the plastic parts.

Washing of window glasses and rearview mirrors

Clean the window glasses and rearview mirrors with alcohol-based glass cleaner, and then wipe the glass surface dry with a clean, lint-free soft cloth or antelope skin.

After curing the surface of the vehicle body, remove the wax residue on the glasses with a special cleaning agent and cleaning cloth. Avoid scratching the wiper blades.

Remove snow from the windows and rearview mirrors using a small brush.

Remove accumulated ice using de-icer spray. An ice shovel can also be used, but special care must be taken to avoid damage to the components, and ice must be shaved in the same direction.

CAUTION

- It is forbidden to scrape the surface back and forth.
- It is forbidden to remove ice and snow from the windshields and rearview mirrors using warm water or hot water. Otherwise, the glass may burst.
- If there are residual objects such as rubber, grease and silicone on the glass, they must be removed with a special window cleaner or silicone cleaner.

Cleaning of wiper blades

- Raise the wiper arm and carefully wipe off the dust and dirt on the wiper blade with a soft cloth.
- After cleaning, gently lower the wiper arm back to the windshield.

CAUTION

- Be careful when lowering the wiper arm to prevent it from falling and hitting the windshield instantly.
- The wiper blades are coated with a layer of graphite which makes the wiping operation smooth and does not produce scraping noise. Solvent-based cleaning agents, hard sponges and sharp objects can damage the graphite layer. Damaged graphite layer will increase the wiping noise of the wiper, and the wiper shall be replaced in time.
- In winter or cold conditions, be sure to check whether the wiper blade is frozen together with the windshield before using the wiper. If so, perform de-icing first. Otherwise, the wiper blade and wiper motor will be damaged.

Maintenance of sealing strips

Frequent and proper protection of the rubber sealing strips of the doors, windows and other parts of the vehicle is intended to maintain their flexibility and prolong their service life. Such protection can also improve the tightness, make the door easy to open, reduce the impact sound of closing the door, and prevent freezing in winter.

When performing maintenance on sealing strips, remove dust and dirt from surfaces using a soft cloth. Apply special protective agent to rubber sealing strips regularly.

Cleaning and maintenance of wheels

Regularly remove anti-skid salts on the wheels and debris on the brake linings, which can keep the wheels aesthetic, maintain the surface smooth and prolong the service life of wheels. It is recommended to perform the following operations regularly:

- Remove anti-skid salts on the wheels and debris on the brake linings using acid-free wheel cleaner every two weeks.
- Apply high-quality hard wax to the alloy wheels every three months.

CAUTION

- It is prohibited to maintain the wheel surface with vehicle polish or other abrasives.
- The wheels with damaged protective coating on surface must be repaired in time.
- Using a high-pressure cleaner may cause permanent visible or invisible damage to the wheels, resulting in serious injury or death.
- It is forbidden to use cluster head nozzles to spray the tires. Otherwise the tires will be damaged, causing traffic accidents.

6. In-service maintenance

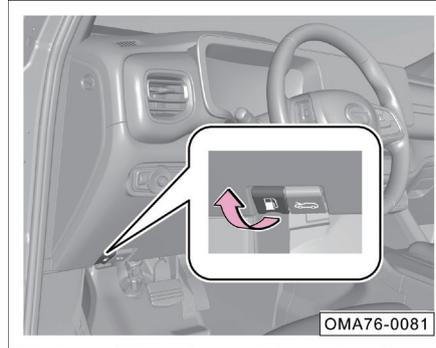
6.4 Inspecting and adding fluids

6.4.1 Fuel

As the amount of fuel decreases when the vehicle is running, the fuel gauge scale will gradually decrease. => [See page 40](#)

When the fuel level is too low, the yellow indicator lamp  flashes, and the instrument cluster will give an alarm message. At this time, fuel shall be added as soon as possible.

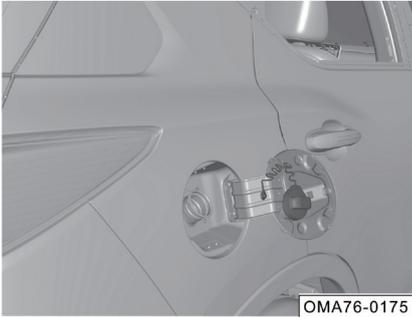
Adding fuel



- Pull up the fuel tank cap release handle to make the fuel tank cap pop up.



- Open the fuel tank cap, and slowly unscrew the filler cap counterclockwise. Keep the filter cap at the original place for a while when it is unscrewed completely to allow fuel tank to release the fuel vapor inside, and then remove it.



- Suspend the fuel filler cap tether on the inner hook of the fuel tank cap and start adding fuel.
- After adding the fuel, tighten the fuel filler cap clockwise till a click is heard, which indicates that the fuel filler cap has been tightened.

i NOTE

Grade of fuel: 92# or above lead-free gasoline.

i NOTE

This model complies with China VI emission standards. The fuel supply system of China VI is designed with a closed fuel and gas recovery system. During refueling, the fuel gun switch may be triggered due to high ambient temperature or high fuel flow rate, and the fuel gun is switched off when the fuel tank is not filled fully. This is a normal phenomenon. At this time, the refueling speed shall be slowed down.

👁 CAUTION

Low-grade fuel or substandard fuel may damage the engine or make the engine fail to meet performance requirements.

⚠ WARNING

- **At any time, be sure to shut down the engine when refueling, and pay attention to open flames and fire.**
- **Please avoid contact of fuel with skin or clothing.**
- **Please refuel the vehicle according to the vehicle fuel grade. If fuel not complying with the regulations is added accidentally, do not start the engine. Please contact the GAC Motor authorized shop immediately for treatment.**

6. In-service maintenance

6.4.2 Engine oil

Function of engine oil

Engine oil has functions such as lubrication, sealing, cooling, anti-rusting and cleaning.

Specifications of engine oil

The engine has been filled with high-quality engine oil, which can be used in the year-round climate except for extreme cold weather before delivery.

When purchasing engine oil, please check whether the specifications indicated on the outer packaging of the engine oil are suitable for the engine of this vehicle.

i NOTE

For the 1.5TM engine:

- Engine oil grade: SN and above.
- Oil viscosity: SAE 0W-20.

For the 1.5T GDI engine:

- Engine oil grade: SN and above.
- Oil viscosity: SAE 5W-30.

⚠ WARNING

Always use the engine oil approved by our company. Otherwise, the ensuing engine damage will not be covered by the warranty.

i NOTE

- Be sure to go to the GAC Motor authorized shop to change the engine oil according to the period specified in the *Warranty Manual*.
- If the vehicle is running under severe conditions, fuel with high sulfur content is used, engine idles for a long time (e.g., a taxi), the vehicle is driven in a high-dust area, the vehicle often tows a trailer, or the vehicle is used in an alpine area, the maintenance cycle shall be shortened and the maintenance times shall be increased.

Low oil pressure warning lamp

When driving, if the warning lamp  comes on, be sure to stop the vehicle in a safe place and shut down the engine. After the engine cools down, check the oil level.

If the engine oil level is normal, but the warning lamp is still on after the engine is started, do not continue to start the engine. In this case, contact the GAC Motor authorized shop timely for overhaul.

⚠ WARNING

- **Ignoring the warning lamps and related warning instructions may damage the engine.**
- **The low oil pressure warning lamp cannot indicate the oil level, and the oil level must be checked regularly.**

Inspecting the oil level

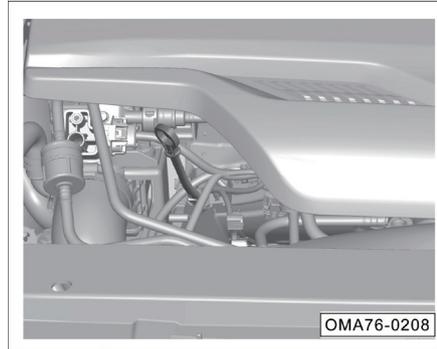
Be sure to check the oil level regularly. Park the vehicle on a level ground, apply the park brake, and shut down the engine. After the engine cools down, open the engine hood and check the oil level.

WARNING

- **Be extremely careful while working in the engine compartment.**
- **The engine compartment is a high-risk area. Be sure to read and follow the relevant warning instructions carefully before opening the engine hood.**

NOTE

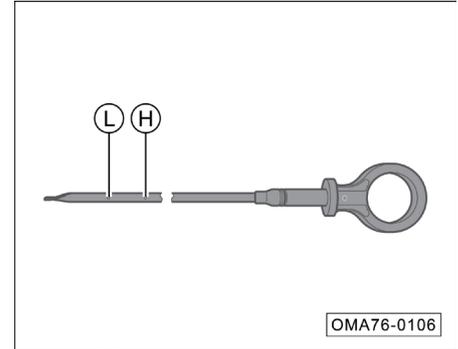
While checking the oil level, ensure the engine is cold.



- Pull out the oil dipstick.

CAUTION

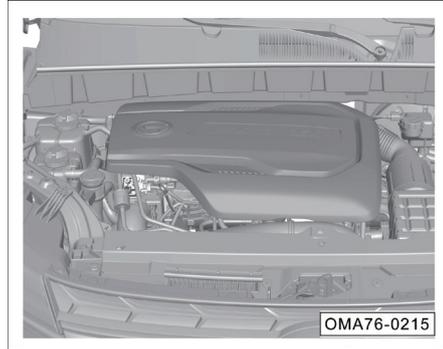
While pulling out the oil dipstick completely, keep it at the original place for a while to prevent excessive oil on it from splashing on the engine.



- Wipe off the oil stains on the dipstick using a clean cloth, and then insert the oil dipstick to the end.
- Pull out the oil dipstick again and read the measured oil level, which shall be between "L" (minimum scale mark) and "H" (maximum scale mark).
- If there is too little engine oil, please add engine oil in time. Otherwise, poor lubrication will damage the engine.

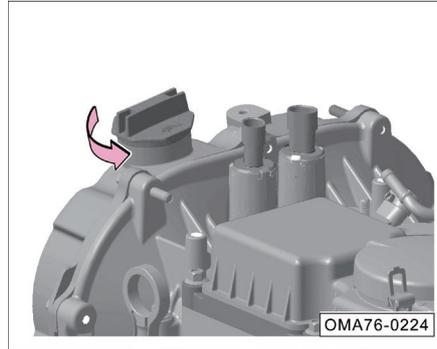
6. In-service maintenance

Adding engine oil



After checking the oil level, if required, add engine oil following the steps below:

- Lift up to remove the engine upper guard plate.



- Unscrew the oil filler cap counterclockwise.
- Add small amounts of engine oil repeatedly, and check the oil level after each filling.
- When the oil level is close to the maximum scale mark "H", indicating the engine oil is sufficient, stop adding oil, refit the oil filler cap and tighten it clockwise.

WARNING

- Be careful while adding the engine oil. Do not spill it. If the engine oil gets on skin, be sure to rinse the skin thoroughly.
- If too much oil is added, do not start the engine. In this case, please contact the GAC Motor authorized shop as soon as possible. Otherwise, the three-way catalytic converter may be damaged.
- After filling, be sure to tighten the oil filler cap to prevent the engine oil from splashing when the engine is being started, for fear of a fire.
- Since engine oil is toxic, it shall be stored in the original container and kept out of children's contact to avoid poisoning due to accidental ingestion.
- Do not add any lubricants to the engine oil. Otherwise, the engine will be damaged. Engine failure caused by adding lubricants is not covered by the warranty.

6.4.3 Coolant

Function of coolant

Coolant has functions such as cooling, anti-freezing and anti-corrosion.

Specifications of coolant

When the vehicle leaves the factory, the cooling system has been filled with coolant, which can be used in the year-round climate except for extreme cold weather.

NOTE

- Specifications of coolant: DF-6, -35°C.
- Be sure to go to the GAC Motor authorized shop to change the coolant according to the period specified in the *Warranty Manual*.
- If the coolant discolors, the maintenance cycle shall be shortened and the coolant shall be changed at the GAC Motor authorized shop.

High engine coolant temperature indicator lamp

If the coolant temperature is too high, the indicator lamp  on the instrument cluster comes on in red, and an alarm message is given to prompt the driver; at this time, the vehicle must be stopped in a safe place and the engine shut down. After the engine cools down, check the coolant level.

If the coolant level is normal but the indicator lamp is still on after the engine is started, do not continue to start the engine. In this case, contact the GAC Motor authorized shop timely for overhaul.

Inspecting the coolant level

Be sure to check the coolant level regularly. Park the vehicle on a level ground, apply the parking brake, and shut down the engine. After the engine cools down, open the engine hood and then check the coolant level.

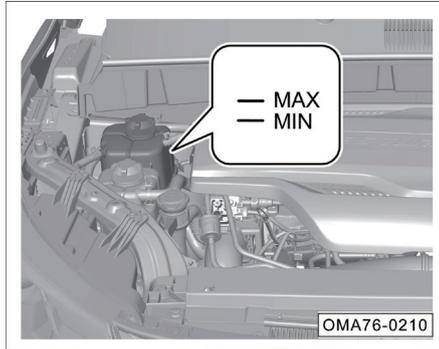


WARNING

- **The engine compartment is a high-risk area. Be sure to read and follow the relevant warning instructions carefully before opening the engine hood.**
- **If steam or coolant flows out from the engine compartment, do not open the engine hood, for fear of burns; wait till there is no steam or coolant overflowing and the engine cools down before opening the engine hood.**

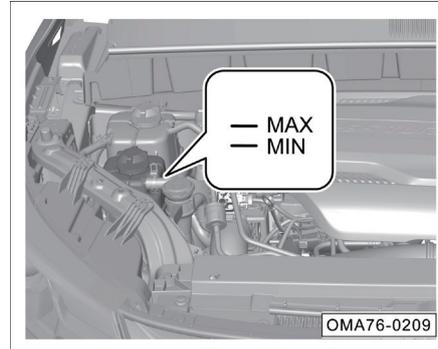
6. In-service maintenance

Engine coolant



Check whether the coolant level in the expansion tank is between the maximum scale mark "MAX" and the minimum scale mark "MIN".

Intercooler coolant*

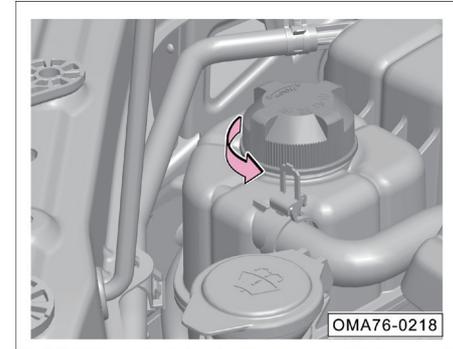


Check whether the coolant level in the intercooler coolant expansion tank is between the maximum scale mark "MAX" and the minimum scale mark "MIN".

CAUTION

When the coolant level is lower than the minimum scale mark "MIN", coolant must be added. Insufficient coolant will affect the cooling effect and cause engine damage.

Adding coolant



After checking the coolant level, if required, add coolant following the steps below:

- Wrap the expansion tank cap with a thick cloth and unscrew it counterclockwise.
- Add coolant to a level between the maximum scale mark "MAX" and the minimum scale mark "MIN".
- Tighten the expansion tank cap clockwise.

6. In-service maintenance

CAUTION

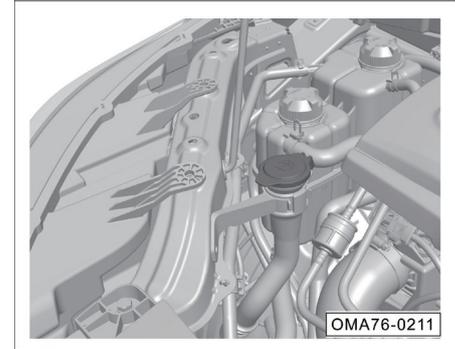
- When the engine or the intercooler has not been cooled down, the cooling system is under high pressure. In this case, do not open the expansion tank cap, otherwise the emerging coolant will cause scald.
- Coolant can only be added after the engine or the intercooler has cooled down. The coolant level after filling must not exceed the maximum scale mark "MAX". Otherwise, when the engine is started and the cooling system is under high pressure, coolant will overflow.
- Only fresh coolant is allowed to be added.

WARNING

- **It is forbidden to mix coolant that is not approved by our company in the original coolant.**
- **In case of emergency, if other coolant is used or pure water is added, go to the GAC Motor authorized shop to clean the cooling system and change the coolant in time.**
- **If the too much coolant is consumed or it is consumed too fast, there may be a leak in the cooling system. In this case, please go to the GAC Motor authorized shop for inspection in time.**
- **Coolant must be contained in the original container, and kept out of children's contact to avoid poisoning due to accidental ingestion.**

6.4.4 Windshield washer fluid and wiper blades

Adding windshield washer fluid



If the level of the washer fluid is too low, the washer fluid shall be added in time.

CAUTION

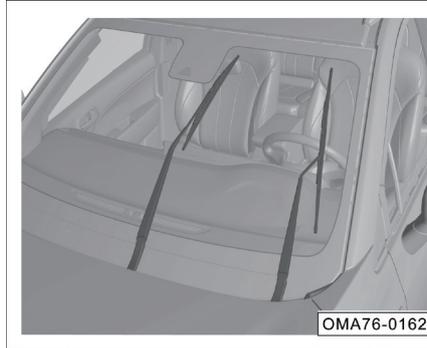
Do not mix and use the windshield washer fluid with other cleaning liquids. Otherwise, the washer fluid will decompose and block the nozzle of the windshield washer.

6. In-service maintenance

WARNING

- Be extremely careful while working in the engine compartment. Before operation, be sure to carefully read and follow the relevant warning instructions.
- Do not misuse coolant or any other additives as windshield washer fluid. Otherwise, oil stains will be left on the windshield during cleaning of the windshield, which will affect the visibility and easily cause accidents.
- It is forbidden to use windshield washer fluid with more than 10% ethanol content. In high temperature environment, this type of windshield washer fluid will cause corrosion and even crack of tail lamps. It is recommended to use methanol washer fluid.

Replacing front windshield wiper blades

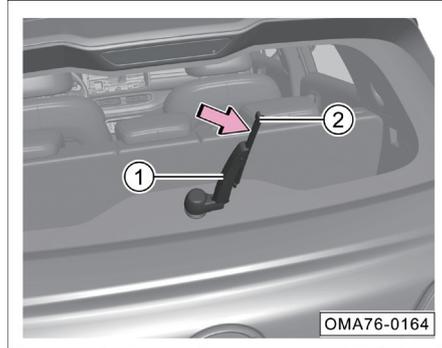


- Set the ignition switch to the "ON" position and then to the "OFF" position.
- Set the wiper combination switch to MIST within 10 s. The wiper arm will stop after running for half a circle.



- Lift the wiper arm. After the wiper blade is adjusted as shown, it can be removed by pressing it down.
- Install the new wiper blade into the wiper arm in reverse steps. It is installed in place when a "click" is heard.
- Gently put the wiper arm back into the windshield.
- Set the ignition switch to the "ON" position to let the wiper arm automatically return in place.

Replacing rear windshield wiper blades



- Hold the wiper arm ① by hand, and push the wiper blade ② as arrowed to remove it.
- Install the new wiper blade into the wiper arm
- Gently put the wiper arm back into the windshield.

If replacing wiper blades is required, it is recommended to go to the GAC Motor authorized shop for replacement.

CAUTION

- When lifting the wiper arm, please grasp the wiper arm with hands, rather than grasp the soft wiper blade.
- New wiper blades with the same length and specifications as the previous ones must be used.
- Be careful while lowering the wiper arm to prevent it from falling and hitting the windshield instantly.
- The status of the wiper blades must be checked regularly, and the wiper blades must be replaced as specified. Damaged wiper blades must be replaced in time.
- Excessively worn or dirty wiper blades are very easy to scratch the windshield and will affect the field of vision when used, reducing driving safety.

6.4.5 Brake fluid

Function of brake fluid

Brake fluid is used to transmit power in the hydraulic brake system of the vehicle.

The brake fluid is water-absorbent, so it can continuously absorb moisture in the surrounding air during use. If the brake fluid stays in the system for too long and absorbs too much moisture, air resistance will generate in the system pipeline during braking, reducing the braking effect and impairing driving safety; it may even cause the complete failure of the brake system, resulting in accidents. Therefore, be sure to go to the GAC Motor authorized shop to check the brake fluid level or change the brake fluid according to the period specified in the *Warranty Manual*.

NOTE

Specifications of brake fluid: DOT4.

6. In-service maintenance

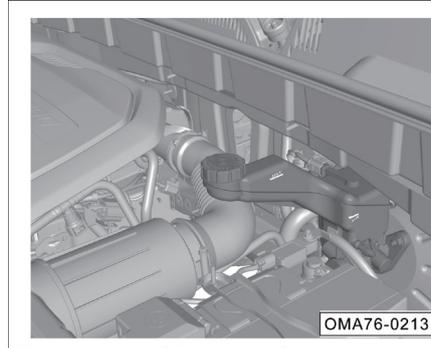
WARNING

- Using waste brake fluid or using brake fluid not applicable to the vehicle will remarkably reduce the braking effect and even cause the brake system to fail! The company does not assume any responsibility (including quality guarantee) for vehicle failures and damage caused thereby.
- Brake fluid in use must meet the criteria and be fresh.
- The brake fluid packaging container is marked with its specifications. In all cases, brake fluid with correct specifications must be used.

Brake system indicator lamp

When the vehicle is running, if the indicator lamp  comes on in red, the level of brake fluid in the brake fluid reservoir may be too low. In this case, be sure to immediately stop the vehicle at a safe place and check whether the brake fluid level is normal.

Inspecting brake fluid level



When the engine cools down, check whether the brake fluid level is between the maximum scale mark "MAX" and the minimum scale mark "MIN".

During vehicle use, the brake fluid level will slightly drop due to the worn brake linings and automatic adjustment

If the brake fluid level drops significantly in a short period of time or drops below "MIN", it indicates that the brake system may leak.

NOTE

- After check of the brake fluid level, if the fluid level is below "MIN", brake fluid must be added.
- If the brake system warning lamp does not go out or comes on again after the brake fluid is added, there may be a leak in the brake system, causing the brake fluid level to drop quickly, or the brake system malfunctions. In this case, do not continue to drive and contact the GAC Motor authorized shop in time for inspection.

Adding brake fluid

In order to ensure the normal operation of the brake system, the added brake fluid shall meet the specifications:

- Open the brake fluid reservoir cap counterclockwise.
- Add fresh brake fluid to the maximum scale mark "MAX" and stop adding.
- Tighten the brake fluid reservoir cap clockwise.

CAUTION

- The brake fluid will corrode the paint surface of the vehicle body. Brake fluid splashed on the paint surface shall be wiped off in time.
- Using waste brake fluid or using brake fluid not applicable to the vehicle will remarkably reduce the braking effect due to incompatibility and even cause the brake system to fail.

WARNING

- **Brake fluid is toxic. It must be contained in the original sealed container, placed in a safe place, and kept out of children's contact to avoid poisoning due to accidental ingestion.**
- **Brake fluid must be stored in accordance with environmental protection laws.**

6.4.6 Battery

Warning symbols and instructions for battery operation

	Goggles must be worn during operation!
	The battery electrolyte is highly corrosive. Protective gloves and goggles must be worn during operation!
	Open flames, sparks, uncovered lamps and smoking are prohibited in the workplace!
	Very explosive gas mixture is generated when the battery is being charged!
	Children must stay away from electrolytes and vehicle batteries!

If not familiar with the operation process or without special tools, never carry out any operations on the electrical system of the vehicle. The relevant operations shall be carried out by the GAC Motor authorized shop.

6. In-service maintenance

Charging system warning lamp

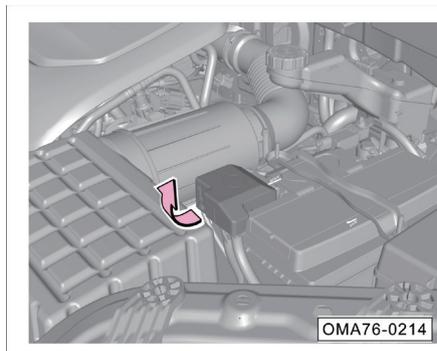
The warning lamp is used to indicate alternator failure.

When the ignition switch is set to the “ON” position and the engine is not started, the warning lamp  comes on. After the engine is started, the warning lamp shall go out.

When the vehicle is running, if the warning lamp comes on, it indicates that the alternator is no longer charging the battery. In this case, please go to the GAC Motor authorized shop for inspection as soon as possible.

Inspecting the battery

The battery must be checked according to the period specified in the *Warranty Manual*.



- Flip up the cover of the battery's positive terminal.
- Check the connection of the battery connector and the cable for corrosion or looseness; check the appearance of the battery for cracks, swelling, etc. If the phenomena above are found, please go to the GAC Motor authorized shop for inspection as soon as possible.
- If the vehicle is not in use for a long period of time, check the battery condition frequently.

i NOTE

- If the battery is low in power or damaged, making the engine difficult to start, please contact the GAC Motor authorized shop to charge or replace the battery.
- If it is required to replace the battery, please go to the GAC Motor authorized shop for replacement; if a wrong type of battery is used, the vehicle may not run due to incompatibility or the electrical system may fail.

Instructions for using the battery

After the engine is turned off, the battery will quickly discharge when an electrical consumer on the vehicle is being used:

1. Do not use an electrical consumer on the vehicle for a long time after the engine is turned off.
2. While leaving the vehicle, make sure that the doors are closed and all electrical consumers (e.g., lamps) are turned off.

CAUTION

- If the engine cannot be started due to depleted battery, please try emergency start => [See page 245](#). If the engine still cannot be started, please contact the GAC Motor authorized shop for overhaul.
- To avoid damage to the electrical system of the vehicle, never connect power generation equipment such as solar panels or vehicle battery chargers to a 12V power outlet.
- The battery contains toxic substances such as sulfuric acid and lead, so it must be disposed of properly and must not be treated as ordinary household waste.

6.5 A/C filter

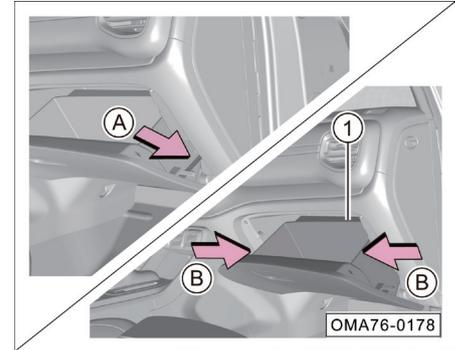
Inspecting and cleaning the A/C filter

Check or clean the A/C filter regularly according to the provisions in the *Warranty Manual*. If the vehicle is running in harsh conditions and the A/C filter gets too dirty, it is recommended to replace the A/C filter at an interval shorter than that specified.

NOTE

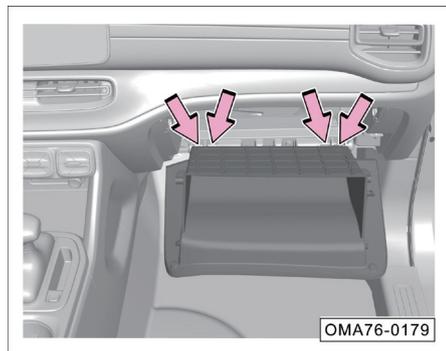
If it is impossible to remove and refit the A/C filter without authorization, please go to GAC Motor authorized shop for professional help.

Removing and installing A/C filter

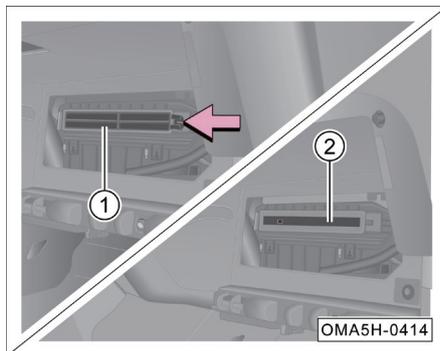


1. Open the glove box.
2. Disconnect the glove box from the damper in the direction of arrow A.
3. Press the glove box in the direction of arrow B and disconnect the glove box ^① from the instrument panel assembly by pulling the glove box.

6. In-service maintenance



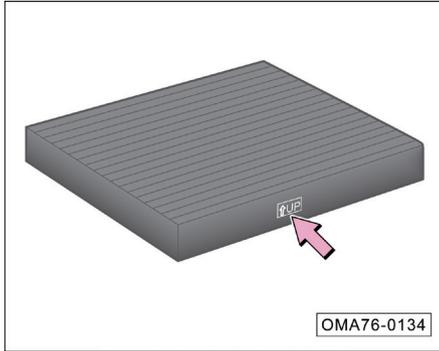
4. Detach the fixing clips as arrowed on the bottom of the glove box, and take out the glove box.



5. Undo the filter element cover clip as arrowed to take out the filter element cover ①.
6. Take out the A/C filter element ②. Tap the A/C filter element to remove the dust.
7. Refit the A/C filter as per the reverse steps.

CAUTION

- Because the fiber layer on the back of the A/C filter cannot be blown off with an air gun, it cannot be cleaned and needs to be replaced in time after getting dirty.
- Because the A/C filter is made of special material, it shall not be washed with water. Otherwise, dust will accumulate and form clots, which will cause decreased air volume of A/C or even blockage.



- When installing the A/C filter, install it according to the upward mark of the A/C filter.

6.6 Replacing bulb

Instructions for replacing bulbs

When replacing bulbs, be careful not to touch the bulb glass with fingers. Otherwise, the heat of the bulb will evaporate the grease on the bulb from fingerprints and condense it on the bulb glass, reducing the illuminance of the lamp.

After replacing bulbs, be sure to check the operating status of lamps, and go to the GAC Motor authorized shop to check the beam status in time.

i NOTE

- Lamps for the vehicle include halogen and LED types. If the halogen bulb is damaged, please go to the GAC Motor authorized shop for replacement.
- The removing and installing methods of the left and right bulbs are basically the same. Here only the removing and installing methods of halogen bulbs on one side are described.

👁 CAUTION

Damaged bulbs must be renewed with the bulbs of the same specifications; for the specific specifications => [See page 224](#)

⚠ WARNING

If you are unfamiliar with the operation process, safe operation specifications and tool operation methods, do not replace bulbs yourself.

- **Turn off all lamps before replacing bulbs, and wait for bulbs till they are cool before replacement.**
- **Pay attention to the sharp parts on the combination lamp housing in the engine compartment during operation, and be careful not to scratch hands while replacing bulbs.**

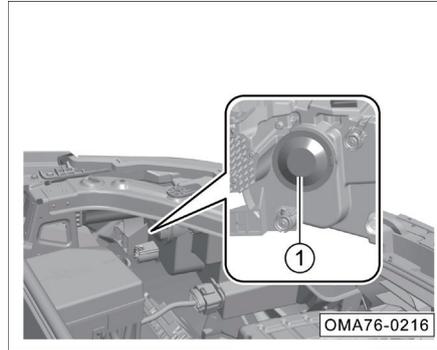
6. In-service maintenance

Preparation for replacing bulbs

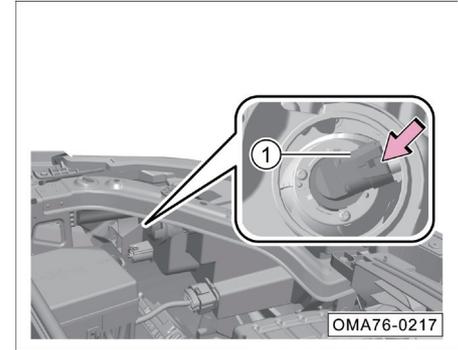
If it is found that any bulb is damaged, replace the bulb as soon as possible. Before replacement, make the following preparations:

1. Turn off all lamps.
2. Set the ignition switch to the "OFF" position.
3. Check whether the related fuse is blown. When the fuse is in good conditions, perform bulb inspection and replacement.

Replacing high/low beam bulb

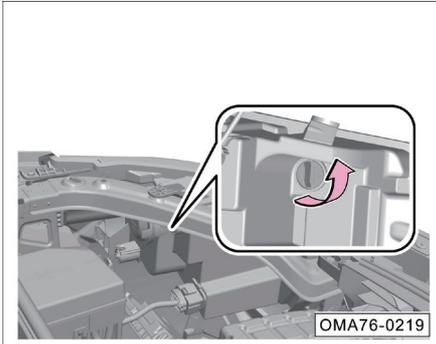


1. Pull out the high/low beam blanking piece ①.

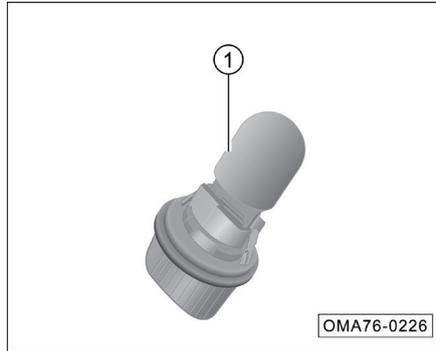


2. Screw out the high/low beam bulb ① counterclockwise.
3. Disconnect the connector as arrowed.
4. Take out the high/low beam bulb ①.
5. Replace the original high/low beam bulb with a new one in the reverse order.

Replacing front turn signal lamp

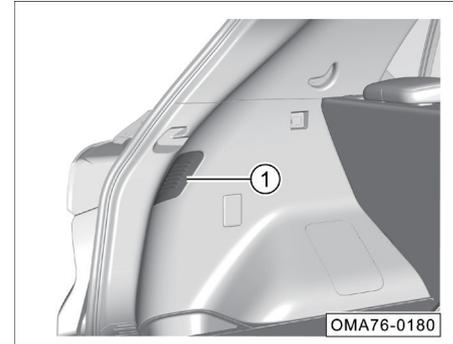


1. Screw out the turn signal lamp bulb and lamp holder counterclockwise.



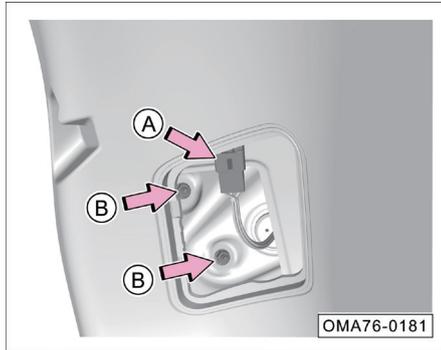
2. Take out the front turn signal lamp bulb ①.
3. Replace the original bulb with a new front turn signal lamp bulb in the reverse order.

Removing rear combination lamp



1. Open the liftgate.
2. Pry off the small trim panel ①.

6. In-service maintenance

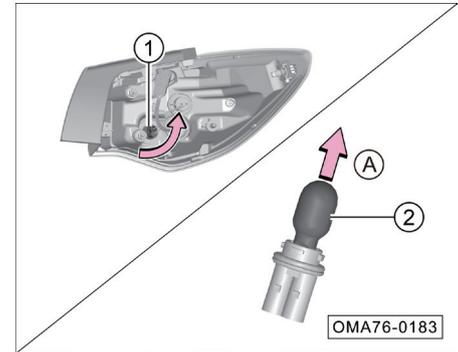


3. Disconnect the connector (arrow A) of the rear combination lamp.
4. Screw out the fixing nut (arrow B) of the rear combination lamp.



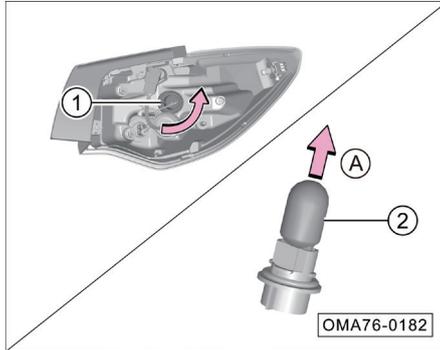
5. Take out the rear combination lamp ①.
6. Install the rear combination lamp in the reverse order after removing it.

Replacing rear turn signal lamp bulb



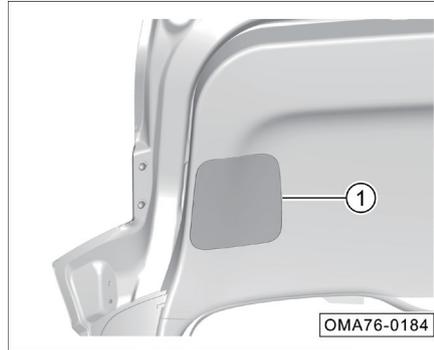
1. Remove the rear combination lamp. => [See page 201](#)
2. Screw out the rear turn signal lamp bulb and lamp holder ① counterclockwise.
3. Take out the rear turn signal lamp bulb ② in the direction of arrow A.
4. Replace the original bulb with a new rear turn signal lamp bulb in the reverse order.

Replacing brake lamp

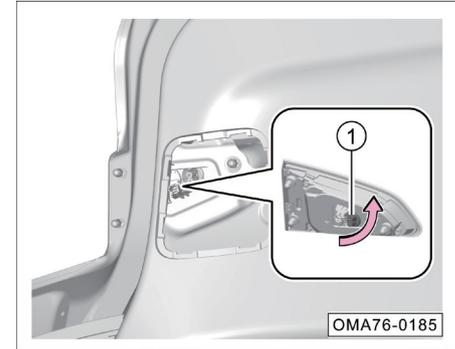


1. Remove the rear combination lamp. => [See page 201](#)
2. Screw out the brake lamp bulb and lamp holder ① counterclockwise.
3. Take out the brake lamp bulb ② in the direction of arrow A.
4. Replace the original bulb with a new brake lamp bulb in the reverse order.

Replacing reverse lamp bulb

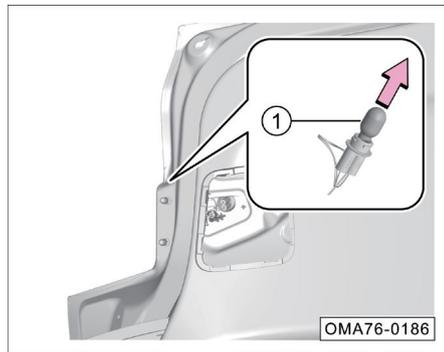


1. Open the liftgate.
2. Pry off the small cover ①.



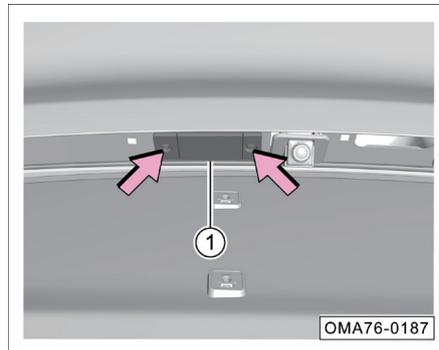
3. Screw out the reversing lamp bulb and lamp holder ① counterclockwise.

6. In-service maintenance

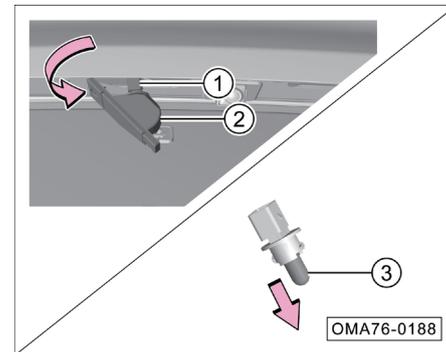


4. Take out bulb ① as arrowed.
5. Replace the original bulb with a new reverse lamp bulb in the reverse order.

Replacing license plate lamp

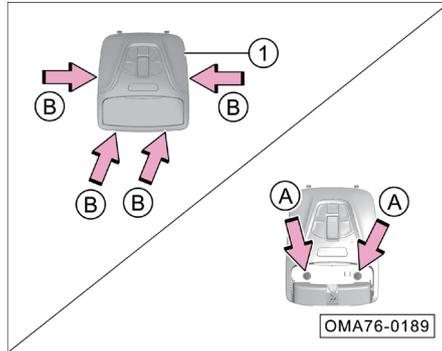


1. Screw out the fixing screws as arrowed of the left license plate lamp assembly and take out the license plate lamp assembly ①.

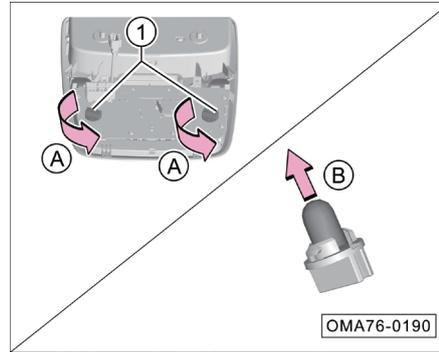


2. Rotate the license plate lamp assembly ① and harness as arrowed, and take out the lamp shade ②.
3. Take out bulb ③ as arrowed.
4. Replace the original bulb with a new license plate lamp bulb in the reverse order.

Replacing front dome lamp bulb

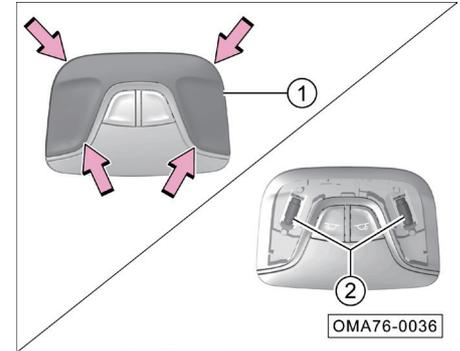


1. Open the spectacle case and use a Phillips screwdriver to screw out the fixing screws (arrow A) of front dome lamp assembly.
2. Insert the removal wedges at arrow B to remove the front dome lamp assembly ①.



3. Screw out and take out the front dome lamp bulb and lamp holder ① in the direction of arrow A.
4. Take out the front dome lamp bulb in the direction of arrow B.
5. Replace the original bulb with a new dome lamp bulb in the reverse order.

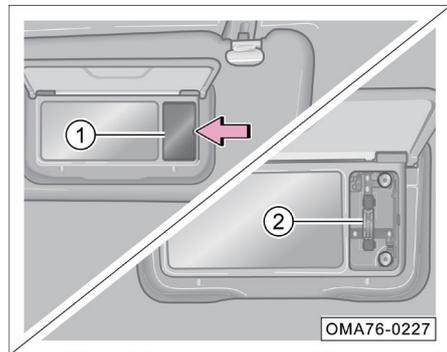
Replacing rear dome lamp bulb



1. Carefully pry off the lamp shade ① as arrowed.
2. Take out the rear dome lamp bulb ②.
3. Replace the original bulb with a new rear dome lamp bulb in the reverse order.

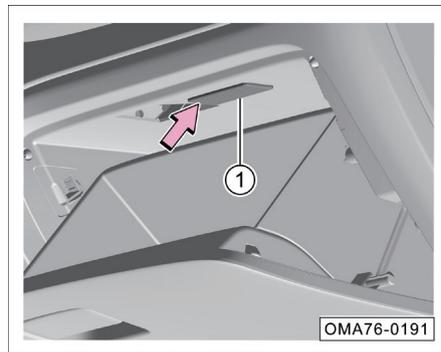
6. In-service maintenance

Replacing vanity mirror lamp bulb*

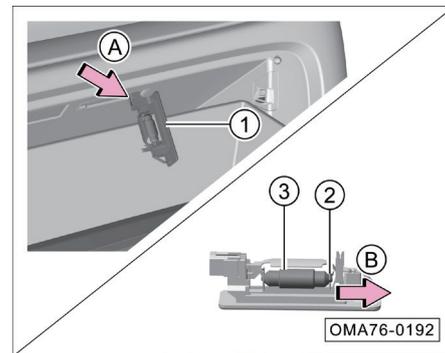


1. Carefully pry off the vanity mirror lamp shade ① as arrowed.
2. Take out the vanity mirror lamp bulb ②.
3. Replace the original bulb with a new vanity mirror lamp bulb in the reverse order.

Replacing glove box lamp*



1. Open the glove box.
2. Pry off the fixing clamp as arrowed of glove box, and take out the glove box lamp ①.



3. Disconnect the glove box connector (arrow A).
4. Take out the glove box lamp ①.
5. Push the metal clip ② in the direction of arrow B, and take out the glove box lamp bulb ③.
6. Replace the original bulb with a new glove box lamp bulb in the reverse order.

6.7 Wheels

WARNING

Within the first 500 km, the road adhesion of new tires is unlikely to reach the best condition. Therefore, the vehicle shall be driven carefully at a moderate speed to prevent accidents.

- Inadequate road adhesion of tires not subject to running-in period or excessively worn can directly affect the braking effect.
- If it is found that the vehicle is abnormally vibrating or deviating, stop the vehicle immediately and check whether the tires are damaged.
- If it is found that the tires are unevenly and excessively worn, please go to the GAC Motor authorized shop for inspection as soon as possible.

WARNING

If tires burst or leak when the vehicle is running, it is very easy to cause serious traffic accidents.

- Never use damaged tires and wheels, or use tires of which the treads have been worn to the wear indicators. Otherwise, it is very easy to cause an accident, because such tires may burst during driving, causing traffic accidents and injury. Such tires and wheels shall be replaced in time.
- The tire pressure must meet the regulations. Otherwise, it may cause an accident. If the tire pressure is insufficient, the continuous high-speed running of the vehicle will cause the tire to deflect, and the tire is extremely easy to overheat, which may cause tread separation or tire burst.
- Be careful not to expose the tires to chemicals, oil, grease, fuel and brake fluid.

WARNING

- Never use old wheels and tires of unknown origin under any circumstances. Although such wheels and tires do not have visible damage, they may have been damaged. During driving, they may cause the vehicle to lose control and lead to traffic accidents.
- It is not recommended to use recycled tires. For such tires, the carcass may degrade as the service time passes, and the durability may also be restrained, impairing the driving safety.

6. In-service maintenance

Precautions for wheel failure

- When driving over curbs or similar obstacles, keep a slow speed in the vertical direction of the obstacles as much as possible.
- Be careful not to let the tires contact with grease, oil and fuel.
- Regularly check the damage status of tires (i.e., splitting, abrasion, shedding, deformation or bulging).
- Regularly remove debris embedded in the grooves of the tire pattern.

Instructions for storing tires

- Before removing the tire, make a mark on the tire to indicate the rotation direction of the tire. Refit the tire according to the mark to ensure the rotation direction and the dynamic balance of the wheel are unchanged.
- Store the removed wheels or tires in a cool, dry place, and preferably in a dark place.
- The tire mounted on the rim must not be stored upright.

New tires and wheels

- Select the new tire and wheel carefully, and make sure that the dimensions, load range, rated speed and structure type of new tire are the same as those of original one.
- Replace at least two tires on the same axle at the same time, rather than only one tire individually.
- Do not use tires of different dimensions or types, and do not mix summer tires, all-season tires and winter tires in use.
- Once wheels are installed, check whether the tightening torque of the wheel bolts ($125\pm 10\text{Nm}$) meets the requirements.

Non-full-size spare tires*

Spare tires and standard tires are different in aspects such as structure, pattern, speed rating and load index, and cannot be exchanged.

After emergency use of the spare tire, it is necessary to drive safely to the GAC Motor authorized shop or the wheel repair shop as soon as possible to replace it with a standard tire, so as to avoid the hidden safety hazards of long-term use of the spare tire.

WARNING

- **Spare tires can only be used temporarily for emergency, and the maximum driving speed shall not exceed 80 km/h.**
- **The storage and service life of spare tires is 6 years. It is prohibited to use them beyond the time limit.**

Summer tires

Summer is a rainy season. The tire tread depth directly affects the driving safety in rainy days. In summer, when the tire tread depth is less than 3 mm, there is a high risk of water slippage.

Winter tires

Winter tires still have good grip performance when roads are covered with snow and ice. The specially designed rubber tread makes the tires less affected by low temperature environment and excellent braking ability, ensuring driving safety.

- Use winter tires on all the four wheels.
- It is recommended to use winter tires when driving in icy or snowy days in winter or when the temperature is below 7°C.
- Use only radial winter tires of same dimensions, load range and rated speed as original ones on this vehicle.

- Please note that the tread of winter tires shall have patterns deep enough (tread depth not less than 4 mm; otherwise, the applicability in winter will be limited).
- After installation of tires, check the tire inflation pressure.

WARNING

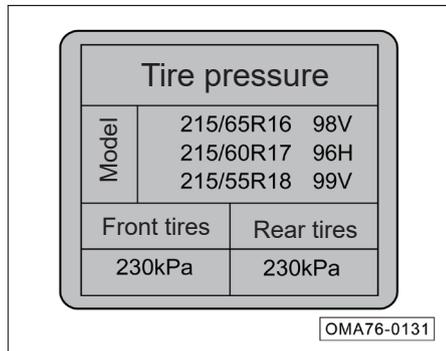
- **Winter and summer tires are designed according to their respective typical lane conditions under the corresponding seasonal conditions. It is recommended to use winter tires in winter. At low temperatures, the adaptability of summer tires is significantly poorer, thereby losing road adhesion and braking ability.**
- **If summer tires are used in severe cold conditions, cracks may appear on the tires, thereby completely damaging the tires, and causing excessive tire noise and loss of balance.**

WARNING

- **Winter tires may lead to decreased traction force of the vehicle on dry roads, increased road noise and shortened service life of tread. Please pay attention to the performance change of the vehicle in terms of maneuvering and braking after the winter tires are used.**
- **Please note that the maximum speed for winter tires is relatively low. Do not exceed the allowable maximum speed for the tires.**
- **Please note that please replace the winter tires with summer tires in time in order to ensure driving safety and performance when driving in the environment at the atmospheric temperature rising above 7°C.**
- **When driving with winter tires, if a spare tire is installed, unstable steering characteristics may occur due to different tires, weakening driving stability. In this case, driving styles need to be adjusted and driving shall be performed carefully.**

6. In-service maintenance

Inspecting tire pressure



The standard tire pressure data label of the original tire of this vehicle is attached to the B pillar on the driver's side.

- Check the tire pressure applicable to the vehicle from the data label (the listed pressure applies to both summer and winter tires).
- Unscrew the valve cap (if the valve cap is missing, a new one shall be provided in time).
- A high-quality tire pressure gauge is required to check the tire pressure. It is impossible to determine whether the tire pressure is appropriate only by visual inspection.
- Attach the tire pressure gauge to the valve.

- For inspection of tire pressure, the tire must be in a cold state. When the temperature increases, the tire pressure can be slightly higher than the specified value, and it is not necessary to reduce the tire pressure.
- Balance the weight of occupants and luggage, avoid slopes and adjust tire pressure according to vehicle load.
- Check the tire pressure of the spare wheel or emergency spare wheel at the same time.
- Install and tighten the valve cap.

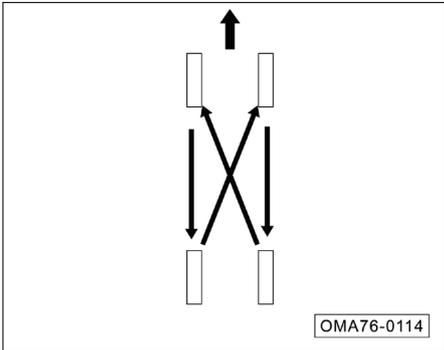
i NOTE

- The current tire pressure of the current wheel can be checked through the information on the instrument cluster display for this vehicle model.
- Be sure to refit the valve cap to the valve core. The valve cap can prevent dust and moisture from entering the tire.

⚠ WARNING

- **Abnormal tire pressure may cause tire burst, resulting in a traffic accident, injury or even death.**
- **Check the tire pressure at least once a month or before long-distance driving. The tire pressure must meet the specified requirements to prevent accidents.**
- **Insufficient tire pressure will exacerbate tire deflection, and tires are extremely prone to overheating, which may lead to tread separation and tire burst.**
- **Abnormal tire pressure, too low or too high, will cause early wear of tires and reduce the maneuvering stability of the vehicle.**

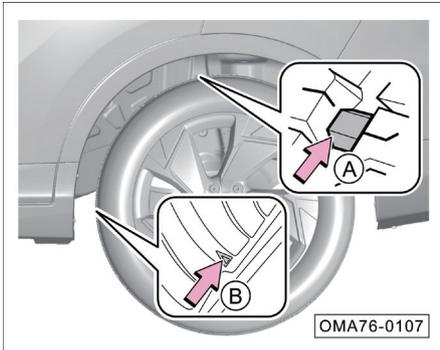
Service life of tires



Service life of tires depends on tire pressure, driving style and tire assembly conditions.

If the front tires are worn more serious than the rear tires, it is recommended to perform tire rotation for the front and rear wheels as shown, so as to make the service life of all tires about the same.

Tread wear indicator



The tread wear indicator (arrow A) is 1.6 mm high. If the tread pattern wears to the marked surface, the tire can no longer be used safely and must be replaced immediately.

The mark (arrow B) is used to indicate the wear condition of the tire outer circle pattern. If the tire outer circle pattern wears to the condition as shown, the tire can no longer be used safely and must be replaced immediately.

Wheel balance

The wheels of the new vehicle are already balanced. Due to various reasons, the wheels may go unbalanced during operation, which can be manifested by the vibration of the steering mechanism.

Because unbalanced wheels can cause excessive wear on the steering system, wheel suspension mechanism and tires, the wheels shall be rebalanced.

In addition, wheels must be rebalanced after installation of a new tire or tire repair for any wheel.

Wheel misalignment

Wheel misalignment will cause uneven and excessive wear of the tires, affecting driving safety. If uneven and excessive wear of the tires is found, please go to the GAC Motor authorized shop to check the wheel alignment as soon as possible.

6. In-service maintenance

6.8 Tire chain

In winter, driving in harsh environments such as snowy or icy roads can increase the degree of tire wear or cause other failures. To reduce failures in winter, the following opinions must be followed:

- When driving in deep snow, it is necessary to install tire chains on the tires. If so, be sure to choose an equivalent product whose size and type meet the specifications of the tires on the vehicle. Failure to do this will adversely affect the performance and safety of the vehicle. Moreover, operations such as full-load driving, speeding, emergency acceleration, emergency braking, and emergency turning are potentially dangerous.
- During deceleration, make full use of the engine braking function. Emergency braking on snowy or icy roads will cause the vehicle to drift and slip. Maintain an appropriate safety distance from the vehicle in front, depress the brake pedal slightly, and pay attention to that installing tire chains on the tires can increase certain friction force, but cannot prevent sideslip.

NOTE

Various countries and regions have different regulations on tire chains. Before assembling tire chains, please refer to the laws and regulations of the corresponding country and region. Do not install tire chains without understanding the laws and regulations of the corresponding country and region that may restrict the use of tire chains.

CAUTION

- For installation of tire chains on all tires, ensure that the vehicle can be driven in a balanced manner in all weathers. It shall be borne in mind that after installation of tire chains, the vehicle may be underpower. Even if the road surface is in good condition, drive carefully. While driving, neither exceed the specified speed limit of tire chains nor exceed 50 km/h, whichever is lower.

CAUTION

- If tire chains are installed on the tires, the size and type of tire chains shall be consistent with those of the standard tires of the vehicle. Otherwise, the driving safety and maneuvering of the vehicle will be adversely affected.
- Tire chains must be installed in pairs on the front wheels rather than on the rear wheels.
- Do not install the tire chain on an emergency spare tire. If a spare tire is installed on the front wheel and a tire chain is required, be sure to exchange the positions of the spare tire and the rear tire.
- Do not use tire chains on dry ground. After driving to snow-free roads, remove tire chains.
- After installing the tire chains as closely as possible to the front tires, drive 0.5~1.0 km, and then tighten the tire chains again.

6.9 Particulate filter*

Function of particulate filter

It is used to capture the particles from the exhaust gas to reduce the emitted particles, thus reducing air pollution.

Instructions for particulate filter indicator on:

- If the indicator lamp  on the instrument cluster lights up white and the message "Please run at high speed for regeneration" pops up, it indicates that the number of particles in the particulate filter has reached a certain load level and the user should perform particulate filter regeneration. It is recommended to drive at a vehicle speed above 80km/h for at least 30 minutes while keeping the engine running; if it fails, the indicator will continue to light up and the message will continue to be displayed as the particles accumulate further.
- If the indicator lamp  on the instrument cluster lights up yellow and the message "Please visit a 4S shop for maintenance" pops up, it indicates that the number of particles in the particulate filter is close to the upper limit and the user shall drive the vehicle to the GAC Motor authorized shop for maintenance.

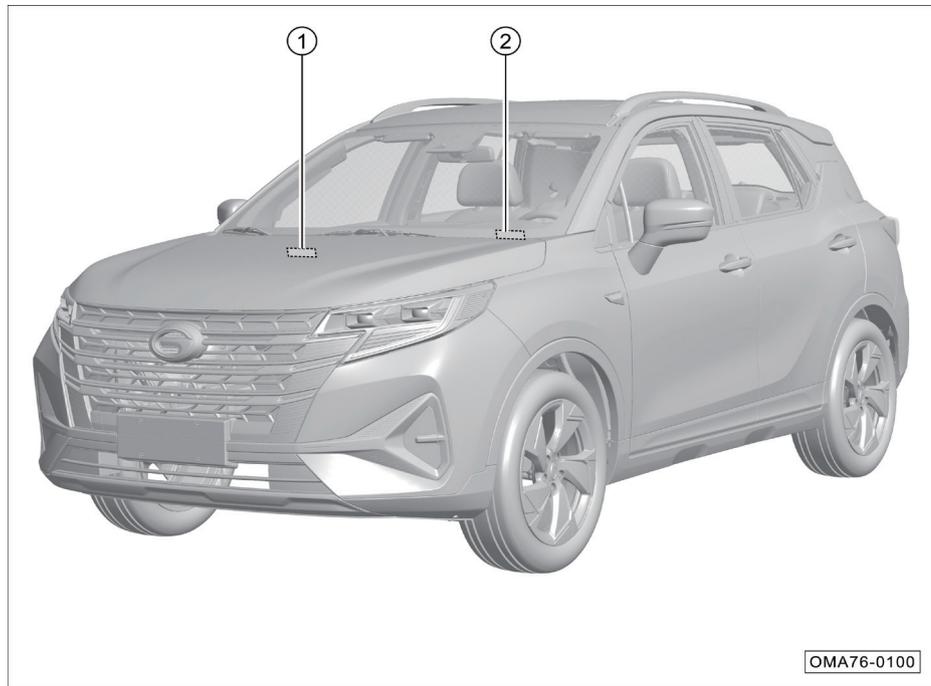
WARNING

If more and more particles accumulate in the particulate filter, it will cause the exhaust back pressure to rise and the fuel consumption to increase, which degrades the engine performance. Therefore, it is necessary to timely burn the particles via oxidization.

Ignoring the lit indicator of particulate filter and related warning description may cause the particulate filter to be overloaded and damaged.

7. Technical data

7.1 VIN



The locations of the vehicle identification number (VIN) is shown in the figure:

- ① VIN: located on the engine compartment partition.
- ② VIN: located on the left side of the instrument panel.

i NOTE

The position indication and quantity of vehicle identification number (VIN) are not complete. Please refer to the actual vehicle.

OMA76-0100

OBD DLC

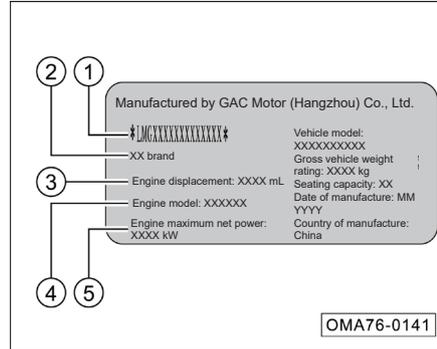


The OBD interface as arrowed for reading the electronic VIN is located at the lower left rear of the instrument panel. Data such as the electronic VIN and vehicle status information can be read through a special scan tool.

i NOTE

If you need to buy a scan tool, you can go to the GAC Motor authorized shop for consultation and purchase.

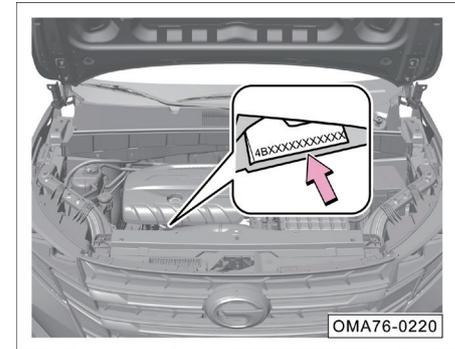
Vehicle nameplate



- ① VIN, vehicle model
- ② Brand, gross vehicle weight rating
- ③ Engine displacement, seating capacity
- ④ Engine model, date of manufacture
- ⑤ Maximum net power of engine, country of manufacture

Engine model and factory number

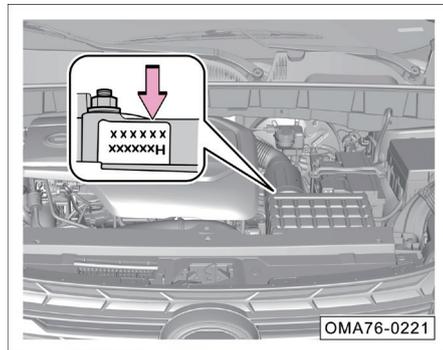
Applicable to models with 1.5T GDI



Engine model and factory number as arrowed are indicated on the engine block (next to the alternator).

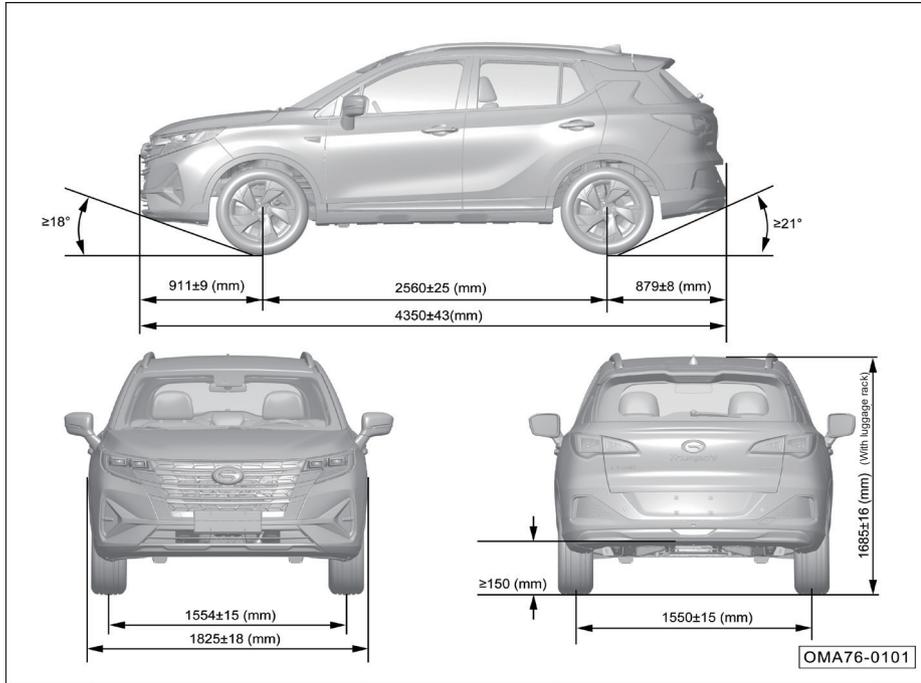
7. Technical data

Applicable to models with 1.5TM



Engine model and factory number as arrowed are indicated on the engine block (next to the transmission).

7.2 Dimensions & parameters of vehicle



Dimensions

Item	Parameters		
	Value	Unit	
Overall length	4350±43	mm	
Overall width	1825±18	mm	
Overall height	Without luggage rack	1660±16	mm
	With luggage rack	1685±16	
Wheelbase	2560±25	mm	
Wheel track	Front wheel	1554±15	mm
	Rear wheel	1550±15	
Front overhang	911±9	mm	
Rear overhang	879±8	mm	
Minimum ground clearance (full load)	≥150	mm	
Approach angle (full load)	≥18	°	
Departure angle (full load)	≥21	°	

7. Technical data

7.3 Vehicle mass & parameters of engine and fluids

Mass

Model		Kerb mass of vehicle (kg)			Gross vehicle weight rating (kg)		
		Kerb mass (kg)	Front axle load	Rear axle load	Gross vehicle weight rating	Front axle load	Rear axle load
GAH7150HBD6A	Base version	1328±39	824±24	504±15	1780	974	806
	Energy-saving version	1371±41	835±25	536±16			
GAH7150HCA6A		1392±41	857±25	535±16			
GAH7150HBM6A	Medium version	1347±40	813±24	534±16			
	Base version	1307±39	802±24	505±15			
	Energy-saving version	1361±40	819±24	542±16			

7. Technical data

Comprehensive parameters

Item	Performance parameter					Unit
	GAH7150HBD6A		GAH7150HCA6A	GAH7150HBM6A		
	Base version	Energy-saving version		Base version, medium version	Energy-saving version	
Seating capacity	5					Person
Minimum turning diameter	10.6					m
Maximum gradeability	≥40		≥35	≥40		%
Time required to accelerate from 0 km/h to 100 km/h after start	≥10.6		≥10	≥10.6		s
Maximum speed	180					km/h
Fuel consumption in urban driving cycle	≤8.0	≤7.9	≤8.9	≤7.6	≤7.4	L/100km
Fuel consumption in extra-urban driving cycle	≤5.0	≤4.9	≤5.1	≤5.2	≤5.0	L/100km
Fuel consumption in combined driving cycle	≤6.1	≤6.0	≤6.5	≤6.1	≤5.9	L/100km

7. Technical data

Parameters of engine

Model	3B15J1	4A15J1
Type	Gasoline engine, spark-ignition, in-line, three-cylinder, four-stroke, GDI, DOHC, exhaust gas turbocharging	Gasoline engine, spark-ignition, in-line, four-stroke, liquid-cooled, direct injection, DOHC, exhaust gas turbocharging
Number of cylinders	3	4
Ignition order	1-2-3	1-3-2-4
Bore (mm)	83	75
Travel (mm)	92	84.6
Displacement (mL)	1493	1495
Compression ratio	11.3:1	9.8:1
Rated power/speed (kW/(r/min))	120/5500	124/5000
Maximum net power/speed (kW/(r/min))	110/5500	117/5000
Maximum torque/speed (Nm/(r/min))	235/1500-4000	265/1700-4000
Maximum net torque/speed (N m/(r/min))	220/1500-4000	250/1700-4000
Stable idling speed (r/min)	900±50	700±50
Emission level	China VI	

Specifications and capacity of fuel/oil/fluid

Item		Specification	Capacity	
Fuel	-	92# and above high-quality unleaded gasoline ¹⁾	Total	48 L
Engine coolant ²⁾	1.5TM	Coolant: DF-6, -35°C	Total	7.0±0.1 L
	1.5T GDI		Total	7.2±0.1 L
Intercooler coolant	1.5TM	Coolant: DF-6, -35°C	Total	3.1±0.1 L
Engine oil:	1.5TM	Engine oil grade: SN and above	Total ³⁾	4.3±0.1 L
		Oil viscosity: SAE 0W-20	Change ⁴⁾	4.0 L
	1.5T GDI	Engine oil grade: SN and above	Total ³⁾	4.5±0.1L
		Oil viscosity: SAE 5W-30	Change ⁴⁾	4.0 L
MT gear oil	—	SAE75W/90 API GL-4	Total	2.1±0.1 L
ATF	—	AW - 1	Total	6.6±0.1 L
G-DCT transmission gear oil	—	SAE75W API GL-4	Total	2.0±0.1 L
Brake fluid	—	DOT4	Total	0.80±0.05 L
Brake fluid	—	DOT4	Total	0.80±0.05 L
Windshield washer fluid	—	44% methanol, and 56% water with hardness not more than 205 g/t	Total	1.5 L
A/C refrigerant	—	R134a	Total	470±25g

Note: 1) Long-term use of fuels with sulfur content higher than the standard value may result in excessive emissions. Please pay attention and use fuels that comply with local standards for vehicles.

- 2) Including the coolant in the expansion tank and the residual coolant in the engine.
- 3) The oil capacity for overhaul of engine assembly.
- 4) Including the oil capacity for replacement of oil filter.

7. Technical data

7.4 Specifications of transmission, chassis and bulb

Transmission parameters

Model	TF-71SC	6MF26E	C725
Type	Hydraulic automatic transmission, 6-speed	Manual, 6-speed	Dry double clutch, 7-speed
Final ratio	4.316	3.944	4.438
1st gear	4.044	3.833	4.133
2nd gear	2.371	2.045	2.368
3rd gear	1.556	1.323	1.519
4th gear	1.159	1.029	1.109
5th gear	0.852	0.825	0.922
6th gear	0.672	0.707	0.761
7th gear	—	—	0.608
Reverse gear	3.193	3.667	4.129

Wheels

Specifications of rim	6.5Jx17*, 7.0Jx18*	
Tire specification	215/60 R17*, 215/55 R18*	
Tire pressure	Front wheel	Rear wheel
	230kPa	230kPa
Specifications for spare tire	T155/90D16	
Pressure of spare tire	420kPa	

Note: The standard tire pressure data label of the original tire of this vehicle is attached under the B pillar on the driver's side.

7. Technical data

Suspension

Type	Front suspension	Rear suspension
	McPherson strut independent suspension	Twist-beam dependent suspension

Steering gear

Type	Rack and pinion
Power steering type	Electric power steering

Brake

Type	Vacuum booster, X-type hydraulic double circuit
Front wheel	Disc brake
Rear wheel	Disc brake
Parking brake	Electric park brake (EPB)*
	Mechanical parking brake system*

Dynamic balance of wheels

Designation		Residue dynamic unbalance
Front wheel	Inner side	≤ 8g
	Outer side	≤ 8g
Rear wheel	Inner side	≤ 8g
	Outer side	≤ 8g

Free travel of brake pedal

Designation	Parameters
Travel	≤115±5mm
Free travel	≤22.5±3mm

Technical parameters of brake linings

Designation	Parameters
Wear limit of front wheel brake lining (excluding the backplate of brake lining)	2mm
Wear limit of rear wheel brake lining (excluding the backplate of brake lining)	2mm

7. Technical data

Wheel alignment

Designation		Parameters
Front wheel	Individual toe-in	4'±3'
	Wheel camber	-21'±30'
	Kingpin caster angle	7°±45'
	Kingpin inclination angle	12°58'±45'
Rear wheel	Individual toe-in	3'±30'
	Wheel camber	-55'±30'

Battery

Parameters	Rated voltage	12 V
	Capacity at 20 hr	55 Ah
	Low temperature start current (EN)	530 A

Fuse

Instrument panel PDU	=> See page 238
Engine compartment PDU	=> See page 241

Lamps

Lamps		Model	Power
Front combination lamp	High/low beam integrated lamp (Halogen)*	HB3	60W
	Low beam*	LED	/
	High beam*	LED	/
	Daytime running lamp*	LED	/
	Front position lamp	LED	/
	Front turn signal lamp*	WY21W	21W
	Front turn signal lamp*	LED	/
	Integrated turn signal lamp of rearview mirror	LED	/
Front fog lamp*		LED	/
Rear fog lamp		P21W	21W
Rear combination lamp	Brake lamp	W21W	21W
	Rear position lamp	LED	/
	Rear turn signal lamp	WY16W	16W
	Reverse lamp	W16W	16W
License plate lamp		W5W	5W
High-mounted stop lamp		LED	/

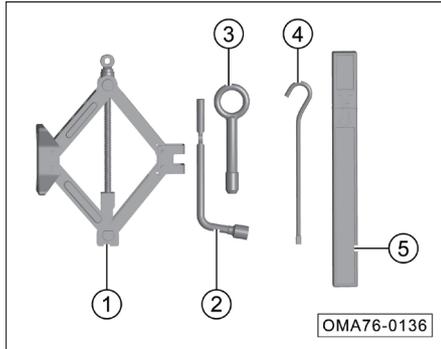
Lamps		Model	Power
Interior lamps	Front dome lamp	W8W	8W
	Rear dome lamp	C8W	8W
	Glove box lamp*	C5W	5W
	Sun visor vanity mirror lamp*	14V1CP	1.4W

For replacement of bulbs=> [See page 199](#), some bulbs are only suitable for certain models. Please refer to the actual vehicle configuration!

8. Accident handling

8.1 Driver's tools and spare tire*

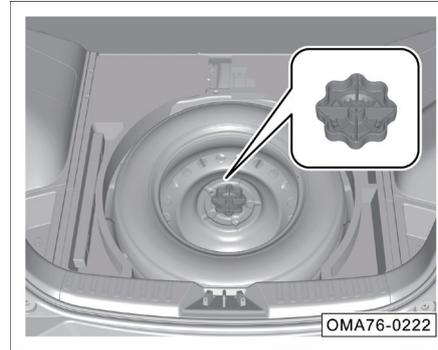
Driver's tools



The following tools are provided with this vehicle. After use, they shall be cleaned in time and placed in the tool kit.

- ① Jack*
- ② Wheel bolt removal wrench*
- ③ Towing hook
- ④ Special wrench for jack*
- ⑤ Warning triangle

Spare tire*



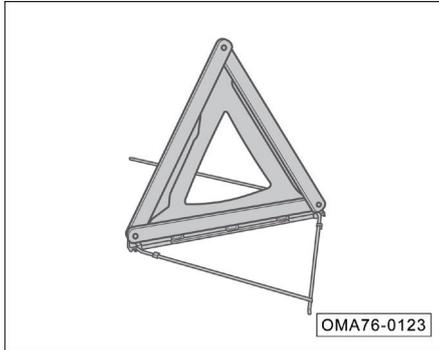
Remove the spare tire:

- Open the liftgate and take out the trunk carpet.
- Take out the driver's tool kit.
- Turn spare tire center handwheel and take out the spare tire.
- The spare tire has been inflated. Check its pressure regularly to ensure that it is at the specified maximum tire pressure, and perform multiple inspections every year.

WARNING

- The spare tire shall be used strictly in accordance with its use requirements to avoid danger.
- It is strictly prohibited to install and use more than 1 spare tire at the same time.
- It is forbidden to use spare tires that have been damaged or worn to the limit.
- The storage and service life of spare tires is 6 years. It is prohibited to use them beyond the time limit.
- After installing the spare tire, check the tire pressure as soon as possible to keep it within the specified range.
- The maximum speed of spare tires must not exceed 80 km/h, and sharp acceleration and emergency braking shall be avoided.

8.2 Use of warning triangle



- Open the liftgate.
- Lift up the trunk carpet.
- Take out the warning triangle and unfold it for use.

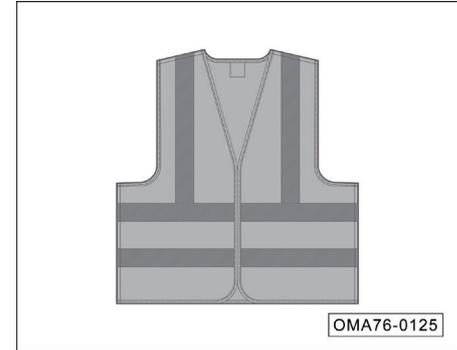
Placement distance

Ordinary highway		Expressway
Daytime	Night	
≥ 50 m	≥ 80m	≥ 150m

 **CAUTION**

The data above is for reference only.
Please place the warning triangle at the distance specified by traffic regulations.

8.3 Use of reflective vest



- If it is necessary to stop the vehicle due to an accident or other failures, take out the reflective vest from the glove box to put on it well before getting off the vehicle for checking and troubleshooting.

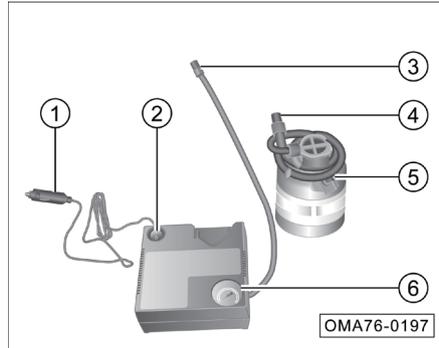
8. Accident handling

i NOTE

- While handling vehicle accidents, be sure to wear a reflective vest as required to attract the attention of passersby or other drivers regardless of the lighting conditions.
- After using the reflective vest, please store it in the glove box properly. If necessary, clean it according to the indication on the collar mark to maintain the reflective performance.

8.4 Inflator pump and tire sealer*

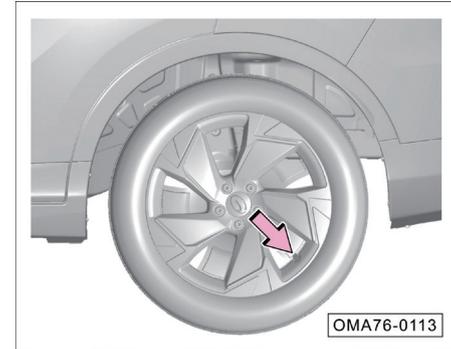
Inflator pump and tire sealer are used to rectify the faults such as tire leakage or low tire pressure caused by a nail in a tire.



- ① Plug
- ② Power button
- ③ Inflator tube
- ④ Sealer tube
- ⑤ Inflator tube fitting
- ⑥ Tire pressure gauge

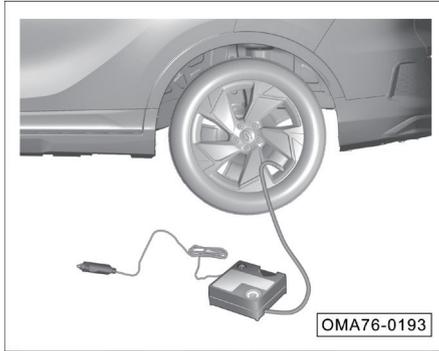
Inflator pump

Operate as follows while inflating a tire:

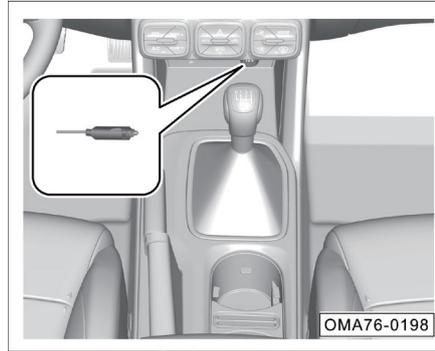


- Take out the automatic inflator pump from the trunk.
- Remove the tire valve cap.

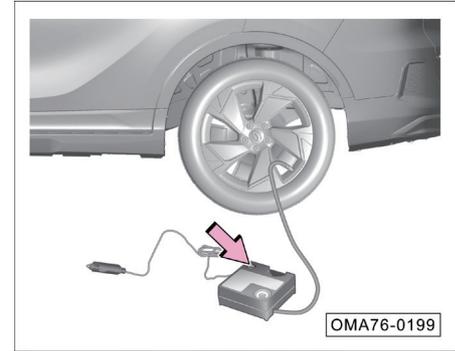
8. Accident handling



- Screw the fitting of the inflator pump into the tire valve, during which a slight air leak will be heard and it indicates that the air passage between the pump and tire has been established. In this case, go on screwing in the fitting.



- Pull out the trim cover of the 12V power supply, and insert the plug into the power outlet (12V) to start the vehicle.



- Press the power button to start to inflate the tire, and observe the change in the indicated pressure on the tire pressure gauge. When the indicated pressure reaches the standard pressure, cut off the power to stop inflating the tire.

i NOTE

The standard tire pressure label is attached to the B-pillar on the driver's side.

8. Accident handling

Tire sealer

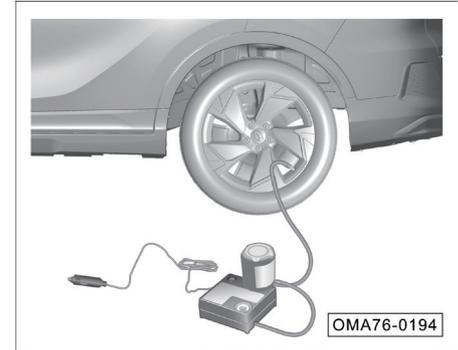
The tire sealer should be used as follows:



- Take out the inflator pump and the tire sealer from the trunk.
- Loosen the sealer tube from the tire sealer tank, push inwards the sealer tube horizontally with the sealer tube port aligned with the tire sealer tank bayonet on the inflator pump, and then connect the inflator tube to the tire sealer tank after the installation.

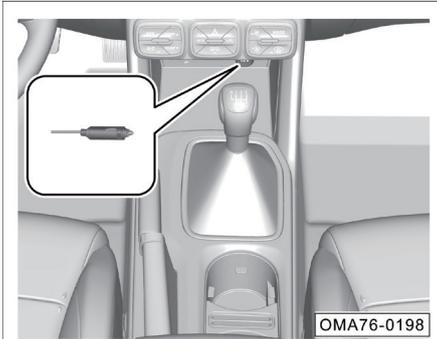
CAUTION

- The tire sealer should not be consumed nor be inhaled or swallowed. If it is accidentally ingested, go to a hospital immediately and do not induce vomiting.
- Protect your skin or eyes against the tire sealer; otherwise, it may cause irritation to your skin or eyes. If the tire sealer accidentally comes into contact with the skin, wash it thoroughly with water and soap; if the tire sealer accidentally enters an eye, immediately rinse the eye with clean water. If you feel unwell, seek medical attention immediately.

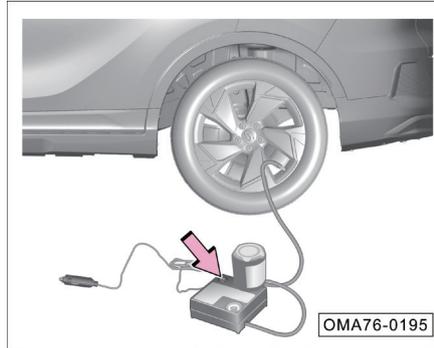


- Loosen the tire valve cap.
- Connect the sealer tube to the leaky tire.

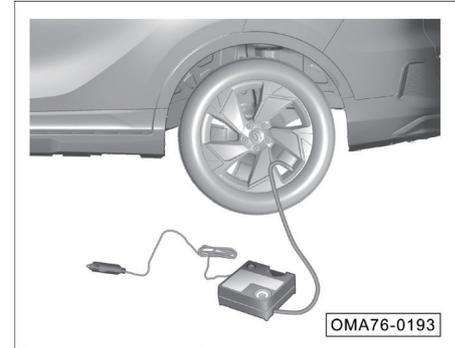
8. Accident handling



- Pull out the trim cover of the 12V power supply, and insert the plug into the power outlet (12V) to start the vehicle.



- Press the power button so that the sealer is injected into the tire. The pressure indicated on the tire pressure gauge first rises above 4bar and then slowly drops to the pressure under the flat tire state. In this case, observe the change in the indicated pressure on the tire pressure gauge. When the indicated pressure reaches the standard pressure, cut off the power.
- Disconnect the sealer tube, the inflator tube and the plug in turn, and put them back to the original position.
- Start the vehicle and drive it at a speed lower than 30km/h for 3-5km.



- Park the vehicle in a safe place, and connect the inflator tube to the tire again.
- Check the pressure indicated on the tire pressure gauge for change. If it decreases significantly, inflate the tire. And then drive the vehicle for another 3-5km and check the tire pressure. If the tire pressure still decrease significantly, it indicates that the tire is seriously damaged, go to the GAC Motor authorized shop for overhaul as soon as possible.

8. Accident handling

WARNING

- When the tire has been repaired with the tire sealer, go to the GAC Motor authorized shop for overhaul or go to a professional tire repair shop for repair as soon as possible.
- Do not drive the vehicle at a speed higher than 80km/h when the tire has been repaired with the tire sealer.

8.5 Replacing flat tires

Preparations

- Apply the parking brake.
- AT models: Set the gearshift lever to the "P" position.
- MT models: Set the gearshift lever to the 1st gear.
- Set the ignition switch to the "OFF" position, and turn on the hazard warning lamp.
- Place a warning triangle in a suitable position behind the vehicle.
- Find a suitable object to wedge the wheel in the diagonal position of the one to be replaced to prevent the vehicle from moving.
- Take out the driver's tools and the spare tire.

WARNING

- Relevant regulations must be strictly followed.
- All occupants must leave the vehicle and wait in a safe place.

Unscrewing the wheel bolts

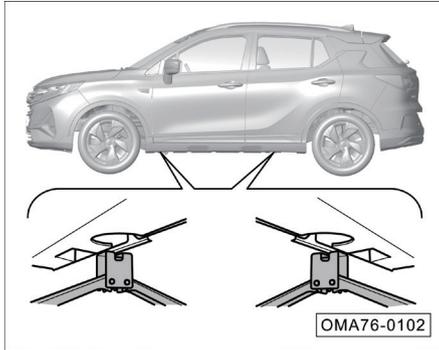


Set the wheel bolt removal wrench firmly on a wheel bolt, and unscrew the wheel bolt counterclockwise.

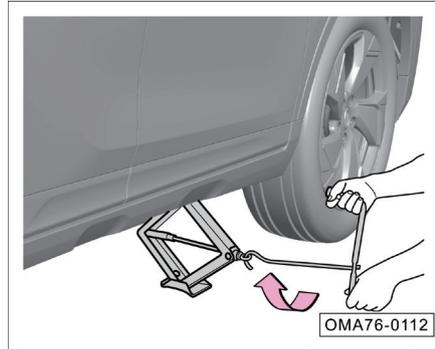
CAUTION

Loosen the wheel bolts just one turn before lifting the vehicle. After lifting the vehicle, unscrew the wheel bolts completely, and then remove the flat tire.

Lifting the vehicle



- Place the jack directly under the spine closest to the flat tire.
- Extend the jack high to ensure that the groove of the jack can engage with the spine.
- Check whether the jack is stable and tightly attached to the ground.



- Assemble the wheel bolt removal wrench, the special wrench for jack and the jack.
- Extend the jack clockwise to lift the vehicle and lift the tire off the ground.

WARNING

Improper use of jacks will cause serious injury.

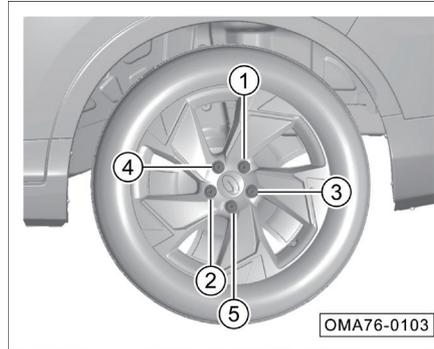
- Jack shall be used on hard and level ground.
- Strictly observe the precautions for jack operation.
- If a trailer is connected to the vehicle, the trailer must be separated from the vehicle.
- Observe the status of the vehicle continuously during the lifting. If the vehicle body is noticeably tilted, stop the lifting, identify the problem, and then lift the vehicle after solving the problem.

8. Accident handling

WARNING

- The jack on the vehicle can only be used to lift the vehicle rather than other heavy objects or vehicles.
- While using the jack, do not start the engine; otherwise an accident may occur.
- While lifting the vehicle with a jack, remember not to place any part of your body under the vehicle to avoid accidents.
- If it is required to work under the vehicle, be sure to place a suitable protective support under the vehicle.

Installing spare tire



- Install the spare tire to the vehicle.
- Install all the wheel bolts, and pre-tighten them using the wheel bolt removal wrench in the order of 1~5 as shown.
- Give a verbal alert to confirm that nobody is around the vehicle, and then rotate the jack wrench counterclockwise to lower the vehicle.
- Tighten all wheel bolts using the wheel bolt removal wrench.
- In order to avoid the noise of the vehicle during driving later on, please remember the locations of various tools, put them back in place after use and fix them.

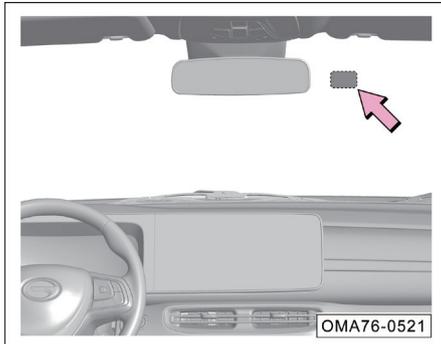
CAUTION

After installing the wheel, please go to the GAC Motor authorized shop in time to check the tightening torque of the wheel bolts ($125\pm 10\text{Nm}$). Otherwise, the bolts may loosen while the vehicle is running, easily causing traffic accidents.

WARNING

- The thread on the wheel bolt and the hub must be kept clean and free from adherent matters such as grease so that the bolt is easy to tighten.
- For replacement of a tire, if the bolts are rusted or difficult to be tightened, they must be replaced and the thread hole cleaned.
- When the spare tire is not in use, it must be securely fixed in the place where the spare tire is mounted.

8.6 Microwave window



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

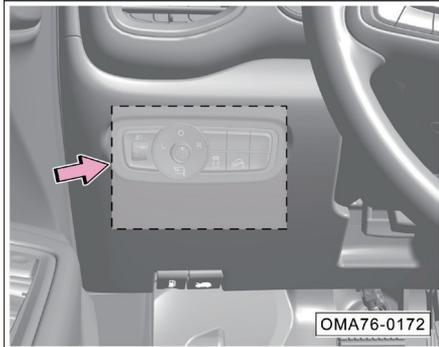
i NOTE

The microwave window can be used for installation of ETC card.

8. Accident handling

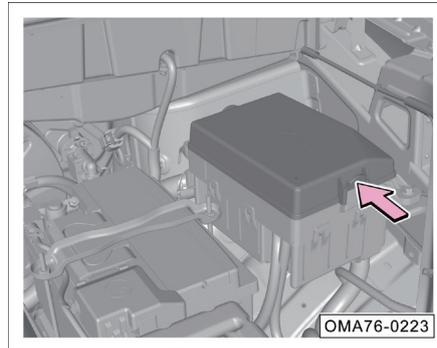
8.7 Fuse

Instrument panel PDU



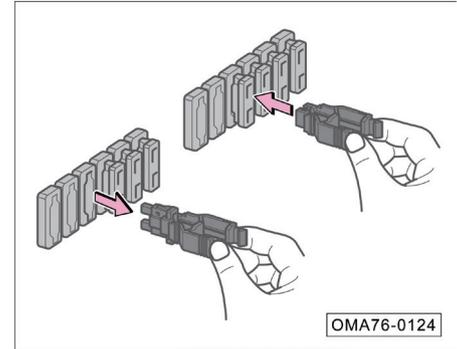
Instrument panel PDU is installed inside the left instrument panel as arrowed.

Engine compartment power distribution unit (PDU)



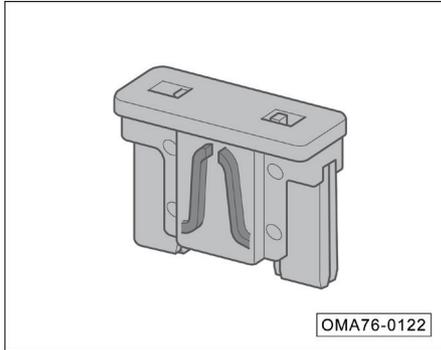
- Open the engine hood.
- Press the fixing clip in the direction of arrow to release the cover of the PDU.
- The fuse above the engine compartment PDU is exposed when the cover of the PDU is removed.

Replacing fuse



- Remove or install the fuse using the fuse puller in the engine compartment PDU.

Blown fuse



- If the fuse has blown, it is recommended to replace it at a GAC Motor authorized shop.

NOTE

- Some electrical consumers may be equipped with multiple fuses each, or multiple electrical consumers may share a single fuse.
- If it is necessary to check or replace a fuse in the instrument panel PDU, the operation procedures to remove the required parts are complicated. In this case, please go to the GAC Motor authorized shop for inspection and replacement in order not to cause unnecessary damage to the parts.

CAUTION

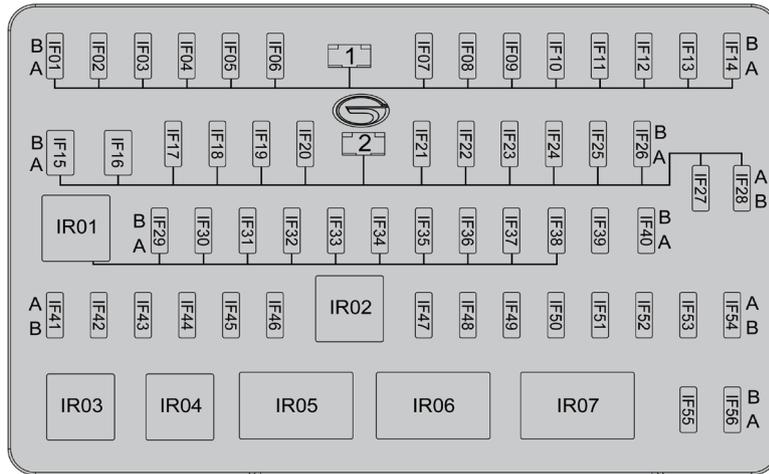
- All electrical consumers must be turned off before replacement of fuses.
- If it is required to replace the fuse, please consult the GAC Motor authorized shop.

WARNING

- Fuses must not be reused.
- Do not use a fuse with rated current higher than the specified value; otherwise other components of the electrical system will be damaged.
- Using an inappropriate or repaired fuse will cause a short circuit or even a fire.
- The color and logo of the replaced fuse must be exactly the same as the original one.
- Never replace a fuse with metal sheets, clips, etc.
- The PDU must be kept clean inside. Pay attention to protection against moisture.

8. Accident handling

8.7.1 Fuses in instrument panel PDU



The fuses may slightly vary from vehicle to vehicle. In this regard, the actual vehicle shall prevail.

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8. Accident handling

No.	Rated value	Feature/component
IF01	—	—
IF02	20A	Electric adjustment of left front seat*
IF03	15A	Power sunroof ECU*
IF04	—	—
IF05	—	—
IF06	—	—
IF07	30A	BCM (front right window regulator)/BCM (rear right window regulator)
IF08	30A	BCM (front left window regulator)/BCM (rear left window regulator)
IF09	—	—
IF10	—	—
IF11	15A	BCM (windshield washer and rear wiper motor)
IF12	10A	Rearview mirror folding*
IF13	—	—
IF14	15A	IG2 relay*
IF15	—	—
IF16	30A	Instrument panel PDU
IF17	7.5A	OBD DLC
IF18	20A	BCM (main lamps)

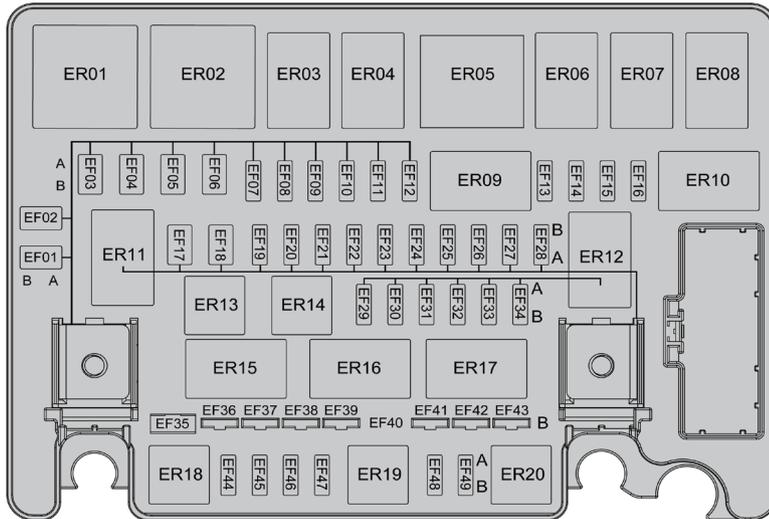
No.	Rated value	Feature/component
IF19	7.5A	GWM/PEPS ECU*
IF20	—	—
IF21	10A	BCM (turn signal lamp)
IF22	—	—
IF23	7.5A	Ignition switch*/PEPS ECU*
IF24	20A	BCM (main lamps)
IF25	7.5A	High-mounted stop lamp
IF26	20A	BCM (door lock)
IF27	—	—
IF28	SHUNT	Shorting link
IF29	10A	SRS ECU
IF30	7.5A	1.5T_GDI ECM*/G-DCT TCU*/6AT TCU*/1.5TM ECM*
IF31	7.5A	GWM/BCM/PEPS ECU*
IF32	—	—
IF33	7.5A	SAS/electric power steering control unit/6AT GSM*/G-DCT GSM*
IF34	7.5A	ESPI/brake switch
IF35	7.5A	ACU/T-BOX ECU*/instrument cluster
IF36	25A	Ignition switch*

8. Accident handling

No.	Rated value	Feature/component
IF37	7.5A	Left front combination lamp (leveling motor)*/right front combination lamp (leveling motor)*/ALS switch*/RPA ECU *
IF38	7.5A	Power sunroof ECU*/LDW ECU*/Seat heater*/HCP/HVAC control unit/negative ion generator
IF39	15A	6AT TCU*
IF40	20A	ACU
IF41	7.5A	BCM/PEPS ECU*/G-DCT TCU*
IF42	7.5A	USB 5V power supply
IF43	—	—
IF44	7.5A	ACU/rearview mirror adjusting switch
IF45	—	—
IF46	20A	Cigarette lighter
IF47	—	—
IF48	7.5A	PEPS ECU*
IF49	7.5A	Defogger relay/blower relay
IF50	7.5A	Ignition switch*/PEPS ECU*/BCM/G-DCT TCU*/1.5T_GDI ECM*/1.5TM ECM*
IF51	7.5A	T-BOX ECU*
IF52	7.5A	HVAC control unit

No.	Rated value	Feature/component
IF53	—	—
IF54	7.5A	LDW ECU*/EPB switch*/ G-DCT GSM*
IF55	15A	BCM
IF56	7.5A	HCP/instrument cluster/AV display
IR01	—	IG1 relay
IR02	—	IG2 relay
IR03	—	—
IR04	—	—
IR05	—	ACC relay
IR06	—	Rearview mirror folding relay*
IR07	—	Rearview mirror unfolding relay*

8.7.2 Fuses in engine compartment PDU



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The fuses may slightly vary from vehicle to vehicle. In this regard, the actual vehicle shall prevail.

8. Accident handling

No.	Rated value	Feature/component
EF01	50A	Low speed fan relay
EF02	50A	High speed fan relay 2
EF03	—	—
EF04	—	—
EF05	—	—
EF06	40A	ESPI
EF07	7.5A	A/C compressor
EF08	30A	IG1 relay
EF09	—	—
EF10	20A	Seat heater*
EF11	—	—
EF12	—	—
EF13	15A	Left front low beam
EF14	15A	Right front low beam
EF15	7.5A	1.5TM ECM*/1.5T_GDI ECM*
EF16	7.5A	Rearview mirror heater*
EF17	40A	G-DCT control unit*
EF18	30A	ACC relay*/ignition switch*
EF19	7.5A	Brake switch/low beam relay/main relay/wiper speed control relay/wiper relay

No.	Rated value	Feature/component
EF20	—	—
EF21	—	—
EF22	—	—
EF23	15A	Fuel pump
EF24	20A	Wiper
EF25	7.5A	G-DCT TCU*/1.5T_GDI ECM*/1.5TM ECM*
EF26	15A	Horn relay/horn
EF27	10A	G-DCT control unit*
EF28	15A	High beam relay/left front high beam/right front high beam
EF29	10A	Electronic water pump*
EF30	10A	VCT (exhaust)/VCT (intake)/canister solenoid valve/oil pump solenoid valve/clutch position sensor*/CSV/relief valve/waste gate
EF31	10A	Downstream oxygen sensor/upstream oxygen sensor
EF32	15A	1.5T_GDI ECM*/1.5TM ECM*
EF33	15A	Ignition coil 1/ignition coil 2/ignition coil 3/ignition coil 4
EF34	7.5A	Compressor relay/starter relay 1/high speed fan relay 2/starter relay 2/low speed fan relay/fuel pump relay/high speed fan relay 1

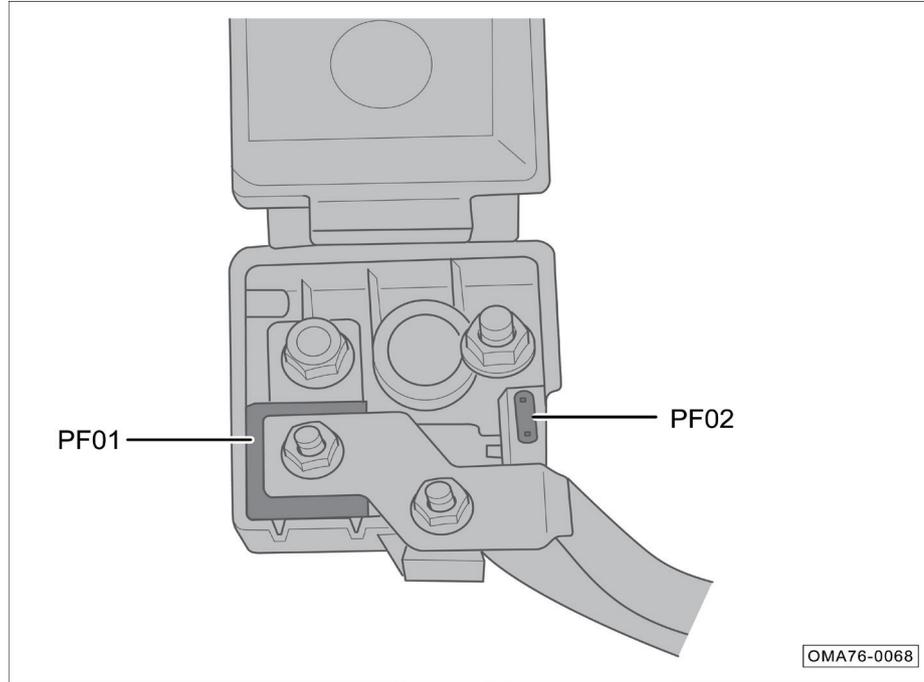
8. Accident handling

No.	Rated value	Feature/component
EF35	80A	EPS ECU
EF36	—	—
EF37	40A	Blower
EF38	40A	ESPI
EF39	40A	Rear windshield defogger heater/rearview mirror heater*
EF40	150A	Main fuse
EF41	30A	Starter relay 1/ignition switch*
EF42	50A	Instrument panel PDU
EF43	50A	Instrument panel PDU
EF44	—	—
EF45	—	—
EF46	—	—
EF47	—	—
EF48	—	—
EF49	—	—
ER01	—	Low speed fan relay
ER02	—	High speed fan relay 2
ER03	—	Fuel pump relay
ER04	—	—

No.	Rated value	Feature/component
ER05	—	High speed fan relay 1
ER06	—	Wiper speed control relay
ER07	—	Wiper relay
ER08	—	High beam relay
ER09	—	Defogger relay
ER10	—	Blower relay
ER11	—	Low beam relay
ER12	—	Main relay
ER13	—	Compressor relay
ER14	—	—
ER15	—	Starter relay 1
ER16	—	Starter relay 2
ER17	—	—
ER18	—	—
ER19	—	Horn relay
ER20	—	—

8. Accident handling

8.7.3 Fuses in battery PDU



The picture is not guaranteed to be suitable for all vehicle models. If it is required to know the purpose of the fuse, please check it on the actual vehicle. The fuses may slightly vary from vehicle to vehicle.

No.	Rated value	Feature/component
PF01	300A	Starter/engine compartment PDU
PF02	7.5A	EBS

8.8 Emergency start

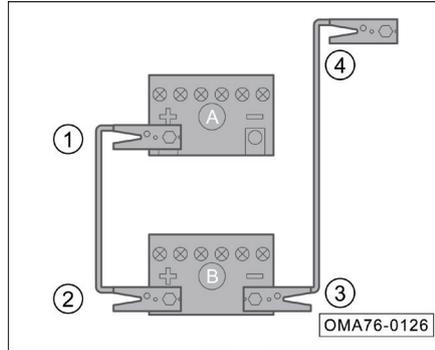
Jumper cable

If the engine cannot start because the battery is too low, it can be started by connecting this battery to the battery of another vehicle a jumper cable.

WARNING

- The engine compartment is a high-risk area. Improper operation can easily cause casualties.
- Before starting work on the battery, be sure to carefully read and follow the warning instructions for safety related to battery operation.

While connecting the batteries of two vehicles, be sure to first connect the positive terminal and then the negative terminal.



- Set the ignition switch to the "OFF" position.
- Connect end ① of the red cable to the positive terminal (+) of the depleted battery "A", and end ② to the positive terminal (+) of the power battery "B".

- Connect end ③ of the black cable to the negative pole (-) of the power battery "B", and connect end ④ to the engine block or a metal part firmly connected to the engine block of the vehicle with the depleted battery "A".

CAUTION

Properly place the jumper cable to avoid contact between the cable and the moving parts of the engine.

- Start the engine of the vehicle with power battery and let it idle. Then, start the engine of the vehicle with the depleted battery till the engine runs smoothly.

8. Accident handling

WARNING

- Be sure to turn off the headlamps before removing the jumper cables.
- Turn on the blower and rear windshield heater of the vehicle with the depleted battery to reduce the voltage peak generated when the cable is being removed.
- Remove the jumper cables with the engine running in the reverse order.

WARNING

Improper use of jumper cables may cause battery explosion and serious injury.

- The voltage of the power battery must be the same as that of the depleted battery, and the capacities of the two batteries shall also be the same. Otherwise, it may cause an explosion.
- Never expose the battery to an open flame, for fear of an explosion.
- Never connect the negative cable directly to the negative terminal of a depleted battery. There shall be no static electricity near the battery. Otherwise, the combustible gas produced by the battery may be ignited by sparks, causing an explosion accident.
- Never connect the negative cable to a fuel system component or a brake line. Never lean over the battery during operation. Be careful not to get burned by acid.

8.9 Vehicle towing

If the vehicle needs to be towed, it shall be towed by the GAC Motor authorized shop or a professional towing company.

It is recommended to use a rollback tow truck for towing. If the conditions cannot be met, a wheel-lift truck can also be used for towing the vehicle as appropriate.

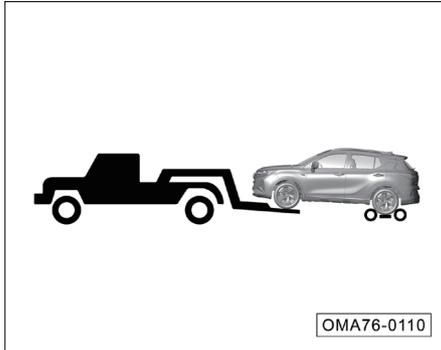
Being towed by a rollback tow truck



OMA76-0108

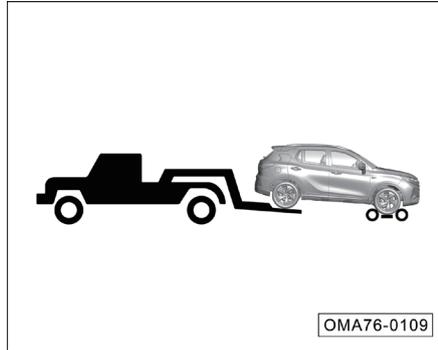
8. Accident handling

Being towed by a wheel-lift truck from the front



- Place a dolly under the rear wheels.

Being towed by a wheel-lift truck from the rear



- Place a dolly under the front wheels.

Emergency towing

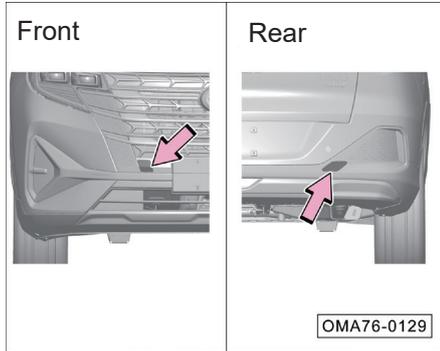
If it is impossible to find a tow truck in an emergency, fasten the towing cable or towing chain in the emergency towing ring to temporarily tow the vehicle. However, this method is only suitable for low speed and short distance towing on a solid and flat road.

WARNING

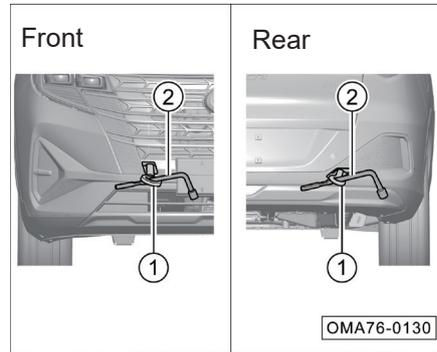
In emergency towing, drive slowly to avoid violent operation. Excessive towing force will damage the vehicle.

8. Accident handling

Installing a towing hook



- Pry off the towing hook cover in the arrowed position using a slotted screwdriver wrapped with a cloth.



- Take out the towing hook ① and wheel bolt removal wrench ② from the tool kit in the trunk.
- Screw the towing hook ① clockwise into the thread hole.
- Insert the wheel bolt removal wrench ② into the round opening of the towing hook, and turn the wheel bolt removal wrench clockwise to make the towing hook be firmly screwed into the thread hole.

i NOTE

Some models are not provided with the wheel bolt removal wrench, so other suitable fasteners should be used for fastening in this case.

Precautions for towing

Before emergency towing, be sure to follow the instructions below:

- Hazard warning lamps of both towing and towed vehicles must be turned on, and local traffic regulations must be complied with.
- The towing hook must be firmly tightened in the thread hole. Otherwise, the towing hook may slip out of the thread hole during towing.
- The towed vehicle must be shifted into "N" (AT models) or "N" (MT models).
- For the towed vehicle, set the ignition switch to the "ON" position and turn the steering wheel back and forth to confirm that the steering wheel can be turned.

During the emergency towing, be sure to follow the instructions below:

- Start the engine and drive at a slow speed till the towing rope is tight and then accelerate the vehicle slowly.
- Be sure to drive steadily and avoid sharp acceleration, sharp deceleration or abrupt turning.
- During towing, the towed vehicle shall be braked earlier than in normal conditions with the brake pedal lightly depressed.
- During towing, the towing rope must always be in a tight state.

8.10 Getting out of a trap

If the vehicle is stuck on a soft road such as sandy, muddy or snowy road, follow the steps below to get out of a trap:

1. Observe the areas in front of and behind the vehicle to ensure that there are no obstacles.
2. Turn the steering wheel to the left and to the right to grind areas around the front wheels to remove mud, snow or sand trapped around the tires.
3. Place wooden blocks, stones or other materials to help increase tire friction.
4. Start the engine and accelerate the vehicle slowly to get the vehicle out of the pit.
5. If the vehicle still cannot get out of the trap after attempts for several times, it is required to have a tow truck for rescue.

i NOTE

In the acceleration process, human assistance can be provided to push the vehicle from the front and rear for driving the vehicle out of the trap.

9 Environmental protection information

9.1 Environmental protection information code

No.	Type	Environmental protection information code	No.
1	GAH7150HBM6A	CN QQ G6 Z2 008U000012	000001
			000002
			000003
2	GAH7150HBD6A	CN QQ G6 Z2 008U000013	000001
			000002
3	GAH7150HCA6A	CN QQ G6 Z2 008U000014	000001
			000002
			000003

9 Environmental protection information

9.2 Environmental protection information

Environmental protection information	Type
Vehicle model	GAH7150HBM6A
Engine model/manufacturer	3B15J1/Guangzhou Qisheng Powertrain Co., Ltd.
Catalytic converter model/manufacturer	Front: 2099296X/front: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd. Rear: 2099296X/rear: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd.
Painting/carrier/packaging manufacturer	Painting: Front: unit 1: BASF Catalysts (Shanghai) Co. Ltd./Rear: unit 1: BASF Catalysts (Shanghai) Co. Ltd. Carrier: Front: unit 1: NGK AUTOMOTIVE CERAMICS (Suzhou)/Rear: unit 1: Corning (Shanghai) Co., Ltd. Packaging: Front: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd./Rear: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd.
Particulate filter model/manufacturer	/
Painting/carrier/packaging manufacturer	/
Canister model/manufacturer	2140003ADU00/Langfang Huaan Automotive Equipment Co., Ltd.
Oxygen sensor model/manufacturer	Front: ZFAS; Rear: LSF4/Front: CHANGSHU NGK SPARK PLUG CO., LTD.; Rear: UAES
Crankcase emission control device model/manufacturer	10030271560000/MAHLE Guangzhou Filter Systems Co., Ltd.
EGR model/manufacturer	/
OBD system supplier	UAES
ECU model/manufacturer	UD8/UAES
Transmission type/gear number	Manual/6
Muffler model/manufacturer	1-stage: 2439940X; 2-stage: 2439950X/Faurecia (Zhejiang) Automotive Systems Co., Ltd.
Turbocharger model/manufacturer	MGTB14Z/Honeywell Turbo Technologies (Wuhan) Co., Ltd.
Intercooler type	Air-to-water

9 Environmental protection information

Environmental protection information	Type
Vehicle model	GAH7150HBD6A
Engine model/manufacture	3B15J1/Guangzhou Qisheng Powertrain Co., Ltd.
Catalytic converter model/manufacture	Front: 2099296X/front: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd. Rear: 2099296X/rear: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd.
Painting/carrier/packaging manufacturer	Painting: Front: unit 1: BASF Catalysts (Shanghai) Co. Ltd./Rear: unit 1: BASF Catalysts (Shanghai) Co. Ltd. Carrier: Front: unit 1: NGK AUTOMOTIVE CERAMICS (Suzhou)/Rear: unit 1: Corning (Shanghai) Co., Ltd. Packaging: Front: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd./Rear: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd.
Particulate filter model/manufacture	/
Painting/carrier/packaging manufacturer	/
Canister model/manufacture	2140003ADU00/Langfang Huaan Automotive Equipment Co., Ltd.
Oxygen sensor model/manufacture	Front: ZFAS; Rear: LSF4/Front: CHANGSHU NGK SPARK PLUG CO., LTD.; Rear: UAES
Crankcase emission control device model/manufacture	10030271560000/MAHLE Guangzhou Filter Systems Co., Ltd.
EGR model/manufacture	/
OBD system supplier	UAES
ECU model/manufacture	UD8/UAES
Transmission type/gear number	Automatic/7
Muffler model/manufacture	1-stage: 2439940X; 2-stage: 2439950X/Faurecia (Zhejiang) Automotive Systems Co., Ltd.
Turbocharger model/manufacture	MGTB14Z/Honeywell Turbo Technologies (Wuhan) Co., Ltd.
Intercooler type	Air-to-water

9 Environmental protection information

Environmental protection information	Type
Vehicle model	GAH7150HCA6A
Engine model/manufacture	4A15J1/Guangzhou Qisheng Powertrain Co., Ltd.
Catalytic converter model/manufacture	Front: 2537501X/front: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd. Rear: 2730270X/rear: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd.
Painting/carrier/packaging manufacturer	Painting: Front: unit 1: Wuxi Weifu Environmental Catalysts Co., Ltd.; Rear: unit 1: Johnson Matthey (Shanghai) Chemical Co., Ltd. Carrier: Front: unit 1: Corning (Shanghai) Co., Ltd.; Rear: unit 1: NGK AUTOMOTIVE CERAMICS (Suzhou) Packaging: Front: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd./Rear: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd.
Particulate filter model/manufacture	Rear: 2730270X/rear: Sanshui Branch of Faurecia (Guangzhou) Automotive Systems Co., Ltd.
Painting/carrier/packaging manufacturer	Rear: unit 1: Johnson Matthey (Shanghai) Chemical Co., Ltd./Rear: unit 1: NGK AUTOMOTIVE CERAMICS (Suzhou)
Canister model/manufacture	2140003ADU00/Langfang Huaan Automotive Equipment Co., Ltd.
Oxygen sensor model/manufacture	Front: LSU ADV; Rear: LSF4/UAES
Crankcase emission control device model/ manufacturer	10090082040000/Shentong Technology Group Co., Ltd.
EGR model/manufacture	/
OBD system supplier	UAES
ECU model/manufacture	MED17/UAES
Transmission type/gear number	Automatic/6
Muffler model/manufacture	Front: 3160870; Rear: 3160773/Faurecia (Zhejiang) Automotive Systems Co., Ltd.
Turbocharger model/manufacture	KP39/Borgwarner Automotive Components (Ningbo) Co., Ltd.
Intercooler type	Air-to-air

This manual describes related information of entire GAC Motor series, including their configuration, functions, performance parameters and product schematic diagrams. Its content is valid when allowed to be printed. However, the actual configuration and function of the vehicles are subject to the specific vehicles delivered. If there is any difference between the schematic diagrams and the specific vehicle delivered, the actual vehicle shall prevail.

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For operation guidelines of GS3 POWER model, please refer to:

<https://www.gacmotor.com/service/manual>