



2023.12



Driving Guide

EMKOO
EMKOO·Hybrid

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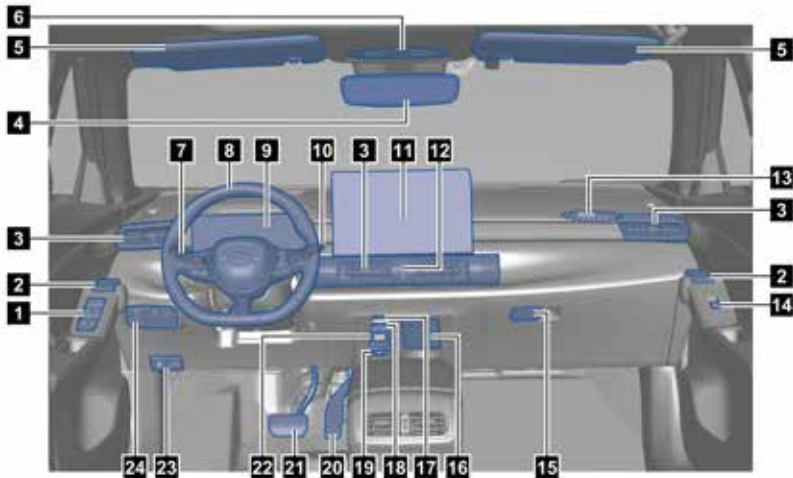
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Some functions and pictures described herein are only applicable to certain models, rather than your vehicle. In this regard, the actual vehicle shall prevail.

Some descriptions in this manual with a symbol “*” mean that the descriptions are only applicable to the optional/special configurations of certain vehicle models. In this regard, the actual vehicle shall prevail.

Cab overview

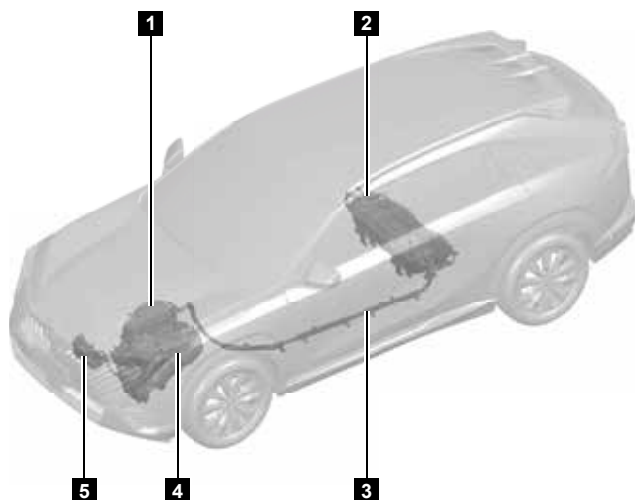


1. Driver's power window control button
 - Central locking button
 - Electronic child safety lock button*
2. Door inside handle
3. A/C air outlet
4. Interior rearview mirror
5. Sun visor
6. Front dome lamp
 - Electric sunshade control button*
 - Emergency call button*
7. Lamplight combination switch
8. Steering wheel
 - Buttons on steering wheel
 - Driver's frontal airbag
9. Instrument cluster
 - Indicator lamp
10. Wiper combination switch
11. AV system display
12. HCP
13. Front passenger's frontal airbag
14. Passenger's power window button
15. Glove box opening handle
16. Instrument panel front storage compartment
 - Mobile phone wireless charging area*
17. Hazard warning lamp switch
18. ENGINE START/STOP button
19. EPB button
20. Accelerator pedal
21. Brake pedal
22. Gearshift lever
23. Engine hood release handle
 - Fuel tank flap opening handle
24. Instrument panel left switch block:
 - Manual headlamp leveling knob
 - Trunk lid unlocking button
 - Exterior rearview mirror adjusting button
 - Exterior rearview mirror folding button*

Please refer to the picture index in the *Operating Instructions*.

OPERATION

Composition of hybrid system



- | | |
|---|--|
| 1. Integrated MCU | 4. Electromechanical coupling transmission |
| 2. Traction battery | 5. A/C compressor |
| 3. Traction battery high-voltage cable (orange) | |

WARNING

The vehicle is equipped with a high-voltage circuit system and a 12V low-voltage circuit system. High-voltage direct current and high-voltage alternating current are very dangerous and may cause serious burns and electric shock, resulting in serious injury or even death.

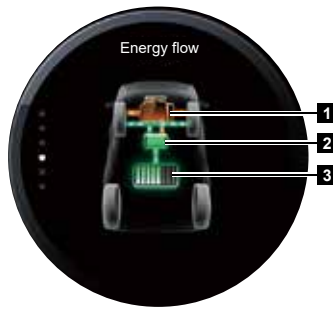
Therefore, do not touch, disassemble, remove or replace high-voltage parts, cables and their connectors.

High-voltage components, even if the vehicle equipped with a cooling system, will still be very hot during and after start. Be careful of high-voltage current and high temperatures, and follow the warnings on the vehicle warning label.

For reuse or disposal of the traction battery, please contact the GAC Motor authorized shop. When the traction battery needs to be replaced or scrapped, always contact the GAC Motor authorized shop for recycling. If the traction battery is not handled correctly, electric shock and serious injury or even death may be caused. Discarding of the traction battery without authorization will cause pollution to the environment.

Please refer to the *Operating Instructions* for overview of hybrid system.

Energy flow display



1. Engine
2. Motor (traction motor)
3. Traction battery

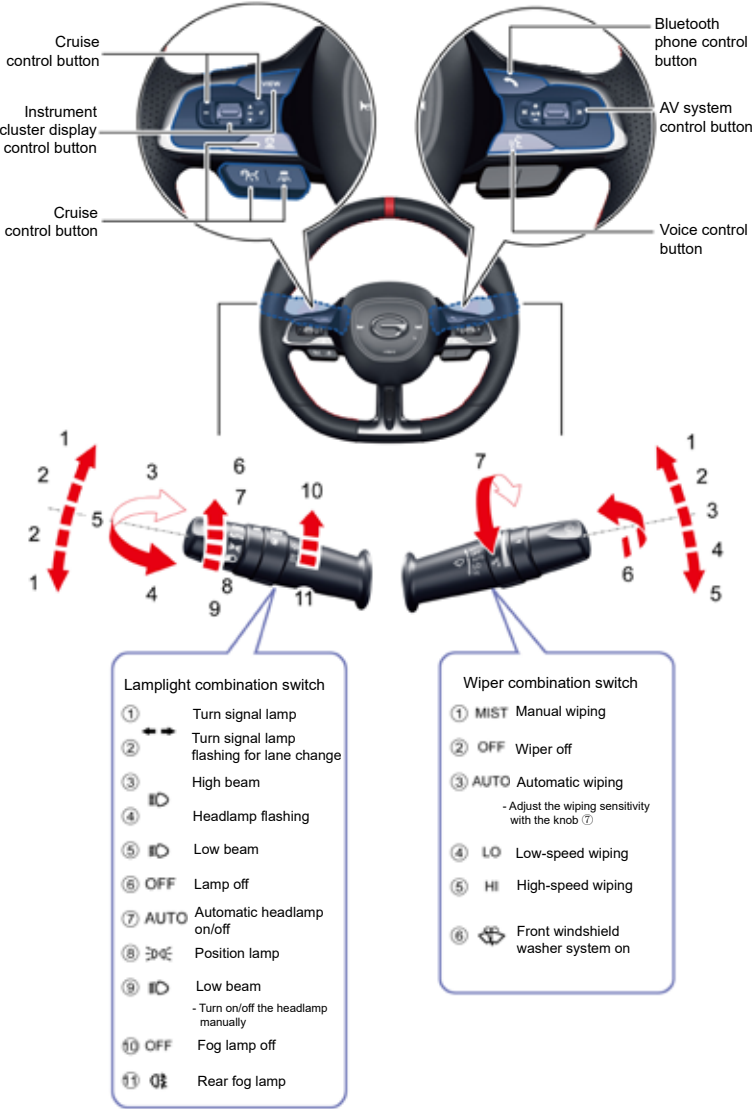
When the START/STOP button is set to "ON" position, move up or down the "OK" button on the left of the steering wheel to switch to the energy flow interface on the instrument cluster display to view the status of the hybrid system.

The energy flow interface shows the energy flow relationship between the traction battery, the motor (traction motor), and the engine.

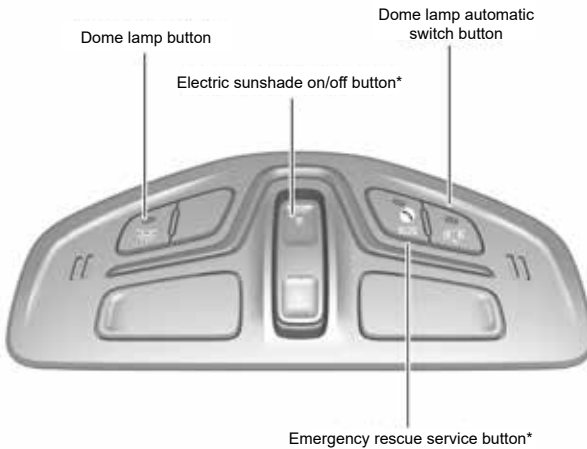
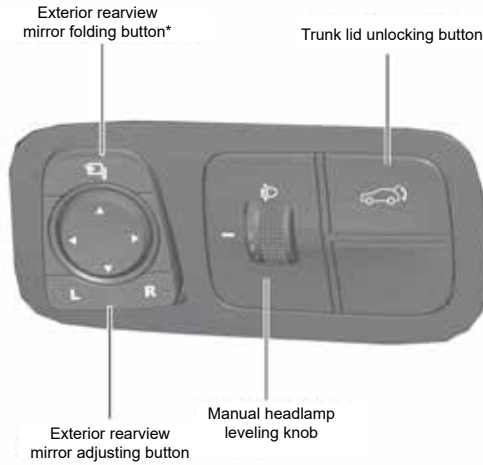
OPERATION

Multifunctional steering wheel

※ Please refer to the *Operating Instructions* for detailed operation!

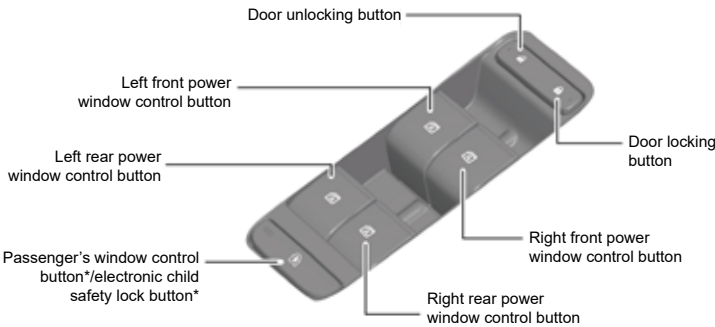


Function button

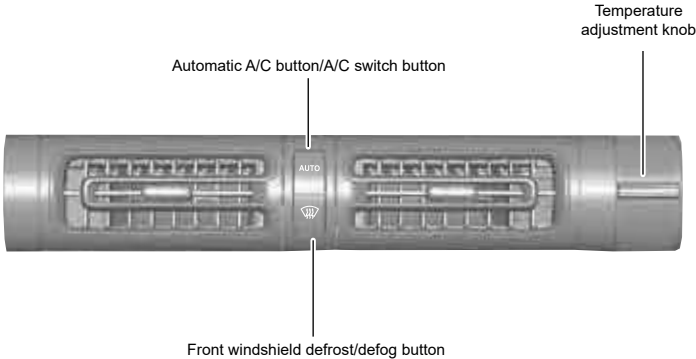


OPERATION

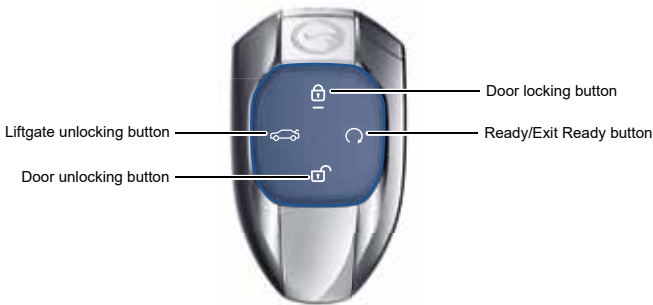
Driver's power window control button



HVAC control panel



Remote control key



ENGINE START/STOP button



When the transmission gearshift lever is in “P” position and the brake pedal is depressed, press the START/STOP button to start the vehicle.

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

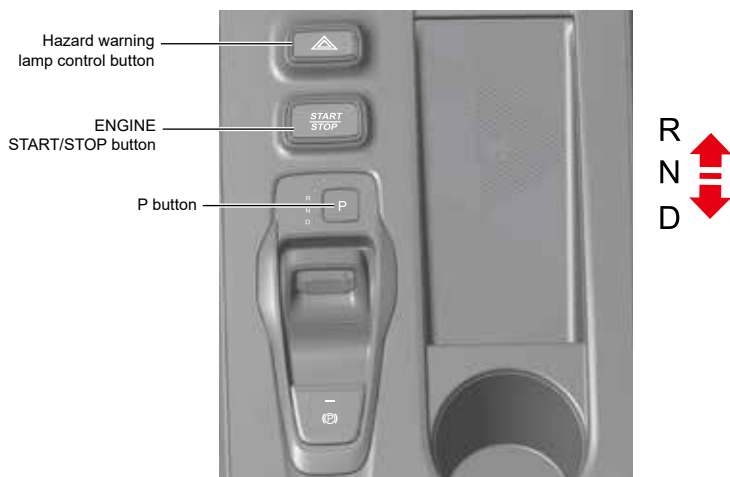
NOTE



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

OPERATION

Transmission gear positions



P - Parking gear

R - Reverse gear

N - Neutral gear

D - Drive position

When starting the vehicle, set the gearshift lever to “**P**” position.

Start and shutdown

Start

1. Enter the vehicle with the intelligent remote control key.
2. Make sure the gearshift lever is in "P" position.
3. Depress the brake pedal.
4. Press the ENGINE START/STOP button to start the vehicle.



Start to move

1. Set the gearshift lever to the corresponding position.
2. Release the parking brake.
3. Release the brake pedal.
4. Slowly depress the accelerator pedal; then the vehicle starts to move.

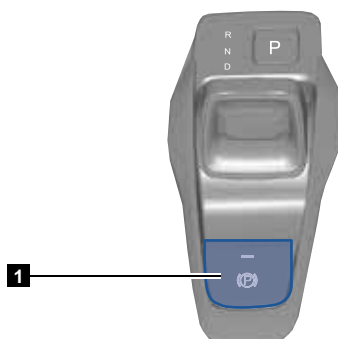


Shutdown

1. Park the vehicle steady and apply the parking brake.
2. Set the gearshift lever to "P" position.
3. Press the ENGINE START/STOP button to shut down the engine.

OPERATION

EPB

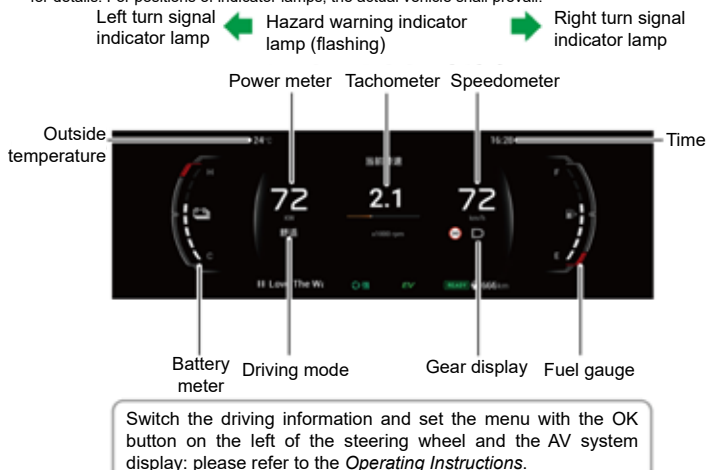


When the vehicle stops, pull up the EPB button ① to apply the EPB to avoid vehicle sliding.

- If the service brake fails while the vehicle is running, try to continuously pull up the EPB button ① to achieve emergency braking.
- Press the EPB button ① to release the EPB.

Instrument cluster with 7-inch display (full screen theme)*

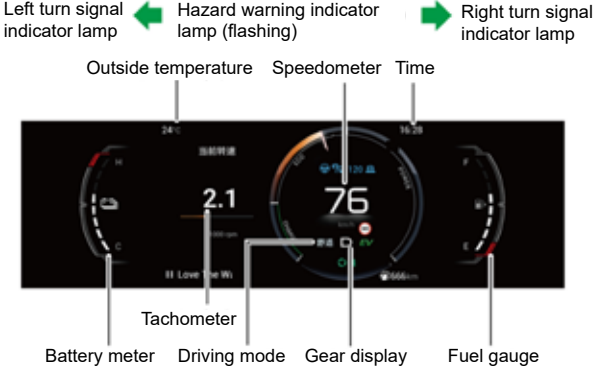
※Some indicator lamps apply to certain vehicle models only. Please refer to the Operating Instructions for details! For positions of indicator lamps, the actual vehicle shall prevail.



OPERATION

7-inch instrument cluster (organic theme) *

※Some indicator lamps apply to certain vehicle models only. Please refer to the Operating Instructions for details! For positions of indicator lamps, the actual vehicle shall prevail.

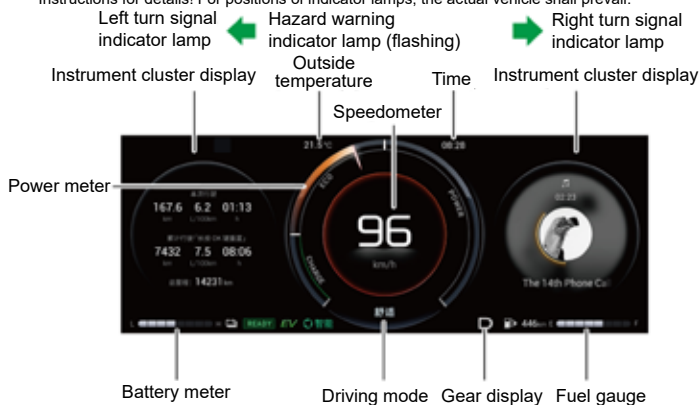


Switch the driving information and set the menu with the OK button on the left of the steering wheel and the AV system display: please refer to the *Operating Instructions*.

| | | | | | |
|--|--|--|---|--|--|
| | Front seat belt indicator lamp | | EPB status indicator lamp | | ACC indicator lamp (a vehicle ahead) |
| | Rear seat belt indicator lamp* | | EPB status indicator lamp | | ACC indicator lamp (a vehicle ahead) |
| | Supplemental restraint system (SRS) indicator lamp | | ESP indicator lamp | | ACC indicator lamp (no vehicle ahead) |
| | Low oil pressure warning lamp | | Anti-lock braking system (ABS) indicator lamp | | ACC indicator lamp (no vehicle ahead) |
| | Charging system warning lamp | | Low battery indicator lamp | | ACC fault indicator lamp |
| | High engine coolant temperature indicator lamp | | Low fuel level indicator lamp | | ICA status indicator lamp |
| | Emission fault indicator lamp | | Tire pressure monitoring system (TPMS) indicator lamp | | ICA status indicator lamp |
| | MIL | | EPB fault indicator lamp | | ICA status indicator lamp |
| | Position lamp indicator lamp | | Electric power steering (EPS) indicator lamp | | Hands-on indicator lamp |
| | High beam indicator lamp | | Parking brake and brake system indicator lamp | | Hands-on indicator lamp |
| | Door ajar indicator lamp | | FCM status indicator lamp | | READY Ready to drive indicator lamp |
| | Rear fog lamp indicator lamp | | FCM status indicator lamp | | EV mode indicator lamp |
| | Driver's seat belt indicator lamp | | LDW status indicator lamp | | Gasoline particulate filter (GPF) indicator lamp |
| | Intelligent high beam indicator lamp | | LDW status indicator lamp | | Gasoline particulate filter (GPF) indicator lamp |
| | Intelligent high beam indicator lamp | | LDW status indicator lamp | | BSD status indicator lamp * |
| | ESP OFF indicator lamp | | System fault indicator lamp | | BSD status indicator lamp * |
| | | | Power derating indicator lamp | | |
| | | | Hill descent control (HDC) indicator lamp | | |

10.25-inch instrument cluster (organic theme) *

※Some indicator lamps apply to certain vehicle models only. Please refer to the Operating Instructions for details! For positions of indicator lamps, the actual vehicle shall prevail.



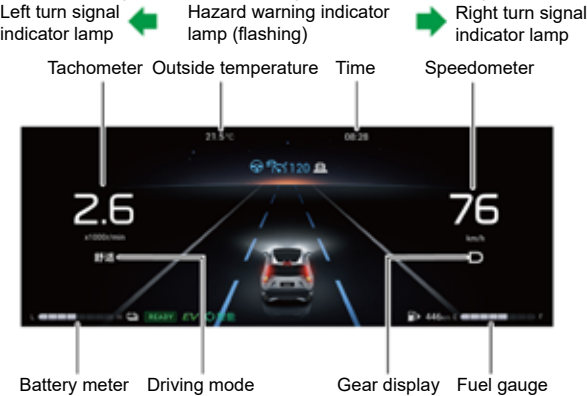
Switch the driving information and set the menu with the OK button on the left of the steering wheel and the AV system display: please refer to the *Operating Instructions*.

| | | | | | |
|--|--|--|---|--|--|
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| | Rear seat belt indicator lamp* | | ESP indicator lamp | | ACC indicator lamp (no vehicle ahead) |
| | Supplemental restraint system (SRS) indicator lamp | | Anti-lock braking system (ABS) indicator lamp | | ACC fault indicator lamp |
| | Low oil pressure warning lamp | | Low battery indicator lamp | | ICA status indicator lamp |
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| | Emission fault indicator lamp | | EPB fault indicator lamp | | Hands-on indicator lamp |
| | MIL | | Electric power steering (EPS) indicator lamp | | Hands-on indicator lamp |
| | Position lamp indicator lamp | | Parking brake and brake system indicator lamp | | Ready to drive indicator lamp |
| | High beam indicator lamp | | FCM status indicator lamp | | EV mode indicator lamp |
| | Door ajar indicator lamp | | LDW status indicator lamp | | Gasoline particulate filter (GPF) indicator lamp |
| | Rear fog lamp indicator lamp | | LDW status indicator lamp | | Gasoline particulate filter (GPF) indicator lamp |
| | Driver's seat belt indicator lamp | | LDW status indicator lamp | | BSD status indicator lamp * |
| | Intelligent high beam indicator lamp | | Hill descent control (HDC) indicator lamp | | BSD status indicator lamp * |
| | Intelligent high beam indicator lamp | | System fault indicator lamp | | |
| | ESP OFF indicator lamp | | Power derating indicator lamp | | |

OPERATION

Instrument cluster with 10.25-inch display (intelligent driving theme)*

※Some indicator lamps apply to certain vehicle models only. Please refer to the Operating Instructions for details! For positions of indicator lamps, the actual vehicle shall prevail.



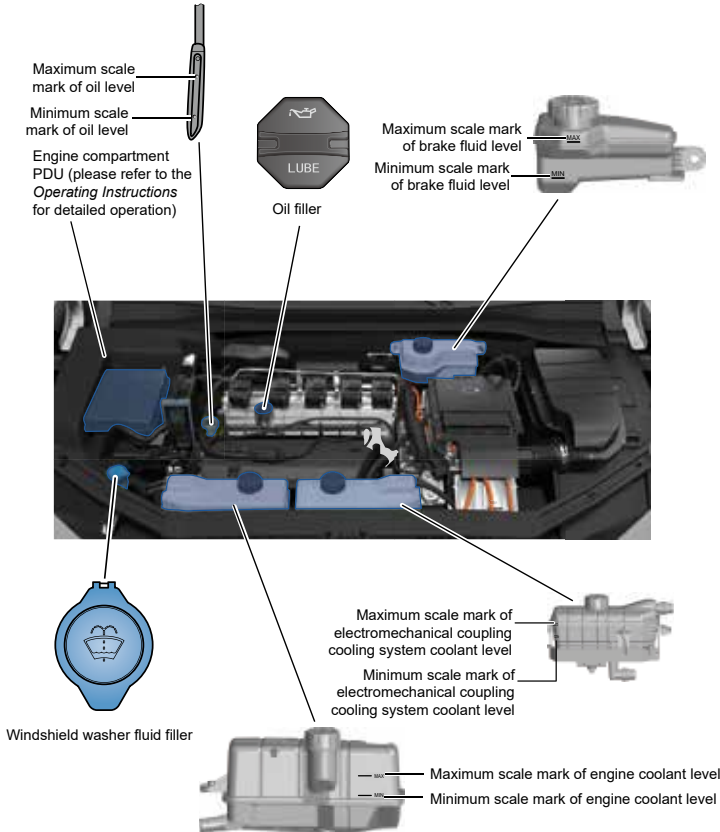
Switch the driving information and set the menu with the OK button on the left of the steering wheel and the AV system display: please refer to the *Operating Instructions*.

- | | | | | | |
|--|--|--|---|--|--|
| | Front seat belt indicator lamp | | EPB status indicator lamp | | ACC indicator lamp (a vehicle ahead) |
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| | Intelligent high beam indicator lamp | | LDW status indicator lamp | | Gasoline particulate filter (GPF) indicator lamp |
| | Intelligent high beam indicator lamp | | Hill descent control (HDC) indicator lamp | | BSD status indicator lamp * |
| | ESP OFF indicator lamp | | System fault indicator lamp | | BSD status indicator lamp * |
| | | | Power derating indicator lamp | | |

Routine inspection

● ENGINE COMPARTMENT

※ In case of any discrepancy between the picture and actual vehicle, the actual vehicle shall prevail!



※ Ensure the level of various fluids are between the MAX and the MIN scale marks.

OPERATION

● INSPECTION OF ENGINE COMPARTMENT (REFER TO THE OPERATING INSTRUCTIONS)

Brake fluid level

When the engine is cold, check whether the level of the brake fluid reservoir is between the “maximum scale mark (MAX)” and the “minimum scale mark (MIN)”. If the level is below the “minimum scale mark (MIN)”, the brake fluid must be added.

Coolant level

When the engine is cold, check whether the coolant level is between the “maximum scale mark (MAX)” and the “minimum scale mark (MIN)”. If the coolant level is below the “minimum scale mark (MIN)”, the coolant must be added.

Battery

Check the appearance of the battery (for any crack or swelling), and inspect the connection between the battery connector and cable for any corrosion or looseness.

If the battery condition is poor, please go to the GAC Motor authorized shop for inspection as soon as possible.

Windshield washer fluid

The washer fluid shall be added in time after every use.

Engine oil level

When the engine is cold, check whether the engine oil level is between the “maximum scale mark ”and the “minimum scale mark”. If the engine oil level is below the “minimum scale mark”, the engine oil must be added.

● INTERIOR INSPECTION

Inspection of brake pedal

Start the engine, depress the brake pedal firmly, and then check the distance between the pedal and the floor.

When you depress the brake pedal, if you feel that the brake pedal is spongy or soft, it may be caused by the air in the brake system or the system leakage, which may lead to the system functional failure. In that case, please contact the GAC Motor authorized shop in time for inspection.



Inspection of EPB

Pull up the EPB button to apply the EPB and verify the parking state through the red indicator lamp on the button and the EPB status indicator lamp on the instrument cluster.



Inspection of windshield washer

Run the windshield washer to check whether the windshield washer fluid is sprayed normally.



Inspection of windshield wiper

Toggle the wiper combination switch to run the wiper so as to check the operation of wiper at high speed and low speed for any abnormality.



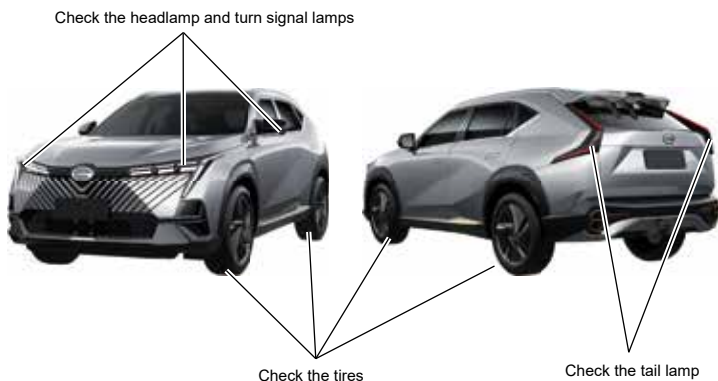
OPERATION

● EXTERIOR INSPECTION

Lamps

Turn on the front combination lamp, rear combination lamp, turn signal lamp, position lamp, license plate lamp and fog lamp to check if they work normally and if their surfaces are clean or intact.

Depress the brake pedal repeatedly to check if the brake lamp works normally.

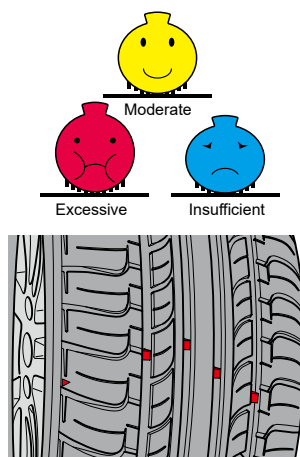


Inspecting tire condition

Tire pressure will affect the service life of tire, therefore it should be checked regularly in accordance with the provisions.

Visually check the tire tread for crack or damage and for nails or stones.

Visually check the tire circumference for excessive wear, localized wear or broken cords. When the tire is worn to the extent that the tire wear indicator is exposed, the tire should be replaced.



Inspection during driving

Inspection of braking effect

When driving the vehicle on a dry road at a low speed, depress the brake pedal to check the brake function of the vehicle.

Inspection of low-speed running and acceleration status

Depress the accelerator pedal slowly and check whether it works smoothly. Check whether the vehicle runs at a low speed and accelerates smoothly.



Safety

Seat belt

Fastening the seat belt properly is a basic requirement for safe driving. In case of a traffic collision where the seat belt reaches the triggering condition, the seat belt pretensioner and load limiter will be activated to tension the seat belt so that the driver and passengers will be restrained in proper position to slow down the forward movement inertia, thus preventing the driver and passengers from being thrown out and reducing the impact injury to them as much as possible.

Seat belts can slow down the movement of the driver and passengers when the vehicle suffers the frontal collision at a low speed.



Movement without seat belt fastened

In a frontal collision, even if the vehicle runs at a low speed, the driver and passengers cannot be protected effectively only by their hands.



Movement with seat belt fastened

In a frontal collision, the seat belts can secure the driver and passengers properly and protect them effectively.

Seat belts can slow down the movement of the driver and passengers when the vehicle suffers a frontal collision at a high speed.



Movement without seat belt fastened

When the vehicle suffers a frontal collision at a high speed, even if the airbag works normally, it still cannot protect the driver and passengers effectively.

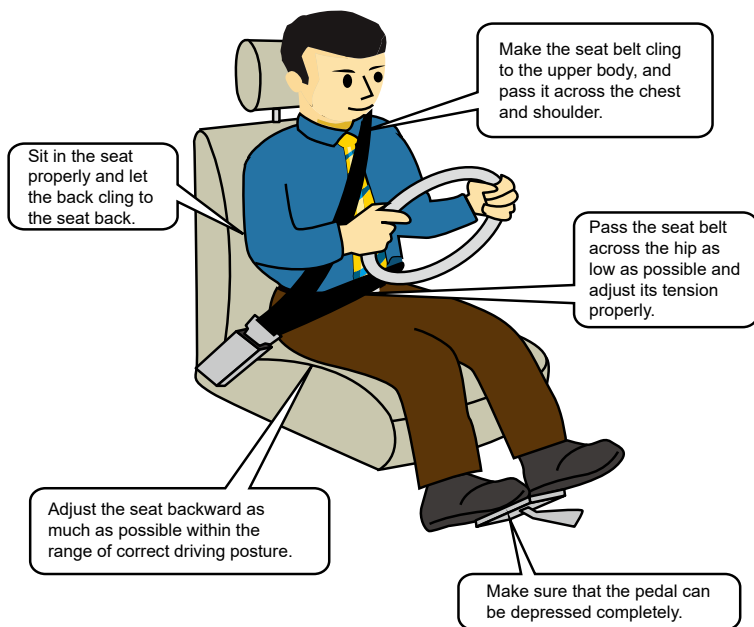


Movement with seat belt fastened

When the vehicle suffers a frontal collision at a high speed, the driver and passengers fastening the seat belts properly can be protected effectively by the seat belts and airbags.

Be sure to fasten the seat belt properly during driving.

For the sake of safety, you and your passengers must fasten the seat belts properly during driving.



The shoulder belt must pass through the middle of shoulder and fit the shoulder. Do not twine the shoulder belt around the neck; the lap belt must pass through the pelvis and fit the pelvis. Do not press the lap belt against the stomach. Besides, adjust the tension of seat belt as needed.



When a pregnant woman wears the seat belt, make sure that the lap belt crosses her hips and is fastened as low as possible and do not press the belt against her belly, so as not to affect the fetus.

Note:

- When the vehicle suffers a frontal collision at a high speed, the seat belt with pretensioner and load limiter and the airbag will be triggered together to provide better protection.
- The seat belt with pretensioner and load limiter that has been triggered cannot be used any more and must be replaced.

SAFETY

Supplemental restraint system (SRS)

In a severe collision where the system triggering condition is met, the system will be triggered and airbags will deploy rapidly to work with the seat belts to protect the driver and passengers.

SRS triggering condition



When the vehicle suffers a severe collision at the front, the frontal airbags and side curtain airbags will be activated automatically.

The airbag control unit calculates the energy generated by the collision. If the triggering conditions are reached, the SRS will be activated; otherwise, it will be deactivated. Therefore, even if the vehicle is damaged seriously, the SRS might not be activated.



When the vehicle suffers a severe side collision, the side airbags and side curtain airbags will be activated automatically.

SRS is an auxiliary protective device. Please be sure to fasten the seat belt correctly.

● SRS TRIGGERING PROCESS



The seat belt will tie up the body at the moment of collision

In a collision, the seat belt will lock and tie up the body, and the SRS will determine the need for triggering according to the impact force.



Moment of SRS airbag deployment

When the SRS is triggered, the seat belt will also restrain the driver and passengers to the seats.



SRS protects the driver and passengers

SRS work with the seat belts to protect the driver and passengers.



SRS airbags will deflate rapidly after being triggered

The SRS airbags will mitigate the impact on the driver and passengers during collision through releasing the internal gas rapidly.

SAFETY

● PRECAUTIONS FOR SRS



The upper body of the driver should not be too close to the steering wheel, otherwise it can be injured when the SRS is triggered.



Do not let children kneel on the seat or stand in the vehicle; otherwise the children can be seriously injured when the SRS is triggered.



Do not put young children on the leg; otherwise the children can be seriously injured when the SRS is triggered.

Tips:

- After the SRS is triggered, do not touch the airbag as it is at a high temperature.
- After the SRS is triggered, there is smoke, which is the powder on the airbag surface and harmless to human. If the smoke is attached to eyes or skin, clean in time.
- Once the airbag deploys, it may not be reused and should be replaced in time.

The normal operation of the SRS will be affected in the following cases:

- An umbrella or similar object is placed between the front seat and door.
- A seat cover is installed on the front seat.
- The plastic protective film on new vehicle seat has not be removed.
- Objects like perfume bottle and doll are placed in the deployment area for front passenger's airbag of the instrument panel.
- The SRS has been replaced or modified without permission.

SAFETY

Child safety

Pay attention to the followings when there is a child passenger:

- Be sure to protect the child with the child safety seat.
- Be sure to operate the doors, windows, and seats by an adult only.
- Activate the child safety lock to prevent the child from opening the door during driving.
- Do not leave a child alone in the vehicle.

The followings are prohibited when there is a child passenger:



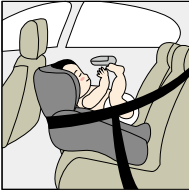
Hold the infant on the leg

In case of collision, you and the infant will both rush forward by inertia, and the infant will be hit by your forward movement or be thrown out of your arm and injured because of the serious collision.

Share one seat belt with the infant

In a collision, the seat belt may squeeze the infant seriously, causing serious injury or even death to the infant.

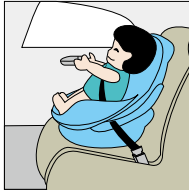
Classification of child safety seats (for reference only):



Baby seat

Weight: Less than 10 kg

Age: 0-12 months



Toddler seat

Weight: 7-18kg

Age: 12 months -4 years



School-age child seat

Weight: 15-32kg

Age: 4-10 years old

Do not install a rear-facing child safety seat on the front passenger seat and let the children sit in the seat during driving.

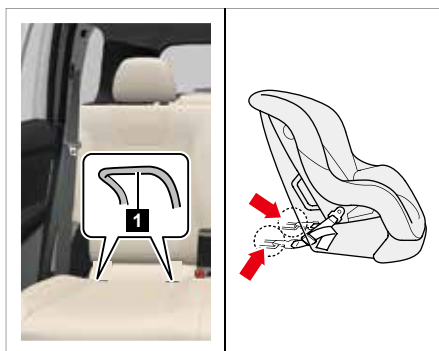


SAFETY

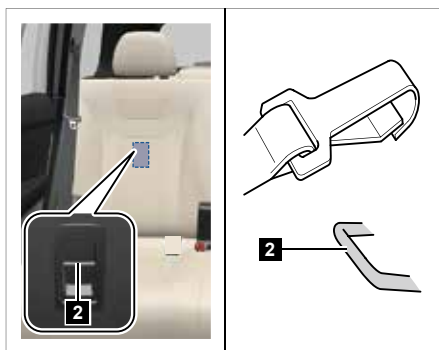
Child safety seat

● INSTALLATION OF CHILD SAFETY SEAT

The outboard 2nd-row seats are equipped with ISOFIX system. Be sure to install the child safety seats in strict accordance with the instructions provided by the manufacturer of child safety seats.



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



2. Thread the strap through the top of seat back, open the protective cover of rear anchorage ②, 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.

NOTE

i

- The lower anchorage ① of the rear seat is hidden in the cushion gap; the rear anchorage ② is directly behind the rear seat back or in the ceiling above rear seat and can be accessed by opening the protective cover.

WARNING

Be sure to protect the child with the child safety seat when the vehicle is running.



- The child safety seat anchorages in the vehicle can be used to fix the child safety seat only.
- Do not attach straps, hard and sharp articles or any articles other than the child safety seat to the anchorages; otherwise the children may be endangered in case of accident.

Fastening seat belt

● FRONT SEAT BELT

1. Keep a correct sitting posture.
2. Pull out the seat belt slowly at a uniform speed, and insert the tongue into the corresponding buckle until a click is heard.
3. Pull the seat belt tongue and confirm that the tongue is properly locked.

NOTE

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- The fastening methods for rear seat belts are the same, and the driver is responsible for reminding passengers to fasten the seat belts correctly.

CAUTION

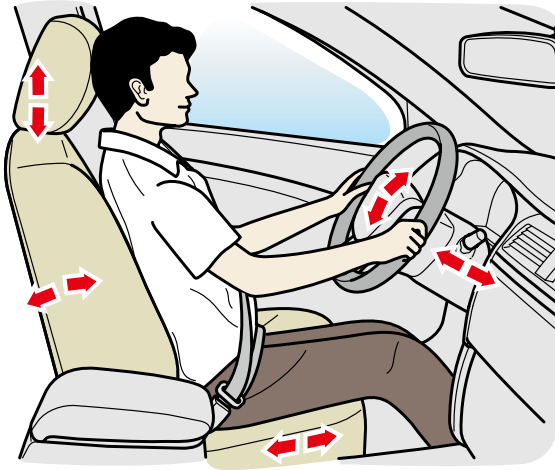
- Before driving, make sure that all occupants have properly fastened the seat belts.
- The occupant who does not fasten the seat belt correctly will not be protected effectively and will be injured seriously in case of an accident.

Driving posture and visual information

● CORRECT DRIVING POSTURE

Whether the driving posture is correct directly affects the driver's fatigue level and driving safety.

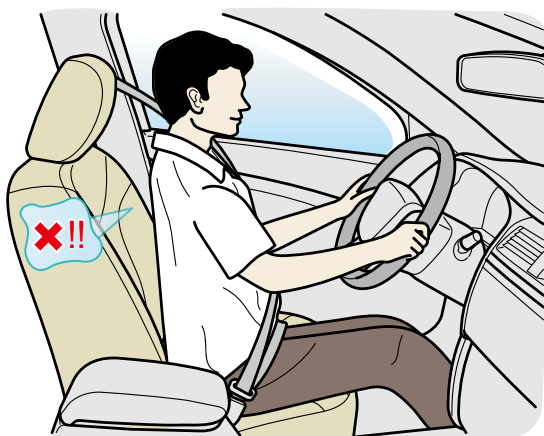
Correct driving posture enables the driver to manipulate the vehicle naturally in a coordinated manner, which is beneficial to driving safety.



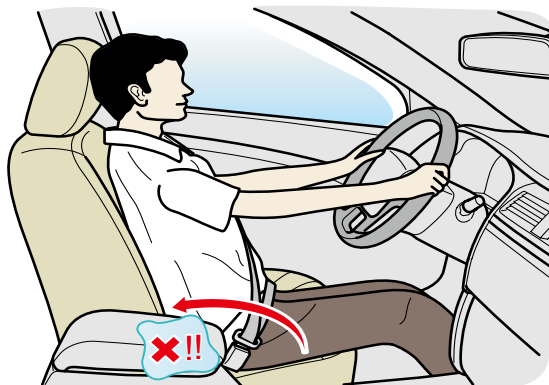
To ensure driving safety and reduce the risk of casualties, you are recommended to carry out the following steps:

- Adjust the seat back and forth so that all pedals can be operated effectively with slightly bent legs.
- Adjust the seat back to a suitable position so that the back fits completely the seat back.
- Adjust the seat headrest so that the middle of your back brain is leaned precisely against the middle of the headrest.
- Adjust the steering wheel to ensure that the distance between the steering wheel and your chest is not less than 25cm.
- Fasten the seat belt correctly.

DRIVING



The gap between your back and the seat back must not be too large.



Do not tilt the seat backward excessively.

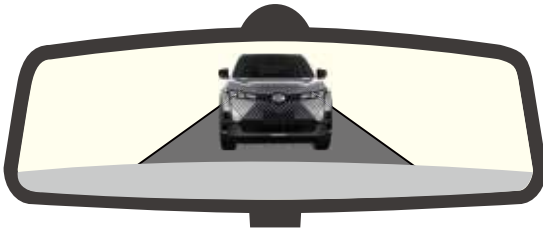
Correct driving posture can not only reduce the driver's fatigue, but also make full use of the seat belt and the airbag.

● REARVIEW MIRRORS

Adjusting the rearview mirror to a proper angle is favorable to safe driving.

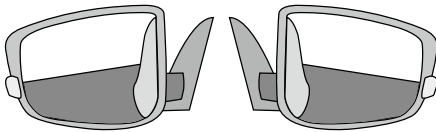
Interior rearview mirror

The traffic conditions behind the vehicle can be observed through the interior rearview mirror. Failing that, it is unfavorable to safe driving.



Exterior rearview mirror

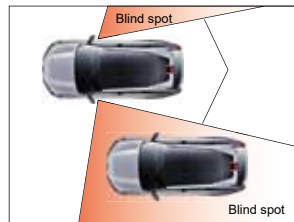
Exterior rearview mirrors help to confirm the vehicle's surroundings.



Adjust the mirror angle to slightly reflect the side of the vehicle body, and keep adjusting till the horizon appears in the middle of the mirror.

Blind spot of exterior rearview mirrors:

Since the exterior rearview mirrors have certain blind spots, it is necessary to carefully observe the traffic conditions in the blind spots of the exterior rearview mirrors in case of a lane change or turn.



DRIVING

● BLIND SPOT

Different driving postures may lead to a scope change of the blind spot. Therefore, please maintain correct driving posture to confirm the scope of the blind spot.

The specific scope of the blind spot also varies with vehicle models. Please do not drive into the blind spot of other vehicles as much as possible during driving.



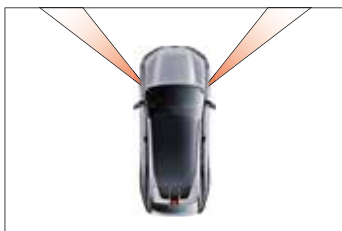
Front blind spot

The front blind spot covers an area from the ground to the engine hood or doors. The driver must take care to check if there are curbs or other obstacles in the front blind spot when parking the vehicle.



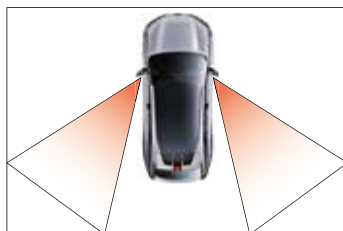
Rear blind spot

The rear blind spot covers an area from the rear windshield to the ground. When reversing, make sure that there is no child or other safety hazards in the rear blind spot.



Blind spot of the pillar

The visibility range blocked by the pillar is the blind spot of the pillar, which can be eliminated by adjusting the heading of vehicle repeatedly.



Blind spot of rearview mirrors

The blind spots of rearview mirrors cover both the front side of the vehicle and the position slightly behind that. In case of a lane change or turn, it is necessary to carefully observe the traffic conditions in the blind spots of the exterior rearview mirrors.

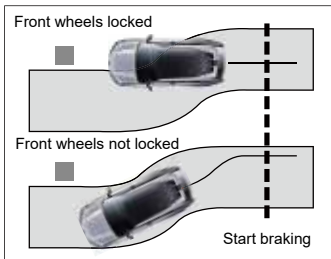
Brake assist control system

● ANTI-LOCK BRAKING SYSTEM (ABS)

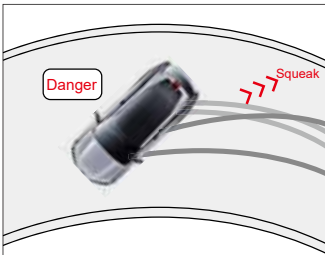
ABS can prevent the wheels from being locked during emergency braking or braking on a slippery road so as to stabilize the driving state of the vehicle. It is an important part of the vehicle's active safety system.

● ELECTRONIC BRAKE FORCE DISTRIBUTION (EBD)

As a part of ABS, EBD balances the distribution of brake force on the front and rear wheels according to the vehicle load during normal braking, and improves the braking stability and operability, especially during driving on a slippery road.



If the front wheels are locked, the vehicle will be unable to make a turn, and can only slide forward in the braking direction.



If the rear wheels are locked, the vehicle will tend to be inclined to drift up to 180° in severe conditions.

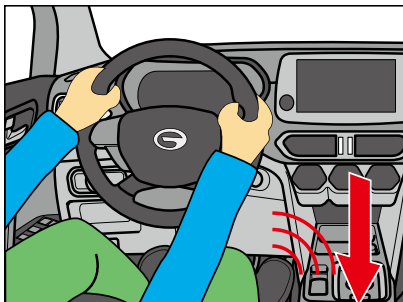
In case of emergency braking, the brake pedal may vibrate, which is normal during operation of ABS. At this point, continue depressing the brake pedal with force instead of releasing it due to the vibration of the brake pedal.

DRIVING

ABS and EBD are merely auxiliary safety systems with quite limited effect. Compared with braking on a concrete or dry road, the braking distance may be longer during braking on a road covered with sandstone or fresh snow. Do not suppose that the ABS and EBD can reach the ideal braking performance under any circumstances. Be sure to adjust the speed according to weather, road and traffic conditions at any time. Never risk driving merely by virtue of the finite safety functions provided by the systems.

- ABS cannot work beyond the kinematic law! Even if the vehicle is equipped with ABS, it is still quite dangerous to drive on a slippery road! If it is found that the ABS adjusts the brake pressure during driving, the driver must decelerate the vehicle immediately to adapt it to the current road and traffic conditions.
- Improper operation or modifications (such as modifications to the brake system, wheels, tires and other components) of the vehicle will affect the functions of ABS and EBD.
- Tires must be of a specified size. Incorrect tire size or inconsistent sizes of all tires will affect the normal working of ABS.

After the brake pedal is depressed, ABS will be activated and vibration will be felt, which are normal, in the following cases:



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

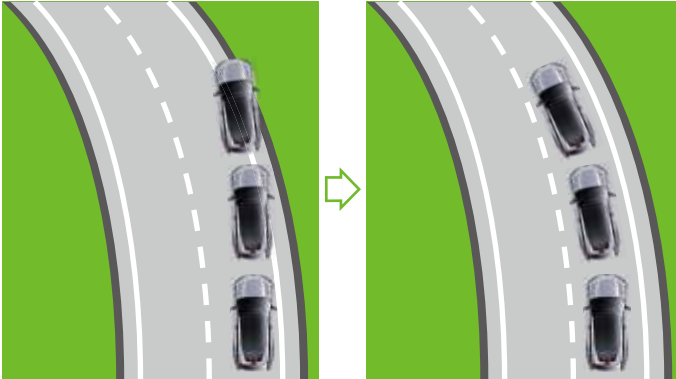
● ELECTRONIC STABILITY PROGRAM (ESP)

ESP determines the driving intention of the driver according to the steering wheel angle and the vehicle speed, and compares it with the actual driving condition of the vehicle continuously. If the vehicle deviates from the normal driving route (such as sideslip), ESP will correct it by applying brake force to the corresponding wheels.

● TRACTION CONTROL SYSTEM (TCS)

As the 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 former exceeds the latter, it will limit the speed of the driving wheel to prevent vehicle slip.

ESP can effectively reduce the risk of vehicle sideslip.



Vehicle not equipped with ESP Vehicle equipped with ESP
The ESP can be disabled in special cases.

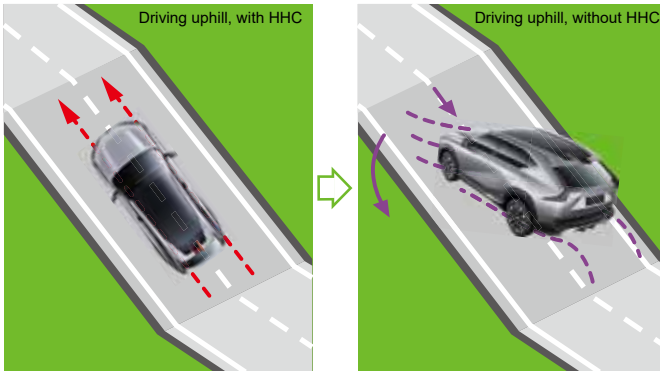
For example:

- When the vehicle travels with tire chains.
- When the vehicle travels on roads covered with deep snow or on soft grounds.
- When the vehicle is stuck somewhere (such as muddy road), and requires to be moved back and forth.

In cases other than those mentioned above, the ESP shall be activated.

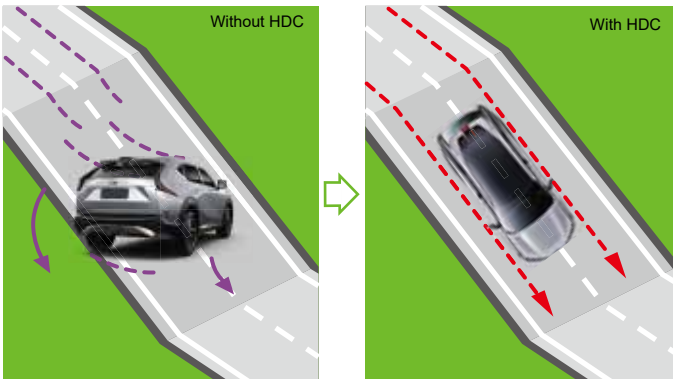
● HILL HOLD CONTROL (HHC)

As the subsystem of ESP, HHC can prevent accidents caused by sliding when the vehicle is started on a slope without using the parking brake.



● HILL DESCENT CONTROL (HDC)

As the subsystem of ESP, HDC allows the vehicle to run at a constant low speed while going downhill on an escarpment, slippery road and other steep slopes by active braking according to input signals such as engine speed, torque, gear position, etc., so as to ensure the driver drives the vehicle downhill along the steep slope safely at a low speed.

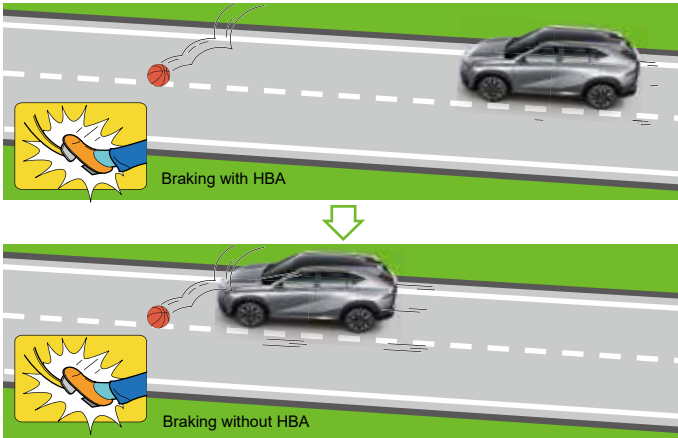


● AUTO HOLD

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

● HYDRAULIC BRAKE ASSIST (HBA)

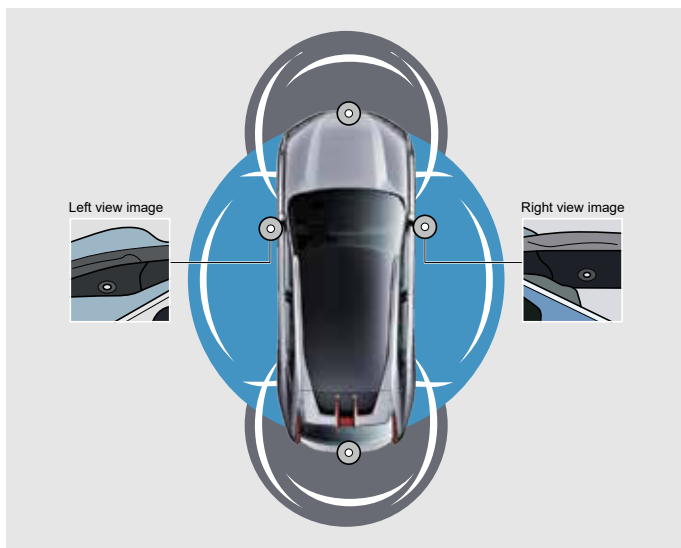
HBA helps achieve a short braking distance in an emergency by producing brake pressure larger than that during normal braking when you depress the brake pedal quickly. After the brake pedal is released, HBA will be deactivated automatically, and the brake system will be restored to its normal working state.



Around View Monitor (AVM)*

The AVM collects the left, right, front, rear images of the vehicle and integrates them into a 360° bird's-eye view of the surrounding environment, which is displayed on the AV system display to provide the driver with information on the surrounding environment of the vehicle and to reduce blind spots during driving. In addition, it can take the parameters such as steering wheel angle and vehicle dimensions into consideration to predict the vehicle's motion trajectory as well as superimpose the predicted track on the panoramic image to provide the driver with full information on the vehicle's direction of traveling, helping the driver to determine whether reversing is safe.

Users can switch the display modes by touching the AV system display.



Instructions on driving assistance **AUTO HOLD**

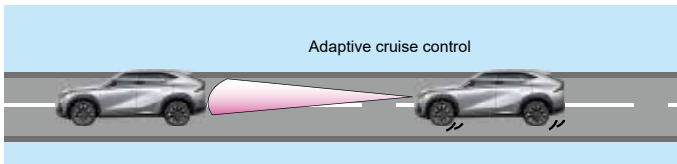
● **ADAPTIVE CRUISE CONTROL (ACC)**

With ACC (which is short for Adaptive Cruise Control), the relative distance between the car ahead and your car on the same path and the speed of your car can be controlled in a real time manner by means of the front MMW radar and the smart forward camera on the windscreen:

If the vehicle ahead is stopped, ACC applies the brake of the ego vehicle until it may come to a stop; if the vehicle ahead is started, ACC restarts the ego vehicle under certain conditions.

If the speed of the vehicle ahead is lower than that set by the driver, ACC controls the ego vehicle to travel based on the set distance.

If there is no vehicle ahead, ACC controls the ego vehicle to travel at the set speed.



● **INTEGRATED CRUISE ASSIST (ICA)**

ICA detects the relative distance and speed with the vehicle ahead in the same path according to the signals from the MMW radar installed on the front of the vehicle and the IFC installed on the front windshield, and detects the lane marking through the IFC.

ICA can automatically adjust the distance from the vehicle ahead during cruise control and keep the vehicle traveling in the middle of the lane at the cruising speed of 0~130 km/h.

Lateral control

When ICA is activated, the lateral control function will be automatically activated if an effective lane marking is detected on both sides. Lateral control will keep the vehicle traveling in the middle between the lane markings on both sides.

Hands-on reminder

When detecting that the steering wheel is out of the driver's hands for a long time, ICA will issue a hands-on reminder and the instrument cluster will display an alarm message while beeping. The driver shall immediately hold the steering wheel immediately after receiving the hands-on reminder. Do not panic and avoid turning the steering wheel sharply unnecessarily. The braking capacity of service brake system that can be used by ICA is limited, and when ICA requires the driver to intervene in braking, the instrument cluster will display an alarm message while beeping. The driver shall immediately hold the steering wheel immediately for proper braking after receiving the hands-on reminder.

● FORWARD COLLISION MITIGATION (FCM)

Operating principle

The FCM assesses the danger level of pre-collision by detecting the relative distance and speed with the object ahead in the same path according to the signal from the MMW radar installed on the front of the vehicle and the IFC installed on the front windshield and the driver's other operations (such as depressing the brake pedal or accelerator pedal), gives an alarm to remind the driver to take measures in time in case of a collision risk, and applies the brake automatically when an impending collision is detected. When the driver is braking while the braking force is insufficient to avoid a collision, the system will automatically increase the braking force to avoid or alleviate the collision.

The FCM consists of the FCW and the AEB.

Detectable objects

- Vehicles
- Two-wheelers
- Pedestrians



FCW

The system issues an alarm for impending collision to alert the driver by detecting objects ahead according to the signal from the MMW radar installed on the front bumper and the IFC installed on the front windshield.

AEB

When a collision is about to occur, the system will issue an alarm to alert the driver that the vehicle is ready to apply emergency braking according to the signal from the MMW radar installed on the front bumper and the IFC installed on the front windshield, and then will assist in braking and activate the active brake assist function.

Warning:

The FCM can improve the driving safety, but it is still subject to the limitations of laws of physics, 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.

● LANE KEEPING ASSIST (LKA)

The LKA is designed to reduce accidents caused by unconscious lane departure.

The LKA detects the lane markings on the road and curbs through the camera installed on the windshield, and detects the road guardrails through the MMW radar installed in the front of the body. In addition, it analyzes the driver's driving behavior and car movement status. When the driver unconsciously makes the vehicle deviate from the lane due to fatigue, distraction, or a phone call, the system issues a warning or intervenes in turning of steering wheel to assist in corrective steering adjustment. Generally, a warning will be issued or turning of steering wheel will be intervened in when the front wheels cross a lane marking or get beyond/crash a curb.

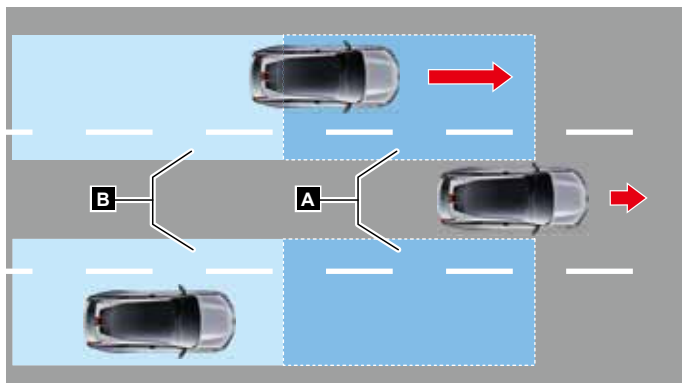
When the LKA intervenes in turning of the steering wheel for corrective steering adjustment, the driver may still turn the steering wheel to control the vehicle. When the driver feels that the correction torque applied by the system is improper, he/she can control and drive the vehicle according to his intention at any time.

Pay attention to the conditions for triggering the alarm, because the system may not always be able to trigger the alarm in the event of lane departure after it is activated:

- The system is activated without faults
- The instrument cluster shows a speed not less than 65km/h
- The camera detects lane markings
- The system detects unintentional lane departure and there are no other alarm suppression conditions.

● BLIND SPOT DETECTION (BSD)*

The BSD system detects the vehicles in the blind spot and the area behind the blind spot via the sensor installed at the rear of the vehicle. If it detects that another vehicle is approaching quickly, the BSD will alert the driver through the visual signal on the exterior rearview mirrors.



- A: Blind spot in the adjacent lane
- B: Area behind the blind spot

Working conditions

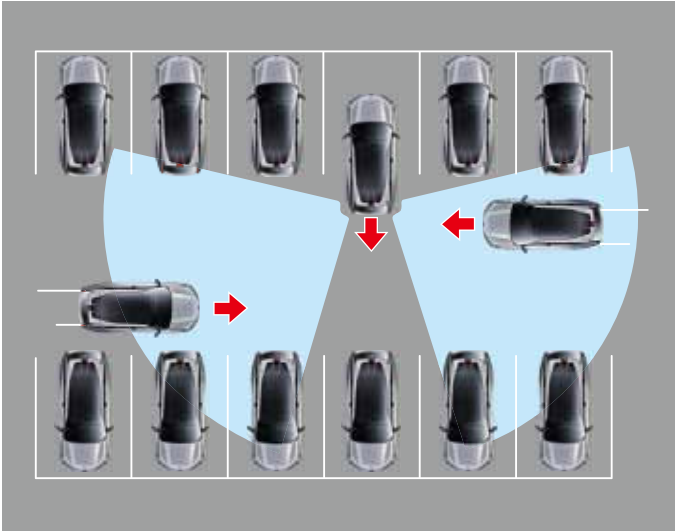
Under the following three conditions during driving (vehicle speed >15km/h):

- Another vehicle enters the blind spot from the rear or from one side.
- Another vehicle approaches this vehicle quickly from the rear of the adjacent lane.
- Other vehicles enter the blind spot from the front and these vehicles stay in the blind spot longer than a certain period of time.

In these three situations, the BSD issues an alarm and the LED indicator lamp on the corresponding exterior rearview mirror lights up, and if the turn signal lamp on the same side is turned on in this case, the indicator lamp will flash to alert you the risk of changing lane.

● REAR CROSSING TRAFFIC ALERT (RCTA)*

The rear crossing traffic alert (RCTA) system detects blind spots on both sides of the rear of the vehicle via the BSD sensor installed at the rear of vehicle. If it is detected that another vehicle is approaching quickly during reversing, the RCTA alerts the driver through the visual signal on the exterior rearview mirrors and the panoramic image.



Working conditions

The preconditions required for activating the function are as follows:

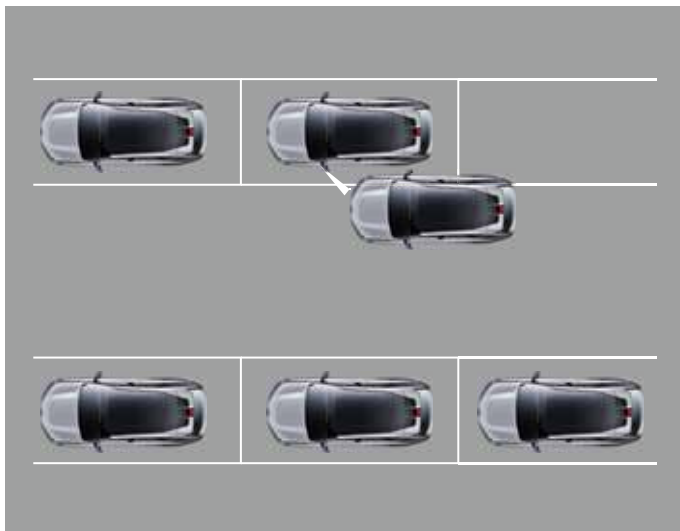
- The vehicle is reversing and the gearshift lever is in "R" position.
- The vehicle speed is lower than 10km/h.
- The function switch is turned on and the function has no fault.

When the radar detects that the vehicle is reversing and another vehicle is approaching to the vehicle on either side from the rear and may collide with the vehicle, the RCTA will alerts the driver in the following way:

- On the side with risk of collision, the LED indicator lamp on the exterior rearview mirror flashes.
- In the AV system panoramic image, a red arrow flashes at the rear of the vehicle on the side with risk of collision.
- The system issues an audible alarm as a supplement.

● DOOR OPENING WARNING (DOW)*

The DOW uses the BSD sensor installed at the rear of the vehicle to detect the adjacent lane during parking. When another quickly approaching vehicle is detected and the door is about to open, which may cause a collision, the system alerts the driver via the visible signal on the exterior rearview mirror and the audible alarm.



Working conditions

The preconditions required for activating the function are as follows:

- The vehicle is stationary.
- The ENGINE START/STOP button is in the “ON” position, or is switched from “ON” to “ACC” or “OFF” position within 3 min.
- The function switch is turned on and the function has no fault.

When the radar detects a vehicle behind in the adjacent lane and there is a risk of collision if the driver opens the door, the LED warning lamp on the exterior rearview mirror on the danger side will come on. If the driver continues to open the door or unlock the electronic child safety lock, the LED warning lamp on the exterior rearview mirror will flash and an audible alarm will be issued.

● REAR APPROACH ALERT SYSTEM*

The rear approach alert function monitors the target directly behind the vehicle in real time through the BSD sensor installed at the rear of the vehicle. When the driver drives the vehicle normally on the road and there is a target rapidly approaching in this lane behind, the system will send out an alarm message and a rear-end collision warning signal to the vehicle behind.



Working conditions

The preconditions required for activating the function are as follows:

- The vehicle is started and the gearshift lever is in a position other than R.
- the function switch is turned on and the function has no fault.

When the radar detects that there is a vehicle approaching at a high speed in this lane behind, the function will be activated to alert the driver in the vehicle behind to reduce the risk of rear-end collision.

Boarding and alighting essentials

- Be sure to confirm the surrounding situation, the situation behind this vehicle in particular, before opening the door.
- While driving on a snowy road, take care not to have snow or water left on the shoes to avoid accidents resulted from slipping in depressing the pedal.
- Children must be assisted by adults when getting in or out of the vehicle.

● BOARDING ESSENTIALS



1. Confirm if there are oncoming vehicles around.



2. Reconfirm if there are other vehicles coming behind this vehicle before you are going to open the door.



3. After confirming the safety, quickly open the door, get in the vehicle and immediately close the door.



4. Close the door with slight great force at a distance of about 10-20cm away from the door and make sure it is closed properly. and your own clothes are not stuck in the door.

● ALIGHTING ESSENTIALS



1. Observe if there are other vehicles or pedestrians behind this vehicle through the interior and exterior rearview mirrors.



2. Open the door slightly after confirming the safety and then open it completely after reconfirming the safety.

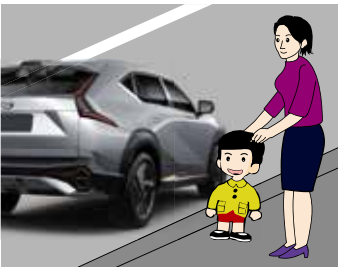


3. After the door is opened, get out of the vehicle and close the door quickly.



4. Close the door with slight great force at a distance of about 10-20cm away from the door and make sure it is closed properly, and your own clothes are not stuck in the door. Then leave the vehicle from its rear.

Boarding and alighting essentials of children



1.Boarding

An adult shall confirm that the surrounding environment is safe and then open the door to get a child in the vehicle.



2.Alighting

An adult shall get out of the vehicle first, confirm that the surrounding environment is safe, and then open the door to get a child out of the vehicle.

Precautions before departure

Inspections before departure

Perform routine inspection and regular maintenance on the vehicle before departure. In case of any abnormality (abnormal sound from the vehicle, unpleasant smell, oil stains on the ground and other phenomena), please contact the GAC Motor authorized shop for inspection in time.

Height of luggage in the compartment

The height of luggage shall not be higher than that of the seat when luggage is carried in the compartment. Otherwise, the luggage will be cast forward in the event of emergency braking or a crash, causing injuries to persons in the vehicle.



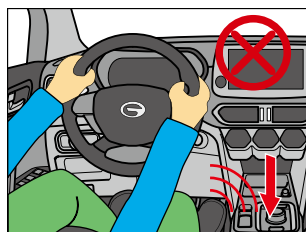
No hazardous articles

It is forbidden to carry inflammable, explosive and other hazardous articles. Otherwise, severe danger will be brought about.



No articles placed in footwell

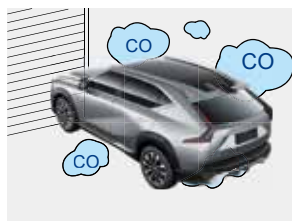
Do not place any article in the footwell. Otherwise the articles may slip into the pedal area, hampering the driver from operating the pedal; accidents are quite likely to happen if the driver fails to operate the pedal in the event of emergency braking or other unexpected situations.



Pay attention to the exhaust gas emission

Make sure the trunk lid is completely closed; otherwise exhaust gas may enter the vehicle.

Do not idle the engine for a long time in a garage or other poorly ventilated area; otherwise exhaust gas may enter the vehicle, causing carbon monoxide poisoning.



Precautions during driving

No shutdown during driving

It is forbidden to stop the engine during driving; otherwise, the vacuum booster won't work, which will cause more effort to depress the brake pedal, longer braking distance, and safety hazards.



No phone calls during driving

It is forbidden to take phone calls during driving, which will distract the driver's attention from and reduce the judgment on the environment, causing traffic accidents easily.



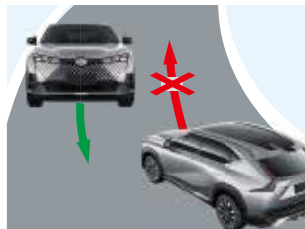
Downhill road

In case of a long downhill road, please decelerate by depressing the brake pedal according to the driving speed, and do not engage the neutral gear for coasting.



Meeting

During meeting, pay attention to conditions of an oncoming vehicle and the road, reduce the speed properly, choose a wide and firm road section for meeting, and observe the principle of "give way first, slow down first and stop first".



DRIVING

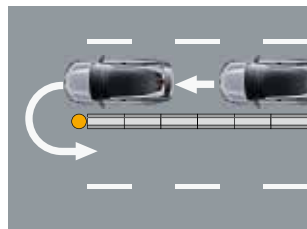
Overtaking

Choose a wide and straight road with good view for overtaking, and do not let the overtaking speed exceed the speed limit. Do not try to overtake if the overtaking conditions cannot be met.



Turning around

Whenever the vehicle needs to turn around, choose a flat and wide road section with small traffic flow provided safety is ensured and the traffic laws are fulfilled; do not try to turn around on slopes, bridges and other road sections not allowed by the traffic laws.



In a strong crosswind

The vehicle is easily affected by a crosswind when traveling on tunnel portals, bridges and dykes or overtaking large vehicles. Accordingly, the driver has to grasp the steering wheel firmly and decelerate.



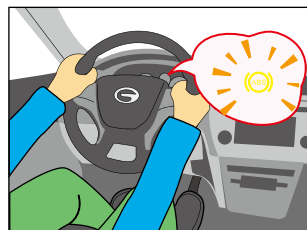
Dazzling due to oncoming vehicle lamps

In case of dazzling due to harsh lamplight from an oncoming vehicle, take care to slow down, and slightly look to the right side to avoid the harsh lamplight after confirming the safety in front.



Instructions on the fault indicator lamp

If the indicator lamp on the instrument cluster is on during driving and the safety is ensured, pull over immediately and consult the GAC Motor authorized shop to check whether the driving can continue.



Precautions for parking

No parking in the vicinity of inflammable and explosive articles

It is forbidden to park the vehicle in the vicinity of withered grass, timber, oil tank and other inflammable and explosive articles. Otherwise spontaneous combustion or explosion of the inflammable and explosive articles may occur due to high-temperature parts of the vehicle.



No inflammable and explosive articles in the vehicle

It is forbidden to place lighters, gas tanks and other inflammable and explosive articles in the vehicle during parking in hot weather. During long-time parking, the inflammable and explosive articles will easily self-ignite or explode due to high temperature in the vehicle caused by direct sunlight.



When leaving the vehicle

Be sure to confirm that the parking brake has been applied after shutting down the engine; please take your keys and valuables and lock the door properly before leaving the vehicle.

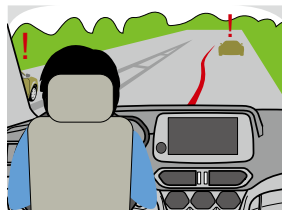


Precautions under various road conditions

Factors that lead to traffic accidents are uncertain and random during driving. The driver shall always keep sober-minded and cool, and be resourceful to make quick judgment and take actions to ensure safe driving in the event of emergencies.

Busy road

With a large number of pedestrians and vehicles and complicated traffic conditions, accidents are likely to happen on a busy road. When passing a busy road, the driver shall concentrate on driving, keep an eye for pedestrians or vehicles all the time, and let them pass first.



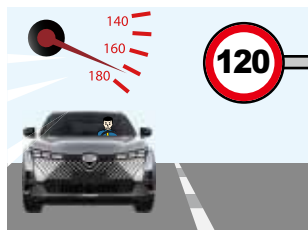
Driving at night

Make sure that all vehicle lamps can work normally during driving at night. Control the speed according to the visibility; switch the low and high beams consecutively, honk the horn when necessary, and confirm that the vehicle in front is about to give way before overtaking. In addition, riders and pedestrians can be dazzled by the lights of oncoming vehicles and fail to watch the road. Thus attention must also be paid to the safety of the riders and pedestrians.



Expressway

Be sure to clench the steering wheel all the time during driving on an expressway; when changing the lane or overtaking, rotate the steering wheel slowly with the smallest possible rotation angle to prevent the vehicle from losing balance due to fast speed, fast rotation of the steering wheel and large rotation angle; depress the brake pedal gently before braking, and do not perform emergency braking so as to prevent the vehicle from deviating.



Follow the traffic rules and regulations during driving on an expressway. Speeding is not allowed; be sure to decelerate timely to keep a safe distance from the vehicle in front.

Mountain road

Avoid other vehicles actively, keep to the right, decelerate timely and honk the horn in advance when driving on a mountain road.



Muddy road

Slow down and drive safely during driving on a muddy road.



Uneven road

Slow down to prevent the chassis from being scraped during driving on an uneven road.



Wide and straight road

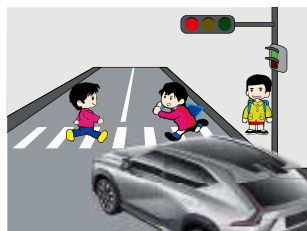
Do not relax vigilance, become distracted and do speeding owing to the wide road, a few vehicles and pedestrians during driving on a wide and straight road.



DRIVING

Crossroad

With many pedestrians or vehicles, traffic accidents are quite likely to happen at a crossroad. Therefore, stay highly focused when driving through a crossroad. If traffic lights are installed at a crossroad, follow the guidance of the traffic lights to drive through the crossroad; if not, keep an eye on the pedestrians or vehicles and confirm the safety before driving through the crossroad.



Curve road

During driving through a curve road, the faster the speed is and the faster the steering wheel is rotated, the greater the inertia of the vehicle is and the greater the centrifugal force is, leading to vehicle sideslip easily or even rollover. Accordingly, decelerate in advance, rotate the steering wheel slowly and pay attention to the front traffic conditions when driving through a curve road.



Slope

Before driving uphill, carefully check if the vehicle is loaded uniformly and reasonably, check the condition of the vehicle, braking performance in particular, and try the braking effect if necessary.

Before driving downhill, check the braking performance carefully. It is forbidden to shut down the engine or engage the neutral gear for coasting. If the brake fails, release the accelerator pedal, control the vehicle speed with the vehicle's own drag, and decisively take advantage of a natural obstacle to block the vehicle and consume its inertia so that the vehicle is parked at the natural obstacle to get out of danger.



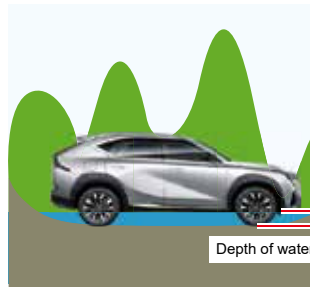
Precautions under various weather conditions

Driving on a rainy day

Drive slowly and maintain a certain distance from the vehicle in front; in the event of emergencies, take measures timely, and do not rotate the steering wheel urgently or perform emergency braking to prevent vehicle sideslip and rollover.

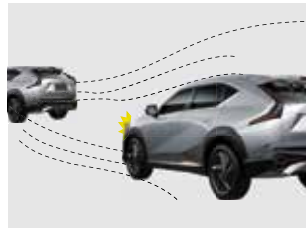


Before driving through a water-logged road section, check the water regime first: For a road with a sign, the depth of the water shall not be greater than the minimum ground clearance of the vehicle (for specific data, see “Dimension” in Section “Vehicle Parameters” of the Operating Instructions. Drive slowly and do not shut down the engine when passing through a water-logged road section. For a road section where the depth of water cannot be judged, take a detour.



Driving on a foggy day

It is hard for the driver to see the road condition clearly on a foggy day because of low visibility and blurry vision, making driving dangerous. In this case, turn on the position lamp, the low beam and the tail lamp and drive slowly. In case of dense fog, stop the vehicle, and continue to drive after the fog disperses.



Driving on a snowy day

The rear wheels are prone to wheel-spin on a slippery road with little adhesion. Accordingly start the vehicle and drive slowly at a constant speed. The braking distance is long on a road covered with ice or snow. Therefore, maintain a sufficient distance from the vehicle in front while driving so that you can detect the forthcoming situation early and get ready to stop the vehicle in advance. It is forbidden to engage the neutral position for coasting. The driver may have eye fatigue or even be dazzled for a short time by the reflected light of the snow on the road. Under such circumstance, the driver must decelerate to stop the vehicle, and continue to drive after his or her vision recovers.



Other precautions

Precautions for expansion tank

Do not open the expansion tank when its cap is hot. Otherwise, steam or coolant comes out, easily leading to a severe scald.



Carrying animals

Be careful not to let animals carried in the vehicle run around to avoid impeding driving.



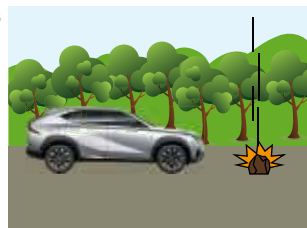
Animals rushing to the center of the road

Try not to honk the horn to prevent the animals from being frightened. Check the traffic condition behind this vehicle and decelerate to ensure that no danger will appear while the animals are avoided.



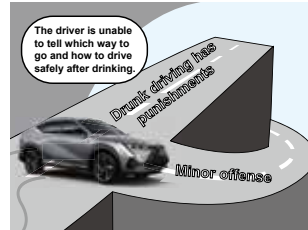
In case of falling objects from the vehicle in front

If you maintain a safe distance from the vehicle in front, slow down and try to change the lane. If the front windshield is broken by a falling object because of the close distance, decelerate to stop the vehicle and contact the GAC Motor authorized shop for inspection.



No drunk driving

Drunk driving is quite dangerous. Even one cup of wine may affect the judgment of a person. Thus never drive after drinking.



Accident handling

In case of vehicle fires, leave the vehicle quickly, call 119, and meanwhile inform the GAC Motor authorized shop.



Avoiding damage to the underbody



During driving from a flat road to an upslope and a downslope, or driving from an upslope and a downslope to a flat road



During driving on an uneven road



During parking along the shoulder curbs



During parking at a parking bay with blocks

How to achieve fuel-efficient driving?

- Common reasons for high fuel consumption: bad driving habits, dirty air cleaner, using leaded or inferior gasoline, blockage of the fuel injector nozzle, insufficient tire pressure and so on.
- After the vehicle is started, run the engine at an idle speed for a period of time, start to drive, and then slowly depress the accelerator pedal to speed up.
- Do not speed up or brake rapidly while driving. Instead, do it steadily, and take care to observe the driving condition in front of this vehicle. Do not follow the vehicle in front too closely in downtown, and release the accelerator pedal early at a red light; the idling time of the engine should not be too long; keep driving at a constant speed of 90~100 km/h on an expressway. In this way, fuel consumption can be reduced properly. Cruise control helps control the accelerator more precisely to maintain a steady speed, which is conducive to reducing the fuel consumption.
- Keeping the vehicle in good condition is also an effective means to save fuel. For example, check if the spark plug works normally, if the air cleaner is clean, if the gasoline or oil filter is clean and if the fuel injector nozzle is blocked, etc. Next, ensure that the tire pressure is normal in that insufficient tire pressure will increase the fuel consumption.
- For new vehicles in the running-in period, high fuel consumption may occur. Nevertheless, the fuel consumption in the running-in period can be effectively reduced if you get into good driving habits, and control the driving speed in cities and suburbs at 50~80 km/h and the engine speed at 1,500~3,000 r/min.
- The automatic transmission determines the gear shifting time based on the operation of the accelerator. If the accelerator is eased back, the upshifting time will be early. If not, the transmission will stay in the low gear for a longer period of time to obtain more power, and the fuel consumption will also be higher.

What kind of damage will inferior fuel bring to the vehicle?

Inferior fuel will generate plentiful carbon deposits, and carbon deposits on the piston will lead to weak acceleration, start difficulty, increased fuel consumption and abnormal wear.

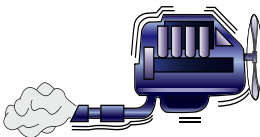
If the paraffin and sulfur in the fuel exceed the limit, acidic materials generated during combustion will corrode the engine severely.

Impurities mixed in the fuel will block the filter and fuel passage or even cut off the fuel passage in severe cases, and increase mechanical wear.

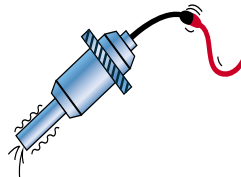
If the fuel contains water, it will corrode the vehicle components and lead to failure of the additive in the fuel, producing more gelatin which affects the engine life.

Good fuel must have the following features:

- Strong accelerating ability
- Air resistance prevention
- Great knock resistance
- Corrosion resistance
- Strong moving ability
- Steady operation of the engine
- Low fuel consumption
- Not prone to deterioration and generation of gelatine



Insufficient octane number (namely grade of the gasoline) will induce the engine knock.

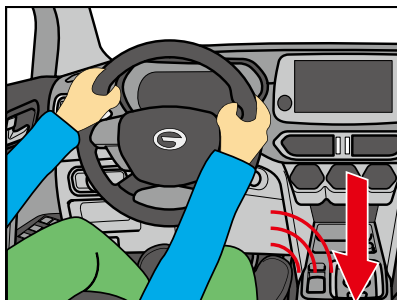


Excessive arene and olefin will lead to excessive content of gelatine, blocking the fuel passage and fuel injector nozzle.

Why is there jitter during emergency braking (accompanied by slight noise)?

During emergency braking, to ensure the minimum braking distance and steering of the vehicle, ABS will work and distribute brake force to tires according to computer commands to roll and slide the tires alternately so that the vehicle body and brake pedal shake.

When ABS works or performs self-test, the motor inside the module will operate for a short time and the valve body will be opened and closed frequently, accompanied by slight noise.



Please feel relieved to use the vehicle because the phenomena mentioned above are normal.

Why should the engine be kept idling for a period of time before shutting down the engine?

The speed and temperature of the turbocharger will be the highest when the engine works at its maximum output power or maximum torque. Accordingly, before parking, the engine is required to operate at a moderate or idle speed or under light load for a period of time so that the engine keeps certain lubricating and cooling abilities to lower the operating temperature of the turbocharger gradually. In this way, the turbocharger can be prevented from operating in lack of oil, and the lubricating oil left in the bearing or bearing housing can be prevented from being carbonized to generate carbon deposits.

Why is crackling sound heard from the chassis sometimes after cold start or shutdown of the engine?

During cold start, the exhaust pipe and other components will expand rapidly due to heating, producing crackling sound occasionally; likewise, after the engine is shut down, the exhaust system will contract with temperature drop, and similar sound will arise occasionally at this moment. Please don't worry because it is a normal phenomenon of expansion caused by heat and contraction by cold, which won't cause any damage to the vehicle.

The temperature of the gas exhausted from the engine is high. During cold start, the temperature of the exhaust system will rise rapidly when the high-temperature gas passes through the exhaust system. Owing to the principle of expansion and contraction, the exhaust pipe will expand slightly, producing light sound in the vicinity of the exhaust pipe; likewise, after the engine is shut down, the exhaust pipe will contract slightly due to the principle of expansion and contraction, making light sound in the vicinity of the exhaust pipe.

Please feel relieved to use the vehicle because the phenomena mentioned above are normal.

Why is “cooing” noise heard when the brake pedal is released to start the vehicle with AT?

When the driver is going to brake or release the brake pedal to start the vehicle with AT, the engine is still transmitting power for the vehicle, and meanwhile the braking force still exists between the brake disc and the brake lining, generating friction sound between them. And this sound becomes cooing after being amplified by the compartment. Most vehicles with automatic transmission have such sound, which is normal.

Please feel relieved to use the vehicle because the phenomena mentioned above are normal.

Why is coasting in the “N” gear not allowed while the vehicle is running?

The structure of automatic transmission is different from that of manual transmission, which performs self-lubrication according to the vehicle speed, namely splash lubrication. However, the automatic transmission is lubricated by pressure internally, while the pressure is dependent on the engine speed. For example, when the “N” position is engaged at a vehicle speed of 40 km/h, the transmission is operating at high speed internally at this time, but the engine speed remains at idling, and accordingly the oil pump of the transmission can only provide the lubricating oil pressure at idling. Hence if the “N” position is engaged for coasting in a long time, the clutch in the AT will be worn excessively due to lack of effective temperature drop.

Therefore, please do not engage the “N” gear during driving!

Why is a sound heard when the electric park brake is applied or released?

As the EPB is controlled by motor, the motor will work and make an operating sound when the EPB is applied or released.

Please feel relieved to use the vehicle because the phenomena mentioned above are normal.

Why does the vehicle deviate?

Strict four-wheel alignment and deviation inspection must be performed on the vehicle before delivery. Obvious deviation shall not be allowed during driving. During actual driving, the vehicle may slightly deviate owing to the effect of road surface roughness, wind direction, inconsistent left and right tire pressure and other external environments.

Besides, please avoid some bad driving habits, such as hands off the steering wheel. Under such circumstance, the vehicle will also deviate because the steering wheel is not centered due to the effect of external environmental factors. Furthermore it may be quite dangerous during high-speed driving or emergency braking. Thus please do not take your hands off the steering wheel at the same time for your own safety.



Why does water dripping occur under the vehicle?

When the A/C system performs cooling, the air temperature in the vehicle drops rapidly on the evaporator of the A/C system, and vapor in the air is condensed into water and discharged through the drain pipe to the ground directly. In addition, the temperature of the low-pressure pipe of A/C is lower than the ambient temperature during cooling, and vapor in the outside air will also condense into water drops on the surface of the low-pressure pipe at cold temperature and then drip to the ground.



What points should be noticed during the battery use?

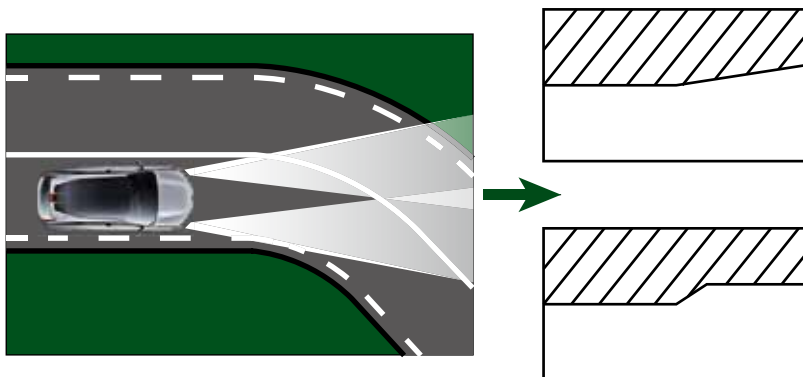
Attention shall be paid to the following aspects during daily use:

Before parking to leave the vehicle, please turn off all lamps and electrical equipment in the vehicle to prevent the battery from discharging for a long time.

If the vehicle is to be put aside for more than 15 days, cut off the battery negative wire, or start the vehicle every several days for a period of time to charge the battery properly.

Why are the beam directions of left and right lamps inconsistent?

Since China adopts the rule that left-hand drive vehicles travel on the right side of the road, according to the regulations of headlamp lens for vehicles, all vehicle lights are low on the left side and high on the right side, namely low on the driver side and high on the passenger side. Such rule is aimed at avoiding obstructing the view of the driver in an oncoming vehicle during meeting, as well as illuminating the road ahead. As a result, the inconsistent beam directions of left and right headlamps are required by regulations.



Why is noise heard from the radio sometimes?

Radio signals are sent from the broadcasting station, received by antenna and then enter the radio through the antenna amplifier. The intensity of the received signals depends on the following factors:

1. Too small power output of the broadcasting station (the transmission distance and range of low-power radio broadcast are limited).
2. The position of the vehicle relative to the launch tower (the closer the vehicle is to the launch tower, the stronger the signals are).
3. Atmospheric conditions (for example, a strong electromagnetic field in the atmosphere will disturb the signals).
4. Frequency band of the radio broadcast (FM or MW).
5. Ground conditions (for example, tall buildings, hills or surrounding vehicles will disturb the FM signals, which makes the sound fade in and out).
6. Obstacles between the launch tower and the vehicle.

Why does the wiper work improperly?

Mainly made of rubber and exposed to sunlight and rain for a long time, rubber strips of wiper blades cause aging of the wiper blades.

Damage that can be recognized through eyes:

Crack, rust, deformation, adherent matter, discoloration, etc.

Damage that can be recognized through ears:

Abnormal sounds such as runout and jitter sounds.

Damage that can be recognized through hands:

Hardened rubber, loose metal parts, etc.



Phenomenon: Spindly horizontal stripes affect the view.
Reason: The rubber strips of wiper blades are covered with foreign objects or the edges of the rubber strips are damaged.
Solution: Clean the edges of the rubber strips and replace the wiper blades if the phenomenon does not disappear.



Phenomenon: The wiper blades make abnormal sound, jump and fail to move smoothly.
Reason: There is oil on the windshield or the rubber strip is out of shape.
Solution: Clean the windshield and replace the wiper blades if the phenomenon does not disappear.



Phenomenon: Spotty water marks remain after the wiper blades work.
Reason: The rubber strip is out of shape.
Solution: Replace the wiper blades.



Phenomenon: The rubber strip fails to fit the windshield surface, leading to uneven wiping.
Reason: The rubber strip or the frame of the blades is out of shape, leading to insufficient pressure.
Solution: Replace the wiper blades.

What points should be noticed during the use of wiper?

1. The wiper blades are used to clear the rainwater on the windshield, and thus must be applied in the event of rainwater. The wiper blade can never be applied without rainwater on the windshield because the frictional resistance will increase in this case, which may cause damage to the rubber blades and the wiper motor.
2. When clearing dust on the windshield surface using the wiper blades, be sure to spray windshield washer fluid simultaneously. Never apply the wiper blade without the fluid.
3. In case of hard things on the windshield, such as dry faeces of pigeon and other birds, do not directly wipe them using the wiper. Instead, please manually remove the bird droppings first. These hard things are extremely easy to cause local damage of the wiper blade sheet, making the wiper work improperly.
4. Premature scrapping of some wiper blades is directly related to improper vehicle washing. If the oil film on the surface is washed away when the windshield is wiped carelessly during vehicle washing, firstly, it is unfavorable for rainwater to flow down, causing rain easy to stop on the windshield surface, and secondly, it will increase the frictional resistance between the sheet rubber and the windshield surface. This is also the reason for instant pause of the wiper blades due to wiping failure. If the wiper blades do not work but the motor continues operating, it is quite easy to cause damage to the motor.

How to deal with the fog on the window?

Solution to fogging on the windows

Cause: Since the air temperature in the vehicle is higher than that of the outside in winter or rainy days, vapor in the vehicle will condense into fog when touching the windows with low temperature. The generation of fog is a natural phenomenon. And the smaller the space is in the vehicle, the larger the number of occupants is, the more severe the situation will be



Solution: The front windshield and side windows can be defogged by the A/C; the rear windshield must be defogged with the rear windshield defrosting/defogging function.

Principle of defogging with A/C

Air circulation

Change the air circulation mode to the fresh air mode to improve the air exchange with the outside air and reduce the humidity and temperature difference in the vehicle.

Defogging by cold air

Set the A/C to low temperature and remove the fog on the window surface by drying with cold air.

Windshield defrosting/defogging function

Heat the whole windshield using warm air or a heating wire to make the windshield temperature much higher than the condensation point at the humidity so that the fog is unable to condense on the windshield and the condensed fog is evaporated due to high temperature.

How to decrease the cabin temperature in hot weather?

Adjust the A/C to the expected temperature, set the circulation mode to the fresh air mode and open the window for 1-2min (which can exhaust the high-temperature air from the vehicle quickly), then change it to the recirculation mode and close the window.

Why is heavy noise heard from the air outlet when the A/C is turned on in a hot weather?

If there is a huge difference between the set temperature and the actual one in the vehicle when the A/C is turned on, the A/C system will choose the maximum air speed automatically to reduce the temperature rapidly. At this time, noise from the air outlet will be relatively obvious, which is normal and requires no worry.

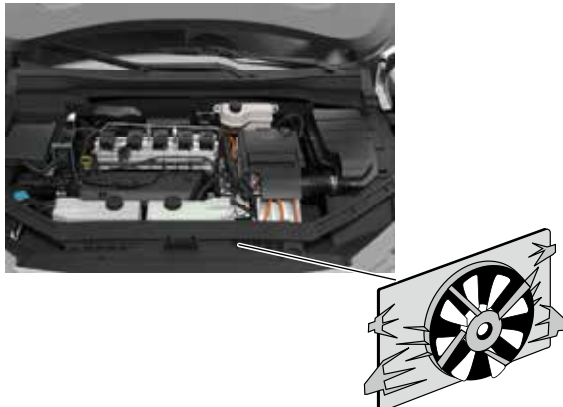


If bothered by noise from the air outlet, you may take the following measures:

1. Adjust the expected temperature to make it closer to the actual temperature in the vehicle.
2. Change the automatic mode to the manual one and reduce the fan speed.

Why does the cooling fan still run after the vehicle stops?

When the temperature of coolant is higher than the set value or the pressure of A/C is greater than the prescribed value, the cooling fan will operate to reduce the temperature of the coolant, protect the parts against damage, and ensure that the A/C system works under normal pressure so as to realize better cooling effect.



Why can the rear door not be opened from inside?

During daily use, the rear door may not be opened from inside. In this case, please check if you have accidentally operated the child safety lock.

The child safety lock is used to prevent a child at the rear seat from opening the rear door when he plays with the door handle during driving, to avoid unnecessary safety risks. Thus once the child safety lock is activated, the rear door cannot be opened from inside.

Why is an airflow sound “poof” heard in the vehicle when the rear door window is opened?

This is a common phenomenon for general vehicles. Most vehicles will make similar sound under specific circumstances, which is a normal aerodynamic phenomenon.

All you have to do is to open the front window on any side by over 5 cm or close all windows to eliminate the airflow sound.



How to clean the stubborn stains in the interior trim?

During use of the vehicle, it is inevitable to soil the interior trim sometimes. In case of stubborn stains that are difficult to be cleared, you can go to the GAC Motor authorized shop for consultation and purchase related cleaning agent to clean the interior trim.

How to remove the unpleasant odor in a new vehicle?

Methods of removing the unpleasant odor in a new vehicle:

Natural ventilation: Maintain good ventilation of the vehicle.

Absorption method: Place some articles that can absorb unpleasant odor (such as activated charcoal, bamboo charcoal and pomelo peel) in the vehicle.

Good using habits: Do not use cheap perfume in the vehicle, which can only cover the unpleasant odor instead of eliminating it thoroughly; try to avoid smoking and feeding in the vehicle.

How is tire bulge generated?

Causes:

Since the tire shoulder or the tire bead close to the tire shoulder heavily hits against the outside foreign objects (e.g. pot hole, road shoulder and stone) during driving, severe extrusion between the rim flange and the object causes broken yarn of the tire fabric, and then the inner air of the tire rises from the broken yarn and forms bulges.

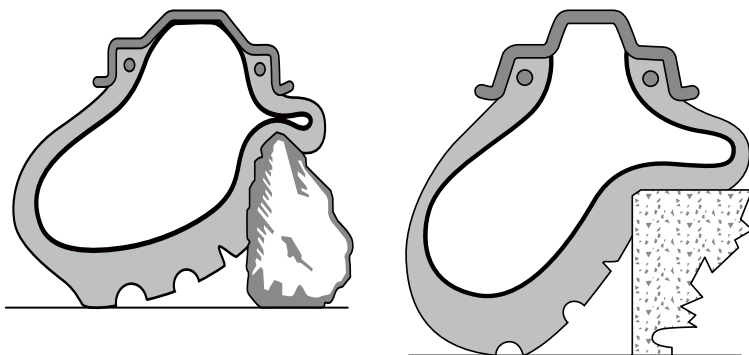
Countermeasures:

If a tire is bulged, its safety will greatly decrease and the tire is easily to burst. It is recommended to replace the bulged tire. If you insist on using it (suppose the bulge is not severe), install it to the rear wheel.

Preventive measures:

Either too high or too low pressure does no good to the tires. If the pressure is too high, the tire will become hard, reducing the riding comfort of the vehicle, and the tire will be stretched too long like a rubber band, have no elasticity, and be easily broken when subject to great external force; if the pressure is too low, the tire will become soft, the fuel consumption of the vehicle will rise, and the tire will tend to break due to great shear stress generated between an obstacle and the rim in case of collision.

Moreover, it is also important to improve the driving habits. During driving at high speed on a road section with bad road conditions, the tires are likely to run into a pit or other foreign objects, leading to severe compressional deformation of the tires between the impacting object and the rim flange, which causes broken yarn of the tire fabric at the sidewall. In this case, the inner air of the tire rises from the broken yarn and forms bulges. Besides, during climbing the road shoulder or parking, tire scraping against an obstacle may also damage the sidewall, forming bulges. Accordingly, try to avoid these situations.



Why the “click” sounds are heard from the engine for a while during cold start?

Leaving valve clearance in the valve train will cause the valve train to make impact and noise while the engine is operating. To eliminate such a defect, some engines adopt a hydraulic tappet mechanism to realize zero valve clearance.

There is an oil cavity in the hydraulic tappet. When the valve is closed, the oil cavity will be filled with oil, making the tappet touch the cam all the time; when the cam opens the valve, the oil will be squeezed out again (the amount of the squeezed oil is controlled by the clearance) to ensure that the tappet keeps touching the cam.

However, when the engine is cold, running noise may occur for a short time because the oil pressure in the hydraulic rod cannot reach the prescribed value immediately. This is a normal phenomenon and requires no worry.

How to avoid a traffic accident?

Keep sober-minded and step up vigilance when following other vehicles. Never get distracted during driving. Clearly and effectively communicate with other drivers by turning on the signal lamp in advance to inform them of your driving intention. Adopt a preventive driving method, predict the driving intention of the users on other roads, and keep an elliptical space around this vehicle. Stay focused and do not pay any attention to other matters that have nothing to do with driving.

Why should the engine be kept idling for a period of time (3~5 minutes) after cold start?

If the engine accelerates immediately after start, the turbocharger will work at the maximum speed before its bearing is lubricated fully, which will damage its bearing and reduce its service life.

Why does the engine sometimes start suddenly after starting a hybrid vehicle?

When the traction battery is too low, the vehicle will automatically start the engine to charge the traction battery; or when the high-speed vehicle enters direct drive mode, the engine will automatically start and drive the vehicle together with the drive motor. Therefore, when the vehicle is started and used, the engine sometimes suddenly starts and the engine running sound is heard, which is normal and requires no worries.

How to deal with a serious traffic accident?

In case of traffic accidents during driving, both the driver and the passengers are obliged to save the injured. It is suggested that you prepare some first-aid appliance, practise first aid and accumulate knowledge about first-aid.

1. Prevent the accident from worsening:
 - Move the vehicle to a safe location, turn on the hazard warning lamp and place a warning triangle behind the vehicle, informing subsequent vehicles of the accident ahead.
2. Perform emergency treatment on the injured before the ambulance arrives:
 - Observe the injury of the injured.
 - Check for consciousness (call the injured).
 - Check for breath (check if the chest of the injured rises and falls, and so on).
 - Check for pulse (use your index and middle fingers to feel the pulse at the neck of the injured).
 - Check for bleeding (check if each part of the injured bleeds).
 - If the injured are unconscious but still breathe, tilt their heads back to keep the respiratory tract smooth, and then encourage their sense of survival in words.
3. Call 120 to save the injured:
 - Report the following information and wait for instructions.
 - The location where the accident takes place.
 - The number and state of the injured.
 - Damage to the vehicle.

What is auto beauty?

Concept of auto beauty

In the early days, drivers clean their cars mostly by themselves merely using simple tools, including a water pipe, a brush, a bucket, a packet of washing power and a piece of cleaning cloth. It is feasible to use these things to deal with trucks, but unscientific and rough to clean modern cars with these tools. This cleaning method not only fails to clean and care for the vehicle properly, but causes damage and new rust to the top coat, thus reducing the service life of the vehicle.

“Auto beauty” is referred to as “Car Beauty” or “CarCare” in western countries. With the development of the entire automobile industry, the auto beauty industry has reached a quite perfect state in western countries. They describe such an industry as “Car carecenter”, also referred to as “the quaternary industry”. The so-called quaternary industry, as its name suggests, refers to the fourth step following automobile production, sales and maintenance. Car care has become a popular and professional service industry. It is a brand-new concept of automobile maintenance, which is fundamentally different from car waxing.

Auto beauty not merely includes simple waxing, deodorization, stains and dust removing, cleaning services inside and outside the vehicle and other regular beauty care. Instead, the so-called auto beauty is to care for the vehicle by using professional high-tech equipment for auto beauty as well as different auto beauty care products and processes according to the maintenance conditions required for different materials of parts of the car. It not only makes the car new and maintains its bright color, but changes the old car into a new one, keeps the value of the new car, and prolongs its service life.

How to perform auto beauty?

Main items of auto beauty

The modern auto beauty services can generally be divided into body beauty, interior trim beauty, and paintwork treatment.

Body beauty

The body beauty services comprise high-pressure car washing, removing of pitch, tar and other pollutants, waxing and mirror finish, sealing wax removing (for new cars), renovation of wheel rims, tires and bumpers, treatment of the anti-corrosive coating on the chassis and other items.

Interior trim beauty

The interior trim beauty services consist of compartment beauty, engine compartment beauty, trunk cleaning and other items. The compartment beauty includes the dust removing and cleaning of the instrument panel, roof, carpet, seats, seat covers and door interior trim, steam sterilization, deodorization of the air outlet, indoor air purification and other items.

Paintwork treatment

The paintwork treatment services can be divided into treatment of the oxidation film, splashed paint and acid rain, treatment of deep and shallow scratches on the paintwork, treatment of partial damage to the paintwork, and vehicle painting.



GAC MOTOR

CAUTION

This guide is intended to promote good driving habits. For the operation of the vehicle, please refer to the accompanying Owner's Manual. And please drive in accordance with local regulations.

GAC MOTOR CO., LTD.

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