4. Starting and driving

You can check information regarding the basic equipment for safe driving, auxiliary equipment that helps you to drive comfortably, and how to use such equipment.

An explanation is provided for the START/STOP switch and smart key as well as the driving system including the instrument cluster, gear shift lever, 4WD, cruise control, auxiliary driving systems such as the brake and autonomous emergency braking system, rear and side warning, lane departure warning system, and parking assist system.

Starting the engine and driving the vehicle

Engine starting (REKES)

- 1 Apply the parking brake.
- 2 Make sure that there are no persons or obstacles in the dangerous area around the vehicle.



- The engine in automatic transmission equipped vehicle can be started only when the gear selector lever is at the "P" or "N" position. The engine in manual transmission equipped vehicle can be started only when the clutch pedal is fully depressed.
- Do not turn the ignition key to the "START" position while the engine is running. It could result in serious start motor damage.

3 * Automatic transmission equipped vehicle

Move the gear selector lever to the "P" position and depress the brake pedal.

* Manual transmission equipped vehicle

Move the gear shift lever to the Neutral position and fully depress the brake pedal and the clutch pedal.

$oldsymbol{\Lambda}$

Warning

- Depress the brake pedal when the gear shift lever is at the "P" (A/T) or "Neutral" (M/T) position. Never depress the accelerator pedal.
- 4 * Gasoline engine equipped vehicle

Insert the ignition key into the key cylinder and turn it to "START" position and hold it there without depressing the accelerator pedal until the engine starts (a maximum of 10 seconds), then release the key.

* Diesel engine equipped vehicle

Insert the ignition key into the key cylinder and turn it to the "ON" position. As soon as the glow indicator (700) goes out, turn it to "START" position and hold it there without depressing the accelerator pedal until the engine starts (a maximum of 10 seconds), then release the key.



Caution

- If the engine fails to start, turn the key back to "LOCK" position and wait for 10 seconds. Then try again before any attempt to start the engine.
- Warm up the engine properly according to the ambient temperature.

Engine starting (Smart key)

- 1 Apply the parking brake.
- 2 Make sure that there are no persons or obstacles in the dangerous area around the vehicle.



Caution

- The engine in automatic transmission equipped vehicle can be started only when the gear selector lever is at the "P" or "N" position.
- Do not press the engine start/stop button while the engine is running. It could result in serious start motor damage.
- 3 Move the gear selector lever to the "P" position and depress the brake pedal.



Warning

- Depress the brake pedal when the gear selector lever is at the "P" position. Never depress the accelerator pedal.
- Press the engine start/stop button and check that the indicator on the button comes on in green (Engine start/stop button ON position).

Press the engine start/stop button to start the engine with the engine start/stop button ON position (indicator ON). The indicator on the button goes out when the engine is started.



Caution

- Do not press the engine start/stop button for a long time even though the engine fails to start.
- If you leave the engine start/stop button in the "ACC" or the "ON" position for a long time when the engine is not running, the battery may be discharged.



Warning

- The engine will start by pressing the engine start/stop button, only when the smart key is in the vehicle. Never allow children or any person who is unfamiliar with the vehicle to touch the engine start/ stop button or related parts.
- If ESCL warning message appears on the display, immediately have the system checked by KG Mobility Authorized Service Center.
- Continuous driving with this message may cause serious damage to the steering system.

Notice

- To make the engine start easy, start the engine as follows in very cold weather.
 - 1. Press the engine start/stop button twice without depressing the brake pedal.
 - The engine start/stop button becomes ON and the preglow indicator on the instrument cluster comes on.
 - Wait until the indicator goes out, and depress the brake pedal and press the engine start/stop button.
- In the vehicle equipped with ESCL (Electrical Steering Column Lock) system, you may hear an operating sound from motor when starting and stopping the engine. This is normal operating condition.

Driving off

- Make sure that there are no persons or obstacles in the dangerous area around the vehicle.
- 2 Release the parking brake.
- 3 * Automatic transmission equipped vehicle

Keep the brake pedal depressed and shift into the "D" or "R" position. Make sure that the position indicator of "D" or "R" comes on. Slowly release the brake pedal to begin moving.

* Manual transmission equipped vehicle

Keep the brake pedal and clutch pedal depressed and shift into the "1" or "R" position. Release the brake pedal and gradually depress the accelerator pedal while slowly releasing the clutch to begin moving.

Stopping the engine

- 1 Depress the brake pedal to stop the vehicle.
- 2 * Automatic transmission equipped vehicle

Move the gear selector lever to the "P" position.

- * Manual transmission equipped vehicle Move the gear shift lever to the Neutral position.
- 3 * REKES system equipped vehicle Turn the ignition key to the "LOCK" position.
 - * SMART Key equipped vehicle Press the engine start/stop button.
- 4 Apply the parking brake.
- 5 Remove the ignition key from the key cylinder (REKES).

Notice

 Diesel engine learning mode: The learning mode of the fuel injector is performed while the vehicle is driven or stationary to maintain the optimized engine condition.
 Weak noise and vibration of the engine may be accompanied by this mode. But, it is normal operation.



- Starting the vehicle in the winter months or operating the A/C in the summer months increases the engine rpm. Drivers must be careful when driving at this time because the vehicle can move faster than normal.
- Any modifications or alterations to this vehicle, including installation of an electronic device such as after-market remote starting system, could seriously affect its performance and safety and may lead to a serious injury or death.
- Using a mobile telephone or two-way radio requires careful considerations. The electronic control system of the vehicle is subject to possible errors due to electronic interference caused by improper use of these devices, and the electromagnetic waves can be harmful to the human body.
- When leaving the vehicle unattended, always turn off the engine to prevent unexpected rolling away.
- Always apply the parking brake with the brake pedal depressed when the vehicle is stopped.
- Do not store personal belongs and valuables inside the vehicle. When leaving the vehicle unattended, always make sure all the doors including the tailgate are closed and locked.

- Improper alignment of vibration dampers for the exhaust system (rubber hanger bracket) may result in serious vibration problems. When reinstalling the exhaust system after undercoating, check the alignment of the dampers.
- Always check the accelerator and brake pedals with your right foot before starting the vehicle. Even an experienced driver can accidentally hit the wrong pedal if he/she drives different vehicles.
- Power unit of the vehicle operates independently of the braking system of the vehicle, so just calmly depress the brake pedal to stop the vehicle when it moves unintentionally due to the driver error including pedal misapplication or a malfunction.

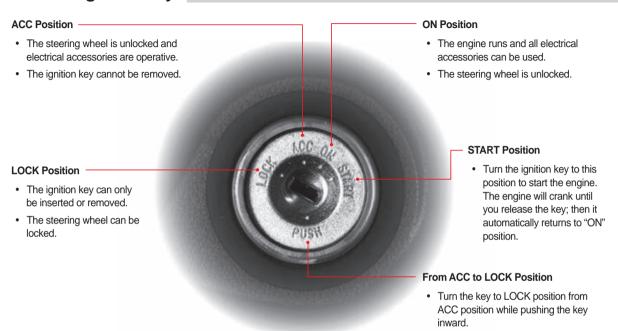


• Caution

- · If your vehicle becomes stuck in snow. mud or sand, depressing the accelerator pedal harder only makes the tires slip more which in turn causes damage to the transmission. If this happens, tow the vehicle away or take other actions as appropriate.
- · Always contact the nearest KG Mobility **Dealer or KG Mobility Authorized** Service Center for adding and changing transmission fluid. A non-genuine fluid can cause various problems including malfunction and performance deterioration of the transmission, and those damages are not covered by the warranty.
- · The application of tint film, especially metallic film, may interfere with radio signals. Low visible light transmission (VLT) of the film can lead to malfunction in the headlamp. Also, make sure that no liquid solution for application of tint film flows into the electronic components of the vehicle to prevent error or malfunction.
- · The tinted glass with very low VLT and enhanced solar control characteristics reduces visibility through the glass significantly, especially at night or in the rain, thereby causing unforeseen safety problems.

. The interior materials of the new vehicle within a year or use can emit volatile organic compounds (VOCs). Therefore, always open all the windows for sufficient ventilation before entering. Those chemicals can cause headaches and dizziness especially in the cabin of the vehicle parked for a long time in direct sunlight. Therefore, to prevent the driver and passengers from being exposed to these harmful chemicals and keep the comfortable indoor environment, set the air source selection switch to the fresh air intake mode for as long as possible or open the windows periodically while drivina.

Functions of ignition key



Unlocking the Steering Wheel

To unlock the steering wheel, insert the key and gently turn it to the ACC or ON position while slightly moving the steering wheel right and left.

Key Hole Illumination

The illumination lamp comes on when opening the door. This lamp goes out about 10 seconds after closing the door.

Key Reminder

The buzzer will sound if the driver's door is opened while the key is left in the ignition switch (ACC or LOCK position).

when starting the engine



Caution

- To unlock the steering wheel, insert the key and gently turn it to the "ACC" position while slightly moving the steering wheel right and left.
- The engine in a manual transmission equipped vehicle can only be started when the clutch pedal is fully depressed.
- Diesel engine equipped vehicle: Turn the ignition key to the "ON" position and wait until the glow indicator goes out. After then, turn the ignition key to the "START" position and hold it until the engine starts. But do not hold the ignition key at the "START" position for more than 10 seconds.
- The engine in an automatic transmission equipped vehicle can be started only when the gear selector lever is at the "P" or "N" position.
- Keep the brake pedal depressed when starting the engine.
- If the engine fails to start, turn the key back to the "LOCK" position and wait for 10 seconds. Then try again before any attempt to start the engine.
- After starting the engine, let it run for approx. 2 minutes at idle speed. Do not accelerate the engine during the warming up period.

- A warning buzzer sounds when opening the driver's door with the key positioned at the "ACC" or "LOCK" position.
- Do not leave the key at the "ACC" or "ON" position when engine is not running.
 Otherwise, the battery could run down.
- Never depress the accelerator pedal while starting.



- Do not operate the starter for more than 10 seconds at a time. (The starter may be damaged.)
- To prevent any damage to the starter, put the ignition switch to the "LOCK" position and wait for at least 10 seconds before restarting the engine.
- Never turn the key to the "LOCK" position or remove the ignition key from the ignition switch while driving. The steering wheel will be locked and you may end up with serious injuries.
- Never use any duplicated key not provided from KG Mobility.
- The duplicated key might not turn back to the "ON" position. It may cause a fire due to an overload in the electric circuit. In addition, the engine with the immobilizer system cannot be started with the duplicated key.

- For a vehicle with automatic transmission, apply the parking brake with the gear selector lever in "P" position. Otherwise, the vehicle can roll away unexpectedly causing a serious accident.
- Do not operate ignition switch or other switches while driving. You will not be able to control the steering wheel or the vehicle and could be seriously or even fatally injured.
- Do not stack luggage or other cargo around the driver seat. Any such objects could interfere with your control of the vehicle and can cause harm.

Bettery replacement for REKES key

When the operational distance noticeably decreases or the remote control does not work occasionally, replace the battery with a new one.

The internal circuit of remote control key is vulnerable to static electricity. If you are not familiar with replacing the battery, replace it at KG Mobility Dealer or KG Mobility Authorized Service Center



Replacing Procedures:

- 1 Remove the cover at the back side of the REKES key using a smallest flat-bladed screwdriver while taking care not to damage it.
- 2 Remove the rear cover and replace the battery.



- 3 Use only specified battery (CR2032). Make sure that the battery is installed in correct direction.
- 4 Install the battery in the reverse order of removal.



- Use only the specified battery. Otherwise, the remote control key may not work properly.
- Make sure that the battery is installed in correct direction.
- Dispose the used battery in accordance with local regulations.
- Both REKES key and smart key are not completely waterproof. Repairing or replacing a damaged key due to water exposure (e.g. Drink, moisture, etc.) will not covered by your warranty.

START/STOP switch

OFF status

The power is turned off.



The indicator is turned off.

 The power is not supplied to the electric accessories of the vehicle.



Caution

 If the gear shift lever is not placed in the P(parking) position, the START/STOP switch cannot be in the OFF status (vehicle power OFF). Also, the vehicle doors cannot be locked and it is impossible to enter the theft monitoring mode.

Notice

 When the engine is turned on, make sure to place the gear shift lever in the P (parking) position and turn off the engine by pressing the START/STOP switch.

ACC status

Some electric accessories can be used.



Orange ACC indicator turns on.

- With the START/STOP switch in the OFF status, press the START/STOP switch once without depressing the brake pedal.
- The power is supplied to the vehicle and some electric accessories can be used.



Caution

 The START/STOP switch in the ACC status is not the status that the engine is turned on. Using an electric accessory in the vehicle for a long period of time in this status may deplete the battery.

ON status

Most electric accessories can be used.



Red ON indicator turns on.

- With the START/STOP switch in the OFF status, press the START/STOP switch twice without depressing the brake pedal.
- The power is supplied to the vehicle and most electric accessories can be used.



Caution

- The START/STOP switch in the ON status is not the status that the engine is turned on. Using an electric accessory in the vehicle for a long period of time in this status may deplete the battery.
- If the smart key system is abnormal, the indicator blinks 5 times with the START/STOP switch in the ON status. Have your vehicle checked and serviced at a KG Mobility authorized service center immediately.

READY status

Possible to start the engine



Green READY indicator turns on.

 This is the status that the gear shift lever is placed in the P (parking) or the N (neutral) position and the brake pedal is depressed for starting the engine.



Warning

 The engine can also be started after the gear shift lever is placed in the N (neutral) position.
 However, start the engine after placing it in the P (parking) position for safety.

Notice

 After you start the engine, the READY indicator turns off.

Starting the engine

When you place the gear shift lever in the P (parking) or the N (neutral) position and press the START/STOP switch while depressing the brake pedal, the engine is started.

Starting the engine

- 1 Get in the vehicle while carrying the smart key.
- 2 Be sure that all occupants fasten their seat belt.
- 3 Check for safety that the parking brake is applied.
- ✓ Turn off all electric accessories.
- 5 Place the gear shift lever in the P (parking) or N (neutral) position.
- 6 Depress brake pedal.
- Check if the READY status indicator on START/STOP switch is turned on.
- 8 If the READY status indicator is turned on, start the engine by pressing the START/ STOP switch.

When the engine is started, the READY indicator turns off.



Warning

 The engine can also be started also after the gear shift lever is placed in the N (neutral) position. However, start the engine after placing it in the P (parking) position for safety.

Notice

 A diesel-powered vehicle requires preheating before the engine is started if the engine is cold, and the vehicle should be driven after the engine is heated.

Restarting the engine when it cannot be started

Wait for more than 10 seconds with the START/ STOP switch in the OFF status and then press the START/STOP switch again to prevent the starting motor from being damaged.



- Do not press and hold down the START/ STOP switch or press it repeatedly because the engine cannot be started.
- The communication with the smart key system is not smooth on top of the seat where the heater function is activated or the floor of the vehicle and the area near the pedal, so the smart key recognition performance may be lowered.
- If the engine cannot be started by pressing the START/STOP switch, press the START/ STOP switch directly using the smart key or have your vehicle checked and serviced at a KG Mobility authorized service center.
 - Refer to "Starting the engine with the dead smart key or interference, etc. (in the event of emergency)" (p.4-30)
- Maintaining the START/STOP switch ACC or ON status and using the audio system with the engine turned off may deplete the battery.

Starting the engine in winter

If you press the START/STOP switch with the brake pedal depressed when it is cold, the engine does not start immediately and the glow indicator (700) on the instrument cluster turns on.

At this time, if you depress the brake pedal until the glow indicator turns off, the engine starts after the glow indicator turns off.

In case of severe cold, start the engine in the following order for smooth engine starting.

- Press the START/STOP switch twice without depressing the brake pedal.
 When the START/STOP switch is in the ON status, the glow indicator on the instrument cluster turns on.
- Wait for a number of seconds until the glow indicator turns off, start the engine with the brake pedal depressed.

Notice

- If the engine is already preheated, the glow indicator may not turn on.
- The preheating time may become longer as the temperature of engine coolant is lower.
 If the outside air temperature is high, as in the summer season, the engine can be started immediately without preheating.

Stopping the engine

The engine can be turned off only when the gear shift lever is placed in the P (parking) position and the brake pedal is depressed.

- 1 After stopping the vehicle completely, keep the brake pedal depressed.
- 2 Shift the gear shift lever to the P (Parking) position.
- 3 Apply the parking brake.
- Turn off the engine by pressing the START/ STOP switch, and then take your foot off the brake pedal.

Be sure to check that the engine is turned off and if there are any other abnormalities, and get out of the vehicle with the smart key.

What is diesel engine learning mode?

The learning mode of the diesel engine fuel injector is carried out while driving or stopping the vehicle in order to maintain the optimal engine condition.

At this time, slight noise and vibration may occur in the engine. This is not a failure of the vehicle.

What is the engine self-cleaning operating sound?

When the engine stops after driving, the system carries out the process to clean the valve where intake air and exhaust gas pass through automatically and perform position learning.

At this time, the operating sound may occur from the engine according to the engine condition and self-cleaning process. This is not a failure of the vehicle.

Stopping the engine while driving (in the event of emergency)

If you need to turn off the engine in an emergency situation such as an accident or vehicle damage while driving, press and hold down the START/ STOP switch for 3 seconds or more, or press it three times within 1.5 seconds

The engine is turned off and the START/STOP switch is set to the ACC status.



Warning

 Never turn off the engine while driving unless there is an emergency situation such as an accident or vehicle damage.
 Doing so may make the steering wheel heavier and lower the brake performance, becoming very dangerous.

Notice

 If the vehicle is driving continuously with the engine turned off, you can start the engine again by placing the gear shift lever in the N (neutral) position and pressing START/STOP switch without depressing the brake pedal.

System safety mode

If a critical system defect occurs or the main electric and fuel systems of the engine are abnormal, the system enters the safety mode in order to protect the vehicle system.

When the vehicle enters the system safety mode, the engine warning light may turn on and the driving performance may decrease or the engine may be turned off.



Caution

- When the vehicle enters the system safety mode, stop the vehicle at a safe place immediately, turn off the engine, tow your vehicle to a KG Mobility authorized service center through the emergency roadside service and have the relevant system checked and serviced.
- If you drive the vehicle in the system safety mode, the engine RPM is fixed, disabling normal driving and the engine may be turned off. Driving the vehicle continuously may damage the system significantly.

Cautions for using the START/ STOP switch



Warning

- The smart key system allows you to start the engine by pressing the START/STOP switch with the brake pedal depressed within its operation range. Caution should be taken that a person who is unfamiliar with the system such as the engine check and in any other situations, especially a child, may start the engine.
- Never press the START/STOP switch while driving. Doing so may result in a dangerous situation due to the suspension of power supply.



• Caution

- · Be sure to start the engine with the brake pedal depressed.
- · Do not depress the accelerator pedal when starting the engine.
- If the engine cannot be started, wait for 10 seconds or more to prevent the starting motor from being damaged and restart the engine.
- · After starting the engine, idle the engine for 1 to 2 minutes and then drive off in the vehicle. In particular, drive the vehicle slowly for approximately 300 m after driving off for smooth rotation of the engine and other driving systems during winter.
- · If you open the door and leave the vehicle with the smart key with the START/STOP switch in the ON status or while the engine is running, a warning message is displayed on the instrument cluster with a warning buzzer.
- · Pay particular attention not to start the engine when checking the vehicle from the outside, especially the engine room.
- · Do not use a non genuine smart key or a replicated key.
- · The communication with the smart key system is not smooth on top of the seat where the heater function is activated or the floor of the vehicle and the area near the pedal, so the smart key recognition performance may be lowered.

- · The vehicle is controlled by various electronic control units. If you attach and use a device that creates radio waves or electromagnetic waves near the smart key or the vehicle, various vehicle control systems may malfunction.
- . When you operate the START/STOP switch while a smartphone is placed near the smart key or charging the smartphone battery through the power socket in the vehicle, the engine may not start occasionally.

Remote control key and ignition key

Panic button (EU) (Operative only when the ignition key is inserted)



- Door Lock Button
- 2 Door Unlock Button
- 3 Panic Button

Panic Button

Panic Function (press and hold)

- If you press and hold this button for approx.
 1 seconds the hazard warning flashers blink and the siren sounds for approx. 30 seconds.
- The panic function will stop when only panic button on the remote control key is pressed.

Door Lock Button

Lock (briefly press)

- If you press this button briefly, all doors and the tailgate are locked and the theft deterrent mode is activated.
- When the theft deterrent mode is activated, the hazard warning flashers blink twice.
 However, if you press this button again in 4 seconds, the hazar



Caution

- To arm the theft deterrent mode, the ignition key should be removed from the ignition switch, all doors including the tailgate and the engine hood should be closed completely. If you press this button when either tailgate or engine hood is open, the doors will be locked but the theft deterrent mode will not be activated. In this case, when you close the opened tailgate or engine hood, the theft deterrent mode will be automatically activated with blinking the hazard warning flashers twice.
- To prevent REKES key damages, do not expose the key to high temperature or do not get the key wet.
- When the doors are locked using the REKES key, make sure to check if they are securely locked including tailgate, in order to prevent from theft.
- With one REKES key left in the ignition key hole, doors cannot be locked using another REKES key.

Notice

- For the setting procedures of automatic folding of outside rearview mirrors, refer to Chapter 4.
- Locking the doors from the driver's door using the ignition key will work the same.

Door Unlock Button

Unlock (briefly press)

- If you press this button briefly, all doors and the tailgate are unlocked and the theft deterrent mode is deactivated.
- The outside rearview mirrors are unfolded when the automatic folding is selected.
- When the deterrent mode is deactivated, hazard warning flashers blink once.
- If a door, tailgate or the engine hood is not open within 30 seconds after unlocking doors using REKES key (ignition key) in theft deterrent mode, all doors will be automatically locked and the hazard warning flasher will blink twice with one warning buzzer sound. (change to theft deterrent mode)

Notice

 For the setting procedures of automatic folding of outside rearview mirrors, refer to Chapter 4.

Short press of unlock button (Safety unlock disabled)

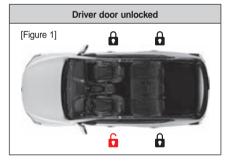
- The doors including the tailgate are unlocked and the theft deterrent system is disarmed.
- The outside rearview mirror is unfolded automatically (outside rearview mirror folding/ unfolding switch not pressed).
- The hazard warning lamp flashes once and buzzer sounds twice signifying that the theft deterrent is disarmed.

Notice

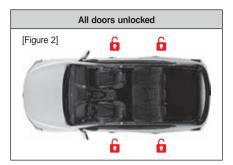
 Refer to "Outside rearview mirror control switch" in Chapter 4 for details about setting the outside rearview mirror AUTO folding/ unfolding control.

Short press of unlock button (Safety unlock enabled)

- Pressing the door UNLOCK button once briefly unlocks the driver door only and disarms the theft deterrent system. Refer to [Figure 1].
- Pressing the door UNLOCK button again with the driver door unlocked unlocks all doors including the tailgate. Refer to [Figure 2].
- Pressing the door UNLOCK button twice in a row unlocks the driver door first and then other doors, and disarms the theft deterrent system.
- The hazard warning lamp flashes once and buzzer sounds twice signifying that the theft deterrent is disarmed.



Pressing UNLOCK button once with all doors locked and theft deterrent armed



Pressing UNLOCK button once again with driver door unlocked

How to Set Safety UNLOCK System

Instrument cluster User settings menu > Door/ Tailgate > Unlock with key in 2 stages (safety UNLOCK) > Tick the checkbox



To use the mechanical key:

Press the button. The mechanical key is automatically folded up.

To stow the mechanical key:

Press the button and push it into its slot.



Caution

 The key can be broken when folding not to press button.



- Under the following conditions, the remote control key does not operate.
 - When the key is in the ignition switch
 - When you are too far from your vehicle (over 10 m)
 - When the battery in remote control key is discharged
 - When your vehicle is behind other vehicles or obstacles
 - In very cold weather
- The remote control key could be damaged easily by moisture and heat. Be sure to keep away from them.
- Operating range could be changed depending on the surrounding conditions. It is recommended to use the remote control key in 10 m from your vehicle.
- Under the following conditions, the remote control key may not work due to another radio wave. In these cases, open the doors using key and key hole in door.
 - In the place near police office, government office, broadcasting station, military base, transmitting tower, airport, and port
 - When you have the radio or mobile phone with the remote control key
 - When another remote control key is using near your vehicle
- If your remote control key is not working properly, have the system checked by KG Mobility Dealer or KG Mobility Authorized Service Center.
- Opening the tailgate will not trigger the theft deterrent alarm even in theft deterrent mode.

When a Remote Control Key is Lost

When one of remote control keys is lost and a new remote control key is purchased, bring the other old key to the nearest KG Mobility Dealer or KG Mobility Authorized Service Center and have it recoded. Otherwise, the old key will not work.

To prevent from being stolen by the lost key, Immediately take a recoding for new key when you lost a key.



Caution

 If you lose your key, you have to replace the whole key set to prevent from theft.

Room Lamp ON

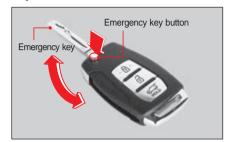
If the room lamp switch in overhead console is in DOOR position, the front and center room lamps come on for 30 seconds when you press the unlock button on the remote control key. The lamps immediately go off when the remote lock button is pressed.

Puddle Lamp Function

The puddle lamps at bottom of outside rear view mirror housings are illuminated for 30 seconds when you unlock the door with the smart key or when you open the driver's door after the engine start/stop button to OFF from ON position. The lamps immediately go off when pressing the door lock button or starting the engine.

Using the emergency key

Unfolding/folding the emergency key



- Pull out the emergency key from the key body by pressing the Emergency key button on the smart key.
- To fold the emergency key, fold the emergency key with the Emergency key button pressed.



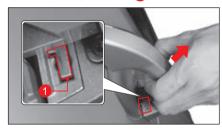
Caution

 Folding the emergency key forcibly without pressing the Emergency key button may damage the smart key.

Locking/unlocking the door using the emergency key

If the door cannot be locked or unlocked due to reasons including the depletion of the smart key battery, interference, and the depletion of the vehicle battery, the emergency key (auxiliary key) can be used.

Pull the driver seat door handle in the arrow direction in a way that the Emergency key hole cover open button (1) is visible.



Press the Emergency key hole cover open button (1) using the emergency key.



With the Emergency key hole cover open button (1) pressed, push down the top side of the emergency key hole cover to remove it.





 Be careful not to create a scratch on the driver seat door panel or lose the emergency key hole cover.

- 4 Insert the emergency key into the key hole and do as follows.
 - To lock the door, turn it in the lock direction
 (2).
 - To unlock the door, turn it in the unlock direction (3).



Notice

 When unlocking in the theft monitoring mode, the warning buzzer sounds.

Starting the engine with the dead smart key or interference, etc. (in the event of emergency)

You may not be able to start the engine with the START/STOP switch due to the depletion of the battery in the smart key or interference even if you are carrying the smart key in the vehicle.

In such case, take a measure as follows, replace the smart key battery or check the smart key.

Place the gear shift lever in the P (parking) or the N (neutral) position and start the engine by pressing the START/STOP switch directly with the smart key with the brake pedal depressed.



Notice

- · If the warning buzzer is sounding, it stops.
- If you open the door while the engine is running when the smart key battery is depleted, a warning message saying "The smart key is not in the vehicle" appears. In such case, when you turn off and start the engine again, the warning message disappears.

Replacing the smart key battery

If the operation range of the smart key has decreased significantly or the smart key malfunctions occasionally, replace the smart key battery.

Battery standard

One CR2032 battery

1 Remove the cover at the back of the smart key carefully using a flat-bladed screwdriver for watches (smallest one) not to create a scratch.



Insert the battery with the positive (+) terminal facing up and the negative (-) terminal facing down.



Return the cover from the back of the smart key back to its original position.

After replacing the battery, be sure to check if the remote control key operates normally.

Λ

- The circuit inside the smart key is vulnerable to static electricity, so if you are not skilled in replacing the battery, have the smart key checked and the battery replaced at a KG Mobility authorized service center.
- Be sure to replace the battery with one that meets the standard. Using a battery that does not meet the standard may cause the smart key to be inoperable due to contact failure.
- Be careful not to switch the direction of the positive (+) terminal and negative (-) terminal when inserting the battery.
- Since the battery may contaminate environments, discard it in a proper way.

Smart key*

Function of each button

The smart key is designed to enable the locking and unlocking of doors (including the tailgate) and the starting of the engine by carrying it. In addition, normal remote control key functions (remote control) can also be used using the smart key buttons.





Button	Short press	Long press	
1 Door lock	Lock the door		
2 Door unlock	Unlock the door (When the safety unlock is set, only the driver seat door is unlocked)		
3 Tailgate (A type)	Stop the operation	Open/close the power tailgate	
4 Panic (B type)	-	Activate/ deactivate the panic mode	



Notice

- The safety function for power window may be applied to only 2 front doors or all 4 doors depending on the model.
- For the vehicles with safety windows, the power window has an AUTO UP/DOWN feature.

		Long press	
Button	Short press	Front doors with safety window	All doors with safety window
1 Door lock	Door lock	Front door windows close control	All door windows close control
2 Unlocking door	Unlocking door (Only driver door unlocked when safety unlock set	Front door windows open control	All door windows open control
3 Panic	-	Panic (on/off)	
4 Headlamp	-	Low beam in vehicle power off	
5	Deactivated	Power tailgate operation (open/close)	
Tailgate	-	Tailgate (lock/unlock)	

Locking the door

Pressing the Door lock button (1) briefly locks all doors and the tailgate.

 When the theft monitoring mode is activated, the hazard warning lamp blinks twice and the warning buzzer sounds once.

	Hazard warning lamp	Buzzer
Smart key (type A/B/C)	Blinks twice	Sounds once
REKES key (type B)	Blinks twice	-

- If the outside Rearview mirror folding/ unfolding button is in the neutral position, the outside rearview mirror is folded.
- Refer to "Folding/unfolding the outside rearview mirror" (p.3-58)

Notice

 If the START/STOP switch is in the ACC or the ON status or the engine is running, the door cannot be locked using the Door lock button.

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Caution

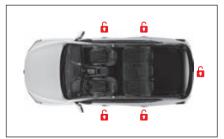
- The mode can be switched to the theft monitoring mode only when all doors, tailgate and engine hood are closed. When you press the Door lock button with the tailgate or the engine hood open, only the door is locked and the mode is not switched to the theft monitoring mode.
- After locking the door using the smart key, check that the door and the tailgate are locked directly. If the door is not locked completely, the vehicle or an article inside the vehicle may be stolen.

Unlocking the door (when the safety unlock is enabled)

 When the safety unlock is enabled, pressing the Door unlock button (2) only unlocks the driver seat door and cancels the theft monitoring mode.



 Pressing the Door unlock button (2) again with the driver seat door unlocked unlocks all doors and the tailgate.



- Pressing the Door unlock button (2) twice in a row unlocks the driver seat door first, then unlocks all doors and cancels the theft monitoring mode.
- When the theft monitoring mode is canceled, the hazard warning lamp blinks once and the warning buzzer sounds twice.

What is safety unlock?

The safety unlock function unlocks only the driver seat door when the Door unlock button is pressed once to prevent entering through a door other than the driver seat door. Pressing the Door unlock button again unlocks all doors and the tailgate.

To set safety unlock

Unlocking the door (when the safety unlock is disabled)

Pressing the Door unlock button (2) briefly unlocks all doors and the tailgate.



- When the theft monitoring mode is canceled, the hazard warning lamp blinks once and the warning buzzer sounds twice.
- If the outside Rearview mirror folding/ unfolding button is in the neutral position, the outside rearview mirror is folded.
- Refer to "Folding/unfolding the outside rearview mirror" (p.3-58)

Opening/closing the window

 When you press and hold down the Door lock button (1), the vehicle enters the theft monitoring mode and the window closes. The window closes only while you are pressing the button. Pressing and holding down the Door unlock button (2) cancels the theft monitoring mode and opens the window. The window opens only while the button is being pressed.

Notice

- The window open/close function is applied to only the 2 front doors or all 4 doors depending on the safety function specification of the power window.
- The auto up/down function of the power window is applied to the safety window.
- When you operate the window open/close function more than 9 times, the relevant function is disabled for the safety of the vehicle system. However, the function is enabled when the engine is turned off and started again.

To use window opening/closing feature:

⚠ W

Warning

 Use the remote control only in a place where the window of the vehicle is visible for safety.

Opening/closing the tailgate (A type)

- You can open or close the tailgate by pressing and holding down the Tailgate button (3).
- Pressing the Tailgate button (3) briefly stops the operation of the power tailgate.
- When you approach within approximately 1 m from the center of the tailgate with the smart key, the smart tailgate operates.
- Refer to "Tailgate" (p.3-29)

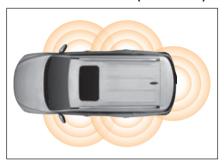
Activating/deactivating the panic mode (B type)

When you press the Panic button in the event of emergency, the hazard warning lamp turns on and the warning buzzer sounds for a certain period of time.

- When you press and hold down the Panic button (4), the hazard warning lamp blinks and the warning buzzer sounds for approximately 30 seconds.
- Pressing and holding down the Panic button
 (4) again stops the panic mode.

Additional functions

Smart door auto lock (auto close)



When you move a certain distance away from the vehicle while carrying the smart key, all doors and the tailgate are locked automatically.

If you stay in the smart key detection area of the vehicle for 1 minute or more under the above condition, all doors and the tailgate are also locked automatically for theft prevention.

 When the theft monitoring mode is activated, the hazard warning lamp blinks twice and the warning buzzer sounds once.

- If the Outside rearview mirror folding/unfolding button is in the neutral position, the outside rearview mirror is folded.
- Refer to "Folding/unfolding the outside rearview mirror" (p.3-58)

Activating the smart door auto lock function

Activating from the instrument cluster

Put a check mark on Door/tailgate → Smart
door auto lock from (User Settings) on the
instrument cluster.

Activating with the smart key

- 1 With the START/STOP switch in the ON status, press the hazard warning lamp switch.
 - The hazard warning lamp turns on.
- Press the Door lock button on the smart key three times consecutively within 2 seconds.

Notice

- The smart door auto lock is carried out only if the smart key is detected near the vehicle (in the outside antenna area) when you close the door.
- The detection of the smart key varies depending on the walking speed and surrounding environment.
- If the smart key is present inside the vehicle, the smart door auto lock function is not activated.
- If the smart key battery is depleted, the smart door auto lock function is canceled automatically. Replace the smart key battery and activate it again from (User Settings) on the instrument cluster.

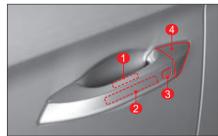


Caution

 When you lock the door using the smart door auto lock function, check that the hazard warning lamp blinks twice and the warning buzzer sounds once. If the door is not locked completely, the vehicle or an article inside the vehicle may be stolen.

Locking/unlocking the door with the door handle touch sensor





- 1 Door handle touch sensor (unlock)
- Outside antenna
- 3 Door handle touch sensor (lock)
- Emergency key hole cover

Locking the door with the touch sensor



- 1 Stay in the outside antenna area of the vehicle (approximately 1.5 m) while carrying the smart key.
- With all doors and the tailgate closed, touch the driver seat door handle touch sensor (lock) (1) slightly.
 - After touching, the authentication of a valid smart key (detection of a valid smart key) within the outside antenna area of the vehicle is carried out for approximately 1 second.
 - When the authentication of smart key is complete, all doors and the tailgate are locked.
 - When the theft monitoring mode is activated, the hazard warning lamp blinks twice and the warning buzzer sounds once.

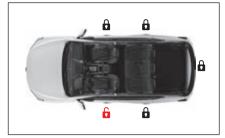
Notice

- It takes time to authenticate the smart key. If you operate it too fast, the relevant system may not operate.
- The unlock touch sensor does not operate for approximately 3 seconds after locking the door using the touch sensor.
- In any of the following cases, the door cannot be locked even if you touch the touch sensor.
 - When you attempt to lock the door with the smart key in the vehicle
 - When the START/STOP switch is in the ACC or the ON status or the engine is running
 - When any door is opened

Unlocking the door with the touch sensor (when the safety unlock is enabled)



- 1 Stay in the outside antenna area of the vehicle (approximately 1.5 m) while carrying the smart key.
- 2 Touch the driver seat door handle touch sensor (unlock), (2) just touching it gently.
 - After touching, the authentication of a valid smart key (detection of a valid smart key) within the outside antenna area of the vehicle is carried out for approximately 1 second.
 - When the authentication of the smart key is complete, only the driver seat door is unlocked.
 - When the theft monitoring mode is canceled, the hazard warning lamp blinks once and the warning buzzer sounds twice.



3 Open the driver seat door by pulling the door handle slowly.

Notice

- It takes time to authenticate the smart key.
 If you pull the door handle fast, the relevant system may not operate.
- The lock touch sensor does not operate for approximately 1 second after unlocking the door using the touch sensor.
- If you carry a valid smart key, operating the touch sensor on the door handle except for the driver seat door handle unlocks all doors even if the safety unlock function is enabled.

- · To set safety unlock:
 - Supervision type

 Tick the box at Vehicle Settings → Door

 / Tailgate → Enable Press Key Twice

 To Unlock in (User Settings) in the instrument cluster.
 - Standard type
 Tick the box at Door / Tailgate → Enable
 Press Key Twice To Unlock in (User Settings) in the instrument cluster.

Unlocking the door with the touch sensor (when the safety unlock is disabled)

- 1 Stay in the outside antenna area of the vehicle (approximately 1.5 m) while carrying the smart key.
- Touch the door handle touch sensor (unlock) (2) on the front seat/rear seat, just touching it gently.
 - After touching, the authentication of a valid smart key (detection of a valid smart key) within the outside antenna area of the vehicle is carried out for approximately 1 second.
 - When the authentication of the smart key is complete, all doors and the tailgate are unlocked.
 - When the theft monitoring mode is canceled, the hazard warning lamp blinks once and the warning buzzer sounds twice.



3 Open the door by pulling the door handle slowly.

Notice

- It takes time to authenticate the smart key.
 If you pull the door handle fast, the relevant system may not operate.
- The lock touch sensor does not operate for approximately 1 second after unlocking the door using the touch sensor.

Cautions for using the smart key system (touch sensor)



Warning

 Do not leave the vehicle with the smart key in the vehicle when a person (especially a child) who does not know the vehicle system is present in the vehicle. Pressing the START/STOP switch with the brake pedal depressed while the smart key is in the vehicle starts the engine. Other incorrect vehicle controls may occur. In such case, a serious accident may occur. Therefore, always pay attention.



Caution

If the smart key does not operate or is not recognized

 When you lock the door using a smart key from the outside of the vehicle or the touch sensor on the door handle while another smart key is present inside the vehicle, the smart key function (including the remote control function) activated by simply carrying the smart key is lost temporarily (the warning buzzer sounds). To restore the original function, deactivate the theft monitoring mode of the vehicle using the smart key from the outside of the vehicle or the touch sensor on the door handle.

- If the vehicle is in a place where strong radio waves are transmitted or received, if the vehicle is equipped with a two-way radio or other transmission and reception systems or if a smart key is used in another nearby vehicle, the smart key system may not function normally.
- The smart key recognition performance may be lowered on a blind spot above the seats where the heater function is activated or the floor of the vehicle and the area near the pedal, so the smart key system may not function. In such case, carry the smart key or place the smart key in a different location.
- If the engine cannot be started while the smart key is placed inside the vehicle or you are carrying it, start the engine by pressing the START/STOP switch with the smart key directly.

Using the smart key

- · Carry only one smart key.
- Store each smart key separately. When you lock the door using the LOCK touch sensor on the door handle instead of the Door lock button on the smart key, be careful not to leave the smart key inside the vehicle.
- If you leave the vehicle even for a moment, turn off the engine and carry the smart key with you and do not store a spare smart key inside the vehicle. Failure to do so may cause vehicle theft or malfunction.

 Using 2 smart keys provided by KG Mobility Corporation on one key chain at the same time may cause the smart key system to malfunction or engine starting failure.

Managing the smart key

- When you lock the door with another smart key with the previously used smart key in the vehicle, the door can be locked normally but you cannot start the engine with the key left in the vehicle until it is used normally next time. This is a safety system for preventing theft.
- Do not allow water or liquid to flow into the smart key. Caution should be taken as the smart key is not fully waterproof, so if moisture or water gets in, it may cause a malfunction that is not covered by the warranty.
- The electronic systems in the smart key are vulnerable to moisture or heat, so placing the smart key in a place with high humidity or high temperature may cause a failure.
- If the smart key is lost, you cannot open the door or start the engine. If you don't have a spare smart key in storage, you need to have your vehicle towed and serviced at a KG Mobility authorized service center. Also, the vehicle or an article in the vehicle may be lost due to the lost smart key, so take measures immediately.

Using and managing the door handle touch sensor

- A different person in the operating range of the smart key may unlock the door using the touch sensor. Be careful of theft of an article in the vehicle
- Do not operate the door lock/unlock touch sensors at the same time. Doing so may cause a system error and the sensors may not operate.
- After locking or unlocking the door, the touch sensor does not operate for a certain period of time. Operate it a certain period of time later.
- The touch sensor may not operate if you are wearing thick gloves. Take off the gloves and operate the touch sensor.
- The touch sensor may be detected by a car wash (high pressure spraying car wash, etc), heavy rain or a strong stream of water.
- If a foreign material (water, dust, etc.) is present on the surface inside the door handle, it may affect the detection carried out by the touch sensor so that the touch sensor may not operate normally.
- If the touch sensor is not operating, wipe the surface of the touch sensor using a clean cloth. If the touch sensor is not operating after wiping its surface, visit a nearby KG Mobility authorized service center and have your vehicle checked and serviced.

Using the emergency key

Unfolding/folding the emergency key

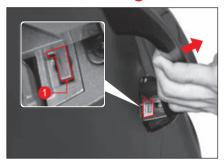


 Remove the emergency key (B) from its body while pressing the emergency key lock (A) at the smart key in the direction of the arrow.

Locking/unlocking the door using the emergency key

If the door cannot be locked or unlocked due to reasons including the depletion of the smart key battery, interference, and the depletion of the vehicle battery, the emergency key (auxiliary key) can be used.

1 Pull the driver seat door handle in the arrow direction in a way that the Emergency key hole cover open button (1) is visible.



2 Press the Emergency key hole cover open button (1) using the emergency key.



With the Emergency key hole cover open button (1) pressed, push down the top side of the emergency key hole cover to remove it.



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Caution

- Be careful not to create a scratch on the driver seat door panel or lose the emergency key hole cover.
- Insert the emergency key into the key hole and do as follows.
 - To lock the door, turn it in the lock direction
 (2).
 - To unlock the door, turn it in the unlock direction (3).



Notice

 When unlocking in the theft monitoring mode, the warning buzzer sounds.

Starting the engine with the dead smart key or interference, etc. (in the event of emergency)

You may not be able to start the engine with the START/STOP switch due to the depletion of the battery in the smart key or interference even if you are carrying the smart key in the vehicle.

In such case, take a measure as follows, replace the smart key battery or check the smart key.

Place the gear shift lever in the P (parking) or the N (neutral) position and start the engine by pressing the START/STOP switch directly with the smart key with the brake pedal depressed.



Notice

- · If the warning buzzer is sounding, it stops.
- If you open the door while the engine is running when the smart key battery is depleted, a warning message saying "The smart key is not in the vehicle" appears. In such case, when you turn off and start the engine again, the warning message disappears.

Replacing the smart key battery

If the operation range of the smart key has decreased significantly or the smart key malfunctions occasionally, replace the smart key battery.

Battery standard

One CR2032 battery

1 Remove the emergency key (B) from its body while pressing the emergency key lock (A) at the smart key in the direction of the arrow.



When removing it, be careful not to scratch the cover of the smart key using a smallest flat-bladed screwdriver.



3 Insert the battery with the positive (+) terminal facing up and the negative (-) terminal facing down.



4 Return the cover from the back of the smart key back to its original position.

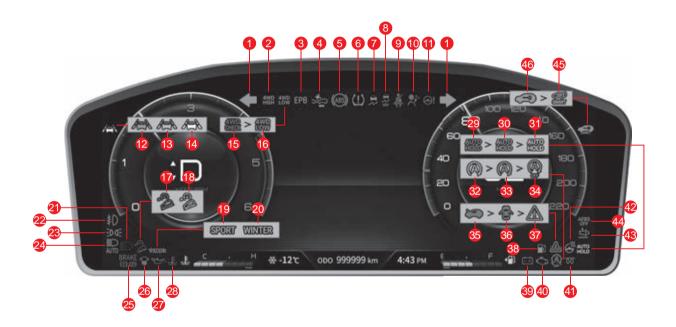
After replacing the battery, be sure to check if the remote control key operates normally.



- The circuit inside the smart key is vulnerable to static electricity, so if you are not skilled in replacing the battery, have the smart key checked and the battery replaced at a KG Mobility authorized service center.
- Be sure to replace the battery with one that meets the standard. Using a battery that does not meet the standard may cause the smart key to be inoperable due to contact failure.
- Be careful not to switch the direction of the positive (+) terminal and negative (-) terminal when inserting the battery.
- Since the battery may contaminate environments, discard it in a proper way.

Instrument cluster

Supervision type*

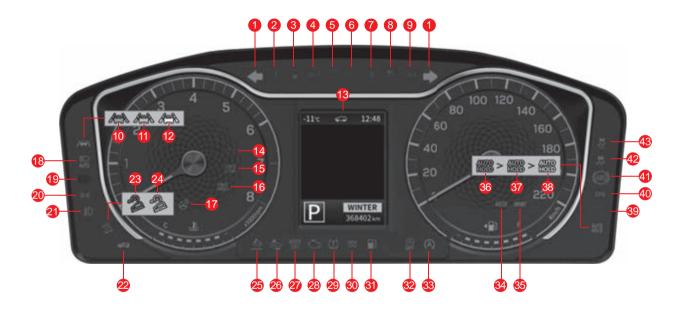


- 1 Turn signal / hazard warning flasher
- 4WD HIGH indicator light
- 3 Electronic parking brake (EPB) warning lamp
- 4 AEBS warning lamp
- 6 ABS (Anti-Lock brake system) warning lamp
- 6 Global warning light
- ESP system ON indicator/warning lamp
- 8 ESP system OFF indicator
- 9 Seat belt reminder warning lamp
- Air bag warning light
- 1 Electric power steering (EPS) warning light
- LKAS (LDWS) ON indicator (green)
- 13 LKAS (LDWS) warning lamp (yellow)
- LKAS (LDWS) READY warning lamp (white)
- 4WD CHECK warning light
- 4WD LOW indicator light

- The HDC warning lamp (red)
- (B) HDC ON indicator (green)
- SPORT mode indicator
- WINTER mode indicator
- 2 High beam indicator
- Front fog lamp ON indicator
- 23 Illumination ON indicator
- 4 HBA (Smart High Beam) indicator
- 25 Brake warning lamp
- 26 Water separator warning light
- Engine oil pressure warning light
- Engine overheat warning lamp
- 29 AUTO HOLD indicator (green)
- **30** AUTO HOLD warning lamp (yellow)
- 31 AUTO HOLD READY indicator (white)
- 32 ISG warning lamp (yellow)
- 33 ISG indicator (green)

- ISG OFF indicator
- 35 Hood open warning lamp
- Ooor ajar warning lamp
- Master symbol
- 38 Low fuel level warning light
- 39 Charge warning light
- Engine CHECK warning lamp
- Warming up indicator
- Steering wheel heating ON indicator
- Urea system (SCR) warning lamp
- AEBS OFF indicator
- 45 Smart tailgate enabled indicator
- 46 Immobilizer/Smart key warning light

Standard type



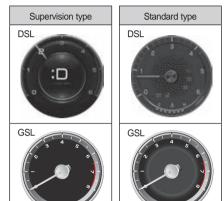
- 1 Turn signal / hazard warning flasher
- 2 Engine overheat warning lamp
- 3 Water separator warning light
- 4 Electric power steering (EPS) warning light
- 6 Charge warning light
- 6 Engine oil pressure warning light
- Seat belt reminder warning lamp
- 8 Air bag warning light
- 9 Hands OFF warning lamp
- 10 LKAS (LDWS) ON indicator (green)
- 1 LKAS (LDWS) warning lamp (yellow)
- LKAS (LDWS) READY warning lamp (white)
- 13 Door ajar warning lamp
- 4WD CHECK warning light
- 15 4WD LOW indicator light

- 16 4WD HIGH indicator light
- To Steering wheel heating ON indicator
- 18 HBA (Smart High Beam) indicator
- High beam indicator
- 20 Illumination ON indicator
- 2 Front fog lamp ON indicator
- Immobilizer/Smart key warning light
- 23 HDC warning lamp (red)
- 24 HDC ON indicator (green)
- 25 Urea system (SCR) warning lamp
- 26 AEBS warning lamp
- AEBS OFF indicator
- 28 Engine CHECK warning lamp
- Global warning light
- Warming up indicator
- 3 Low fuel level warning light

- ISG OFF indicator
- 33 ISG indicator/warning light
- WINTER mode indicator
- SPORT mode indicator
- 36 AUTO HOLD indicator (green)
- 37 AUTO HOLD warning lamp (yellow)
- 8 AUTO HOLD READY indicator (white)
- Brake warning lamp
- Electronic parking brake (EPB) warning lamp
- 4) ABS (Anti-Lock brake system) warning lamp
- ESP system ON indicator/warning lamp
- 43 ESP system OFF indicator

Driving information display window

Engine RPM



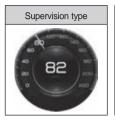
It indicates the revolutions of the engine per minute. Multiplying the number pointed to by the needle by 1,000 is the current engine RPM.



Caution

 Do not allow the needle to enter the red zone as the engine may be damaged significantly.

Driving speed



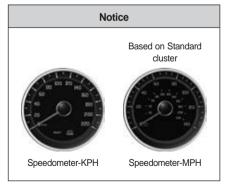


It indicates the current driving speed of the vehicle.



Over speed warning light (GCC only)

Sounds warning chime 5 times initially



Engine coolant temperature





It indicates the temperature of the engine coolant.



Caution

 If the engine coolant gauge indicates near the engine overheating range (H) or the engine overheat warning lamp turns on, stop the vehicle at a safe place immediately and cool down the engine. Driving the vehicle continuously with an overheated engine may damage the engine significantly.

Fuel gauge





It displays the remaining fuel level when the START/STOP switch is in the ON status or the engine is running.

Refuel before the pointer of the fuel gauge reaches "E". If the low fuel level warning light turns on, refuel immediately.

The left arrow in the gas pump icon (◀ 🖺) indicates that the fuel inlet is located on the left side of the vehicle

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Warning

· Be sure to stop the engine when refueling.



Caution

- If the vehicle is on a hillside road, the remaining fuel level may not be displayed accurately.
- Use only the designated fuel and approved additives. Failure to do so may cause contamination of the fuel tank or clogging of the fuel filter, damaging the engine.
- Drive the vehicle with a proper fuel level.
 Failure to do so may damage the catalytic converter due to the non-combustion or incomplete combustion of fuel.

Total mileage





The total mileage of the vehicle is displayed in kilometers. The maximum mileage to be displayed is 999999 km.

Notice

 It is normal if the total mileage at the time of shipping is less than 50 km.

Position of gear shift lever





It displays the current position (P, R, N, D) of the gear shift lever and the gear stage (1~8stages) in the M (manual) mode.

Notice

 When entering the M (manual) mode, the gear is downshifted by one gear position from the current gear position.

Automatic Transmission

This indicator shows the current position of the gear.

In normal mode: P, R, N, D

Gear indication in "M" mode: 1, 2, 3, 4, 5, 6, 7, 8

P: Parking R: Reverse N: Neutral D: Driving (8A/T) (1~8th gear shifting) Driving (6A/T) (1~6th gear shifting)	1 : 1st gear 2 : 2nd gear 3 : 3rd gear 4 : 4th gear 5 : 5th gear 6 : 6th gear 7 : 7th gear 8 : 8th gear
, ,	8 : 8th gear

Gear shift point indicator

Gear shift point indicator is a supplementary function indicating the optimal shift point for fuel efficiency. To operate this function, manual gear shift control is necessary according to road and driving conditions.





- Manual transmission: indicates 3rd gear (target) shift point which is the optimum shift range, while driving in 1st or 2nd gear position
- 6A/T Automatic transmission (M mode): indicates 4th gear (target) shift point which is the optimum shift range, while driving in 3rd gear position

Notice

 While driving in 1st ~ 8th gear position without shifting gear in automatic transmission (M mode) vehicle, the transmission may automatically shifts up to protect the system if the engine RPM gets high



Manual transmission: indicates 3rd gear (target) shift point which is the optimum shift range, while driving in 4th or higher gear position

Notice

• While driving in 2nd ~ 8th gear position in automatic transmission (M mode) vehicle, the indicator ▼ (arrow) does not appear on display when downshifting. Drive shifting manually according to driving conditions. If driving without manual shift, RPM will get low and the system will shift down.

Manual transmission display











- 8A/T



- 6A/T



Notice

· For vehicles with manual transmission. the indicator shows up only when the gear shifts or the shift lever is in R position.

Warning lights and indicators

Seat belt warning lamp



If the driver seat and front passenger seat occupants do not fasten the seat belt, the seat belt warning light blinks along with a warning buzzer.

If you fasten the seat belt at this time, the warning buzzer stops and the seat belt warning light stays on for the remaining time.

Refer to "Seat belt warning" (p.2-2)

Air bag warning lamp*



The air bag warning lamp turns on when the START/STOP switch is in the ON status, and it turns off when there is no abnormality in the air bag system.

If the warning light stays on after starting the engine, the air bag system is abnormal. Have your vehicle checked and serviced at a KG Mobility authorized service center immediately. Refer to "Air bag*" (p.2-19)

Engine oil pressure warning light



The engine oil pressure warning light turns on when the START/STOP switch is in the ON status. and it turns off when the engine is started.

This warning light turns on when the engine oil is insufficient or the engine lubrication system is abnormal.

When this warning light turns on while driving, park your vehicle at a safe place, check the engine oil level and add engine oil immediately if it is insufficient.

Refer to "Replenishment" (p.6-19)



Caution

- · If the warning light stays on after the engine oil is added, stop driving the vehicle immediately and have your vehicle checked and serviced at a KG Mobility authorized service center.
- · Driving the vehicle continuously with the engine oil pressure warning light turned on may damage the engine significantly.

Charge warning light



The charge warning light turns on when the vehicle battery is depleted or the charging system is abnormal.



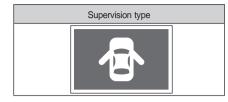
Caution

 If the charge warning light turns on, it indicates that the charging system is abnormal. Have your vehicle checked and serviced at a KG Mobility authorized service center.

Notice

 Even if the charge warning light does not turn on, the engine may not be started if the battery is not charged smoothly due to insufficient tension of the engine fan belt.

Door open warning light

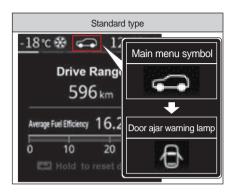


The door open warning light turns on when a door or the tailgate is opened or not closed completely.



Warning

 Confirm that all doors and the tailgate are closed completely before driving. Driving the vehicle with a door or the tailgate opened may cause a serious risk to the safety of occupants.



If the door or tailgate is open or not fully closed, the LCD screen (main menu symbol position) will display the door ajar warning lamp.

(Main menu symbol changed to door ajar warning lamp)

Engine hood open warning light



The engine hood open warning light turns on when the engine hood is opened or not closed completely.



Warning

 Confirm that the engine hood is closed completely before driving. If you drive the vehicle with the engine hood open, the vehicle may get damaged and it may block the driver's vision, causing a serious accident.

Master symbol (Supervision type)



If the vehicle has a warning message, the master symbol will illuminate.

If the master symbol is illuminated, be sure to check the vehicle warning message.

Notice

- You can check the vehicle warning message(s) in the User Settings in the instrument cluster.
- When the warning message is not found, the corresponding item is not displayed.

Smart tailgate indicator lamp (Supervision type)



The smart tailgate indicator illuminates when you tick the smart tailgate item in the User Settings in the instrument cluster.

- Supervision type (indicator illuminated)
 You may enable this function at Vehicle
 Settings → Door / Tailgate → Smart
 Tailgate in (User Settings) in the
 instrument cluster.

SCR warning lamp*



The SCR warning light turns on when the START/ STOP switch is in the ON status and it turns off when the engine is started.

This warning light turns on when the level of urea solution is insufficient or the urea system is abnormal.

Refer to "Warning due to low urea solution level" (p.6-62)



Caution

· Driving the vehicle continuously with the SCR warning light turned on may damage the urea system significantly or vehicle operation may not be possible. If this warning light turns on, add urea or have vour vehicle checked and serviced at a KG Mobility authorized service center immediately.

Engine overheat warning lamp



If the temperature of the engine coolant is abnormally high, the engine overheat warning lamp blinks and the warning buzzer sounds.

If this warning light turns on, park your vehicle at a safe place immediately and cool down the engine.

Refer to "When the engine is overheated so that the warning light turns on" (p.5-6)



Caution

- · If the engine coolant temperature gauge points out near the engine overheating range (H), park your vehicle at a safe place immediately and cool down the engine.
- · Driving the vehicle continuously with an overheated engine may damage the engine significantly. Cool down the engine properly and have your vehicle checked and serviced at a KG Mobility authorized service center.

SSPS warning lamp*



If the Speed Sensing Power Steering (SSPS) device is abnormal, the SSPS warning light turns on and the steering wheel becomes heavier.



Caution

· If the SSPS warning light turns on or the steering wheel becomes heavier, have vour vehicle checked and serviced at a KG Mobility authorized service center.

What is Speed Sensing Power Steering (SSPS)?

The SSPS is the device that improves driving convenience and steering safety by making the steering feel of the steering wheel heavier at a high speed and lighter at a low speed.

Water separator warning light (DSL only)



The water separator warning light turns on when the START/STOP switch is in the ON status and it turns off approximately 4 seconds later.

If water in the fuel filter exceeds a prescribed level, the water separator warning light turns on the warning buzzer sounds. Have your vehicle checked and serviced at a KG Mobility authorized service center immediately.



Caution

- Driving the vehicle continuously with the water separator warning light turned on may damage the vehicle fuel system and the engine significantly.
- If low quality fuel that contains a large amount of water is used, the water separator warning light turns on faster.
 Never use low quality fuel.
- If water in the fuel filter exceeds a prescribed level, the driving force of the engine may decrease in addition to the warning light and the warning buzzer.

Brake warning light



The brake warning light turns on when the START/STOP switch is in the ON status and turns off approximately 4 seconds later.

This warning light turns on when the parking brake is applied or the brake fluid is insufficient.



Warning

- If the brake warning light stays on if the parking brake is released, it indicates that the brake fluid is insufficient. Have your vehicle checked and serviced at a KG Mobility authorized service center immediately.
- Driving the vehicle continuously with insufficient brake fluid lowers the brake performance since the pressure of brake fluid cannot be transferred normally.

Notice

Driving the vehicle with insufficient brake fluid causes the brake warning light to operate as follows.

- Turn on: When driving the vehicle at a speed of approximately 10 km/h or less
- Blink: When driving the vehicle at a speed of approximately 10km/h or higher for 2 seconds or more

ABS (Anti-Lock Brake System)* warning light



The ABS warning light turns on when the START/ STOP switch is in the ON status and turns off approximately 4 seconds later.

This warning light turns on when the ABS system is abnormal.



Warning

 If the ABS warning light turns on, the ABS function does not operate and only normal brake function operates. In such case, have your vehicle checked and serviced at a KG Mobility authorized service center immediately.

Notice

A vehicle equipped with the ABS system
has the self-diagnosis function to check
the internal hydraulic system to see if
there is an abnormality by transferring the
hydraulic pressure to the internal hydraulic
system after the engine is started. At this
time, a vibration and a noise may occur
at the brake pedal. This indicates that the
ABS is functioning normally.

Electronic Brake-Force Distribution (EBD)* warning light





If the EBD system is abnormal, the ABS warning light and the brake warning light turn on at the same time.

In such case, drive the vehicle carefully since the vehicle may become unstable if you apply sudden braking.



Warning

- If the EBD warning light turns on, have your vehicle checked and serviced at a KG Mobility authorized service center immediately.
- If the EBD warning light turns on, the EBD function as well as the ABS function do not operate.

Electronic Parking Brake (EPB) warning light



The Electronic Parking Brake (EPB) warning light turns on when the START/STOP switch is in the ON status and turns off approximately 4 seconds later.

If the Electronic Parking Brake (EPB) system is abnormal, the EPB warning light operates as follows.

- Turn on: When the Electronic Parking Brake (EPB) system is abnormal but the parking brake functions normally
- Blink: If the parking brake does not function with the warning light turned on



Warning

- If the Electronic Parking Brake (EPB) warning light turns on, have your vehicle checked and serviced at a KG Mobility authorized service center.
- If you need to park the vehicle with the parking brake not functioning due to the failure of the Electronic Parking Brake (EPB) in an emergency, stop the vehicle on safe flat ground and place the gear shift lever in the P (parking) position.

AUTO HOLD indicator/warning light



When you press the AUTO HOLD button, the AUTO HOLD system enters the ready mode and the white AUTO HOLD indicator on the instrument cluster turns on.

When you press the AUTO HOLD button again, the AUTO HOLD indicator turns off and the AUTO HOLD system is deactivated.

The color of the AUTO HOLD indicator changes as follows according to the status.

- White indicator: AUTO HOLD system in ready mode
- Green indicator: AUTO HOLD system is activated
- Yellow indicator: AUTO HOLD system is abnormal



Warning

 If the yellow warning light turns on, have your vehicle checked and serviced at a KG Mobility authorized service center.

Engine check indicator



The engine check indicator turns on when the START/STOP switch is in the ON status and turns off the engine is started.

This indicator turns on when various sensors and devices related to engine control (including automatic transmission) are abnormal.

Refer to "Emission reduction device" (p.6-61)



Warning

- If the engine check indicator turns on when you stop the engine, refuel and drive the vehicle again due to an empty fuel tank, the power output may decrease while driving for a certain distance (approximately 30 km).
- If the engine check indicator turns on while driving or occasionally, have your vehicle checked and serviced at a KG Mobility authorized service center.
- If the engine check indicator turns on, the driving performance of the engine may decrease or the engine may stall. This symptom indicates that the vehicle enters the system safety mode in order to protect the vehicle systems. In such case, have your vehicle checked and serviced at a KG Mobility authorized service center.

4WD CHECK warning indicator*



The 4WD CHECK warning indicator turns on when the START/STOP switch is in the ON status and turns off approximately 4 seconds later.

This warning indicator turns on when the 4WD system is abnormal. If the 4WD CHECK warning indicator turns on, have your vehicle checked and serviced at a KG Mobility authorized service center.

4WD LOW indicator*



The 4WD LOW indicator turns on when the START/STOP switch is in the ON status and turns off approximately 4 seconds later.

When you place the 4WD switch in the 4L position, this indicator turns on.

If the indicator blinks temporarily, it indicates that the driving mode is being switched from 4WD HIGH (4H) to 4WD LOW (4L).

4WD HIGH indicator*



The 4WD HIGH indicator turns on when the START/STOP switch is in the ON status and turns off approximately 4 seconds later.

When the driving mode is switched to 4WD HIGH (4H), this indicator turns on.

Steering wheel heater indicator*



If you press the Steering wheel heater button with the START/STOP switch in the ON status or while the engine is running, the steering wheel heater indicator turns on or turns off.

Notice

 When the steering wheel heater indicator turns on, the heater ON/OFF status message is displayed on top of the display of the instrument cluster for approximately 5 seconds.

Electronic stability control system (ESP)* ON indicator/warning light



The ESP ON indicator turns on when the START/ STOP switch is in the ON status and turns off approximately 4 seconds later.

- Indicator blinks: When the ESP function is activated
- Warning light turns on: When the ESP system is abnormal



Caution

 If the ESP ON warning lamp turns on, have your vehicle checked and serviced at a KG Mobility authorized service center.

Electronic stability control system (ESP)*OFF indicator



The ESP OFF indicator turns on when the START/STOP switch is in the ON status and turns off approximately 4 seconds later.

Pressing and holding down the ESP OFF switch (approximately 3 seconds or more) deactivates the ESP function and the ESP OFF indicator turns on.

Refer to "When it is necessary to deactivate the ESP function" (p.4-172)

Low fuel level warning light



If the remaining fuel level is insufficient, the low fuel level warning light turns on. However, the time for the warning light to turn on may vary depending on the vehicle status or the degree of slope.

Refuel before the low fuel level warning light turns on if possible.

If this warning light turns on, do not drive the vehicle for a long distance and refuel immediately.

Refer to "Fuel inlet" (p.3-38)

Notice

 If you drive the vehicle on a steep road or a bumpy road with low fuel level, the low fuel level warning light may turn on.

Glow indicator (DSL only)



The glow indicator turns on when the START/ STOP switch is in the ON status and turns off after the glow plugs are fully heated. Start the engine after the glow indicator is turned off.

The time taken for preheating may vary depending on the temperature of the engine coolant.



Caution

 If the glow indicator turns on while driving or the engine cannot be started smoothly, have your vehicle checked and serviced at a KG Mobility authorized service center.

Notice

 If the engine has been preheated, the glow indicator may not turn on.

Global warning light*



The global warning light turns on when the START/STOP switch is in the ON status and turns off approximately 4 seconds later.

If the tire pressure monitoring system (TPMS) is abnormal, the global warning light blinks (for approximately 70 seconds) and then stays on. This warning light also turns on if the tire pressure is abnormal (underinflated/overinflated/flat).

Refer to "Tire pressure monitoring system (TPMS)*" (p.2-28)



Warning

 If the global warning light turns on, be sure to park your vehicle at a safe place and check the tire pressure. If this warning light stays on, have your vehicle checked and serviced at a KG Mobility authorized service center.

Autonomous Emergency Braking System (AEBS) warning light*



The AEBS warning light turns on when the START/STOP switch is in the ON status and turns off approximately 4 seconds later.

If the collision with a front vehicle is expected with the AEBS function activated, the AEBS warning light operates as follows along with a warning buzzer

- Blink: The AEBS is operating (It operates for 5 second when a collision warning is given.)
- · Turn on: The AEBS is abnormal
- Refer to "Autonomous Emergency Braking System (AEBS)*" (p.4-180)

Autonomous Emergency Braking System (AEBS) OFF indicator*



The AEBS OFF indicator turns on when the START/STOP switch is in the ON status and it turns off approximately 4 seconds later.

When the AEBS is deactivated and the ESP function is disabled, the AEBS indicator turns on, stopping the AEBS operation.

Hill Descent Control (HDC) ON indicator/warning light*



When you press the HDC switch, the system is switched to the HDC operation ready status and the green HDC indicator turns on.

When you press the HDC switch again, the indicator turns off and the HDC function is deactivated.

The HDC ON indicator operates as follows according to the status.

- Green indicator turns on: The HDC is in ready status.
- · Green indicator blinks: The HDC is operating.
- Red warning light turns on: The HDC system is overheated and abnormal.

Refer to "Hill Descent Control (HDC)*" (p.4-173)



Caution

 When the red warning light turns on, have your vehicle checked and serviced at a KG Mobility authorized service center.

Lane departure indicator/warning light*



When you press the lane departure warning switch, the lane departure indicator operates as follows according to the vehicle status.

- White indicator turns on: The lane departure system is in ready status (the vehicle speed is below a prescribed speed or the lane is not recognized).
- Green indicator turns on: The lane departure system is operating normally.
- Yellow warning light blinks: There is abnormality in the calibration of the Front Camera Module (FCM).
- Yellow warning light turns on: The lane departure system is abnormal.
- Refer to "LDWS (Lane Departure Warning System)*" (p.4-197)



Warning

 If the yellow warning light turns on or blinks, have your vehicle checked and serviced at a KG Mobility authorized service center.

Illumination ON indicator



When you turn on the head light or the tail light using the light switch, the illumination ON indicator turns on.

Front fog lamp ON indicator*



When you place the light switch in $\not\ge 0$ (front fog light) position with the head light or the tail light turned on, the front fog light turns on and the indicator turns on.

For a vehicle equipped with the Daytime Running Light (DRL), when you place the light switch in the $\not\equiv D$ (front fog light) position with the switch in the ON status, the front fog light turns on.

Rear fog lamp ON indicator*



With the headlights turned on, if you rotate the switch in **()**≢ position, rear fog lights turn on and the switch returns back in front fog light position. Rear and front fog lights turn on simultaneously.

HBA indicator*



The HBA indicator turns on when the START/ STOP switch is in the ON status and turns off approximately 4 seconds later.

When you push the switch in the direction of the instrument cluster with the light switch in the AUTO position, the HBA is activated and the indicator turns on.

Refer to "High Beam Assist (HBA)*" (p.3-45)



Caution

In any of the following cases, the HBA may not operate normally.

- When the vehicle windshield is damaged or contaminated by dust, mist, fog, sticker, snow, etc
- When the lamp of an oncoming vehicle or a vehicle at the front is damaged
- When an oncoming vehicle or a vehicle at the front is out of your front sight
- When an oncoming vehicle and a vehicle at the front are recognized only partially in an intersection or a winding road
- When there is a light source similar to a vehicle lamp or a reflector at the front
- When an illuminator or a reflector is installed in a construction section, etc.

High beam indicator



When you push the light switch in the direction of the instrument cluster and release it, the high beam turns on and the high beam indicator turns on.



Warning

 Driving the vehicle with the high beam turned on may block the vision of the driver in an oncoming vehicle and interfere with safe driving. Therefore, use the high beam only if the surrounding is too dark or it is difficult to predict the front situation when you drive at night.

Turn signal/hazard warning lamp





- When you push the light switch down, the left turn signal blinks.
- When you push the light switch up, the right turn signal blinks.
- When you push the hazard warning lamp switch, the left and right turn signals blink at the same time.

Immobilizer/smart key warning light



If the smart key system is abnormal or the smart key(transponder) authentication fails, the warning light blinks.



Caution

 If the warning light blinks continuously, have your vehicle checked and serviced at a KG Mobility authorized service center.

Hands OFF warning lamp (Standard type)



If the driver releases his/her hands from the steering wheel for a certain period of time during LKAS and Intelligent Cruise Control operation, a beep sounds and the warning light turns on.

Notice

 The hands OFF warning lamp is fitted only to the vehicles with standard type.

WINTER / SPORT indicator lamp





Pressing the drive mode switch in normal driving condition will change the mode as follows:

 NOMAL → SPORT → WINTER → NOMAL WINTER mode is a function to minimize slippage when starting off on the slippery road surface in winter.



Caution

 If both the WINTER and SPORT mode indicators are lit simultaneously because of the system failure, have the system checked and serviced by a KG Mobility Dealer or KG Mobility Authorized Service Center.

Notice

There is no indicator lamp for NORMAL driving.

Power mode indicator*



Pressing the mode switch (E \rightarrow P \rightarrow W) on the switch panel located to the left switch cluster once turns on the power mode indicator.



Caution

 If both the power mode and winter mode indicators flash simultaneously because of the system failure, see a KG Mobility Authorized Service Center and have the vehicle serviced.

Smart key check indicator*



The smart key check indicator blinks in any of the following situations.

- When you open the door and get out of the vehicle while carrying the smart key with the START/STOP switch in the ACC or ON status or the engine is turned on
- When you press the START/STOP switch with no smart key inside the vehicle

Auto cruise control indicator



The auto cruise indicator turns on when the cruise control is activated and it turns off when the cruise control is deactivated.

Auto cruise ready indicator



When you press the cruise control ON/OFF switch, the auto cruise ready indicator turns on.

When you press the cruise control ON/OFF switch again, the auto cruise ready indicator turns off.

Refer to "Cruise control system" (p.4-147)

ESCL (Electrical steering column lock warning light)*



This is the device which has the electronic control of the locking and unlocking of the steering wheel in the vehicle with the smart key. If the ESCL warning lamp comes on, the vehicle may not be started and driven. In this case, have the system checked by a KG Mobility dealer or KG Mobility Authorized Service Center.

Over speed warning light (GCC only)



The warning light flashes with repeated (5 times) buzzer sound when the vehicle speed exceeds 120 km/h.

If the warning light flashes, slow down for your own safety.

ISG indicator/warning lamp



Depending on the ISG operation status, the ISG indicator and warning lamp are operated as follows:

- · Green indicator ON: Engine stops due to system operation
- · Amber warning lamp ON: faulty ISG system



· If the amber warning lamp is lit, have the vehicle checked and serviced at a KG Mobility Dealer or KG Mobility Authorized Service Center.

ISG OFF indicator



When you press the ISG ON/OFF switch, the indicator is lit. Press the switch again to turn off the indicator.

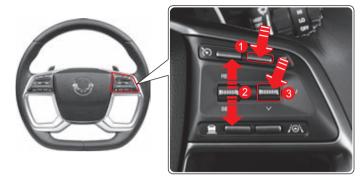
If you do not want to use the ISG system, press the ISG ON/OFF switch to turn off the ISG system.

Main menu

You can check the driving information of the vehicle including mileage and driving time orchange the settings through the main menu from the display of the instrument cluster.

- 1 Press the (menu) button on the right side of the steering wheel.
 The display moves to the main menu list.
- 2 Move to the desired submenu by raising or lowering the moving lever.
- 3 Enter the menu or change the setting by pressing the (selection) button briefly.

Pressing and holding down the (selection) button resets the driving information of the vehicle.



Item	Switch operation	Function
	Short press	Move to main menu
MOVE	Tap up/down	Navigate through sub modes (menus)
8	Short press	Enter menu Check settings Select settings
	Long press	Reset selected item Digital speedometer illumination ON/OFF

Main menu list

Main menu		Description	on
	Trip computer information	 Drive Range/AVG. Fuel/Instantaneous fuel economy display Driving Distance A/AVG. Speed/Driving Time Driving Distance B/AVG. Speed/Driving Time After Departure ISG cumulative time display Display the status of the tire pressure monitoring system (TPMS) Display the urea level 	
	Digital speedometer	Display the current vehicle speed in d modes)	ligital numbers.(two different
 [] 	Driving assist Menu	Driver assistance system operation st ELK / AUTO CRUISE / ACC / iACC / i Driver attention alert level display	
	AV screen	Display audio (AV)-linked screen	
	User settings	Language Door/Tailgate	Sound Checkup Alert Dashboard Settings & Info Reset All Settings

Trip computer information

Distance to empty/average fuel economy/ Instantaneous fuel economy





1 Distance to empty

The distance that the vehicle can travel calculated based on the remaining fuel level, average fuel economy and accumulated driving pattern is displayed.

The display range is between 0 km and 1,500 km and "---" blinks if the distance to empty is less than 50 km.



Caution

· Actual fuel level remaining in the fuel tank may be different from the fuel level calculated by the trip computer due to factors including the horizontal condition and driving conditions of the vehicle. Use the distance to empty only for reference purpose and refuel before the low fuel level warning light turns on.

Notice

· In the supervision type instrument cluster, the distance to empty is indicated in yellow if it is approximately 100 km or less, and when "----" is displayed, the color changes to red.

2 Average fuel economy

The average fuel economy calculated using the total amount of fuel used and the mileage since it was reset to "--.-" is displayed.

It indicates the distance (km) traveled using 1liter of fuel, and the value on the screen is updated every 10 seconds.

The average fuel efficiency is calculated continuously as long as the engine is running even if the vehicle is not actually driven.

3 Instantaneous fuel economy

The instantaneous fuel economy is calculated based on the mileage and the amount of fuel consumption.

It is displayed when the vehicle is driven at a speed of 10 km/h or higher and the value to be displayed ranges between 0 km/L and 30 km/L.

Resetting the average fuel economy

Press and hold down the (select) button in the current mode.

The average fuel economy is reseted and "--.--" is displayed, and when the vehicle is driven for a certaindistance, the average fuel economy is displayed.

Notice

· You can set the fuel economy to reset according to the vehicle condition (when starting the engine, when refueling). Automatic average fuel economy reset can be set from ^(□) (User Settings) → instrument cluster settings & information → Automatic average fuel economy reset on the instrument cluster.

Mileage/average speed/driving time





1 Mileage (A/B)

The distance that the vehicle traveled (km), average speed (km/h) and driving time (hh:mm) are displayed.

The distance to be displayed ranges between 0.0 km and 9999.9 km.

When the distance exceeds 9999.9 km, it returns to 0.0 km.

2 Average speed (A/B)

The average speed calculated based on the time and distance and it is updated every 10 seconds.

3 Driving time (A/B)

The time to be displayed ranges between 0:00 and 99:59, and when the time exceeds this range, it returns to 0:00.

Resetting the mileage/average speed/driving time

Press and hold down the (select) button in the current mode.

The average speed is reseted to "---" and the driving time is reseted to "0:00".

Driving information after departure





The mileage traveled after the engine is started (km), departure time (hh:mm), driving time (hh:mm) and fuel consumption (L) are displayed.

After departure

Total accumulated distance traveled after the engine is started is displayed.

The distance to be displayed ranges between 0.0 km and 9999.9 km.

2 Departure time

The time displayed on the clock at the bottom left side of the instrument cluster when the engine is started is checked and displayed.

3 Driving time

The time to be displayed ranges between 0:00 and 99:59, and when the time exceeds this range, it returns to 0:00.

4 Fuel consumption

The total amount of fuel used after the engine is started is displayed in liters (L).

Resetting the driving information after departure

The information resets automatically when you turn off the engine and start the engine again.

ISG cumulative time





1 ISG cumulative time

Displays the cumulative ISG OFF time (engine stop) by the ISG system after startup.

Reset of ISG cumulative time

Press and hold the (select) switch in current mode.

The ISG cumulative time is reset as "00:00:00".

TPMS status





A message indicating the status of tire pressure is displayed.

- If the tire pressure is normal, "Tire pressure OK" is displayed.
- If the tire pressure is abnormal, the corresponding message according to the degree of abnormal tire pressure is displayed, and this message stays on orblinks depending on the tire pressure condition.
- Refer to "Tire pressure monitoring system (TPMS)*" (p.2-28)

Notice

 Approximately 15 seconds after entering the tire pressure mode, it will automatically switch to "Distance to empty / Average fuel economy / Instant fuel economy" mode.

Urea level





Displays the remaining amount of urea.



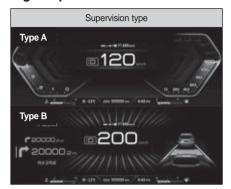
Warning

- If the level 1 warning occurs, replenish at least 6 L of urea immediately. (Condition for canceling the warning)
- If the level 2 warning occurs, replenish at least 10 L of urea immediately. (Condition for preventing the occurrence of level 3 warning and canceling the restriction of restarting)
- Refer to "Warning due to low urea solution level" (p.6-62)

Notice

- In the supervision type instrument cluster, the urea levels 1 and 2 are displayed in red and the urea level 3 or higher are displayed in blue.
- The capacity of the urea tank applied to this vehicle is up to 25 L, and up to 20 L is displayed on the instrument cluster.
- The urea inlet is located on the right side of the fuel inlet.

Digital speedometer





- Displays the current vehicle speed in digital numbers.
 - Supervision type: Two designs are provided.
 - Standard type: One design is provided.

Driving assist





When detecting the lanes according to the vehicle condition, the detected lane is displayed in white and alarm can be issued at the detected lane.

Depending on the operating system, the front vehicle is displayed.

The following are the systems that can display the front vehicle in the driving assistance menu:

- · Lane departure warning system (LDWS)
- Lane keeping assistance system (LKAS)
- · Emergency Lane Keeping (ELK)
- · LKAS hands-off display
- · Auto cruise
- Adaptive cruise control (ACC)
- Intelligent Adaptive cruise control (iACC)
- Safety speed control (SSC) display

Driver attention alert





The driver's "Cautious driving level" is displayed in 5 steps and the driver can determine the his/her own current cautious driving level.

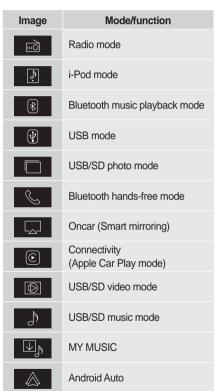
The "Cautious driving level" is lowered to a poor level according to the driver's travel pattern analysis and when driving for a long period of time without rest.

AV screen



The audio (AV) screen linked with the audio (AV) system is displayed.

The image displayed on the position of main menu at the top varies as follows depending on the mode or the function that is used currently.



User settings

% The menu configuration may vary according to the instrument panel specifications.

Dashboard Lighting

User Settings menu	Level 1	Level 2	Level 3
Dashboard Lighting	Graphic pop-up	-	-
Dashboard Lighting	HELP	-	-
User Settings menu	Level 1	Level 2	Level 3
	iving Assist Setting Front Safety Aid	AEBS 🗹	Tick/not tick (AEBS OFF warning lamp ON when not tick)
		Forward Collision Sensitivity >	● SLOW ○ MEDIUM ○ FAST
Driving Assist Setting		LDW & LKA Setting	● LDW ○ LKA ○ ELK □ Lane departure control
		Adaptive Cruise Level	● COMPORT ○ NORMAL ○ DYNAMIC
		Intelligent Adaptive Cruise ☑	Tick / Untick

User Settings menu	Level 1	Level 2	Level 3
		TSR ☑	Tick / Untick
		TSR Warning	Tick / Untick
	Front Cofoty Aid	Front Vehicle Start Warning	Tick / Untick
	Front Safety Aid	Driver Attention Warning (DAW) ☑	Tick / Untick
		Safety Distance Warning (SDW)	Tick / Untick
		HELP	-
Driving Assist Setting	Rear Side Safety Aid	Rear Side Warning and Collision Assist	OFFCollision WarningCollision Assist
		Rear Cross Traffic Warning & Collision Assist	OFFCollision WarningCollision Assist
		Rear Cross Traffic Warning	OFFCollision Warning
		Safety Exit Warning	● OFF ○ ON
		HELP	_

Dashboard Settings

User Settings menu	Level 1	Level 2	Level 3
	Dashboard Settings & Info	Fuel Economy Reset	OFFReset After RefuelingReset After Ignition
		Fuel Economy Unit	● km/L ○ L/100km
		Temperature Unit	● °C ○ °F
Dashboard Settings		Tire Pressure Unit	psikPabarkgf/cm²
		Warning Light Info	-
		HELP	-
		Activate Checkup Alert	Tick / Untick (Sub items activated when ticked)
	Oh a alasar Alasa	Oil & filter	
	Checkup Alert	Tire	Not set ~ 99,500 km (500 km in increments)
		Others	
		HELP	-

User Settings menu	Level 1	Level 2	Level 3
	Language	EnglishOther 11 languages	-
		HELP	-
Dashboard Settings	Sound	Warning Sound Type	BasicNaturalClassicTrendyKoreanLuxury
		Turn Signal Sound Volume	Level 1 / 2 / 3
		Dashboard Voice Volume	Level 17273
			BSW audible alert
		Blind Spot System Sound	RCTW audible alert
			SEW audible alert
		Welcome & Goodbye Sound ☑	-
		HELP	-

Display settings

User Settings menu	Level 1	Level 2	Level 3	Initialization value / B+ reset value
Display Settings	Day/Night Mode	Automatic SwitchingDay ModeNight Mode	-	AUTO / Last mode
	HELP	-	-	-

Vehicle settings

User Settings menu	Level 1	Level 2	Level 3
	Vehicle Settings Door/Tailgate	Auto Lock	OFFDrivingShifting to R,N,D
		Auto Unlock	OFFEngine OffShifting to P
Vehicle Settings		Auto Lock Speed Setting	■ 10km/h○ 20km/h○ 30km/h○ 40km/h○ 50km/h
		Lock/Unlock Sound ☑	-
		Press key twice to unlock ☑	-

User Settings menu	Level 1	Level 2	Level 3
	Door/Tailgate	Smart Door Auto Lock	-
		Smart Key Window Open/Close ✓	-
		Power Tailgate	● Activate ○ Deactivate
		Smart Tailgate	Activate Deactivate
		HELP	-
		Leaving-Home Headlamp	● OFF
Vehicle Settings	Light	Coming-Home Headlamp	○ 10 sec ○ 20 sec ○ 30 sec
		HELP	-
		Steering Wheel Alignment Alert	Tick / Untick
		Wiper Mode Display ☑	Tick / Untick
		Light Mode Display ☑	Tick / Untick
	Convenience	Approach Welcome	Tick / Untick
	Convenience	Auto Approach Welcome	Tick / Untick
		Long-Term Parking	Tick / Untick
		Wireless Charging System	Tick / Untick
		HELP	-
Reset All Settings	Yes/No	-	-

Item	Advanced type	Standard type	Operating conditions
Welcome message & sound	**** E		 If you tick the box at Sound → Welcome & Goodbye Sound display under User Settings in the instrument cluster, this message is displayed for 4 seconds when the theft deterrent mode is deactivated and the driver door is open and closed. If you turn the ignition switch to on while the message is displayed, the screen display disappears and the welcome sound plays to the end.
SYSTEM CHECK	-	Check System	 If the ignition switch is turned on, this message is displayed for 4 seconds once. If the message stays on, have the vehicle serviced at a KG Mobility Dealer or KG Mobility Authorized Service Center.
Driving Information	-	Driving Info Distance 468 m Fuel Effi. 13.6 m Drive Range m Insufficient Fuel	 When
Service Interval Alert	-	Checkup Alert Status Engine oil 12700 um Tire -65000 um Others 34000 um	 If you tick Enable Service Interval Notification in (User Settings), 'Service Interval Notification' message is displayed when the ignition is turned off. However, this message is not displayed when the distance left to the next service is over 300 km. When it is past the due date, the number is preceded by "-".

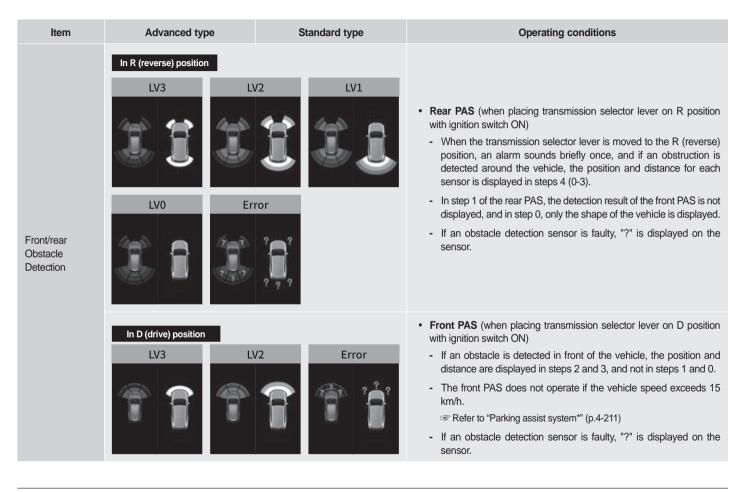
ltem	Advanced type	Standard type	Operating conditions
Instrument Cluster Settings	Stop vehicle first before setting	Stop vehicle first before setting	 If a vehicle speed greater than 0 km/h is detected after you enter the User Settings menu, LCD display shows this warning message for 5 seconds. However, the instrument cluster illumination, driving assist and vehicle warning menus are excluded.
ICE Warning Lamp	Beware of slippery road	-	 The ICE warning pop-up (1) is displayed as a pop-up message for 5 seconds when the ambient temperature falls 3°C or below. The ICE warning symbol (2) is displayed in the ambient temperature display at top of the instrument panel. ICE warning symbol is turned off when the ambient temperature is 5°C or higher.
Vehicle Warning Log	User Settings Xs Warnings Drive Assist Settings Dashboard Settings Vehicle Settings Reset All Settings	User Settings ⚠ Xs Warnings Language Door/Tailgate Light	 You can see the warning messages from the vehicle in the instrument cluster (User Settings). When the warning message is available at the vehicle, the custom symbol is changed to the master symbol. When the warning message is not available, the corresponding item is not displayed.
Smart Tailgate Indicator	SMART 20 82 20 20 20 20 20 20	-	 When Vehicle Settings → Door / Tailgate → Smart Tailgate is ticked under (User Setting) in instrument cluster, the smart tailgate indicator is illuminated. The smart tailgate indicator is only displayed on the advanced type instrument cluster.

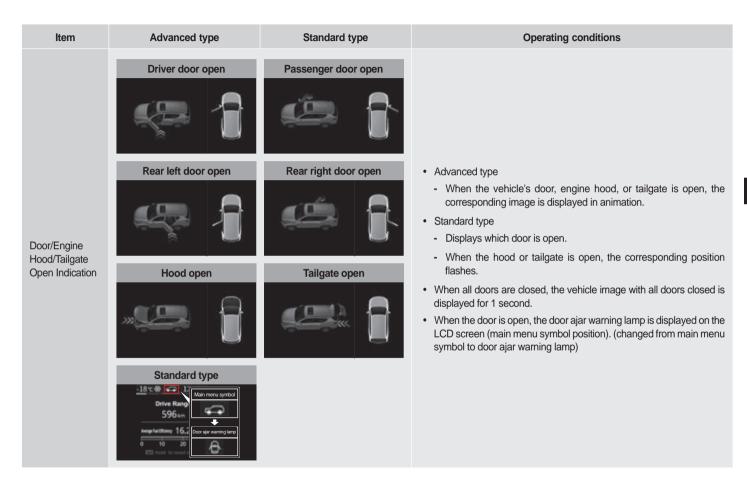
Item	Advanced type	Standard type	Operating conditions
Smart Key Warning	Smart key is inside	Smart key is inside	 When you about to close the door with another authenticated smart key or door handle switch while all the doors are closed and the authenticated smart key is inside the vehicle, this message will be displayed for 5 seconds.
	Smart key is not inside	Smart key is not inside	This message is displayed if no smart key is detected inside the vehicle with the ignition switch ON or engine running.
	Press START with smart key	Press START with smart key	 If the ignition switch is pressed and there is no valid smart key detected inside the vehicle, this message is displayed for 5 approximately seconds.

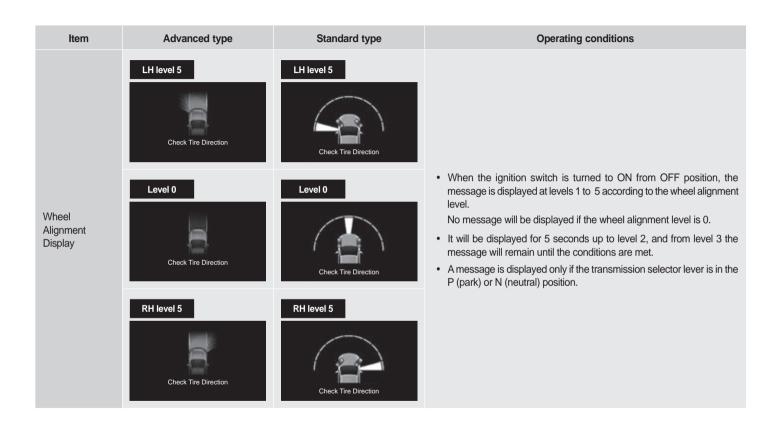
Item	Advanced type	Standard type	Operating conditions
Smart Key Warning	Check smart key system	Check smart key system	 If the smart key module does not receive any signal or receives faulty/ incorrect signals from the vehicle power supply control or ignition switch after the smart key authentication, this message is displayed for 5 approximately seconds. If the message stays on, have the vehicle serviced at a KG Mobility Dealer or KG Mobility Authorized Service Center.
	Replace smart key battery	Replace smart key battery	If low smart key battery is detected with Auto Lock deactivated, this message is displayed for approximately 5 seconds.
Ignition Switch Warning	Press on brake pedal and start engine	Press on brake pedal and start engine	 For the vehicles with A/T, when the ignition switch is turned to ACC position a second time by pressing the ignition switch continuously without depressing the brake pedal, this message is displayed for about 5 seconds. This message is to inform the driver that the brake pedal should be depressed and the ignition switch be pressed in order to start the engine.
	Shift to P or N	PN Shift to P or N	 This message is displayed for approximately 5 seconds when the driver tries to start the engine with the transmission selector lever not in P (park) or N (neutral) position. This message is to inform the driver that the transmission selector lever should be in P or N position before pressing the ignition switch in order to start the engine.

Item	Advanced type	Standard type	Operating conditions
Ignition Switch Warning	Shift to "P" before turning it off	Shift to "P" before turning it off	 This message is displayed for approximately 5 seconds when the driver turns power off with the transmission selector lever not in P position. This message is to inform the driver that the transmission selector lever must be in the P position and the ignition switch must be pressed to turn off the power.
	Turn it off to prevent battery drain	Turn it off to prevent battery drain	 In order to prevent the battery from being discharged, this message is displayed for approximately 5 seconds when ignition switch is in ACC position for 12 minutes or longer or the driver's door is open with ACC ON.
ISG System	AUTO STOP 02:03	(A) AUTO STOP 23:47	The message indicating the cumulative time that the engine has stopped is displayed while the ISG system is normally operating.
	Starting automatically	(A) Starting automatically	This message is displayed when the engine stops and then is automatically restarted while the ISG system is normally operating.

Item	Advanced type	Standard type	Operating conditions
	AUTO STOP Off	AUTO STOP Off	 Pressing the ISG OFF button deactivates the ISG system and the message indicating that the system has been turned off is displayed for approximately 5 seconds. However, the ISG OFF indicator will be illuminated even if the corresponding message is not displayed according to the pop-up priority.
ISC System	Auto Stop deactivated	Auto Stop deactivated	If the current status of the vehicle does not meet the ISG system operating conditions, this message is displayed.
ISG System	AUTO STOP deactivated Start manually	AUTO STOP deactivated Start manually	 The message is displayed when the engine stops and is not automatically restarted depending on the vehicle status while the ISG system is normally operating.
	Check AUTO STOP	(A)! Check AUTO STOP	 This message is displayed in the event of the faulty ISG system. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.



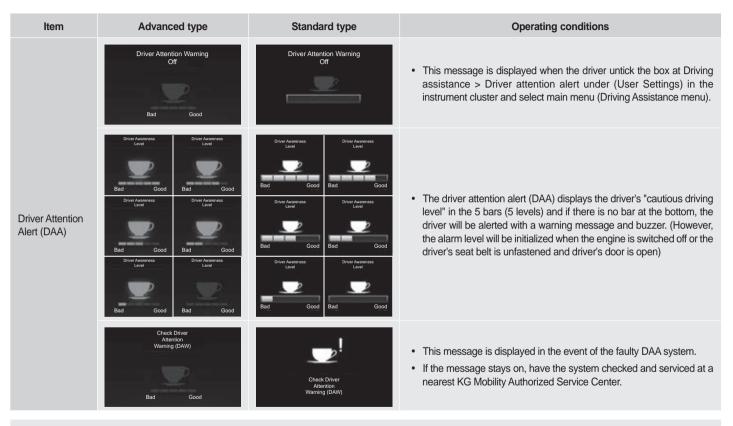




Item	Advanced type	Standard type	Operating conditions
ESP System	Check Electronic	Check Electronic	In the event of an ESP system failure, a warning lamp will illuminate
Warning	Stability Control (ESC)	Stability Control (ESC)	and a message will be displayed after 3 seconds of engine start.
EBD System Warning	Check Electronic Brake force Distribution (EBD)	Check Electronic Brake force Distribution (EBD)	In the event of an EBD system failure, a warning lamp will illuminate and a message will be displayed after 3 seconds of engine start.
ABS Warning	Check Anti-lock	Check Anti-lock	 In the event of an ABS failure, a warning lamp will illuminate and a
	Brake System (ABS)	Brake System (ABS)	message will be displayed after 3 seconds of engine start.
Engine Oil Level	Check	Check	If engine oil level is low or engine oil pressure is abnormal, a warning lamp will illuminate and a message will be displayed after 3 seconds of engine start.
Check	engine oil level	engine oil level	

Item	Advanced type	Standard type	Operating conditions
Exterior Lamp ON	Lamp is on	Lamp is on	This message is displayed if the exterior lamp is on when the driver's door is open after the ignition has been turned off.
Sunroof Open Warning	Sunroof is open	Sunroof is open	A message will be displayed if the sunroof is open after the ignition is turned off.
Low Fuel Level	Ε)	D)	 If the fuel level is low, a warning lamp will illuminate and a message will be displayed after 3 seconds of engine start.
Low Fuel Level (DTE less than 30 km)	Refuel	Refuel	This message is displayed at the point when the distance to empty is less than about 30km.
Smart High Beam (HBA) System Warning	Check Smart High Beam (SHB)	AUTO Check Smart High Beam (SHB)	In the event of a smart high beam (HBA) system failure, this message will be displayed after 3 seconds of engine start.

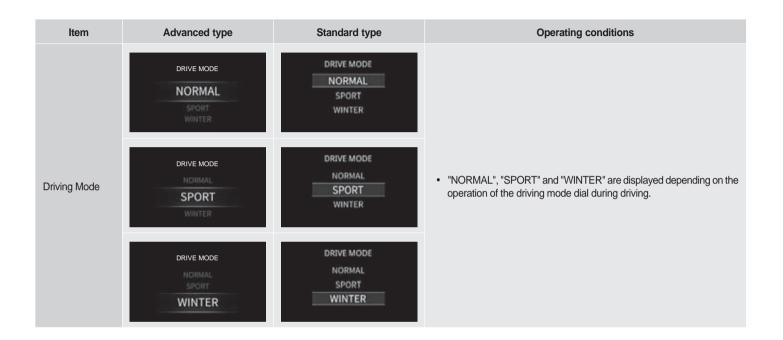
Item	Advanced type	Standard type	Operating conditions
	Collision Warning	Collision Warning	 When the operating conditions for the autonomous emergency braking system (AEBS) are met, a "Collision Alert" message is displayed for 5 seconds. The AEBS warning lamp also flashes for 5 seconds. If the conditions for displaying warning message are met again during the 5 seconds of the message display, the new warning message will be displayed for 5 seconds with the same flashing of the indicator.
Autonomous Emergency	Emergency Braking Off	Emergency Braking Off	 This message is displayed after the vehicle has stopped by the activation of emergency braking (maximum brake control) by the 3rd warning of AEBS.
Braking System (AEBS)	Check Autonomous Emergency Braking (AEB)	Check Autonomous Emergency Braking (AEB)	If there is a fault in the AEBS 3 seconds after the engine start, this warning message is displayed for 5 seconds.
	Camera cannot work due to dirty windshield	Camera cannot work due to dirty windshield	This message is displayed when the front camera module (FCM) cannot detect the lane markings, preceding vehicles, people, etc. because of the dirt or debris on the windshield glass.

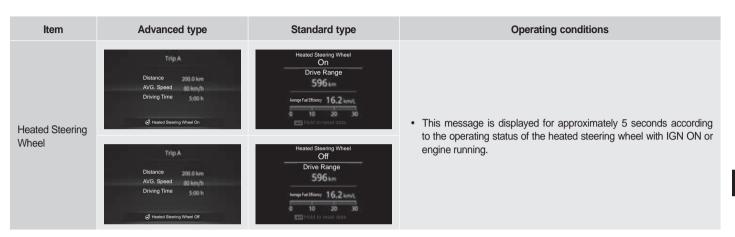


Driver Attention Alert (DAA)

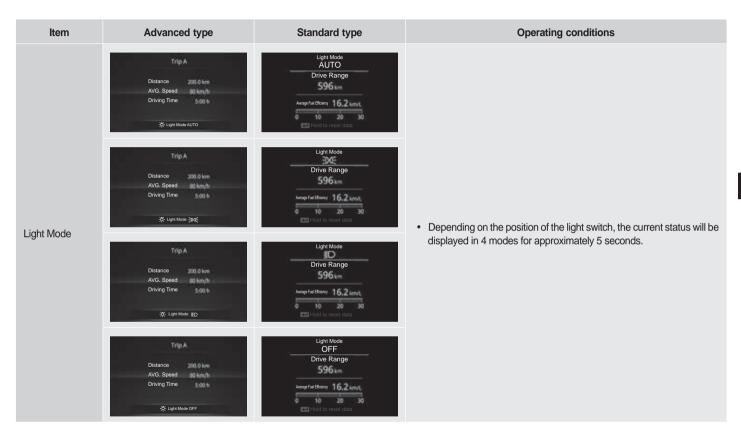
A function that warns and encourages the driver to get some rest by displaying the warning level based on the result of analyzing the vehicle information and the driver's driving pattern.

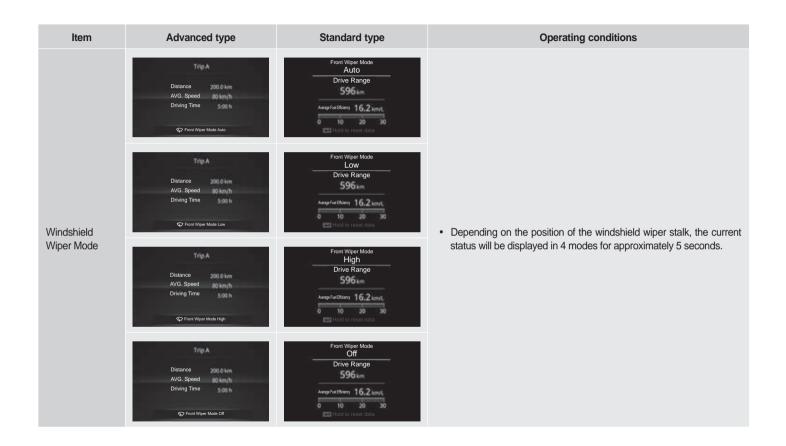
Item	Advanced type	Standard type	Operating conditions
Break Time Alert	Please take a break for a mornent	Please take a break for a moment	 The message which recommends taking a break is displayed for approximately 10 seconds for your safety after driving for some time. Alert interval: Only vehicles without DAA will display the message every 2 hours from the time the engine is first started with the ignition switch ON. For vehicles with DAA, the warning pop-up is displayed by the DAA system.
Service Interval Alert	Service required	Service required	 If the Enable Service Interval Alert check box is ticked under (User Settings) in the instrument cluster, when the distance to empty reaches 0 km, a message is displayed once (when the ignition switch is switched from OFF to ON).
Low Washer Fluid Level	Refill washer fluid	Refill washer fluid	 If the washer fluid level is low, the message asking to replenish washer fluid is displayed. The remaining volume of washer fluid in the tank when the indicator is activated is about 800 ml.
Bluetooth Phone Call Hold	Trip A Distance 200.5 km AVG. Speed 30 km/h Driving Time 5000 h	Drive Range 596 Ausgefülltörer, 16,2 km/l 10 20 30	 When you receive a call with hands-free connected, the name or phone number will still be displayed until the signal persists. If the name and phone number are received at the same time, only the name is displayed. In AV screen (main menu), the pop-up message is not displayed.

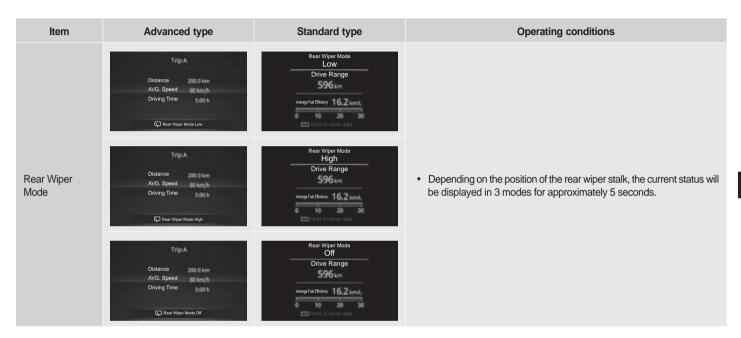




Item	Advanced type	Standard type	Operating conditions
HDC ON/OFF	Distance 2000 km AVG. Speed 2000 km Driving Time 5000 Hill Descent Control Off Distance 2000 km AVG. Speed Driving Time 5000 Hill Descent Control On	Hill Descent Control Off Drive Range 596 Aussprist Storry 16,2 km. 10 30 Hold to reset data Hill Descent Control On Drive Range 596 Aussprist Storry 16,2 km.	 This message is displayed for approximately 5 seconds depending on the ON / OFF status of the HDC system. The indicator color may change based on the HDC operation status. Green HDC indicator ON: HDC in ready status Green HDC indicator flashing: HDC in operation Red HDC warning lamp ON: HDC overheated and system error
	Check the Hill Descent Control System	Check the Hill Descent Control System	 If the HDC (Hill Descent Control) system is faulty, this message is displayed. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.
HDC System	Not in Hill Descent Control operating condition.	Not in Hill Descent Control operating condition.	If the operating conditions of the HDC system are not met, this message is displayed.







Item	Advanced type	Standard type	Operating conditions
Reminder from wireless phone charger	Cell phone charging	Cell phone charging	 If any phone is on the wireless charging pad after the ignition is off (ignition switch in ACC or OFF position) while the wireless phone charger is operating with the ignition switch in ON position, a reminder message "The phone is on the wireless phone charger." is displayed on the instrument cluster. (However, reminder does not work when changing the ignition switch from the OFF position to ACC position even if the wireless phone charger is operating.)
	Cell phone charging completed	Cell phone charging completed	 When the wireless phone charger system is working normally to start charging your phone, this message is displayed on the instrument panel for about 5 seconds.
	Problem in charging. Foreign matter detected.	Problem in charging. Foreign matter detected.	This message is displayed on the instrument panel for about 5 seconds when the charging is completed.
	Cell phone is on the wireless charger	Cell phone is on the wireless charger	 If there is a problem with charging or there is a metal object on the charging pad, this message is displayed on the instrument panel for 5 seconds at approximately 5 minute intervals. If your phone doesn't charge, try to lift the phone off the charging pad and place it again or check your phone condition. (Your phone may stop charging depending on battery temperature conditions.) In addition, be sure to remove any metallic object on the wireless charging pad.

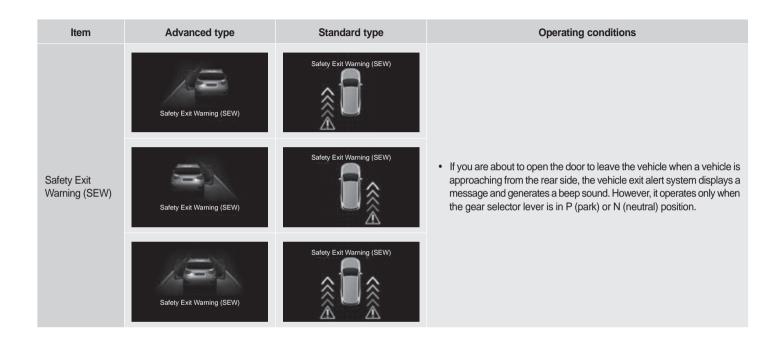
Item	Advanced type	Standard type	Operating conditions
	Close door, hood, and trunk, then wear seat belt	Close door, hood, and trunk, then wear seat belt	This message is displayed when the accelerator pedal is depressed with EPB or AUTO HOLD activated and the AUTO deactivation conditions are not met.
Electronic	Switching to parking brake	Switching to parking brake	This message is displayed when switching to the electronic parking brake state while AUTO HOLD is active.
Parking Brake (EPB)	Activate brake immediately	Activate brake immediately	 This message is displayed for approximately 5 seconds when the vehicle slips down with AUTO HOLD active and/or a fault in EPB is detected. However, if the vehicle slips down and the electronic parking brake (EPB) is automatically reactivated and the vehicle does not slip any more, the message will not be displayed.
	Check Electronic Parking Brake (EPB)	Check Electronic Parking Brake (EPB)	 If there is a fault in the EPB system, this message is displayed along with the flashing EPB warning indicator. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.

Item	Advanced type	Standard type	Operating conditions
AUTO HOLD System	AUTO HOLD Check AUTO HOLD	AUTO! HOLD Check AUTO HOLD	 This message is displayed in the event of the faulty AUTO HOLD system. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.
	Press brake pedal	Press brake pedal	When the EPB switch is operated without depressing the brake pedal to deactivate the AUTO HOLD system, this message is displayed.
ESP System ON/OFF	Trip A Distance 200.8 km AVG. Speed 30 km/h Driving Time 5/00 h	Electronic Stability Control Off Drive Range 596 Away Full Bloom 16, 2 km.	This message is displayed for approximately 5 seconds depending on
	Trip A Distance 200.8 km AVG. Speed 80 km/h Driving Time 500 h	Electronic Stability Control On Drive Range 596 Awage full Efficiency 16, 2 km/s 19 30 CEL Hold to reset data	the status of the ESP OFF switch.

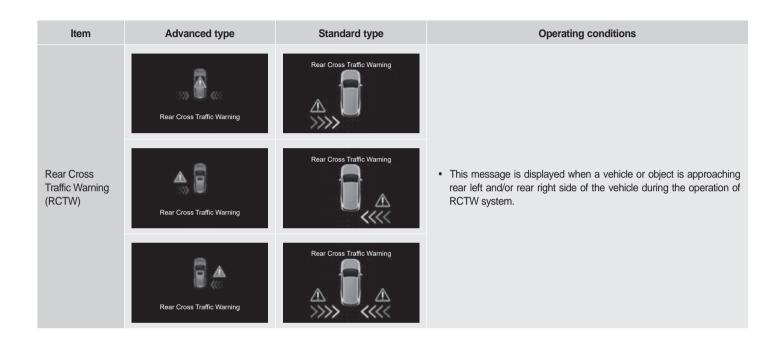
Item	Advanced type	Standard type	Operating conditions
P-gear Control System (PRA)	P position deactivated	P position deactivated	This message is displayed when the P (park) release switch is operated with the brake pedal depressed for the purpose of double-parking (second row parking).
	Check Parking Release Assist (PRA) System	Check Parking Release Assist (PRA) System	 This message is displayed in the event of the faulty P-gear control system. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.

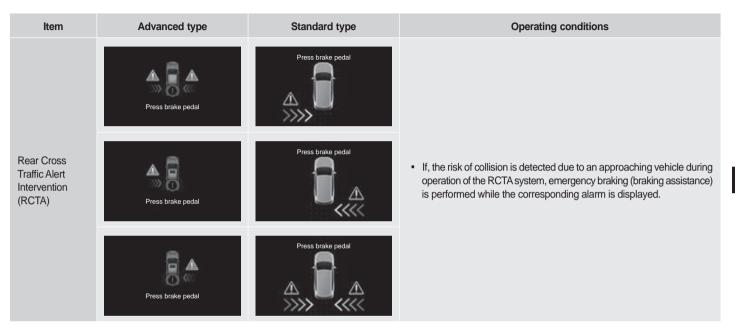
Item	Advanced type	Standard type	Operating conditions
	Check the shift lever	Check the shift lever	 If there is a fault in the SBW system, this message is displayed. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.
Shift Lever	Cannot shift the gear	Cannot shift the gear	If the current status of the vehicle does not meet the SBW system's shifting conditions, this message is displayed.
(SBW)	After parking, shift to the P position	After parking, shift to the P position	If the vehicle is not completely stopped and the P (park) button is pressed, a corresponding message is displayed.
	Depress the brake and shift the gear	Depress the brake and shift the gear	When the electronic shift lever (SBW) is operated, the message is displayed if the shift lever is operated without the brake applied.

Item	Advanced type	Standard type	Operating conditions
	Press the UNLOCK button and shift the gear	Press the UNLOCK button and shift the gear	When the electronic shift lever (SBW) is operated, the message is displayed if the shift lever is operated without pressing the UNLOCK button.
Shift Lever	Check the P button	P ! Check the P button	
(SBW)	Check the P RELEASE button	Check the P RELEASE button	 If there is a fault in the SBW button, this message is displayed. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.
	Check the UNLOCK button.	Check the UNLOCK button.	



Item	Advanced type	Standard type	Operating conditions
Blind Spot- Detection	Check Blind Spot-Detection Warning (BSW)	Check Blind Spot-Detection Warning (BSW)	 This message is displayed in the event of the faulty BSW system. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.
Warning (BSW)	Blind Spot-Detection Warning has been deactivated temporarily	Blind Spot-Detection Warning has been deactivated temporarily	This message is displayed when the BSW system is turned on and the sensor can not normally detect the blind spots: when there are foreign materials on the outside or inside of the rear bumper, a trailer or other equipment is installed in the rear of the vehicle, the width of the road is wide, it snows or rains too much and etc.





Item	Advanced type	Standard type	Operating conditions
Blind Spot	BSA & RCTA	BSA & RCTA	If the risk of collision is detected due to an approaching vehicle during
Collision Assist (BSA)	BSA & RCTA	BSA & RCTA	operation of the BSA system, the steering control is carried out while the corresponding alarm is triggered.
Front Vehicle Start Warning	Front Vehicle Start	Front Vehicle Start	 This function is enabled when you tick the box at Driving assistance > Front vehicle start alarm under (User Settings) in the instrument cluster. While the ISG system is in operation (automatic engine shutdown), the corresponding message may not be displayed.
(FVSW)	Check Front Vehicle Start Warning	Check Front Vehicle Start Warning	 If there is a fault in the FVSW system, this message is displayed. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.

Front Vehicle Start Warning (FVSW)

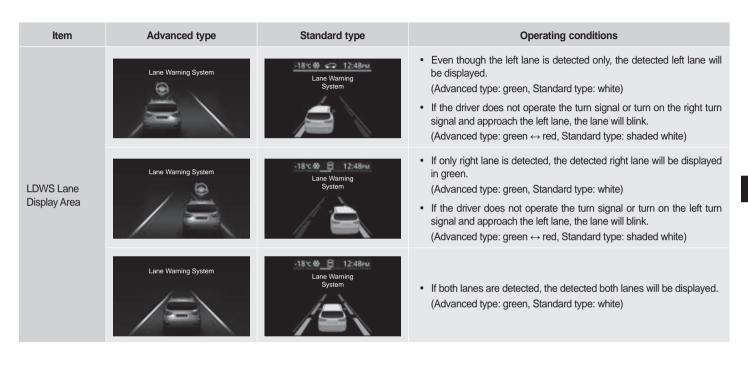
A function to emit a buzzer and display a message if the driver does not depart the vehicle after the front vehicle has departed and moved a certain distance

Item	Advanced type	Standard type	Operating conditions
Exhaust Gas Aftertreatment System Operation Request	Driving is required to clean Diesel Particulate Filter (DPF)	Driving is required to clean Diesel Particulate Filter (DPF)	 This message is displayed when the exhaust aftertreatment system is deposited with soot and etc. and the aftertreatment system must be operated.
Warning due to Clogged Exhaust Gas Aftertreatment System	Check Diesel Particulate Filter (DPF)	Check Diesel Particulate Filter (DPF)	This message is displayed in the event of the faulty exhaust gas aftertreatment system.

Item	Advanced type	Standard type	Operating conditions
Urea System Check Progress Message	UREA solution will be checked for 50 km	UREA solution will be checked for 50 km	 In the normal (warning message disappeared) state after an alert has been issued due to an urea system failure, a message indicating Urea system needs to be checked is displayed for approximately 50 km of driving.
Warning that diagnosis result shows urea system unavailable	Unable to restart engine as UREA solution diagnosis is faulty	Unable to restart engine as UREA solution diagnosis is faulty	 If the urea system is still faulty after checking the urea system while driving the vehicle for 50 km, a corresponding warning message is displayed and the engine restart is not possible.
Warning due to low urea level	Insufficient UREA solution.	Insufficient UREA solution.	 If the urea system is faulty, a warning message is displayed divided into 6 areas. Each warning is divided into 3 Tiers according to its severity. At 3 Tier, it is impossible to operate the vehicle.
Warning due to urea system (DCU and electrical fault)	Check UREA solution	Check UREA solution	 If the warning lamp turns on or a warning message appears, have the vehicle checked at a KG Mobility Dealer or KG Mobility Authorized Service Center. Refer to "Exhaust gas after-treatment system II (SCR)*" (p.6-62)

Item	Advanced type	Standard type	Operating conditions
Warnings due to urea injection system	Check UREA solution injection device	Check UREA solution injection device	
Warning due to incorrect reagent	UREA solution is inappropriate	UREA solution is inappropriate	 If the urea system is faulty, a warning message is displayed divided into 6 areas. Each warning is divided into 3 Tiers according to its severity. At 3 Tier, it is impossible to operate the vehicle.
Low SCR Catalyst Purification Efficiency	SCR catalyst low efficiency	SCR catalyst low efficiency	 If the warning lamp turns on or a warning message appears, have the vehicle checked at a KG Mobility Dealer or KG Mobility Authorized Service Center. Refer to "Exhaust gas after-treatment system II (SCR)*" (p.6-62)
Warning due to abnormal exhaust emissions	Emission too high - Check UREA solution	Emission too high - Check UREA solution	

Item	Advanced type	Standard type	Operating conditions
	Lane Warning Off	Lane Warning Off	Displayed when the lane departure warning is disabled.
Lane Departure	Lane Warning Standby	Lane Warning Standby	 The lanes are shaded when the vehicle is driven at a low speed of less than 40km/h or at a high speed of 180 km/h or higher or both lanes are not detected.
Warning (LDW)	Lane Warning Error	Lane Warning Error	Displayed when the lane departure warning is disabled.
	Check Lane Warning	Check Lane Warning	 This message is always displayed in the event of the faulty LDW. Displayed as pop-up message 3 seconds after the start-up when there is a fault in the lane departure warning. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.



Item	Advanced type	Standard type	Operating conditions
LDWS Lane Display Area	Lane Warning System Lane Warning System	Lane Warning System 18 * E 12 48 ** Lane Warning System	If both lanes are detected and the vehicle approaches the left or right lane without turning on the turn signal, the lane will blink. (Advanced type: green ↔ red, Standard type: shaded white)
LKAS (Lane Keeping	Lane Keeping Off	-18℃ ** <u>6</u> 12-48 м Lane Keeping Off	Displayed when the lane keeping assistance system is disabled.
Assistance System)	Lane Keeping Standby	Lane Keeping Standby	 The lanes are shaded when the vehicle is driven at a low speed of less than 40km/h or at a high speed of 180 km/h or higher or both lanes are not detected.

Item	Advanced type	Standard type	Operating conditions
Lane Keeping	Lane Keeping Error	-18 t * _ 12 48 u Lane Keeping Error	Displayed when the lane keeping assistance system is disabled.
Assistance System (LKAS)	Check Lane Keeping	-18 t # 5 12 48 w Check Lane Keeping	 Displayed as pop-up message 3 seconds after the start-up when there is a fault in the lane keeping assistance system. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.
LKAS Lane	Lane Keeping System	-18 t & E 12 48 vi Lane Keeping System	 Even though the left lane is detected only, the detected left lane will be displayed. (Advanced type: green, Standard type: white)(Pop-up messages will not be displayed.) If the driver does not operate the turn signal or turn on the right turn signal and approach the left lane, the lane will blink. (Advanced type: green ↔ red, Standard type: shaded white)(Pop-up message displayed)
Display Area	Lane Keeping System	-18 t & B 12-48 M Lane Keeping System	 Even though the right lane is detected only, the detected right lane will be displayed. (Advanced type: green, Standard type: white)(Pop-up messages will not be displayed.) If the driver does not operate the turn signal or turn on the left turn signal and approach the right lane, the lane will blink. (Advanced type: green ↔ red, Standard type: shaded white)(Pop-up message displayed)

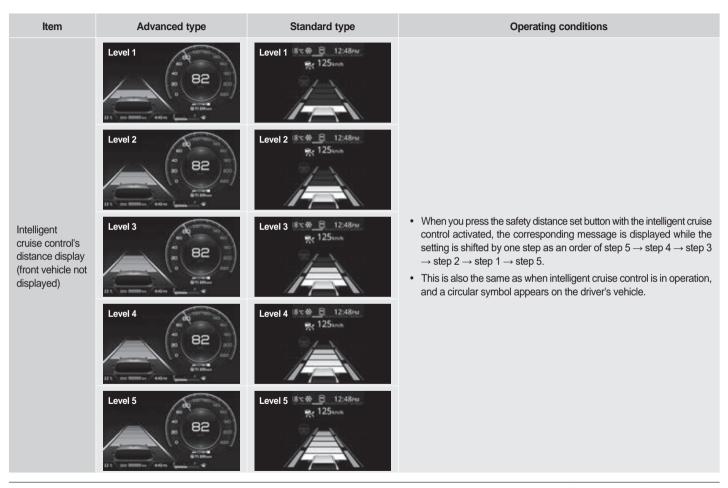
Item	Advanced type	Standard type	Operating conditions
	Lane Keeping System	Lane Keeping System	If both lanes are detected, the detected both lanes will be displayed. (Advanced type: green, Standard type: white)
LKAS lane display area	Lane Keeping System	Lane Keeping System	If both lanes are detected and the vehicle approaches the left or right lane without turning on the turn signal, the lane will blink.
	Lane Keeping System	-18 t * 12-48 mi Lane Keeping System	(Advanced type: green ↔ red, Standard type: shaded white)(Pop-up message displayed)

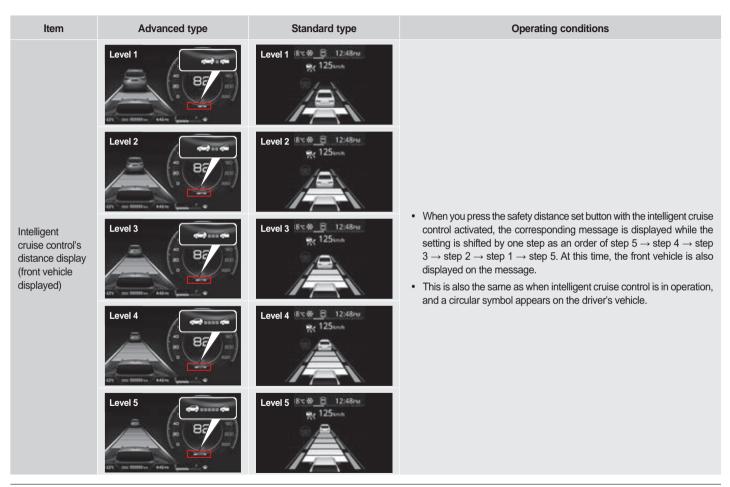
Item	Advanced type	Standard type	Operating conditions
Cruise Control (Without Radar)	2 km/h 85	Auto Crision Standay	When you press the cruise control ON/OFF switch with the ignition switch turned on, "Auto cruise ready" message (1) and symbol (2) are displayed and the auto cruise becomes ready.
	2 100 km/h NO ALIS CALLE ACTIONS THE WAY SETTINGS AND ALIS CALLES ACTIONS AND ALIS CALLES AC	Across Across	 When you pull down the speed control lever with the auto cruise ready, "Auto cruise set" message (1), symbol and set speed (2) are ready and auto cruise is activated. Adjust the vehicle speed by pushing up or pulling down the speed control lever.
	To And Challe Described	Auto Cruse Deactivate Lane Warning System	 If you disable the cruise control during its operation (ready / auto), "Auto cruise disabled" message is displayed and the cruise control is deactivated.

Item	Advanced type	Standard type	Operating conditions
Adaptive Cruise Control (ACC) (With Radar)	Adaptive Cruitee Standby 82	Adaptive Cruste Standay	 During the adaptive cruise control (ACC) operation, when the standby conditions such as the brake pedal are satisfied, the message "Adaptive Cruise Control Ready" (1) and symbol (2) are displayed, and the adaptive cruise control (ACC) enters standby mode. While the adaptive cruise control (ACC) is in standby mode, pushing up the cruise control speed adjustment lever in the RES+ direction activates the adaptive cruise control (ACC).
	Adaptive Cruise Activate 82	Adaptive Crutae Activate Activ	 When you pull down the speed control lever with the adaptive cruise ready, "Adaptive cruise set" message (1), symbol and set speed (2) are ready and adaptive cruise is activated. If there is no vehicle ahead, the driver's vehicle keeps driving at the set speed. If there is a vehicle driving at a speed lower than the set speed ahead, the driver's vehicle will travel while maintaining a set distance to the vehicle ahead.
	Adaptive Cruise Descrivate 82	Adaptive Cruise Deactivate Lane Warning System	 If you disable the adaptive cruise control during its operation (ready/ auto), "Adaptive cruise disabled" message is displayed and the adaptive cruise control is deactivated.

Item	Advanced type	Standard type	Operating conditions
	Intelligent Cruise Standby 82	1 Intelligent Cruse Standby	 During the intelligent cruise control (IACC) operation, when the standby conditions such as the brake pedal are satisfied, the message "Intelligent Cruise Control Ready" (1) and symbol (2) are dis-played, and the intelligent cruise control (IACC) enters standby mode. While the intelligent cruise control (IACC) is in standby mode, pushing up the cruise control speed adjustment lever in the RES+ direction activates the intelligent cruise control (IACC).
Intelligent Cruise Control (iACC) (With Radar)	Intelligent Cruise Activate 82	Intelligent Cruse Activate Activate T 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	 When you pull down the speed control lever with the intelligent cruise ready, "Intelligent cruise set" message (1), symbol and set speed (2) are displayed and intelligent cruise is activated. If there is no vehicle ahead, the driver's vehicle keeps driving at the set speed. If there is a vehicle driving at a speed lower than the set speed ahead, the driver's vehicle will travel while maintaining a set distance to the vehicle ahead.
	Intelligent Cruise Deactivate	Intelligent Cruise Deactivate Lane Warning System	 If you disable the intelligent cruise control during its operation (ready/ auto), "Intelligent cruise disabled" message is displayed and the intelligent cruise control is deactivated.

Item	Advanced type	Standard type	Operating conditions
Intelligent steering assist control	92 82 0 82 0 91 miles 127	12-daru	 The steering assist symbol is displayed in 3 steps (Ready to set, Set, and Activated) depending on the operating state of the intelligent cruise control. Step 1 (1): When the intelligent cruise control is in ready mode in the driver assistance main menu Step 2 (2): When the intelligent cruise control is set Step 3 (3): When driving while maintaining the center of the lane with the intelligent cruise control set





Item	Advanced type	Standard type	Operating conditions
	Keep hands on steering wheel	Keep hands on steering wheel	 If the system determines that the driver does not hold the steering wheel with the lane keeping assistance system activated, a message is displayed as the stage 1 warning.
Lane keeping assistance system hands- off	Keep hands on steering wheel	Keep hands on steering wheel	When a certain period of time has elapsed after the stage 1 warning, the message and beep are given continuously as the stage 2 warning.
	Lane Keeping Assist (LKA) has been deactivated	Lane Keeping Assist (LKA) has been deactivated	After the stage 2 warning, for safe operation, the LKAS is disabled and the relevant message is displayed.

Item	Advanced type	Standard type	Operating conditions
Intelligent cruise control hands-off	Keep hands on steering wheel	Keep hands on steering wheel	 If the system determines that the driver does not hold the steering wheel with the intelligent cruise control system activated, a message is displayed as the stage 1 warning.
	Keep hands on steering wheel	Keep hands on steering wheel	When a certain period of time has elapsed after the stage 1 warning, the message and beep are given as the stage 2 warning.
	Intelligent Adaptive Cruise Control (IACC) has been deactivated	Intelligent Adaptive Cruise Control (IACC) has been deactivated	After the stage 2 warning, for safe operation, the intelligent cruise control system is disabled and the relevant message is displayed.
	Intelligent Adaptive Cruise Control (IACC) is deactivated temporarily	Intelligent Adaptive Cruise Control (IACC) is deactivated temporarily	 After the stage 2 warning, for safe operation, the intelligent cruise control system is temporarily disabled and the relevant message is displayed.

Item	Advanced type	Standard type	Operating conditions
	82 82 No. 107	18:0 \$ 12:48rd \$\text{\$\text{\$\chi\$}\chi\$} \frac{125mm}{25mm}\$\$	 When the over speed warning signal is received from the navigation while the safety speed control system is operating, the corresponding symbol (1) is displayed and the safe speed control enters standby mode. However, the safety speed control display works only on highway driving.
Safety Speed Control Display	0 82 0 82 0 81300 W 19900 A 43 M	150 a 12-48m ex 125mm	 When the safety speed control system automatically decelerates the vehicle, the corresponding symbol (2) is displayed and safety speed control is enabled. However, the safety speed control display works only on highway driving.
	Check Safety Speed Assist	Check Safety Speed Assist	 This message is displayed in the event of the faulty safety speed control system. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.

Item	Advanced type	Standard type	Operating conditions
Adaptive Cruise Control Alert Pop-up	Forward Collision Warning	Forward Collision Warning	When the front vehicle is no longer detected for example, due to change of lane, during the adaptive cruise control operation, the message is displayed.
	When front vehicle departs, operate RES, SET button or pedal	When front vehicle departs, operate RES, SET button or pedal	 If the vehicle stops during the adaptive cruise control operation (or along with ISG), after a certain period of time, you will be prompted to step on the accelerator pedal or raise or lower the cruise control switch to start.
	Front Vehicle Approach Warning	Front Vehicle Approach Warning	The message is displayed when the distance between the driver's vehicle and the preceding vehicle is getting smaller with the adaptive cruise control activated.
	Driver Accelerating	Driver Accelerating	The message is displayed when the driver depresses the accelerator pedal with the adaptive cruise control activated.

Item	Advanced type	Standard type	Operating conditions
Adaptive Cruise Control Alert Pop-up	Adaptive Cruise Control (ACC) has been deactivated	Adaptive Cruise Control (ACC) has been deactivated	The message is displayed when the adaptive cruise control is automatically deactivated.
	Adaptive Cruise Control (ACC) is not triggered	Adaptive Cruise Control (ACC) is not triggered	The message is displayed If the operation conditions do not meet during the adaptive cruise control operation.
	Adaptive Cruise Control (ACC) is deactivated temporarily	Adaptive Cruise Control (ACC) is deactivated temporarily	The message is displayed If the operation conditions do not meet during the adaptive cruise control operation.

Item	Advanced type	Standard type	Operating conditions
Adaptive Cruise Control Check Pop-up	Check radar cover	Check radar cover	 A message is displayed when the front part of the camera cover is contaminated due to dust, dirt or other materials and can't detect the lane, preceding vehicle or people, etc.
	Check radar	Check radar	 This message is displayed in the event of the faulty radar system. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.
Safety distance	Keeping Safe Distance	Keeping Safe Distance	 This function is enabled when you tick the box at Driving assistance → Safety distance alert under (User Settings) in the instrument cluster. The message is displayed when your vehicle is approaching the preceding vehicle.
alert [*]	Check Safety Distance Warning (SDW)	Check Safety Distance Warnling (SDW)	 The message is displayed if the safety distance reminder system is faulty. If the message stays on, have the system checked and serviced at a nearest KG Mobility Authorized Service Center.

SDA (Safety Distance Alert)

Function to display the message to the driver when it is determined that safety distance is not secured by analyzing the information such as distance to front vehicle, speed and position

Shift lever in manual transmission

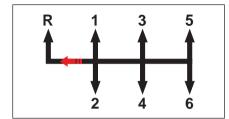
The manual transmission in your vehicle has 6 forward gears and 1 reverse gear. To change gears, fully depress the clutch pedal. Then, move the gearshift lever into a desire gear.

After shifting, release the clutch slowly.



Position for engine start, vehicle stop, and parking

- Reverse Gear
- 2 1st Gear
- 3rd Gear
- 4 5th Gear
- 6th Gear
- 6 4th Gear2nd Gear



Reverse Gear

Position for reverse driving.

Shifting to R (Reverse)

To ensure safety in reverse shift, it is designed to be shifted to the reverse gear by applying greater operating force than forward shift (with high-force type). This allows the driver to recognize the reverse shift, which helps to avoid shift operation error. The reverse gear is placed on the left side of the 1st gear. When the vehicle is completely stopped, put the shift lever to the reverse (R) position by pulling it to the left harder than when shifting to the 1st gear and pushing forward.

$oldsymbol{\Lambda}$

Caution

- If the driver tries to shift to the 1st gear quickly, due to characteristics of the reverse shift method, a momentary strong power may result in engagement of the reverse gear in place of the 1st gear.
- When starting the vehicle, fully familiarize yourself with the positions of the 1st gear and the reverse gear.
- Before starting the vehicle, depress the brake pedal and move the shift lever to the R position. Then, check that the reverse gear indicator lights up on the instrument cluster and listen for a beep. Otherwise, have your vehicle checked and serviced at KG Mobility dealer.

1st Gear

Position for driving off and high traction force. Depress the clutch pedal to its travel end and move the shift lever to "1". Then, slowly release the clutch pedal while gently depressing the accelerator pedal to drive off.

3rd Gear

For low- or mid-speed driving. When upshifting from 2nd gear to 3rd gear, particular caution should be taken not to inadvertently press the gear shift lever sideways in such a manner that 5th gear is engaged.

5th Gear

Position for high speed driving on a highway. When downshif ting from 5th gear to 4th gear, particular caution should be taken not to inadvertently press the gear shift lever sideways in such a manner that 2nd gear is engaged.

6th Gear

Position for very high speed driving on a highway.

4th Gear

Position for normal and high speed driving

2nd Gear

Position for low speed driving

Notice

· Your vehicle is equipped with the gear shift point indicator, which can be shown on LCD display. Refer to Chapter 5. Instrument cluster for details.

Downshifting

When you need to slow down in heavy traffic or while driving up steep hills, downshift the gear to release the load to the engine. Downshifting reduces the chance of stalling and gives better acceleration when you need to increase the vehicle speed again. When the vehicle is driving down steep hills, downshifting provides a safe speed and prolongs the life span of brake system.

Gear position when parking

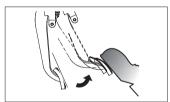
Always apply the parking brake fully and shut the engine off after parking. Shift the transmission into 1st gear when the vehicle is parked on a level ground or uphill grade, and shift into "R" on a downhill grade.

Using the clutch

The clutch pedal should be depressed all the way to its travel end before shifting. The clutch pedal should be fully released while driving. Do not rest your foot on the clutch pedal while driving. This can cause unnecessary wear in clutch system. Do not operate the clutch pedal rapidly and repeatedly.

Driving tips for normal starting off or starting off on uphill

- Depress the clutch pedal and the brake pedal, start the engine and move the shift lever to the 1st gear (reverse gear in reversing) position.
- If the clutch pedal is released slightly with the brake pedal depressed, the engine rpm increases. (The increase in engine rpm varies depending on the road inclination).



Release the clutch pedal slightly





Increase in engine rpm

- 3 The vehicle starts to move smoothly if you depress the accelerator pedal while releasing the brake pedal after checking that the engine rpm is raising.
- 4 Release the clutch pedal completely after the vehicle starts off.

Notice

- The vehicles equipped with ESP system has HSA (Hill Start Assist) function, which keeps the brake pressure for a certain period of time to prevent the vehicle from slipping on a steep uphill when starting the engine so that you can move your vehicle more safely. HSA system is automatically deactivated after operating for approx. 3 seconds, or the vehicle starts moving with accelerator pedal depressed.
- HSA function does not work when you start the vehicle parked on an uphill in reverse gear, or when you start the vehicle parked on downhill in drive gear.

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Caution

 Because the HSA operation on the brake is automatically cancelled after approx.
 3 seconds, you have to release the brake pedal intentionally and depress the accelerator pedal so the vehicle does not slip down the hill.

EPB operation when driving uphill

When driving on a steep uphill, it is safer to use EPB as follows:

Apply EPB and then follow the steps (Vehicle with M/T: steps 1 - 3) EPB will automatically release when the accelerator pedal is pressed while the driver's door, hood and trunk are closed and the seat belt is fastened.



Caution

- To start the engine in manual transmission equipped vehicle, you must fully depress the clutch pedal.
- You should stop your vehicle and fully depress the clutch pedal before you shift into the reverse position.
- If the clutch pedal is frequently halfdepressed, the clutch disc will be easily worn out. Use only as needed.
- Do not put your foot on the clutch pedal if not shifting gears.
- When shifting from a higher gear into a lower gear, ensure that the RPM gauge pointer does not go into the red zone on the gauge. Especially, when shifting from the 5th to the 4th gear, moving the gear shift lever to the left too much may result in shifting into the 2nd gear. This will cause a sudden increase of the engine speed and may damage the engine and the transmission.

- When the temperature of the transmission oil is very low on a cold day, you may have some difficulty for shifting gears. This is a normal phenomenon.
- When you have difficulty for shifting into the 1st or reserve gear, p ut t he g ear s hift I ever i nto t he n eural p osition and release the clutch pedal. Then, depress the pedal again and shift into the intended gear.
- While your vehicle is moving, do not put your hand on the shift lever except to shift gears. Otherwise, the gear may be disengaged from the transmission and the internal transmission components may be damaged.
- Do not shift into the second next higher gear from a lower gear. Also, while the engine is rotating fast, do not shift into a lower gear.
- When using the half clutch mode, there is no need to abruptly depress the accelerator pedal because the engine power increases.
 When the accelerator pedal is continuously depressed in half clutch mode, the internal components can be worn or damaged.
 Frequent use of half clutch mode is not recommended.

Automatic Transmission Selector Lever* (Type A)



- Electronic shift lever
- P (park) button
- 3 Lever position (gear) indicator
- 4 UNLOCK button

A

Warning

- When changing the selector lever position, check the current position (indicator) of the selector lever on the gear position display and on the electronic shift lever display in the instrument cluster.
- When operating the electronic shift lever, be sure to press the UNLOCK button while depressing the brake pedal and operate the lever.

Transmission selector lever position

- P: Parking
- · R: Reverse
- N: Neutral
- D: Drive (automatic shift)
- M: Drive (manual shift)

When changing the selector lever position, you can check the current position of the selector lever on the gear position display and on the electronic shift lever display in the instrument cluster.

Notice

- In D position, gear changed automatically according to driving conditions
- In M position, manually gear changed according to driving conditions



Paddle shift (-/+)

- When the electronic shift lever is in D (drive) position, you can use the paddle shift in the steering wheel to upshift or downshift in an emergency. In this case, the gear position is changed automatically according to the vehicle condition after a certain period of time.
- If you move the electronic shift lever to the M (manual) position, "Manual gear control lever" side, you can use the paddle shift to change the gear position as with the manual transmission.
 - Refer to "How to shift gear position manually" (p.4-131)

Manual gear control lever

When the electronic shift lever is moved from D (drive) position to M (manual) position, you can use the paddle shift in the steering wheel to change the gear position.

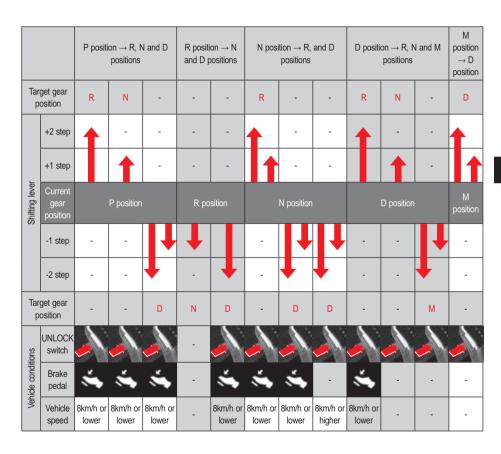
How to move shift lever to target gear position



The electronic shift lever can be moved at + 2 step and - 2 step, after which it is always aligned to the central position.

Notice

 When moving to the P (park) position, press the P (park) button with the brake pedal depressed at each position.



Functions for each shift position

The automatic transmission automatically shifts from 1st to 8th gear depending on the position of the electronic shift lever and the driver's will (accelerator and brake pedal).

In addition, you can check the electronic shift lever position on the instrument cluster and on the electronic shift lever display.

P (park) position



Select this position to park, start the engine, warm-up, and stop the vehicle for a long time.

- Be sure to depress the brake pedal and press the P (park) button when moving to P (park) position from a position other than P (park).
- If the ignition switch is turned off in a position other than P (park), the shift lever automatically moves to the P (park) position.



Warning

- When moving from the P (park) position to another position, make sure that the ignition switch is turned on and the brake pedal is depressed. Do not apply excessive force to the electronic shift lever with the electronic shift lever in the P (park) position. This may lead to damage to the lever and transmission.
- Never move the shift lever to the P (park) position while driving. There is a risk of mechanical damage and accidents. Move the shift lever to the P (park) position after the vehicle has come to a complete stop.
- Do not attempt to place the shift lever in the P position instead of applying the parking brake. Always apply the parking brake when your vehicle is parked or stopped.

R (reverse) position



Use this position to reverse the vehicle.

When moving to the R (reverse) position, apply the brake pedal and operate the shift lever while pressing the UNLOCK button after the vehicle has come to a complete stop.

The parking aid system operates when the electronic shift lever is placed in the R (reverse) position.



Warning

- Do not shift into R position when the vehicle is moving forward. This may cause a shift shock and damage the transmission.
- If the electronic shift lever is placed in the R (reverse) position, the vehicle moves backward slowly without depressing the accelerator pedal, so drive carefully while pressing the brake pedal.

N (neutral) position



This is the neutral position where no power is transmitted.

At this position, the engine does not transfer power to the wheels and the vehicle will not move on level ground. However, be sure to depress the brake pedal for safety when stopping the vehicle with the electronic shift lever in the N (neutral) position.

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Warning

- Do not apply excessive force to the electronic shift lever with the electronic shift lever in the N (neutral) position.
 This may lead to damage to the lever and transmission.
- Do not move the electronic shift lever from D (drive) to N (neutral) or N (neutral) to D (drive) when the vehicle is moving.
- Be sure to depress the brake pedal when stopping the vehicle on a slope with the electronic shift lever in the N (neutral) position.
- Never move the shift lever to the N (neutral) position while driving. This may cause the engine brake to not operate properly and cause an accident.

D (drive) position



Select this position for driving on public roads and highways.

Depending on the vehicle speed and the extent to which the accelerator pedal is depressed, the transmission is automatically shifted from 1st to 8th.



Warning

- · If the electronic shift lever is placed in the D (drive) position, the vehicle moves forward slowly without depressing the accelerator pedal, so drive carefully.
- . Do not move the shift lever to the D (drive) position until the vehicle has come to a complete stop. The transmission damage may occur.
- · Do not abruptly drive off or sharply accelerate the vehicle after moving the electronic shift lever into D (drive) position. In particular, when leaving after parking or stopping on a slope, move the shift lever to the D (drive) position with the brake pedal pressed, then wait for a few seconds for power to be transmitted inside the transmission before starting off slowly.
- · Even though the electronic shift lever is in D (drive) position, the vehicle can move down on a uphill even according to gradients, so you have to depress the brake pedal.

M (manual) position



This is the position where the driver can shift the gear manually.

With the electronic shift lever in the D (drive) position, you can press the UNLOCK switch and pull in the -1 step or -2 step direction to manually shift the gear position from 1st to 8th, as if it were a manual transmission.



Warning

· Take care not to inadvertently move the electronic shift lever to the M (manual) position while driving. Since the gear position to be shifted is adjusted, this will cause unstable driving situations and can end with an unexpected accident. Especially, be careful when driving in winter.



Caution

· The upshift should be done at an appropriate time to suit the road and driving conditions at that point. Never allow engine revs be in the red range of the tachometer.

Gear selector lever in automatic transmission (Type B)*





- Gear position
- 2 Mode switch
- 3 Selection of manual/Automatic shift function
- P, N position unlock button
- Manual gear shift lever

Gear position

- P: Parking
- R: Reverse
- N: Neutral
- D: Driving

Mode switch

Type A

- · W: Winter mode
- · S: Standard mode

Use the standard mode in normal driving conditions.

Type B

- F : Eco mode
- P : Power mode
- W: Winter mode

Use the Eco mode in normal driving conditions.

Selection of manual/automatic shift function

- D: Automatic shift according to the driving condition
- M: Manual shift

P, N position unlock button

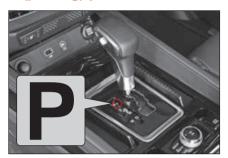
When the gear shift lever is locked in the P (parking) or the N (neutral) position, move the gear shift lever with the Unlock button pressed with the emergency key.

At this time, turn off the engine and move the gear shift lever with the brake pedal depressed.

Manual gear shift lever

You can shift the gear by pushing or pulling the manual gear shift lever after moving the gear shift lever from the D (driving) position to the M (manual) position.

P (parking) position



Select this position for parking the vehicle, starting or warming up the engine, or stopping the vehicle for a long period of time.



Warning

- Be sure to move the gear shift lever from the P (parking) position to another position while depressing the brake pedal with the START/ STOP switch in the ON status. Do not apply excessive force to the gear shift lever when it is fixed to the P (parking) position. Doing to may damage the lever and the transmission.
- Never move the gear shift lever to the P (parking) position while driving. Doing so may cause mechanical damage and an accident. Be sure to move the gear shift lever to the P (parking) position after stopping the vehicle completely.
- Do not use the P (parking) position instead of the parking brake. Apply the parking brake while parking or stopping.

R (reverse) position



Select this position for reversing the vehicle.

Be sure to move the gear shift lever from the P (parking) or N (neutral) to the R (reverse) position with the brake pedal depressed after stopping the vehicle completely.

When you place the gear shift lever in the R (reverse) position, the PAS is activated.



Warning

- Do not place the gear shift lever in the R position while the vehicle is moving forward. Doing so may cause a transmission shock and damage the transmission.
- If the gear shift lever is placed in the R (reverse) position, the vehicle moves back slowly even if the accelerator pedal is not depressed. Drive carefully by depressing the brake pedal.

N (neutral) position



In this position, no power is transferred.

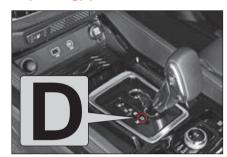
Since the engine power is not transferred to the wheels in the N (neutral) position, so the vehicle does not move on a flat road. However, if you stop the vehicle with the gear shift lever placed in the N (neutral) position, be sure to depress the brake pedal for safety.

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Warning

- Do not apply excessive force to the gear shift lever when it is fixed to the N (neutral) position. Doing to may damage the lever and the transmission.
- Do not move the gear shift lever from the D (driving) position to the N (neutral) position or from the N (neutral) position to the D (driving) position while the vehicle is moving.
- To stop the vehicle with the gear shift lever in the N (neutral) position on a sloping road, be sure to depress the brake pedal.
- Never place the gear shift lever in the N (neutral) position while driving. Doing so may cause the engine brake not to operate, resulting in an accident.

D (driving) position



Select this position for driving on a normal road or an expressway.

The gear (1st ~ 7th) is shifted automatically according to the vehicle speed and the depression degree of the accelerator pedal.



Warning

- When the gear shift lever is placed in the D (driving) position, the vehicle moves forward slowly even if the accelerator pedal is not depressed, so drive the vehicle carefully.
- Move the gear shift lever to the D (driving) position after the vehicle has stopped completely. Failure to do so may damage the transmission.
- You can move the gear shift lever from the N (neutral) position to the D (driving) position without depressing the brake pedal. However, move the gear shift lever with the brake pedal depressed for safety.
- Do not drive or accelerate the vehicle suddenly after moving the gear shift lever to the D (driving) position. In particular, when you drive the vehicle after stopping or parking the vehicle on a sloping road, move the gear shift lever to the D (driving) position with the brake pedal depressed, wait for a couple of seconds until the power is transferred in the transmission and drive the vehicle slowly.
- Even if the gear shift lever is placed in the D (driving) position, the vehicle may roll down on a sloping road, so be sure to depress the brake pedal.

M (manual) position



You can shift the gear manually (1st~7th) just as a manual transmission by moving the gear shift lever from the D (driving) position to the M (manual) position.

Marning

 Be careful not to move the gear shift lever to the M (manual) position carelessly while driving. Failure to do so shifts the gear, making the driving status of the vehicle unstable and resulting in an accident. Pay particular attention when driving during winter.



Caution

 Upshifting should be carried out properly in accordance with the road and driving conditions. Be careful not for the engine RPM to fall within the red zone in the tachometer.

Shifting



You can shift the gear by pushing or pulling the manual gear shift lever from the M (manual) position.

Notice

- When you move the gear shift lever to the M (manual) position while stopping, you can downshift the gear, and you can start driving the vehicle at the 2nd gear position on a snowy road or a wet road. (WINTER mode function)
- Sometimes, the gear cannot be shifted when you operate + (upshift) according to the vehicle speed for securing the driving performance. Also, the gear may not be shifted for preventing excessive engine RPM even if you downshift according to the vehicle speed.

How to shift gear position manually



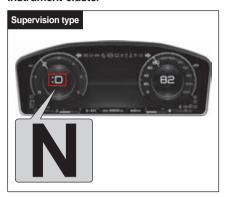


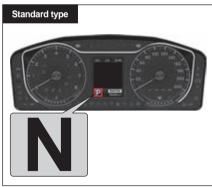
- You can shift gear by pulling the paddle shifts fitted to the rear left and right sides of the steering wheel with the electronic shift lever in the M (manual) position.
 - Left (-): Downshift
 - Right(+): Upshift

Notice

- You can move the electronic shift lever to the M (manual) position for downshift and 2nd gear start on snowy or rainy road, with the vehicle stationary. (WINTER mode function)
- To secure driving performance, upshift (+)
 may not work depending on the vehicle
 speed. In addition, to prevent excessive
 engine rotation, downshift (-) may not work
 depending on the vehicle speed.
- You can adjust the gear position by using the paddle shift switch while the electronic shift lever is in D (drive) position but the gear position is changed automatically according to the vehicle condition after a certain period of time.

Display of gear shift lever position on the instrument cluster





A

Warning

 Do not downshift (3rd, 2nd, 1st) suddenly while driving the vehicle at a high speed.
 Doing so may damage the vehicle significantly. The vehicle also may slip, resulting in an accident. (especially when driving on a slippery road)



Caution

- Operate the manual gear shift lever once at a time. If you press and hold down the lever, the gear may be shifted to a number of gear positions consecutively.
- Caution should be taken that if you depress the accelerator pedal fully while driving at the 1st, 2nd, 3rd, 4th, 5th, 6th or 7th gear position, the gear may be shifted to a higher gear position.
- If you downshift excessively by operating the manual gear shift lever, the gear may not be shifted for protecting the vehicle system.
- Do not speed up forcibly with the gear shift lever in a lower gear position. Doing so may damage the automatic transmission.

Using the engine brake

To use the engine brake, downshift the gear by one gear position at a time using the manual gear shift lever from the M (manual) position.



Warning

 Avoid using the engine brake suddenly.
 Doing so may lead to unstable driving. In particular, avoid using the engine brake suddenly while driving on a snowy road or an icy road.



Caution

- Operate the manual gear shift lever once at a time. If you press and hold down the lever, the gear may be shifted to a number of gear positions consecutively.
- When using the engine brake, the gear may be shifted differently depending on the driving condition of the vehicle and you may feel a strong shifting shock.

If the gear shift lever cannot be moved from the P (parking) position to another position - GSL only



If the gear shift lever cannot be moved from the P (parking) to another position even if the START/ STOP switch is in the ON status and the brake pedal is depressed, move the gear shift lever manually as follows.

- 1 Turn off the engine and apply the parking brake.
- 2 Depress the brake pedal, press the Unlock button using the emergency key and move the gear shift lever to the N (neutral) position.
- 3 In the N (neutral) position, depress the brake pedal and start the engine.
- 4 Move the gear shift lever to the D (driving) position.
- 5 Release the parking brake, take your foot off the brake pedal and drive the vehicle.



Caution

 If the gear shift lever cannot be moved from the P (parking) position to another position, be sure to have your vehicle serviced at a KG Mobility authorized service center.

Driving a vehicle equipped with automatic transmission

Place the gear shift lever in the P (parking) position and start the engine with the brake pedal depressed.

- 1 Ensure that the engine RPM is in normal range and place the gear shift lever in the D (driving) or the R (reverse) position with the brake pedal depressed.
- 2 Release the parking brake, take your foot off the brake pedal and drive the vehicle slowly.

⚠ W

Warning

- Do not depress the accelerator pedal when starting the engine. Doing so may make the vehicle move suddenly, causing an accident.
- The engine can also be started after the gear shift lever is placed in the N (neutral) position. However, start the engine after placing it in the P (parking) position for safety.
- Do not drive or accelerate the vehicle suddenly after moving the gear shift lever from the P (parking) position to the D (driving) or the R (reverse) position. In particular, when you drive the vehicle after stopping on a hillside road, move the gear shift lever to the D (driving) or R (reverse) position with the brake pedal depressed, wait a number of seconds until the power is transfered in the transmission and drive the vehicle slowly.

- Caution should be taken that the vehicle may roll down when it is parked on a sloping road even if the gear shift lever is placed in the D (driving) or the R (reverse) position.
- When moving the gear shift lever while stopping the vehicle, be sure to depress the brake pedal for safety.
- Never depress the accelerator pedal when moving the gear shift lever.
- Be sure to apply the parking brake and depress the brake pedal when stopping on a sloping road.
- On a steep uphill road or downhill road, the vehicle may move in the opposite direction of its moving direction even if the creep phenomenon occurs. Be sure to depress the brake pedal when stopping on an uphill road or a downhill road.
- Do not move the gear shift lever to the N (neutral) position while driving. Doing so may cause the engine brake to not be applied, resulting in an accident. The devices inside the transmission also may not be lubricated smoothly, damaging the transmission.

Notice

- Take your foot off the brake pedal and drive the vehicle slowly by depressing the accelerator pedal after checking that the vehicle moves slowly (creep phenomenon).
- Moving the gear shift lever with the force applied to the driving system of the vehicle due to a slope such as parking or stopping on a hillside road may cause a shock and a noise. This is a mechanical phenomenon that occurs in the P position of the automatic transmission and it is not a system failure.
- In order to maintain the engine in its optimal status, the engine control unit learns and memorizes the inspection characteristics of the injector in accordance with various factors of the engine. Slight vibrations and noises may occur within a short period of time when idling in such a process. This is normal operation of the engine system. Do not misunderstand it as a failure.

What is the creep phenomenon?

The creep phenomenon is the phenomenon that the vehicle moves slowly without the accelerator pedal depressed if the gear shift lever is placed in the D (driving) or the R (reverse) position while the engine is running.

You can move the vehicle or adjust the speed by simply operating the brake pedal in heavy traffic or when driving the vehicle slowly in a narrow area.

What is automatic shift point?

The automatic shift point of the automatic transmission may vary depending on various driving elements including the road condition (flat ground, hillside road), position of gear shift lever, vehicle speed and depression degree of accelerator pedal. This is a normal operation for securing smooth and stable shifting, proper economy and vehicle performance.

Using the engine brake

When driving a long downhill road, use the engine brake and the foot brake at the same time. When you downshift according to the driving condition, the engine brake will operate.

What is the engine brake?

The engine brake is the decelerating force that occurs due to the deceleration of the engine when you take your foot off from the accelerator pedal while driving. Down shifting while driving a downhill road can receive the braking effect without using the foot brake frequently due to the decelerating force that occurs in the engine. The lower the gear, the higher the engine brake effect.



Warning

- Do not use the foot brake excessively on a downhill road. Doing so may cause the fade or vapor lock phenomenon due to overheating of the brake system, lowering the braking performance.
- The engine brake does not operate when the gear shift lever is placed in the N (neutral) position.
- Do not apply the engine brake suddenly.
 Doing so may cause the tires to slip, resulting in an accident.

Using the kick down function

You can use the kick down function by depressing the accelerator pedal to the end when you need instantaneous accelerating force for passing a vehicle.

What is the kick down function?

The kick down function downshifts the gear by one or two lower gear positions when the accelerator pedal is depressed to the end while driving. It can be used when instantaneous accelerating force is necessary.



Warning

- Do not use the kick down function on a slippery road or a sharply curved road. If the tires slip, an unexpected accident may occur.
- Using the kick down function excessively may adversely affect the durability and fuel economy of the vehicle.

Safety mode of the automatic transmission

When an electrical or mechanical defect occurs in the automatic transmission, the automatic transmission enters the safety mode in order to prevent the transmission from being damaged while maintaining the minimum driving status.

When the automatic transmission enters the safety mode, any of the following symptoms may occur.

- A significant shock occurs when moving the gear shift lever.
- The driving force is reduced while driving the vehicle at a high speed.
- When the gear shift lever is fixed to the driving position (D, R) and the vehicle speed does not increase even if the accelerator pedal is depressed (the speed is fixed to the medium speed).



Caution

 If the safety mode symptom appears due to an electrical or a mechanical defect of the automatic transmission, do not drive the vehicle and have your vehicle checked and serviced at a nearby KG Mobility authorized service center.

Resetting the safety mode when the gear shift lever is fixed to a position

Resetting the safety mode

- 1 Stop the vehicle and -place the gear shift lever in the P (parking) position.
- 2 Turn off the engine and wait for 10 seconds or longer.
- 3 Start the engine.

After resetting the safety mode, you can drive the vehicle normally.

If the fixed gear shift lever phenomenon appears after resetting the safety mode

The following fixed gear shift lever symptom appear after resetting the safety mode.

- The gear shift lever is fixed to the D (driving) position
- The gear shift lever is fixed to the R (reverse) position

In such case, have your vehicle checked and serviced at a nearby KG Mobility authorized service center.



Caution

 If the safety mode symptom persists after resetting the safety mode, do not drive the vehicle forcibly and have your vehicle checked and serviced at a KG Mobility authorized service center immediately.

Cautions for using a vehicle equipped with automatic transmission



Warning

- Never move the gear shift lever to the P (parking) or the N (neutral) position while driving. Doing so may cause mechanical damage and an accident.
- Starting the vehicle is available when the gear shift lever is placed in the P (parking) or the N (neutral) position. Start the engine with the gear shift lever in the P (parking) position for safety.
- Do not down shift suddenly while driving the vehicle at a high speed. Doing so may damage the vehicle significantly. Doing so also may lead to unstable driving and result in an accident.



Caution

- Do not place the gear shift lever in the R position while the vehicle is moving forward. Doing so may cause a transmission shock and damage the transmission.
- Do not place the gear shift lever in the N (neutral) position when driving on a downhill road or an uphill road. Placing the gear shift lever back in the D (driving) position for driving after placing it in the N (neutral) position may damage the driving system due to a transmission shock.
- The P lock (P position → R position)
 and the R lock (N position → R position)
 functions that allow the operation of the
 gear shift lever only when the brake pedal
 is depressed for safe driving.
- When you unlock the gear shift with the brake pedal depressed by the P lock and the R lock functions, there may be a normal operating sound of locking and unlocking the gear shift lever.
- When you move the gear shift lever related to the R lock function from the D (driving) position to the P (parking) position rapidly, there may be intermittent trapping in the N (neutral) position. This is a normal phenomenon for safety and the protection of the transmission. However, avoid sudden operation if possible.

4WD System*

The 4WD system is the system that distributes the power to four wheels properly by distributing the power transferred to the rear wheels through the transfercase to the front wheels.

Using the 4WD system on a slippery road such as a snowy road or a wet road allows you to maintain more stable driving status in comparison to the 2WD (2-Wheel Drive) mode. You can switch the driving mode to 4WD LOW for maximum traction power.

What is the part time transfer case?

The part time transfercase is the system that switches the driving mode to the 4WD HIGH (4H) mode or the 4WD LOW (4L) mode through the switch operation when necessary while the vehicle is driven in 2WD mode normally.

The system is equipped with the control unit for switching the mode, and in the 4WD mode, the system splits the driving force between the front wheels (50%) and the rear wheels (50%).

Switching to 4WD

Select a proper driving mode by turning the 4WD switch dial according to the road condition (slipperiness, degree of slope, bumps).



- 1 2WD (2H) mode
- 2 4WD HIGH (4H) mode
- 3 4WD LOW (4L) mode

Switching between 2H ⇔ 4H mode

Set the mode to 2H or 4H by turning the 4WD selection dial when the vehicle speed is 70 km/h or less.

Switching between 2H and 4H ⇔ 4L mode

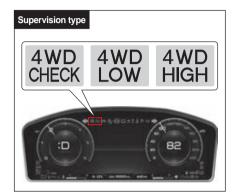
Stop the vehicle on a flat ground, place the gear shift lever in the N (neutral) position and set the desired driving mode by turning the 4WD selection dial.

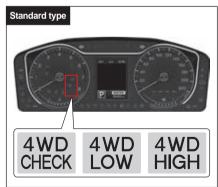


Caution

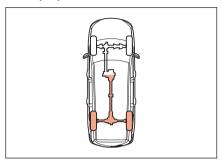
 When you switch the mode to the 4WD (4L or 4H) mode, be sure to drive the vehicle after the 4WD indicator turns on. Driving the vehicle before the indicator turns on may cause abnormal wear or burning of the driving gear.

Vehicle driving modes & indicators





2WD (2H) mode

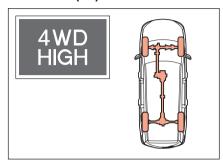


The 2WD (2H) mode is the status for 2WD high speed driving. Use this mode for normal or a high speed driving on a normal road or an expressway.

Notice

 The indicator does not turn on in the 2WD (2H) mode.

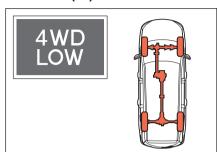
4WD HIGH (4H) mode



Use the 4WD HIGH (4H) mode for driving on a muddy road, a sandy road or a snowy road.

- When you switch the driving mode from the 2WD (2H) to 4WD HIGH (4H), the 4WD HIGH indicator turns on.
- When you switch the driving mode from the 4WD LOW (4L) to the 4WD HIGH (4H), the 4WD HIGH indicator blinks, and when it is switched completely, the 4WD HIGH indicator turns on.

4WD LOW (4L) mode



Use the 4WD LOW (4H) mode when the maximum traction power is necessary.

- When you switch the driving mode to the 4WD LOW (4L) mode, the 4WD LOW indicator blinks, and when it is switched completely, the 4WD LOW indicator turns on.
- When the 4WD LOW indicator blinks temporarily, it indicates that the driving mode is being shifted to the 4WD LOW (4L) mode.



Caution

 In the 4WD LOW (4L) mode, avoid using the M (manual) 5th gear position or higher for to reduce damage to the driving system.

What is tight cornering?

Cornering in the 4WD (4L or 4H) mode may make the vehicle to shake or cause skidding or a shock in the driving system.

It is caused by the resistance of the internal power system according to the difference of revolving speed between the front wheels and the rear wheels and it indicates that the 4WD is operating normally.

Avoid rapid cornering in the 4WD mode since it may damage the power system.

4WD CHECK warning indicator



The 4WD CHECK warning indicator turns on if the 4WD switch unit is abnormal.



Caution

 If the 4WD CHECK warning indicator turns on, have your vehicle checked and serviced at a KG Mobility authorized service center.

Cautions for using the 4WD system



Caution

- Be sure to operate the 4WD switch dial for using the 4WD mode after starting the engine. However, the cancellation of 4WD in a vehicle (4WD status) whose engine cannot be started is also available when the START/STOP switch is in the ON status.
- When you operate the 4WD switch dial, mechanical noises and switching shocks may occur in the switching process. This is a normal phenomenon that occurs according to the mode change.
- Drive the vehicle on a normal road in 2WD mode, not 4WD mode. Driving the vehicle in 4WD mode on a normal road where the road surface is not slippery may damage the driving system.
- Driving the vehicle in 4WD mode on a normal road may cause unnecessary noises and tire wear and increase fuel consumption.
- Switch the driving mode to the 4WD LOW mode or from the 4WD LOW mode to another mode with the brake pedal depressed after stopping the vehicle completely.

- Avoid tight cornering in the 4WD mode since it may damage the power system.
- If the mode cannot be changed to the 4WD mode or the 4WD indicator, move the vehicle slightly, stop the vehicle and change the mode again with the gear shift lever in the N (neutral) position. This occurs when the gears do not interlock temporarily.
- If the 4WD CHECK warning indicator turns on, the 4WD function cannot be used.
 Have your vehicle checked and serviced at a KG Mobility authorized service center immediately.
- The vehicle equipped with the 4WD system should be towed by a flat-bed truck.
- Refer to "When you need to have your vehicle towed" (p.5-22)





Dolly

- If the 4WD mode is used, the vehicle performance is significantly affected according to the tire status.
 - Check the degree of tire wear and tire pressure periodically.
 - Be sure to use the same size and type tires from the same manufacturer on all wheels in a 4WD vehicle in order to prevent the damage to the driving system.. When you replace the tires and wheels, replace all wheels in the same way together.

*LD (Locking Differential)

If a wheel is slipping or in the air, the locking differential improves the driving force of the vehicle by transferring most of the driving force to the wheel on the opposite side.

It is activated only when the difference in speed between the two wheels on the same axle increases rapidly. In other cases, the system performs the same function of a vehicle without LD.

Features

- · Anti-slip for snowy conditions
- · Better steering control on a slippery road surface
- Improved driving force (traction, gradability)
- · Keeps driving safety in the event of crosswinds when turning



Caution

- · If one wheel on an axle is spinning faster than the other, avoid keeping the wheels spinning at high speed. The locking differential may fail.
- · Rapid acceleration when driving out of the rough roads may cause the vehicle to sway.
- · Wheel drag may occur temporarily at initial turning after parking the vehicle outdoor in extreme cold weather.
- . The LD is activated when there is a difference in speed between the two wheels on the same axle.



Warning

· For vehicles with LD, rotating the wheel which has been jacked up off the ground is prohibited. Activation of the LD transfers the driving force to the other wheel on the axle and the vehicle may move suddenly resulting in serious injury or death.

Drive Mode

Pressing the drive mode switch in normal driving condition will change the mode as follows:

• NORMAL \rightarrow SPORT \rightarrow WINTER \rightarrow NORMAI

WINTER mode is a function to minimize slippage when starting off on the slippery road surface in winter.

Drive mode switch





Drive mode is a system where the electronic steering handle Electronic power steering (EPS) and the automatic transmission shift pattern are interlinked, and the feeling of operating the vehicle may vary slightly depending on the drive mode which the driver selects.

ISG (Idle Stop & Go) System*

The ISG (Idle Stop & Go) system stops the engine when the vehicle is stationary and restarts the engine when driving resumes to improve fuel economy and reduce exhaust emissions.



- ISG ON indicator
- 2 ISG OFF switch



 Some warning lamps may light up momentarily when the engine is started by the ISG system. This is a normal phenomenon due to momentary current consumption.

Engine automatic shutdown

If the vehicle speed is 0 km/h (stationary) and the brake pedal is depressed while the ISG system is operating, the engine will automatically stop and the ISG green indicator (1) will illuminate on the instrument cluster.

At this time, cumulative engine-stop time (2) is displayed.



Notice

 The automatic shutdown of the engine by ISG system is maintained for up to 3minutes, and the engine restarts automatically after 3 minutes.

Automatic Engine Restart

When the engine is automatically stopped, releasing the brake pedal automatically restarts the engine. At this time, the green ISG indicator (1) lights up on the instrument panel and a restart message (2) is displayed.



Notice

Engine restarts automatically when:

- Releasing brake pedal (AUTO HOLD disabled for vehicles with EPB) (restart after the indicator color changes green → white)
- Moving shift lever to R or +/- (for manual) position while depressing brake pedal
- Depressing accelerator pedal while depressing brake pedal

ISG system OFF

- 1 When you press the ISG OFF switch (1) to stop the ISG system, the ISG OFF indicator (2) lights up.
- 2 Pressing the ISG OFF switch again resumes normal operation of the ISG system and turns off the ISG OFF indicator on the instrument cluster.





Conditions for ISG system activation

- · Driver's seat belt fastened
- · Driver's door closed
- · Engine hood closed
- Amount of accelerator pedal depression 10% or less
- Idling speed of 1,350 rpm or less
- Coolant temperature between 15°C and 105°C
- · Appropriate level of brake negative pressure
- Battery sensor active and meets ISG condition
- Steering wheel 180° or less when stationary
- · No certain signal to heater controller
- · Gentle road slope
- Battery temperature between -5°C and 60°C
- Ambient temperature -2°C or higher
- Vehicle stops after moving at least 1 m (GSL only)
- Vehicle stops after reaching vehicle speed over 13 km/h
- · No faulty ISG system-related parts
- Shift lever in D (drive) or N (neutral) position

Forced restart conditions

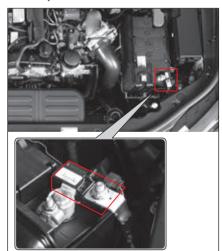
- · Press ISG OFF switch to stop ISG system
- Engine coolant temperature higher than 110°C
- Heater and A/C Controller operating at maximum level(set Temperature 'Hi' or 'Lo')
 - Auto Controller: Set temperature 'Hi' or 'Lo' and Fan speed more than 6 level
 - Manual Controller: Set temperature Lowest or Highest and Fan speed more than 5 level
- · Defroster in operation
- A/C in operation
- Changed indoor/outdoor temperature rapidly (based on temp. sensor)
- · Poor battery charge level
- · Vehicle speed over 2 km/h
- Engine automatic shutdown maximum time (3 min) elapsed
- Faulty components of ISG system and start system
- Release brake pedal and depress accelerator pedal slightly during AUTO HOLD execution
- Driver seat belt unfastened or driver's door open
- Steering wheel angle 180° or greater
- EPB in operation

Battery sensor (BSC)

The batter sensor (BSC) is fitted to the battery negative (-) terminal and monitors the battery information (such as voltage, current, temperature and charge status) and communicates with the EMS to operate the ISG (Idle Stop & Go) system.

When you disconnect the battery sensor connector to repair the vehicle or remove and refit the battery negative (-) terminal, the battery sensor will be deactivated and ISG system may have limited functionality.

If the battery sensor is deactivated, refer to the activation conditions to activate it prior to using the ISG system.



Conditions for activating battery sensor (BSC)

While the electrical equipment in the same condition as factory shipment is connected after re-installing the battery with the ignition switch off, if the vehicle monitors the battery voltage for more than about 3 hours and judges it to be stabilized, the battery sensor will be activated.



Caution

· If the ISG system does not work after the battery sensor activation conditions are met, have the system checked and serviced at the nearest KG Mobility Authorized Service Center.



Warning

· When replacing the battery, always replace with the our genuine ISG system battery (AGM). Otherwise, it may result in serious system failures, battery damage, and explosion due to overcharging, etc.

Cruise control system

The cruise control system is an auxiliary convenience system that allows the driver to drive the vehicle at a set speed without depressing the accelerator pedal with the flow of traffic where more than a legal safe distance is secured.

The cruise control system is not a safe driving system. Be sure to always drive the vehicle while paying attention to the vehicle speed and surrounding situations.

The cruise control system can be activated when the vehicle is driven at a speed of approximately 40 km/h or greater and less than 180 km/h.

Conditions for using the cruise control

Be sure to use the cruise control only under the following traffic and road conditions.

- Use the cruise control when the current traffic condition is light.
- Use it only on a driveway or an expressway where no change in the vehicle driving condition due to traffic lights, vehicles, pedestrians or other factors is expected.
- · Do not use it on a normal road.

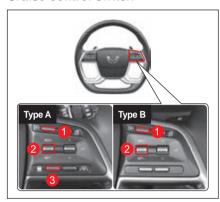


Warning

- Use the cruise control system only on a motorway or an expressway where the road is in good condition.
- Stop using the cruise control system in the following road conditions since control may become impossible, causing an accident.
 - When a strong wind or a side wind blows
 - When there is traffic congestion
 - Slippery road, sloping road or continuously curved road

Cruise control switch and indicator

Cruise control switch



- 1 Cruise control ON/OFF switch
- 2 Speed selector lever

RES+

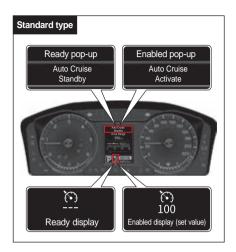
- Reactivating cruise control
- · Increasing speed

SFT-

- · Set driving speed on cruise control
- · Decreasing speed
- 3 Button for setting safe distance

Cruise Control Ready / Enabled Display





Auto cruise READY

The following message is displayed on the instrument panel LCD screen and the system enters auto cruise READY mode when you press the cruise control ON/OFF switch.

- "Auto cruise READY" pop-up displayed
- Symbol and "--- km/h" indicating that system ready to display speed displayed

Auto cruise ENABLED

When the cruise control is in the Ready mode and the speed control lever is lowered, the following message is displayed on the instrument panel LCD screen and the cruise control is enabled.

- "Set Auto Cruise" pop-up displayed
- Symbol and set speed, "100km/h" displayed

The cruise control works when driving at a vehicle speed of about 40 km/h or higher.

Setting the cruise control driving speed

- 1 Press the cruise control ON/OFF switch. The READY indicator on the instrument cluster turns on.
- Adjust the vehicle speed so that the speed range for the cruise control operation is between approximately 40 km/h and 180 km/h.
- 3 Set the desired driving speed by raising or lowering the speed control lever of the cruise control in the RES+ or the SETdirection.

Now, the vehicle is driven at the set speed without depressing the accelerator pedal.



A

Warning

- Activate or deactivate the function after fully familiarizing yourself with the cruise control system. The cruise control operation speed should be set while driving. Operating it improperly or without fully familiarizing yourself with the system may lead to an accident.
- When you activate the cruise control while driving, do not change the gear shift lever to the N (neutral) position. Doing so may damage the relevant system or cause an accident.
- When you drive the vehicle at a fixed speed with the cruise control system activated, be sure to drive safely in order to be able to deal with any situation that can occur on the road and drive the vehicle in a way that you can operate the brake pedal and the accelerator pedal immediately.
- Be sure to always secure safe braking distance, depress the brake pedal if necessary.
- The actual speed for driving up or down a hillside road may be slightly different from the set speed. Avoid using the cruise control system on a hillside road or a sloping road if possible.

Use the engine brake and the foot brake on a steeply sloping road for driving safely and protecting the vehicle system.



Caution

 While you are not using the cruise control, turn off the READY indicator by pressing the cruise control ON/OFF switch.

Notice

- To reset the cruise control operation speed, carry out Step No. 2 and No. 3 again with the cruise control activated.
- Refer to the following contents for the detailed operation for each vehicle operation condition.

Speed acceleration process of the cruise control

When the cruise control system is activated

To increase the set vehicle speed while driving with the cruise control activated, push the speed control lever up in the RES+ direction with the accelerator pedal not depressed.



- Pushing the speed control lever up briefly once increases the speed by 1 km/h.
- Pushing and holding down the speed control lever increases the set speed of the vehicle continuously.

When the cruise control system is not activated

The following steps describe how to activate the cruise control system when it is not activated and raise the set vehicle speed.

- 1 Press the cruise control ON/OFF switch. The READY indicator on the instrument cluster turns on.
- Depress the accelerator pedal until the vehicle speed becomes approximately 40km/h or higher in order to activate the cruise control.
- 3 When the desired set speed is reached, adjust the speed by pressing the speed control lever in the RES+ or the SETdirection.
 - Pushing and holding down the speed control lever up in the SET+ direction increases the set vehicle speed slowly.
- 4 After setting the speed, take your foot off from the accelerator pedal slowly.

Increasing the set speed by phases with the cruise control activated

To increase the speed cruise control slightly by phases with the cruise control activated, carry out the following steps.

- Push the speed control lever up briefly in the RES+ direction (within 0.5 second). The set vehicle speed increases by approximately 1 km/h each time you push the speed control lever up.
- For example, if you wish to increase the set vehicle speed by approximately 10 km/h, push the speed control lever up briefly in the RES+ direction 10 times.

Speed deceleration of the cruise control

When the cruise control system is activated

To decrease the set vehicle speed with the cruise control activated, push the speed control lever down in the SET- direction with the brake pedal not depressed.



- The set vehicle speed decreases by 1 km/h each time you push the speed control lever down briefly.
- Pushing and holding the speed control lever down continuously decreases the set vehicle speed continuously.
 - However, when the vehicle speed becomes approximately 40 km/h or less, the cruise control function is deactivated.

Decreasing the set speed by phases with the cruise control activated

To decrease the speed cruise control slightly by phases with the cruise control activated, carry out the following steps.

- Push the speed control lever down in the SET- direction briefly (within 0.5 second). The set vehicle speed decreases by approximately 1 km/h each time you push the speed control lever down.
- For example, if you wish to decrease the set vehicle speed by approximately 10 km/h, push the speed control lever down briefly in the SET- direction 10 times.

Deactivating the cruise control

When the following deactivation signal is detected with the cruise control activated, the cruise control system is deactivated (READY indicator turns on).

Deactivation condition

- When the brake pedal is depressed for braking
- When the cruise control ON/OFF switch is operated once (cancel the operation when the switch is operated twice)
- When the gear shift lever is shifted to the N (neutral) position while driving

Other deactivation conditions according to the vehicle condition

- When the Electronic stability control system (ESP) is activated
- When the decelerated speed of the vehicle is approximately 40km/h or less
- When the parking brake is depressed while driving
- Clutch pedal is depressed to shift (M/T only).

- The speed increases or decreases drastically (GSL only).
 - when driving at more than 20 km/h above the set speed
 - when driving at less than 20 km/h below the set speed
 - when driving at 140 km/h or more for 4 minutes or longer
- · When the cruise control switch is abnormal
- When an abnormal signal from the brake system is detected
- When the engine RPM is approximately 4,400 rpm or higher

If normal conditions for the deactivation of cruise control are not met or an intermittent malfunctions occur, turn off the engine, wait for a little bit and start the engine again. The system is resets so that you can activate the system normally.

Resuming the cruise control

When the cruise control is deactivated due to the cruise control operation stop signal (READY indicator turns on), the cruise control can be resumed.

Push the speed control lever up in the RES+ button with the vehicle speed of approximately 40 km/h or higher and the brake pedal and the accelerator pedal not depressed.



- The last set speed memorized before the cruise control was deactivated is resumed.
- The AUTO CRUISE indicator on the instrument cluster turns on.

Intelligent / Adaptive Cruise Control*

Intelligent cruise control system

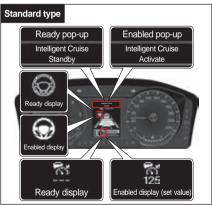
This system keeps the vehicle speed constant even if the driver does not depress the accelerator pedal and brake pedal. When a preceding vehicle is detected, it keeps the distance to the preceding vehicle constant at the preset distance. It allows the vehicle to travel in the middle of the lane via steering wheel (steering force) control.

Adaptive cruise control system

This is a convenient device to keep the vehicle speed constant even if the driver does not depress the accelerator pedal and brake pedal. When a preceding vehicle is detected, it keeps the distance to the preceding vehicle constant at the preset distance.

Intelligent Cruise Control Ready / Enabled Display





Intelligent Cruise Control Ready

During the intelligent cruise control (IACC) operation, when the standby conditions such as the brake pedal are satisfied, the following messages are displayed on the LCD of the instrument cluster and the intelligent cruise control enters standby mode.

- "Intelligent cruise READY" pop-up displayed
- Symbol and "--- km/h" indicating that system ready to display speed displayed

Set intelligent cruise (enabled)

When the intelligent cruise control is in the Ready mode and the speed control lever is lowered, the following message is displayed on the instrument panel LCD screen and the intelligent cruise control is enabled

- "Intelligent cruise set" pop-up displayed
- · Symbol and set speed displayed

The adaptive cruise control works when driving at a vehicle speed of about 10km/h or higher.

Notice

 The description in this section is based on the intelligent cruise control. Steering wheel (steering force) control does not work when the adaptive cruise control system is operating.

To enable intelligent cruise control at instrument cluster



To set intelligent cruise control

- Press the cruise control ON/OFF switch.
 The intelligent cruise control (IACC) is activated.
- 2 Adjust the vehicle speed within the operating speed range of the intelligent cruise control.
 - Set speed (30 km/h ~ 180 km/h)
 - Operating speed (0 km/h ~ 150 km/h)
- 3 Lower the cruise speed selector lever toward SET- to enable the cruise control.
 - "Intelligent cruise control set" message is displayed on the instrument cluster.
 - Then, the vehicle maintains the set speed without depressing the accelerator pedal and keeps driving in the middle of the lane via steering wheel (steering force) control.
 - If a preceding vehicle is detected, the driver's vehicle will travel while maintaining a set distance to the vehicle ahead.





Caution

 The vehicle speed may decrease or increase temporarily on uphill or downhill while the intelligent cruise control is operating.

Increasing speed

To increase the set speed during intelligent cruise control operation, push the speed selector lever up toward RES+ without depressing the accelerator pedal.



- Each time you push up the speed selector lever briefly, the speed increases by 5 km/h.
- If you push up the speed control lever for a long time, the speed increases by 10km/h. The vehicle setting speed increases continuously while the lever is being raised. (The set speed increases by a factor of 10.)
- You can set up to 180 km/h.



· Since if you push up and hold the lever the vehicle speed increases quickly, be careful of the surrounding situation when operating.

Decreasing speed

To decrease the set speed during intelligent cruise control operation, push the speed selector lever down toward SET- without depressing the accelerator pedal.



- Each time you push down the speed selector lever briefly, the speed decreases by 5 km/h.
- If you push down and hold the speed selector lever, the speed decreases by 10 km/h. The set speed decreases continuously while the lever is being lowered. (The set speed decreases by a factor of 10.)
- The lowest settable speed is 30 km/h.

Temporary acceleration (override)

Depress the accelerator pedal to accelerate the vehicle temporarily while intelligent cruise control is in operation.

Temporary acceleration is possible by driver's will without affecting the set speed.

In order to return the set speed, release the accelerator pedal. The vehicle will travel at the set speed.



Caution

· If you depress the accelerator pedal for more than about 60 seconds for temporary acceleration, the intelligent cruise control system will stop operating.

Deactivating

If the deactivation signals below are detected while intelligent cruise control (IACC) is operating, the intelligent cruise control (IACC) will be deactivated. (It enters standby mode)

Disable conditions

- · Brake pedal depressed for braking
- Cruise control ON/OFF switch pressed once (pressing twice deactivates system)
- Depressing accelerator pedal for more than 60 sec (override)
- Electric vehicle posture stability control system in operation (e.g., ESP, TCS and ABS)
- Electric vehicle posture stability control system OFF (by ESP OFF switch)
- · Shift lever in positions other than D (drive)
- · EPB applied
- · Driver's door open
- Maximum adaptive cruise control speed (180 km/h) exceeded
- Engine speed below 350 rpm or above 7,000 rpm

- 3rd warning, emergency braking applied by AEBS
- · HDC system in operation
- · Heavily contaminated radar sensor cover

Other disable conditions

- No preceding vehicle at the time of restart after vehicle stop by control
- Distance to front vehicle too far or too close during vehicle stop control
- · Vehicle stop control occurs frequently

Notice

 If "Intelligent cruise control READY" message is displayed on the instrument cluster with the disable conditions met, when you push up the speed selector lever toward RES+ briefly, the intelligent cruise control is reactivated. If the intelligent cruise control is disabled, check the road situations and driving conditions. In addition, depress the brake pedal to adjust the vehicle speed properly.





Notice

 The message is displayed if the intelligent cruise control is disabled abnormally.

Resume

If the intelligent cruise control is disabled (intelligent cruise control ready), you may reactivate it.

Push up the speed control lever toward RES+ briefly at a vehicle speed of about 10km/h or higher without depressing the brake pedal or accelerator pedal.



 The set speed returns to the value before intelligent cruise control was disabled.



Caution

 When resuming, the vehicle speed can be increased or decreased quickly to the set speed just before it is disabled. Be aware of the surrounding road conditions before resuming.

If the following message is displayed on the instrument cluster while the vehicle is stationary, push up or lower the speed selector lever briefly toward RES+ or SET-.

Then, the intelligent cruise control resumes.

Depressing the accelerator pedal also resumes the intelligent cruise control.



To Deactivate

In order to completely deactivate the intelligent cruise control (IACC), press the cruise control ON/OFF switch.

• Intelligent cruise pop-up disappears on the instrument cluster.

When not using the intelligent cruise control, always press the switch to deactivate it.



Caution

 If you depress the accelerator pedal for more than about 60 seconds for temporary acceleration, the intelligent cruise control system will stop operating.

Warning

- When not using the intelligent cruise control, always turn off the system.
- Always set the speed of the intelligent cruise control within the speed range specified by law.
- Check the surrounding road conditions prior to using the intelligent cruise control.
- Do not use the intelligent cruise control under following circumstances:
 - Near high interchange and tollgate
 - Where there are a lot of metals around road such as construction site and iron tunnel
 - Where lanes and guard rails in close proximity
 - Where there is no lane such as parking lot
 - Uphill or downhill with steep incline
 - Poor visibility due to factors such as fog, heavy rain, heavy snow, etc.
- The intelligent cruise control is a convenience feature for the driver. Do not use it as a safety device.
- The vehicle control should be determined by the driver at his/her own discretion.
 Relying on intelligent cruise control only increases the risk of accidents.

Steering wheel (steering force) control alert

If the driver does not hold the steering wheel while driving during intelligent cruise control's steering wheel control, the hands-off warning will be displayed to the driver in 3 steps and the intelligent cruise control system stops operating.



Step 1: Message

· Warning message is displayed.



Step 2: Message + Beep

Warning message is displayed and beep sounds



Step 3: Message + System disabled

 "Intelligent cruise control disabled" message is displayed and steering control is disabled at the same time. However, the cruise control still functions



Caution

- If the driver hold the steering wheel so weakly that there is no left or right movement when driving on a straight road, the system may determine that the driver does not hold the steering wheel and may generate a hands-off warning.
- Hands-off warning may be issued late depending on the road conditions. Always hold the steering wheel while driving.



Caution

The steering wheel (steering force) control system may not function or intervene unnecessarily under following circumstances:

- The system cannot recognize the lane markings because of rain, snow, dust, standing water or puddles, other obstruction on the road.
- The color of the lane markings is not clearly distinct from the road color.
- The lane markings are not clear or tampered by the traffic, or there are 2 or more lane markings on one side.
- There are other markings similar to the lane markings on the roads.

- The lane markings are covered in shadows of the median barriers, guardrails, noise barrier walls, roadside trees.
- There are environmental barriers, such as bollard.
- The traffic is heavy due to the construction in the area or traffic control items, such as traffic cones, are used to separate traffic flows.
- The lane markings are suddenly discontinued at roundabouts and road intersections.
- The vehicle is passing through a certain section, such as highway interchange, where the number of lanes increases or decreases.
- The width of the driving lane is too narrow or wide.
- The distance to the vehicle ahead is too short or a wheel of the vehicle ahead is touching the lane marker.
- There are other roadway markings on the roads, such as crosswalk markings, arrows, symbols, along with the lane markings.
- Poor visibility due to factors such as fog, heavy rain, heavy snow, etc.
- Hard to recognize other vehicles and pedestrians because of poor visibility.
- There is rapid change of illumination, for example at tunnel entry and exit points.

- The headlamps are not turned on or the brightness of the lamps is too low when driving at night or through tunnels.
- When you are traveling within or near the outer edges of the bus-only lane.
- The vehicle is driven on a steep hill or around sharp corners.
- the vehicle is driven under specific conditions which cause severe vibration.
- Objects with reflective surface (white paper, mirror, etc.) are on the dashboard.
- The windshield glass in front of the camera module is covered with ice, snow, slush, mud, dirt or debris.
- · Fog or mist on the windshield.
- The temperature around the front view camera is too high because of the direct sunlight.
- The vehicle is moving towards a light source.
- The light from the sun, streetlamps, or headlamps of oncoming vehicles is reflected by the wet road surface.
- · Bend such as sharp S-curve

To set safety distance to front vehicle

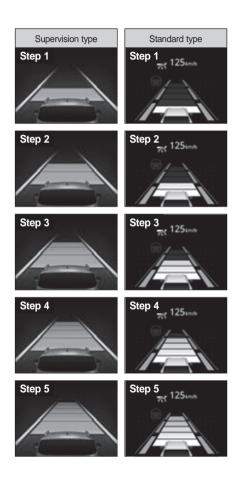
If the preceding vehicle is detected while the intelligent cruise control is operating, this system allows the driver's vehicle to maintain a distance to the preceding vehicle constant.

If the intelligent cruise control is activated, it will operate with the previously set safety distance without separate operation. If necessary, press the safety distance set button to change the intervehicle distance (safety distance) in 5 steps.

Set the safety distance according to the current vehicle speed.







- If no preceding vehicle is detected, the vehicle travels at a speed set to the intelligent cruise control system.
- When the preceding vehicle accelerates and the inter-vehicle distance increases, the driver's vehicle accelerates only up to the set speed and then travels at constant speed.

Forward situation awareness





If the distance to the front vehicle is so close that a collision can occur or the front vehicle disappears from the front view due to lane change, etc. while the intelligent cruise control is activated, the message is displayed on the instrument cluster.

 If the driver has to operate the brake pedal or steering wheel, immediately reduce the vehicle speed or change the direction.



Caution

 If the front vehicle disappears from the front view due to lane change, etc. while traveling and maintaining the distance to the front vehicle constant at a low speed the driver's vehicle may collide with a newly appearing stationary vehicle or object.

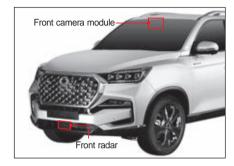
Starting at congested areas





When the intelligent cruise control is operating, in congested areas, drive the vehicle while maintaining the distance to the front vehicle constant. Depress the accelerator pedal or push up the speed selector lever toward RES+ briefly or lower it toward SET- briefly to restart the vehicle 3 seconds after since the vehicle stops due to the front stationary vehicle.

Front detection sensor (Front radar + front camera)



Front radar

It is a sensor that detects the front vehicle and allows the driver's vehicle to maintain the distance to the front vehicle constant and follow the front vehicle. If snow, rain, or foreign objects are stuck around the front sensor, the sensing performance of the sensor may deteriorate and intelligent cruise control may not function or may be temporarily disabled. Always keep the area around the front radar sensor clean.

Front camera

The camera detects the lane ahead of the vehicle through the sensor of the front camera module (FCM), allowing the vehicle to maintain the middle of the lane during intelligent cruise control operation. Always keep the area around the front camera module clean.





Λ

Caution

- Always keep the area around the front detection sensor clean and never attach any accessory (license plate molding, sticker etc.).
- Be careful not to damage the sensor due to high-pressure washing or to prevent water from entering during car washing (lower part).
- After car washing, be sure to wipe off moisture around the sensor.
- Avoid subjecting the front bumper to impacts. The impact may change the sensing area of the sensor.
- · Use a genuine sensor only.
- · Do not paint the front bumper arbitrarily.

Vehicle detection is difficult under the following circumstances:

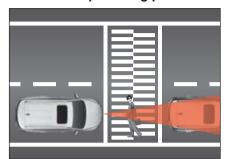
- · Driving on a steep hill or sharp corners
- Driving under specific conditions which cause severe vehicle vibration
- A vehicle or a pedestrian recklessly cuts in front of you
- There is an approaching or reversing vehicle
- · there is a vehicle with arbitrary shape
- Vehicle traveling close to one side lane or ahead
- Vehicle traveling at a very low speed or performing abrupt deceleration
- · Stationary vehicle
- Vehicle with narrow rear structure (trailer, motorcycle, bicycle, etc.)
- When driving on a narrow road or a road with heavy curve
- · When operating steering wheel
- When front part of vehicle lifted upwards due to excessive load in luggage compartment
- Foreign object stuck in sensor due to snow, rain, fog, etc.
- Vehicle which moves or is parked perpendicular to the direction of travel for your vehicle



Caution

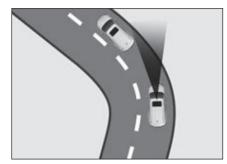
 The system may not recognize the preceding vehicle under the circumstances described earlier. Special care is required. Always be careful of motor traffic and reduce the vehicle speed by depressing the brake pedal, if needed.

Not detected preceding pedestrian



- The intelligent cruise control may not detect people.
- When traveling while maintaining the intervehicle distance, if a pedestrian appears in front of your vehicle, which can cause a dangerous situation.

Curved road



- The system may fail to recognize a preceding vehicle in the same lane on a curved road and accelerate the vehicle to the set speed rapidly.
- If the preceding vehicle is suddenly detected, the vehicle speed may decelerate rapidly.
- Always be careful of motor traffic and reduce the vehicle speed by depressing the brake pedal, if needed.



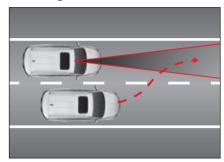
- It may detect a vehicle in a different lane on a curve and which may affect the driver's vehicle speed. Always be careful of motor traffic and reduce the vehicle speed by depressing the brake pedal.
- In this case, check the traffic conditions around you, then step on the accelerator pedal to prevent unnecessary deceleration.

Uphill or downhill

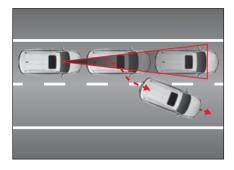


- The vehicle may accelerate to the driver set speed rapidly by failing to recognize a preceding vehicle in the same lane on an uphill or downhill.
- If the preceding vehicle is suddenly detected, the vehicle speed may decelerate rapidly.
- Always be careful of motor traffic on the uphill or downhill and reduce the vehicle speed by depressing the brake pedal, if needed.

To change lane

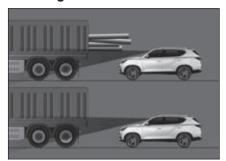


- When a vehicle in the lane next to you enters the same lane, the system may fail to recognize this vehicle until it enters into the sensor detection area.
- Be cautious at all times since the sensor may detect a vehicle cutting in suddenly late.
- Make sure to decelerate to maintain the vehicle-to-vehicle distance when an interposing vehicle's speed is lower than the driving speed.
- Make sure to keep the set speed to maintain the distance to a preceding vehicle when an interposing vehicle's speed is faster than the driving speed.



 If the front vehicle leaves the lane due to lane change, etc., be careful that there is a risk of collision because the system can not detect another vehicle ahead.

Detecting vehicle ahead



 Your attention is always required while driving behind a vehicle carrying cargo longer than the cargo bed or with high ground clearance because the AEBS may not work properly.



Warning

- In the event of an emergency, always stop the vehicle by depressing the brake pedal.
- Keep safety distance at all times. In particular, if you set the distance to the preceding vehicle to closer at high speed, it can cause a very dangerous situation such as collision with the front vehicle.
- The adaptive cruise control system can not cope with the vehicles parked in front, vehicle stopping suddenly, pedestrians, vehicles coming on opposite sides, etc.
 The driver should always be careful to look ahead and respond to unforeseen circumstances.
- If the preceding vehicle changes lanes frequently, the sensor recognition response rate may be slower. The driver should always be careful to look ahead and respond to unforeseen circumstances.
- The adaptive cruise control is a convenience device for the driver and not a safety device. The safe maneuvering and controls are always the driver's responsibility.



Warning

- The driver should always be aware of the adaptive cruise control set speed and distance to the front vehicle.
- Always allow for extra distance between your vehicle and the vehicle ahead.
 Reduce the vehicle speed by depressing the brake pedal, if needed.
- The adaptive cruise control can not recognize complicated traffic conditions, so you should always be careful about traffic conditions while it is operation and the driver must adjust the vehicle speed personally in dangerous situations.
- To use the adaptive cruise control more safely, be sure to read and familiarize yourself with the user manual before using it.



Caution

 The adaptive cruise control may be deactivated in an instant by strong electromagnetic waves.

Brake system

Warning Light and Indicator Related to Brake

















ABS warning light

Brake warning light

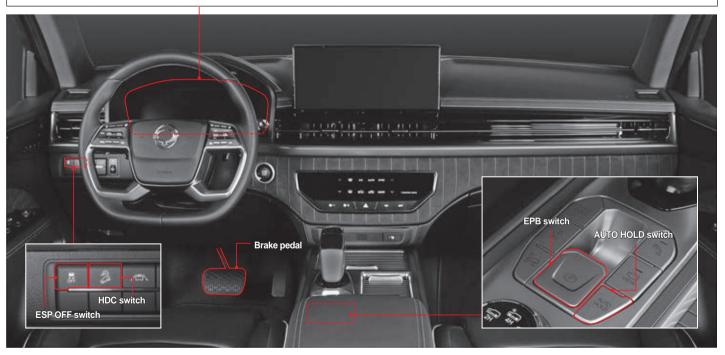
EBD warning light

ESP warning light

ESP OFF indicator

HDC indicator

AUTO HOLD indicator



Foot brake

Depressing the brake pedal can reduce the vehicle speed or stop the vehicle.

If the foot brake is used for a long period of time on a long downhill road, the fade or vapor lock phenomenon may occur due to the overheating of the brake system, reducing the braking performance and causing an accident.

Use the engine brake with a lower gear along with the foot brake on a long downhill road.



Caution

 Reduce the speed properly using the engine brake on a slippery road such as an icy road or a snowy road.

What is the fade phenomenon?

The fade phenomenon is the reduction of braking force due to a decrease in the friction force caused by a temperature increase in the friction surface of a brake when the brake is applied excessively on a long downhill road.

What is the vapor lock phenomenon?

The vapor lock phenomenon is the condition that when the brake is applied excessively on a downhill road, bubbles form in the brake fluid in the wheel cylinder or brake pipe of the hydraulic brake so that proper hydraulic pressure cannot be transferred, causing the brake system not to operate properly even if the pedal is depressed.



Warning

Checking for foreign materials on the pedal operation area



 Before driving the vehicle, clean up the area where the brake pedal or the accelerator pedal is operated. If an empty can or an article is present below the pedal, it may obstruct the pedal operation, causing an accident. Be sure to check before driving the vehicle.

Checking and replacing the brake pads/discs

Check the brake pads and discs at every 10,000 km of driving and replace if necessary. When replacing the brake pad, replace the left and right brake pads at the same time.

The replacement period of the brake pads and discs may vary depending on the driver's driving habit.



Warning

 If you hear a screeching sound when you depress the brake pedal, have your vehicle checked and serviced at a nearby KG Mobility authorized service center.
 Failure to do so may cause the brake not to operate, causing a serious accident.

If the brake is not working

If the foot brake is not working while driving, decelerate the vehicle speed as much as possible using the engine brake and stop the vehicle safely by applying the parking brake slowly.

ABS (Anti-Lock Brake System)*

If you apply sudden braking or apply braking on a slippery road, the vehicle continues to move forward but the wheels are locked, not rotating. In such case, steering may not be possible or the vehicle may spin, causing an accident.

In such case, the ABS controls the locking of the wheels properly to maintain the steering force and improve the steering stability of the vehicle.

In normal driving conditions, the braking system of a vehicle equipped with the ABS operates in the same way as the braking system of a normal vehicle.



Warning

- The ABS system prevents a situation that the wheels are locked, disabling the steering of the vehicle, when the braking is applied. Therefore, the ABS system does not affect the braking distance significantly.
- When the ABS system operates and the braking force is created, the braking distance may become longer or shorter than the braking distance of a vehicle without the ABS system according to the road surface condition.
- When applying a sudden braking, depress the brake pedal strongly until the vehicle stops completely. Never take your foot off from the pedal or depress the pedal in a pumping manner.
- Even a vehicle equipped with the ABS system cannot prevent a risk of the vehicle skidding sideways. Be sure to keep a proper safe distance from a preceding vehicle and drive the vehicle at a low speed on a slippery road.



• Caution

- · A vehicle equipped with the ABS system performs the self-diagnosis function to check whether the system is abnormal or not after the engine is started and the vehicle is driven. In this process, the hydraulic pressure is transferred to the internal hydraulic system forcibly and the motor operates accordingly, so noises and vibrations may occur on the brake pedal. This indicates that the ABS is functioning normally.
- · When the ABS system operates, you may feel vibrations through the brake pedal along with some noise. This is a normal phenomenon that occurs when the ABS system operates.

ABS warning light



This warning light turns on when the START/ STOP switch is in the ON status and it turns off if the system is normal.



Warning

· If the ABS warning light stays on after the engine is started or it turns on while driving, this indicates that an ABS-related system is abnormal, and the ABS system does not operate and only normal braking function is activated. In such case, have vour vehicle checked and serviced at a KG Mobility authorized service center promptly.

Electronic Brake-Force Distribution (EBD)

The EBD system distributes the braking force to the front wheels and the rear wheels efficiently by controlling the braking pressure electronically when the brake pedal is depressed.

The EBD system is activated when the speed difference between the fastest front wheel and the slowest rear wheel is approximately 1 km/h or more, and it is deactivated when the ABS operates.

EBD warning light*





When the ABS warning light and the brake warning light turn on at the same time, it indicates that the EBD system is abnormal. (There is no separate EBD warning light.)



Caution

 When the EBD warning light turns on, have your vehicle checked and serviced at a KG Mobility authorized service center.

Emergency Stop Signal (ESS)*

The ESS function informs of a dangerous situation to a following vehicle by blinking the emergency braking light fast when a sudden braking is applied or the ABS system operates while driving.

The ESS function operates when the vehicle speed is 50 km/h or higher, and it operates in the sequence of "Input ESS signal" \rightarrow "Operate emergency braking light" \rightarrow "Operate the hazard warning lamp".

Notice

If the hazard warning lamp is on, the ESS function is not activated.

Activation and deactivation conditions

	Emergency braking light
Activation conditions	When the vehicle speed is 50 km/h or higher When a sudden braking with the vehicle deceleration of 6.5m/s² or higher is applied When the ABS system is operating while applying braking
Deactivation conditions	If there is no ESS from the vehicle When the hazard warning lamp is activated When the ABS operation is finished
	Hazard warning lamp
Activation conditions	If the vehicle speed is 50km/h or less at the time when the operation of the hazard warning lamp indicator is finished (canceled) If the hazard warning lamp blinks for 10 seconds
Deactivation conditions	When the hazard warning lamp is activated When 10 seconds have passed after the hazard warning lamp is activated When the vehicle speed has increased by 10 km/h or more after the hazard warning lamp is activated

Electronic stability control system (ESP)*

The ESP system is an auxiliary driving safety system that controls the braking of each wheel or the engine output in order to correct the vehicle stability when it becomes unstable such as rapid cornering, helping the vehicle to avoid a dangerous situation.

 The ESP function is activated only when the vehicle becomes extremely unstable and it is not activated in normal driving conditions. You can confirm its activation from the blinking of the ESP indicator on the instrument cluster.

ESP indicator/warning light



- Indicator blinks: When the ESP function is activated
- Warning light turns on: When the ESP system is abnormal



Caution

- If the ESP indicator blinks, drive slowly without accelerating.
- If the ESP warning light turns on, visit a KG Mobility authorized service center and have your vehicle checked and serviced.

Notice

 The hazard warning lamp blinks for approximately 10 seconds to allow a vehicle right behind or around to prepare in advance when you apply sudden braking at the vehicle speed of 50 km/h or higher or the ABS system operates. (Emergency Stop Signal)

ESP OFF indicator



When you deactivate the ESP by pressing and holding down the ESP OFF switch (for 3 seconds or more), the indicator turns on.



Caution

 If the ESP OFF indicator stays on even though you did not deactivate the ESP function, visit a KG Mobility authorized service center and have your vehicle checked and serviced.

Notice

 Pressing and holding down the ESP OFF switch for 3 seconds turns on the ESP OFF indicator and the AEBS OFF indicator at the same time, and the ESP function and the AEBS function are deactivated.

Phenomenon that occurs when the FSP is activated

If the ESP is activated due to tight cornering, the ESP controls each wheel, so you can feel that the braking is applied to the relevant wheel, and vibrations on the brake pedal and noises may occur due to a change in the hydraulic pressure inside the system.

Also, the engine RPM may not increase due to the engine output control function if you depress the accelerator pedal.

When it is necessary to deactivate the ESP function

If the left and right driving wheels are slipping on a snowy road or an icy road continuously, the ESP function is activated to control the engine driving force. Accordingly, the engine RPM cannot be increased even if you depress the accelerator pedal, disabling you to drive the vehicle.

In such case, deactivate the ESP function to restore the engine driving force so that you can drive the vehicle.

 To deactivate the ESP function, press and hold down the ESP OFF switch (for 3 seconds or more).

The ESP OFF indicator on the instrument cluster turns on and the ESP function is deactivated.

 Pressing the ESP OFF switch again activates the ESP function.





Warning

While the ESP is operating, do not press
the ESP OFF switch. If you deactivate
the ESP function by pressing the ESP
OFF switch while suddenly accelerating
or making a sharp turn, the vehicle may
slip suddenly, causing a very dangerous
situation. To deactivate the ESP function,
be sure to press the ESP OFF switch only
when you drive the vehicle on a straight flat
road at a fixed speed.

Notice

A vehicle equipped with the ESP includes various auxiliary functions for improving the driving safety of the vehicle. The typical functions are as follows.

· BAS (Brake Assist System)

The BAS function detects a sudden braking situation and increase the brake pressure for a driver with leg strength who cannot apply sudden braking in a sudden braking situation.

• ARP (Active Roll-over Protection)

The ARP is an auxiliary safety function that helps the vehicle to maintain normal stability prior to the ESP when the driving status of the vehicle is highly unstable.



Caution

- The ESP is just a driving safety assist system of the vehicle and it cannot control the vehicle beyond its physical limitation. Do not rely too much on this system and be sure to drive safely.
- The activation of the ESP (the ESP indicator blinks) indicates that the vehicle is highly unstable. In such case, reduce the vehicle speed and drive the vehicle safely.
- The ESP is not activated when reversing the vehicle
- Do not drive the vehicle immediately after starting the engine. When you drive the vehicle within 2 seconds after starting the engine, the self-diagnosis function of the ESP is not carried out and the ESP is activated in early stage while driving so that symptoms such as the ESP warning light turning on, warning buzzer and the generation of braking force on each wheel may occur.
- When the ARP function is activated, the braking of the engine and each wheel is controlled more powerfully in comparison to normal ESP operation, so the vehicle speed may decrease rapidly or strong braking force on each wheel is created, making the steering status unstable.
- When the ESP operates, vibrations and noises may occur on the brake pedal and other relevant devices due to a change in the hydraulic pressure inside the device.
- A vehicle equipped with the ESP may have slight vibrations while the self-diagnosis function is being carried out for the system, but this is a normal phenomenon.

Hill Descent Control (HDC)*

HDC is the system that decelerates the vehicle automatically to allow the driver to drive the vehicle at a low speed without depressing the brake pedal when the driver intends to drive the vehicle on a steep road at a low speed.

The variable type HDC applied to this vehicle operates flexibly in the range between 5 km/h and 30 km/h according to the vehicle environments (operation status of brake and accelerator pedal).



Warning

 Do not use the HDC function on a normal road. The HDC function is for driving on a downhill road, and using it on a normal road may cause a collision with a following vehicle.

Activating/deactivating the HDC function

- Pressing the HDC switch turns on the green HDC indicator on the instrument cluster and the HDC is in ready status.
- Pressing the HDC switch again turns off the HDC indicator and deactivates the HDC function.





HDC indicator/warning light



- Green indicator turns on: HDC in ready status
- · Green indicator blinks: The HDC is operating.
- Red warning light turns on: The HDC system is overheated and abnormal.



Caution

- When the red warning light turns on, the HDC function is not activated.
- When the red HDC indicator turns on, it indicates that the HDC system is overheated or abnormal. If the red HDC indicator stays on after the HDC-related device has been cooled down properly, have your vehicle checked and serviced at a KG Mobility authorized service center.

HDC activation conditions

- When the HDC function is activated (green HDC indicator turns on)
- Within a certain degree of slope or higher and the operating speed range (approximately 2 km/h ~ 50 km/h)
- When the ESP function (including the BAS function) is not activated

HDC deactivation conditions

- When the HDC function is deactivated (green HDC indicator turns off)
- Degree of slope below the HDC activation condition
- When the vehicle speed is less than approximately 2 km/h or more than approximately 50 km/h
- · When the HDC system is abnormal
- · When the HDC system is overheated
- When the driver depress brake pedal or accelerator pedal

Notice

 While the HDC function is being activated, the driver can accelerate or decelerate the vehicle to the desired speed (approximately 5~30 km/h) for driving by depressing the brake pedal or the accelerator pedal. However, if the vehicle speed is more than approximately 70 km/h, the HDC function is deactivated.

HDC operation

If the conditions for activating the HDC are met, the HDC is activated and the green HDC indicator on the instrument cluster blinks. If the vehicle speed becomes less than approximately 2 km/h or more than approximately 70 km/h or the sloping road becomes gentle while the HDC function is being activated, the HDC operation stops.

While the HDC function is operating, strong operating sounds and vibrations occur on the brake and this is normal according to the HDC operation.



Caution

- The HDC function is for off-road driving on a steep downhill road.
- If the HDC function is used frequently, the brake system or the ESP may not operate normally.
- Avoid using the HDC function when driving on a normal road. If you drive the vehicle with the HDC ready status on a flat road, the HDC function may be activated when you make a tight cornering or pass through a speed bump.
- When the HDC is activated, vibrations and noises occur on the brake pedal and other relevant devices due to a change in the hydraulic pressure inside the device. This is a normal phenomenon according to the activation of the HDC.

Electronic Parking Brake (EPB)

The EPB is the parking brake system with enhanced safety and stability that the parking brake is applied and released through a simple switch operation.







Warning

 Do not allow a person who is unfamiliar with the EPB (especially a child) to operate the EPB. Failure to do so may cause an accident according to the parking and stopping status.



Caution

- When the temperature falls down below zero during winter, the parking brake may not be released due to the freezing of EPBrelated devices.
- Driving the vehicle forcibly with the parking brake not released due to the freezing of a EPB-related device may damage the relevant device. Noises may also occur when driving the vehicle.
- When you park the vehicle on a flat and safe place in a weather with below zero temperatures, use a chock on the wheels after parking instead of using the EPB.

Applying the EPB

- 1 Park the vehicle on a flat and safe place.
- Pull the EPB switch.

The parking brake warning light on the instrument cluster turns on and the EPB is applied.



Releasing the EPB

With the brake pedal depressed, press the EPB switch.

The parking brake warning light on the instrument cluster turns off and the EPB is released.



Releasing the EPB automatically

When you fasten the seat belt with the driver seat door, engine hood and tailgate closed and drive the vehicle normally, the EPB function is released automatically.

Notice

 If the driver seat door, engine hood or tailgate is not closed or the seat belt is not fastened, the EPB auto release function is not activated.

EPB warning light/brake warning light

EPB warning light



 The EPB amber warning light turns on when the EPB system is abnormal.

Brake warning light



The warning light turns on in any of the following situations.

- When the parking brake is operating normally
- · When the brake fluid is insufficient
- When the gear shift lever is moved to the P (parking) position with the AUTO HOLD activated



Caution

- When applying or releasing the EPB, check if the parking brake warning light turns on or off on the instrument cluster.
- If the EPB switch is operated abnormally (excessive or continuous operation), the EPB warning light may turn on. At this time, when you turn off the engine and turn the START/STOP switch in the ON status, the warning light turns off and the EPB operates normally.
- If the EPB warning light stays on, have your vehicle checked and serviced at a KG Mobility authorized service center.
- If the parking brake warning light stays on even though the parking brake has been released, have your vehicle checked and serviced at a KG Mobility authorized service center immediately.

EPB emergency mode

When you pull the EPB switch up if the brake system malfunctions or you cannot depress the brake pedal while driving, the EPB is applied while the EPB is being pulled.

However, the braking distance may increase significantly in comparison to normal brake operation.



Warning

- Never use the EPB emergency mode while driving unless it is an emergency. Doing so may damage the vehicle system and may make the driving status unstable due to the braking force while driving, resulting in an accident.
- If the brake system has a critical failure, the EPB emergency mode may not operate.



Caution

- If you need to park the vehicle with a faulty EPB, place the gear shift lever in the P (parking) position and park the vehicle on flat ground.
- If a noise or a smell of burning occurs from the relevant devices after operating the emergency mode, have your vehicle checked and serviced at a KG Mobility authorized service center.

Δ

Caution

- Before driving, be sure to check if the parking brake warning and the low oil warning light on the instrument cluster turn on.
- Be sure to release the parking brake before driving. Driving the vehicle with the parking brake applied may damage the brake system.
- When you use the parking brake for stopping while driving, move the gear shift lever to the P (parking) position or the N (neutral) position for safety.
- Do not use the P (parking) position of the gear shift lever instead of the parking brake. Be sure to apply the parking brake firmly when stopping or parking the vehicle.
- If you intend to place the gear shift lever in the N (neutral) and park the vehicle, turn off the engine with the gear shift lever in the P (parking) position, press the Gear shift lever unlock button and move it to the N (neutral) position.
- Be sure to place the gear shift lever in the P (parking) position when parking or stopping the vehicle, If the gear shift lever is not in the P (parking) position when parking or stopping, the vehicle may move due to an impact from the outside or along the road surface.

When parking the vehicle on a uphill road

 When you park the vehicle on a uphill road, park the vehicle with the steering wheel turned in the opposite direction from the curb.



When parking the vehicle on a downhill road

 When you park the vehicle on a downhill road, park the vehicle with the steering wheel turned in the direction toward the curb.



AUTO HOLD*

If the AUTO HOLD function is activated, brake pressure is automatically maintained when the driver depresses the brake pedal to stop the vehicle in the event of waiting for a signal or in a traffic jam, allowing the vehicle to remain stopped even when the brake pedal is released.

In R (reverse) position, the AUTO HOLD function does not work.

When you depress the accelerator pedal, the parking brake is released automatically, allowing you to drive the vehicle.



Activating the AUTO HOLD function

When you press the AUTO HOLD switch, the AUTO HOLD indicator (white) turns on and the AUTO HOLD function is activated.



Deactivating the AUTO HOLD function

- When you press the switch with the AUTO HOLD activated, the AUTO HOLD function is deactivated.
- When the ignition switch is turned off and turned on back, the AUTO HOLD function maintains the state before turning off the ignition.



Using the AUTO HOLD function

- 1 Press the AUTO HOLD switch.
 The AUTO HOLD indicator (white) on the instrument cluster turns on
- 2 Stop the vehicle completely by depressing the brake pedal while driving.
 - The color of the AUTO HOLD indicator changes from white to green and the brake is applied.
- 3 Depress the accelerator pedal slowly when driving the vehicle.

The color of the AUTO HOLD indicator changes from green to white, and the brake is released. (possible only when hood, trunk and driver's door closed)



Warning

 When you drive the vehicle on a downhill road, do not depress the accelerator pedal suddenly. Doing so may cause the vehicle to move fast, causing a dangerous situation.

AUTO HOLD indicator/warning light



- White indicator turns on: AUTO HOLD function in ready status
- Green indicator turns on: AUTO HOLD function is activated
- Yellow warning llight turns on: When the AUTO HOLD system is abnormal



Caution

- Be sure to deactivate the AUTO HOLD function if wheel drive is necessary such as automatic car wash.
- During the break-in period of parking brake pads, the braking force of the parking brake may be slightly reduced. (If the vehicle is parked on a sloping road, the vehicle may roll down.)
- Check the brake pads for wear and the operation status of the Electronic Parking Brake (EPB) every 10,000 km.
- When the Electronic Parking Brake (EPB) is applied, a mechanical operating sound may occur. This is a normal operating sound of the Electronic Parking Brake (EPB) system.
- If the Electronic Parking Brake (EPB)
 warning light turns on, the Electronic
 Parking Brake (EPB) operation is abnormal,
 have your vehicle checked and serviced
 at a KG Mobility authorized service center.
 If you need to park the vehicle in case of
 emergency, stop the vehicle on flat ground,
 place the gear shift lever in the P (parking)
 position and use a chock on the wheels.
- When you need to turn off the engine in AUTO HOLD operation ready (white indicator turns on)/activation (green indicator turns on), the Electronic Parking Brake (EPB) is activated automatically.

Autonomous Emergency Braking System (AEBS)*

The AEBS is an auxiliary system that warns the driver about the risk of collision when the collision with a vehicle or a pedestrian at the front while driving is expected through the Front Camera Module (FCM) sensor.

This system informs the driver about the collision risk with the warning message and warning buzzer according to the level of collision risk. If this collision risk persists, this system controls the braking force to avoid collision or relieves the shock when a collision occurs, improving the safety of the driver and pedestrians.

1st collision alert ightarrow 2nd collision warning ightarrow 3rd emergency braking ightarrow Vehicle stop



A

Warning

 AEBS is only an auxiliary system for helping the driver to secure safety in a dangerous situation and it does not avoid a collision situation automatically. The driver is responsible for the vehicle safety and control.

Notice

 The AEBS is set and Medium is set for the sensitivity of the forward collision warning as the factory default settings.

AEBS indicator/warning light

AEBS OFF indicator



When the AEBS system and the ESP function are deactivated, the AEBS OFF indicator on the instrument cluster turns on.

Notice

 Pressing and holding down the ESP OFF switch for 3 seconds turns on the ESP OFF indicator and the AEBS OFF indicator at the same time, and the ESP function and the AEBS function are deactivated.

AEBS indicator/warning light



The AEBS indicator and warning light operate as follows depending on the AEBS status.

- · Blink: AEBS is operating
- . Turn on: AEBS is abnormal

A warning message is displayed on the display of the instrument cluster as follows according to the AEBS status.

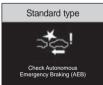
AEBS is operating





AEBS is abnormal





AEBS is activated





When you put a check mark on ♠ (User Settings) → **Driving assist** → **AEBS** from the instrument cluster, the function is activated and the AEBS OFF indicator on the instrument cluster turns off.

When you remove the check mark from the **AEBS**, the function is deactivated and the AEBS OFF indicator turns on.



Caution

- Activate or deactivate the AEBS system before driving the vehicle or after stopping the vehicle at a safe place for safety.
- When the ESP function is deactivated, the AEBS function is also deactivated automatically even if it was activated previously. The AEBS function can also be activated from the User Settings menu on the instrument cluster.

Setting the sensitivity of the forward collision warning





You can change the setting from (User Settings) → **Driving assist** → **Forward Collision Sensitivity** on the instrument cluster.

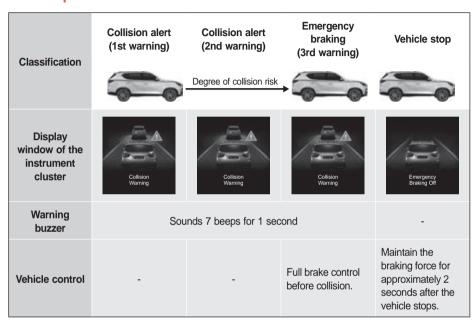
- If Fast is set, the AEBS warning is issued fast.
- If the AEBS warning is too fast, set it to Medium or Slow.



Caution

 Even if Fast is set for the sensitivity of the AEBS warning, you may feel it is slow when a front vehicle applies a sudden braking.

AEBS operation





Warning

- The AEBS is an auxiliary system that helps the driver to secure safety in a dangerous situation and it does not guarantee safety.
- The AEBS does not recognize all urgent and dangerous situations.
- Do not attempt dangerous driving for activating the AEBS.
- The AEBS does not avoid a collision situation automatically. The driver is responsible for the vehicle safety and control.
- Always secure safe braking distance and depress the brake pedal to reduce the vehicle speed if necessary.
- The AEBS is activated according to the distance from a front vehicle or a pedestrian, relative speed and the driver's response.
- In case of the AEBS, the Front Camera Mode (FCM) detects the driving condition, and if the driving condition is beyond the FCM performance, the system performance may be lowered.

Activation conditions

When the following conditions are met after the AEBS is activated, the system operates normally.

- · When the AFBS is activated
- When the Electronic stability control system (ESP) is activated
- When the Front Camera Module (FCM) recognizes a vehicle and a pedestrian at the front normally
- When the vehicle speed is between 8 km/h and 60 km/h

Notice

- The AEBS is ready to operate in preparation of an urgent (dangerous) situation and when the driver depresses the brakepedal, this auxiliary system responds promptly.
- When the AEBS is activated, it supplements the optimal braking force required for decelerating the vehicle.
- If the urgent (dangerous) situation is cleared, the AEBS control stops.
- The 1st warning is activated up to the vehicle speed of 180 km/h.

Deactivation conditions

When the following conditions are met after the AEBS is activated, the system is deactivated and the AEBS does not operate.

- · When the AEBS is deactivated
- When the Electronic stability control system (ESP) is deactivated
- When the vehicle speed exceeds 60 km/h
- · When the steering wheel is operated
- When the gear shift lever is placed in the P (parking) or the R (reverse) position
- When the accelerator pedal is depressed

The AEBS cannot detect a vehicle properly:

- on a sharply curved section or a steeply sloping road
- · when the vehicle wobbles significantly
- when the tail lights of a front vehicle are asymmetrical or are not turned on at night
- when the rear side of a front vehicle is asymmetrical
- · when a vehicle cuts in suddenly
- An animal, an object or a vehicle driving, or when the vehicle is driving in the opposite direction
- An approaching vehicle or a vehicle that is reversing
- · An odd-shaped front vehicle
- When there is rapid change of illumination (tunnel entrance, etc.)
- When the shape is not visible due to shade right below an overpass

- There is poor visibility due to bad weather such as snow, rain and fog
- When the moisture formed on the glass of the windshield is not removed completely
- When the reflection from an object placed on the dashboard panel obstructs the recognition of the Front Camera Module (FCM)
- When there is a narrow object such as a motor cycle or a bicycle in front of the vehicle
- A vehicle moving or stopping perpendicularly to the driving direction at an intersection



Caution

 The driver's attention is required since the AEBS may not respond normally or the system may malfunction when it is difficult to detect a vehicle.

Curved road



On a curved road, a front vehicle on the same lane cannot be detected and the AEBS performance is reduced so that unnecessary warning or braking is applied or the system may not operate.

Check the front road and driving conditions on a curved road and adjust the vehicle speed directly by depressing the brake pedal if necessary.



A vehicle on another lane may be detected, affecting the speed. Check the front road and driving conditions and adjust the vehicle speed directly by depressing the brake pedal if necessary.

In such case, you can prevent unnecessary deceleration by depressing the accelerator pedal.

Sloping road

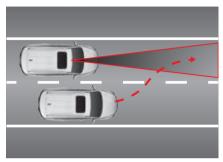


On a uphill road or a downhill road, a vehicle on the same lane cannot be detected and the AEBS performance is lowered so that unnecessary warning or braking is applied or the system may not operate.

Also, a front vehicle is detected suddenly and the warning and braking may be applied.

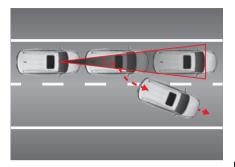
Check the front road and driving conditions on a uphill road or a downhill road and adjust the vehicle speed directly by depressing the brake pedal if necessary.

When changing the lane



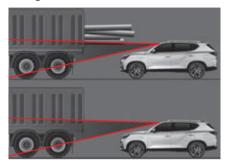
When a vehicle on the next lane changes the lane to the same lane, the vehicle may not be detected until it enters the detection range of the Front Camera Module (FCM).

Always pay attention since a vehicle that cuts in suddenly may be detected late.



Caution should be taken that if there is a vehicle stopped in front of the vehicle ahead and the vehicle ahead moves out of the lane while your vehicle has been decelerated due to the AEBS operation, the vehicle stopped at the front is not selected as the control target, causing a collision risk.

Recognition of a vehicle ahead



Caution should be taken that a tall vehicle or a vehicle with cargo sticking out the back of the vehicle may cause a dangerous situation.

The AEBS cannot detect a pedestrian

- · who is not standing normally
- whose body is hidden or who does not walk upright
- · who moves fast
- · who cuts in suddenly
- who wears clothes in a color similar to the background
- when the surrounding illumination intensity is too high or too low
- · at night or when the surrounding area is dark
- if there is a structure similar to a person
- · if he/she is short
- whose behavior is unstable
- When there is a situation that disables the AEBS to detect a pedestrian by environments
- when there are many people gathered together
- When there is an object (cart, bicycle, twowheeler, suitcase, stroller, etc) pushed by the pedestrian



Warning

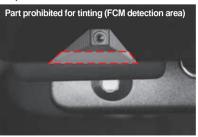
- The AEBS is not activated in all situations.
 Therefore, do not test the AEBS targeting a person or an object. Doing so may cause serious injury or death.
- When you start the engine, the AEBS is always activated automatically. If you need to deactivate the function, use the User Settings menu on the instrument cluster.
- If the AEBS is activated and you apply a sudden braking, occupants in the vehicle may face danger. Therefore, always pay attention just in case.
- If the front camera is stained with foreign materials, its detection function is lowered and the AEBS is deactivated temporarily.
 Always keep the camera clean.
- If the front camera has deviated from its normal position due to a shock, the system may not operate normally even if the warning light does not turn on or the warning message is not displayed on the instrument cluster.
- At night, the vehicle and pedestrian detection performance may be lowered since the lighting condition is poor in comparison to daytime.

- If frost forms on the windshield during winter, the front camera may not detect normally. Be sure to remove the frost.
- Failure to do so may result in unnecessary warning and braking, and the warning and braking may not be applied due to the detection limitation of the sensor.
- If a vehicle ahead applies a sudden braking, proper brake application may not be carried out, causing a collision. Always pay attention in preparation for a dangerous situation.
- If you tow another vehicle or a trailer, cancel the AEBS setting. Applying braking while towing may lower the safety of the vehicle.
- When you load the vehicle on a truck, a train or a ship that transports a vehicle, deactivate the AEBS. The system may be activated according to the contact condition in the loading process.



Caution

- The AEBS may be deactivated temporarily by a strong electromagnetic wave.
- Do not tint the Front Camera Module (FCM) detection area. Doing so may cause the relevant system to malfunction or not to operate.



Rear and side warning system*

The rear and side warning system is an auxiliary system that detects and informs the blind spot area that cannot be detected by the driver using the detection sensor located inside of both edges of the rear bumper.

- The rear and side warning system includes the following warning systems.
 - Blind spot-detection warning (BSW) system
 - Blind spot collision assist (BSA) system
 - Lane change warning (LCW) system
 - Rear cross traffic warning (RCTW) system
 - Rear cross traffic assist (RCTA) system
 - Safety exit warning (SEW) system

Display of rear and side warning system activation





When the outside rearview mirror warning light blinks twice with the START/STOP switch in the ON status or while the engine is running, it indicates that the rear and side warning system is operating normally.

Note

 You can change the BSW system settings in User Settings in the instrument cluster.



Warning

 The rear and side warning system is an auxiliary system that helps the driver to drive the vehicle safely. Avoid depending on the rear and side warning system in any case and drive the vehicle while checking the road condition.



Caution

- Always keep the rear bumper clean. The sensor that detects the rear and both sides of the vehicle is installed inside of both edges of the rear bumper. If the rear bumper is stained with foreign materials, the sensors may not function normally
- When the rear bumper is replaced, painted or repaired, the system operation performance may be lowered.
- The detection sensors of the system may not operate depending on the surrounding environment. Drive the vehicle while checking the road condition directly for an emergency situation.
- Failure to do so may cause the system to malfunction due to a strong electromagnetic wave.

Activating/deactivating the warning buzzer of the rear and side warning system

Supervision type

Go to Instrument Cluster Settings \rightarrow Sound \rightarrow BSW System Audible Alert \rightarrow Enable BSW Audible Alert, RCTW Audible Alert and SEW Audible Alert in (User Settings) in the instrument cluster and tick the corresponding boxes.

Standard type

Go to Sound → BSW System Audible Alert → Enable BSW System Audible Alert, RCTW Audible Alert and SEW Audible Alert in (User Settings) in the instrument cluster and tick the corresponding boxes.

Notice

- "Rear and side warning system ON" or "Rear and side warning system OFF" message is displayed for approximately 2 seconds on top of the display window of the instrument cluster according to the activation and deactivation of the rear and side warning system. Also, the outside rearview mirror warning light blinks twice.
- If you do not use the rear and side warning system, be sure to deactivate the system.
- If you wish to connect a trailer, be sure to deactivate the system for preventing a system malfunction.

Warning level of the rear and side warning system

When a blind spot on the rear left or right side of the vehicle or a vehicle approaching at a fast speed is detected with the blind spot detection and lane change assist system function activated and the driving speed is approximately 30 km/h or more, the rear and side warning system is activated

1st warning





When a vehicle in the rear and side warning area of the vehicle is detected, the yellow warning light indicator on the outside rearview mirror turns on.

When the relevant vehicle deviates the warning area during the operation of the 1st warning, the warning operation is stopped according to the driving condition after a certain period of time.

2nd warning







When you operate the turn signal with the 1st warning (Yellow warning light on the outside rearview mirror turns on), the 2nd warning is operated as follows.

- Yellow warning light on the outside rearview mirror blinks
- · Warning buzzer sounds inside the vehicle.

When you return the turn signal switch to its original position (OFF status) during the operation of the 2nd warning, the second warning operation is stopped.

When the rear and side warning system is abnormal





When the rear and side warning system is abnormal, a warning message is displayed on the display of the instrument cluster.



 If the warning message persists, have your vehicle checked and serviced at a KG Mobility authorized service center.



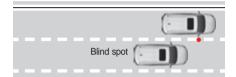


If the sensor cannot detect the rear and both side areas of the vehicle normally with the rear and side warning system activated, the message is displayed on the display of the instrument cluster.

- When there is a foreign material on the outside and inside of the rear bumper
- When equipment such as a trailer is installed on the rear of the vehicle
- · When the width of the road is wide
- When there is a heavy snow or a heavy rain

BSW System

The BSW (Blind Spot-detection Warning) system is a system that, when a vehicle is detected approaching the rear side blind spot of the vehicle, illuminates the warning lamp in the exterior mirror and rings an alarm to warn the driver of the risk of collision.



Activating / deactivating BSW system



Operating conditions

The BSW system activates the warning system when the following conditions are met:

- · BSW system is activated.
- · Vehicle speed is between 30km/h and 255km/h.
- · A vehicle is detected in blind spot.

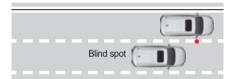


Warning

· The BSW system can warn only within a limited area, and warnings about vehicles approaching the rear blind spot due to surrounding conditions and driving conditions may not work.

BSA System

The BSA (Blind Spot-collision Assist) system is a system that, when the driver's vehicle unintentionally closes to the lane, directs the vehicle through one-sided braking to the center of the lane when a collision with the vehicle in the rear blind spot is expected, and notifies the driver by illuminating the warning light in the outside rearview mirror.



Operating conditions

The blind spot collision assist (BSA) system issues a warning when:

- · Blind spot collision assist (BSA) is set.
- Vehicle speed is between 60km/h and 140km/h.
- · Vehicle is driving on a road where both lanes are recognized normally with no brake applied. (including AEB and ACC)

BSA is deactivated when:

- · Driver turns the steering wheel sharply.
- · Part of vehicle has already entered the next lane.
- Brake pedal is depressed.
- · The brake-related function is working (such as ACC, AEB, ESP and ABS)



Caution

· After changing lanes, you must move to the center of the lane. The system may not work if the vehicle continues to drive close to the lane

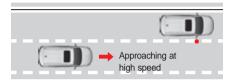


Warning

- The braking control may not work depending on the electronic stability control (ESP).
- · When the electronic stability control (ESP) warning light comes on, the braking control does not work.
- · When the electronic stability control (ESP) performs another function, the braking control does not work.

LCW System

The LCW (Lane Change Warning) system is designed to alert the driver by flashing the outside rearview mirror and sounding the beep when a fast approaching vehicle is detected from the rear side of the driver's vehicle.



Activating / deactivating LCW system



Advanced / Standard type
 Go to Driving Assist Setting → Blind-Spot
 Collision Assist → Blind Spot Detection &
 Collision Assist → Enable Collision Assist
 in (User Settings) in the instrument
 cluster and tick the check box.

Operating conditions

The LCW system activates the warning system when the following conditions are met:

- · BSW system is activated.
- Vehicle speed is between 30km/h and 255km/h.
- When a vehicle approaching at a high speed is in the detection area.
- Driver's vehicle is driving on a straight road.



Warning

 This system is an aid to ensure the driver convenience. If you depend on this system, it may cause accidents. Always check the surroundings with a side mirror when changing lanes.

RCTW System

The RCTW (Rear Cross Traffic Warning) system is a system that, when a vehicle is detected approaching from the rear left/right side during reversing the vehicle, displays a warning message in the instrument panel display window, sounds a audible alert and illuminates the warning lamp in the outside rearview mirrors to inform the driver.



Activating / deactivating RCTW system



Activation conditions

- If the gear shift lever is placed in the R (reverse) position
- When the vehicle speed is less than 10km/h
- If a vehicle exists within the RCTW range and the speed of the approaching vehicle is 24 km/h or less

If an approaching vehicle is detected, the approach message from the relevant side is on the display of the instrument cluster.













RCTA System

The RCTA (Rear Cross Traffic-collision Assist) system is an assistive device that outputs a warning message and a buzzer to inform the driver of risk of collision due to a vehicle approaching to your side when backing up and help collision avoidance or mitigate damage by applying brake assist.



Activating / deactivating RCTA system

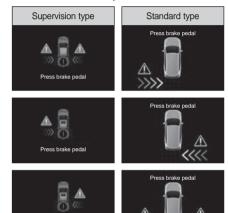


Operating conditions:

- · Shift lever in R (reverse) position
- · Vehicle speed of below 8 km/h
- Vehicle in warning area with approaching speed of less than 24 km/h

If the risk of collision is detected due to an approaching vehicle during operation of the RCTA system, emergency braking (braking assist) is performed.

• The braking assist does not restart for about 10 seconds after it operates.



Note

- This system may not function depending on the operation of ESP system.
 - When ESP warning lamp light up
 - When ESP system is operating

Press brake pedal

Cases that the system is not activated

In any of the following cases, the RCTA may not operate.

- If the target vehicle is out of the RCTA detection area
- · If the target vehicle is right behind
- If the target vehicle is moving in the same direction
- · If the speed of the target vehicle is fast
- If the speed of the target vehicle decreases suddenly
- If the detection sensor is covered with an obstacle

Cases where the RCTA system malfunctions

In any of the following cases, the system may malfunction, so the driver's attention is necessary.

- If the rear bumper is stained with foreign materials (rain, snow, dust, sticker, etc)
- When equipment such as a trailer is installed on the rear of the vehicle
- When the rear bumper is damaged or the vehicle body is distorted
- Sharp curve, tollgate entrance and exit section
- Tire pressure imbalance and excessive loading

- · Bad (heavy snow, heavy rain) weather
- When there is a fixed object (median strips, guardrails, noise barriers) on the road or a construction section
- When a large vehicle or a small motor cycle (bicycle) is driving at a close range
- When you accelerate the vehicle with an opposite vehicle together at the same time
- When the speed of a vehicle behind is very fast (passing)
- · When you change the lane
- Steep uphill road, downhill road or a road condition where the height of lanes is different
- When an opposite vehicle is driving very closely to the rear side of the vehicle
- · When a vehicle behind driving closely passes
- When the area near the sensor is covered with a vehicle, a column or a wall in the parking lot
- A vehicle that moves in the same direction when reversing the vehicle
- A small moving object such as a person, a shopping cart or a stroller
- · A vehicle with very low vehicle body
- A narrow road densely covered with trees or grass
- · When the width of the road is very wide

- · When the road surface is wet
- When the sensor detection area is changed due to a rear collision

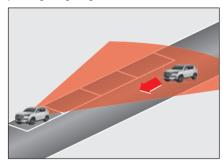
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Warning

- The Rear Cross Traffic Warning (RCTW) system does not give a warning for an article adjacent to the vehicle and the warning function may not be activated for a vehicle approaching fast in the rear.
- The RCTW and RCTA are assistive devices for the driver, not the safety devices. If you depend on these systems, it may cause accidents. The driver is responsible for safe driving of the vehicle by maneuvering the brake pedal. Depending on the surrounding environment and driving conditions, the warning and control functions of the system may not operate or may operate unnecessarily. Always check the surroundings while driving.

SEW System

The SEW (Safety Exit Warning) system is an assistive device that warns the driver and passengers about the risk of an accident by displaying a warning message on the instrument panel along with a buzzer when there is a vehicle approaching from the rear side when the driver or passenger is getting off the vehicle.





Caution

- The exit assist function operates for about 10 minutes after the ignition switch is turned off. After about 10 minutes, the exit assist function does not work to prevent battery drain.
- When you lock the door with a smart key or a REKES key, the exit assist function will not work immediately.

Activating / deactivating SEW system

Supervision / Standard type
 Go to Driving Assist Setting → Blind-Spot
 Collision Assist → Enable SEW in
 (User Settings) in the instrument cluster and tick the check box.

Operating conditions:

- Shift lever in P (park) or N (neutral) position
- Vehicle parked
- You are about to open the door to leave the vehicle when a vehicle is approaching from the rear side

If a vehicle approaching from the rear side is detected, a warning message is displayed on the instrument panel display along with a buzzer to inform the driver and the passenger.







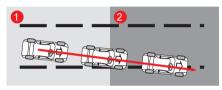






LDWS (Lane Departure Warning System)*

The LDWS is a driving assist system that its Front Camera Module (FCM) detects the lanes ahead and issues a warning message and sounds the warning buzzer to help the driver to drive the vehicle while maintaining the vehicle on the line properly when the vehicle deviates from the lane with the turn signal not activated.



- 1 Detect the deviation of the lane with the turn signal not activated
- Display a warning message and sound the warning buzzer

Δ

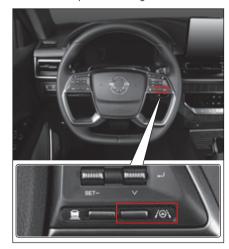
Warning

 The LDWS prevents the lane departure, gives a warning to the driver and sounds the warning buzzer. Never depend on the lane departure warning system in any case and drive while checking the road condition.

Activating/deactivating the LDWS

With the START/STOP switch in the ON status, press the lane departure warning system switch to activate the system. When the system is activated, the lane departure warning indicator on the instrument cluster turns on.

Pressing the switch again with the lane departure warning system activated deactivates the system and the lane departure warning indicator turns off.



LDWS ON indicator



When the lane departure warning system is activated, the indicator on the instrument cluster turns on.

- White indicator turns on: The lane departure warning system is in ready status (the vehicle speed is below a prescribed speed or the lane is not recognized).
- Green indicator turns on: The lane departure warning system is operating normally.
- Yellow warning light turns on/blinks: When the LDWS is abnormal

Activation conditions

If the following conditions are met, the LDWS is activated.

- · When the LDWS is set
- When the vehicle speed is between 60km/h and 175km/h
- When the front camera recognizes the left and right lanes
- · A straight road or gently curved road
- · No turn signal activation

A

Warning

- Be sure to hold the steering wheel while driving.
- The driver is responsible for operating the steering wheel to ensure the safe driving of the vehicle.
- Do not steer the vehicle rapidly when the lane departure warning system is activated.
- The lane departure warning system only gives a warning and sounds the warning buzzer. Therefore, the driver should keep the vehicle in the lane by steering the vehicle carefully while driving.
- The lane departure warning system may be deactivated, may not operate or may operate unnecessarily according to road condition and surrounding environment. Therefore, pay attention while driving.
- Do not attempt dangerous driving for activating the lane departure warning system.

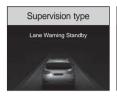


Caution

- Do not tint or attach a sticker or an accessory to the Front Camera Module (FCM) detection area. Doing so may cause the relevant system to malfunction or not to operate normally.
- The lane departure warning system recognizes a lane using the camera, and if the lane is not recognized properly, the system may be deactivated or may operate unnecessarily, so be careful when using the system.
- If the lane is not recognized properly, be sure to check the conditions for driver's attention.
- Do not detach any component from the LDWS or apply an impact to the LDWS.
- Do not place a reflecting object (white paper or mirror) on the dashboard. Doing so may cause the system to malfunction due to the reflection of light.
- The warning buzzer of the LDWS may not be heard due to the loud sound from the audio system.

Message on the instrument cluster

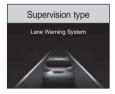
LDWS ON (READY)





The lanes are shaded when the LDWS is turned ON but the vehicle is driven at a low speed of less than 60 km/h or both lanes are not detected.

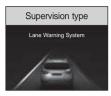
When the lanes on both sides are recognized





If both lanes are recognized with the vehicle speed of 60 km/h or higher, the lanes are displayed in white.

When only one lane is recognized



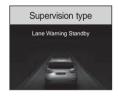






If only one lane is recognized with the vehicle speed of 60 km/h or higher, only the recognized lane is displayed in white.

If the vehicle is driven at a low speed or no lane is recognized





If the vehicle speed is less than 60 km/h or both lanes are not recognized, the shaded lanes are displayed.

Lane departure without the operation of turn signal





If the vehicle is approaching one of the lanes without the operation of the turn signal while the lane departure warning system is operating normally, the relevant lane blinks.

- Supervision type: Blink in yellow ↔ white
- · Standard type: White shading blink

If the system is inoperative





This message is displayed when the lane departure warning system is inoperative.

System check

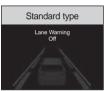




This message is displayed when the lane departure warning system is in the check mode.

When the system is deactivated





This message is displayed when the lane departure warning system is deactivated.

Cases that the system is not activated

- When the turn signal and the hazard warning lamp are operated for changing the lane
- When both the left and right lanes are not recognized
- When the vehicle is driven on one side of the lane continuously without moving to the center of the lane after changing the lane
- If the steering wheel is operated suddenly for changing the lane (the system is not activated temporarily)
- When the Electronic stability control system (ESP) is activated
- When the vehicle is circling fast on a curved road
- When the vehicle speed is more than 60 km/h and less than 175 km/h
- · When you need to change the lane rapidly
- When the width of the lane is too narrow or too wide so that the lane cannot be detected
- When there are 2 or more lane markings on the lane while driving (example: construction section)
- · If the radius of a curved road is too small

- · In case of a steep sloping road
- When the vehicle speed is reduced rapidly
- When the tinted part of the windshield covers a part of the Front Camera Module (FCM) detection range



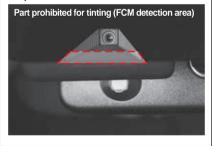
Warning

Change the lane after operating the turn signal switch.



Caution

 Do not tint the Front Camera Module (FCM) detection area. Doing so may cause the relevant system to malfunction or not to operate.



Cases requiring the driver's attention

In any of the following cases, the system may not operate or may operate unnecessarily. Therefore, the driver's attention is necessary.

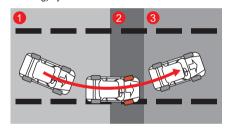
- If the lanes are not visible due to foreign substances (rain, snow, dust, puddle, wet road surface)
- If the color of lane markings and the road cannot be distinguished clearly
- If the lane markings are not clear or are damaged or two or more lane markings are present on one side
- If there are markings other than or similar to the lane marking near the lane
- If the lane markings are covered in the shade of median strips, guardrails, noise barriers, other structures or roadside trees
- If there are boundary structures such as sidewalk blocks
- If the lane is crowded due to the construction section or some lanes are replaced with structures

- When the lane suddenly disappears or is invisible on the intersection
- There is a section where the number of lanes increases or decreases or the lanes intersect complicatedly (tollgate entrance, road junction/merge section, etc)
- . If the lane is too narrow or too wide
- If the distance from a vehicle ahead is extremely short or a vehicle ahead is driving while hiding the lane
- There is a marking for a crosswalk or road sign on the road surface
- If the visibility is poor due to bad weather such as fog, heavy rain or heavy snow
- If the visibility is poor so that the lane cannot be recognized
- When the brightness outside the vehicle changes rapidly such as the entering a tunnel
- When the light is weak or the head light of the vehicle is not used at night or in a tunnel section

- When you drive the vehicle on the bus-only lane or on the left or right lane of the bus-only lane
- On a sharply curved section or a steeply sloping road
- · when the vehicle wobbles significantly
- When a reflecting object (white paper or mirror, etc.) is placed on the dashboard
- When the windshield or the front side of the camera lens is contaminated with dust
- When the moisture formed on the glass of the windshield is not removed completely
- When the temperature near the camera is very high due to direct sunlight
- When there is backlight in the moving direction of the vehicle
- When the sunlight, streetlight or the light from an incoming vehicle is reflected by water on the road surface

Lane Keeping Assistance System (LKAS)*

The LKAS (Lane Keeping Assist System) is an assistive vehicle operation technology that detects vehicles up ahead using the FCM (Front Camera Module), and when the system detects that the vehicle is departing from the current lane without a lane change indication, the vehicle visually and audibly warns the driver through the LDWS (Lane Departure Warning System), and if the vehicle continues to depart from the lane, the vehicle maintains stays in the current lane by taking control using the EPS (Electronic Power Steering) system.



- Lane departure without activation of turn signal lamp detected
- Steering control by EPS as well as warning message and buzzer
- 3 The vehicle is steered toward the center of the lane.



Warning

- The LKAS assists the driver with audible and visual warnings so that the vehicle does not move out of the driving lane unintentionally. Do not drive the vehicle in a dangerous or reckless manner relying on the LKAS. Always drive safely paying attention to the road conditions.
- The LKAS is an assistive device that precisely controls the steering wheel so that the vehicle does not leave the lane regardless of the intention of the driver.

Enable / disable LKAS

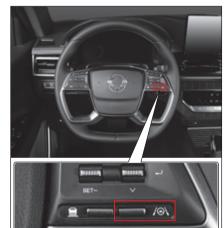


Supervision / Standard type
 Go to Driving Assist Setting → Forward
 Safety Assist → Enable LKAS in
 (User
 Settings) in the instrument cluster and tick the check box of LDWS.

To enable / disable LKAS

Press the LKAS switch with the ignition switch turned on. If the system is activated, the LKAS ON indicator lights up on the instrument cluster.

When the switch is pressed again with the LKAS is in active, the system will be deactivated and the LKAS ON indicator will go off.



LKAS ON indicator



This indicator light up on the instrument cluster when the LKAS is activated.

- Indicator ON in white: System READY state (Vehicle speed below specified value or no lane detected)
- Indicator ON in green: LKAS operates normally
- Indicator ON in yellow / flash: Faulty LKAS system

Operating conditions

The LKAS system is activated when:

- · LKAS is enabled
- Vehicle travels at a speed between 40 km/h and 175 km/h
- Front camera recognizes left/right lanes
- · Driving on a straight road or gentle curve
- · Turn signal is not activated
- Turn signal on the opposite side of direction in which you are about to move is operated
- Refer to "Lane departure indicator/warning light*" (p.4-49)



Warning

- Do not release your hands from the steering wheel while driving.
- The driver is responsible for safe driving of the vehicle by maneuvering the steering wheel.
- Do not steer the vehicle rapidly while the LKAS is activated.
- The LKAS does not always control the steering wheel automatically.



Warning

- The LKAS is only a device to assist with the steering wheel operation, and the driver is entirely responsible for maintaining the lane with the steering wheel operation.
- The LKAS may be deactivated, not work at all, or activated when it is not desired depending on the road conditions and surrounding environment.
- Never drive the vehicle in a dangerous or reckless manner to test the LKAS.
- When replacing the steering wheel systemrelevant parts, have the system checked and serviced at a KG Mobility Dealer or KG Mobility Authorized Service Center.



Caution

- Do not attach sticker, accessory, tinting films on the detection area of the FCM.
 This can cause malfunctions and abnormal operation of the related systems.
- The LDWS recognizes the lanes by using the images from the cameras. Keep in mind that the LDWS may be deactivated or activated when it is not desired if the lanes are not recognized successfully.
- Pay close attention especially when the LKAS fails to detect the lane markings.

⚠ 0

Caution

- Do not remove any part of the LDWS or apply impact on it.
- Do not put any object with reflective surface (white paper, mirror, etc.) on the instrument panel. Reflected lights can cause system malfunction.
- You may not hear the audible alert (chime) if the sound from your audio source is too loud.
- If you drive without holding the steering wheel for too long, LKAS will be turned off automatically after the hands off alert.
- Please note that when driving at high speed, the steering assist force of the lane keeping assist system may be reduced, which can cause the vehicle to leave the lane.
- The driver is responsible for operating the steering wheel.
- The driver can still steer the vehicle in the event of the faulty LKAS.
- Please operate the steering wheel by hand without using the LKAS when:
 - Weather is bad
 - Road condition is not good
 - Frequent steering wheel control is required
- You may feel that the steering wheel is heavy or light when the LKAS is not operating.

Cases that the system is not activated

- When the turn signal and the hazard warning lamp are operated for changing the lane
- When both the left and right lanes are not recognized
- When the vehicle is driven on one side of the lane continuously without moving to the center of the lane after changing the lane
- If the steering wheel is operated suddenly for changing the lane (the system is not activated temporarily)
- When the Electronic stability control system (ESP) is activated
- When the vehicle is circling fast on a curved road
- When the vehicle speed is less than 40 km/h and more than 180 km/h
- · When you need to change the lane rapidly
- When the width of the lane is too narrow or too wide so that the lane cannot be detected
- When there are 2 or more lane markings on the lane while driving (example: construction section)
- If the radius of a curved road is too small

- · In case of a steep sloping road
- When the vehicle speed is reduced rapidly
- When the tinted part of the windshield covers a part of the Front Camera Module (FCM) detection range



Warning

Change the lane after operating the turn signal switch.



Caution

 Do not tint the Front Camera Module (FCM) detection area. Doing so may cause the relevant system to malfunction or not to operate.



Cases requiring the driver's attention

In any of the following cases, the system may not operate or may operate unnecessarily. Therefore, the driver's attention is necessary.

- If the lanes are not visible due to foreign substances (rain, snow, dust, puddle, wet road surface)
- If the color of lane markings and the road cannot be distinguished clearly
- If the lane markings are not clear or are damaged or two or more lane markings are present on one side
- If there are markings other than or similar to the lane marking near the lane
- If the lane markings are covered in the shade of median strips, guardrails, noise barriers, other structures or roadside trees
- If there are boundary structures such as sidewalk blocks
- If the lane is crowded due to the construction section or some lanes are replaced with structures

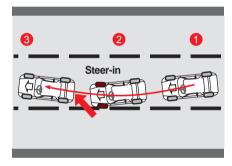
- When the lane suddenly disappears or is invisible on the intersection
- There is a section where the number of lanes increases or decreases or the lanes intersect complicatedly (tollgate entrance, road junction/merge section, etc)
- . If the lane is too narrow or too wide
- If the distance from a vehicle ahead is extremely short or a vehicle ahead is driving while hiding the lane
- There is a marking for a crosswalk or road sign on the road surface
- If the visibility is poor due to bad weather such as fog, heavy rain or heavy snow
- If the visibility is poor so that the lane cannot be recognized
- When the brightness outside the vehicle changes rapidly such as the entering a tunnel
- When the light is weak or the head light of the vehicle is not used at night or in a tunnel section

- When you drive the vehicle on the bus-only lane or on the left or right lane of the bus-only lane
- On a sharply curved section or a steeply sloping road
- · when the vehicle wobbles significantly
- When a reflecting object (white paper or mirror, etc.) is placed on the dashboard
- When the windshield or the front side of the camera lens is contaminated with dust
- When the moisture formed on the glass of the windshield is not removed completely
- When the temperature near the camera is very high due to direct sunlight
- When there is backlight in the moving direction of the vehicle
- When the sunlight, streetlight or the light from an incoming vehicle is reflected by water on the road surface
- When refitting the front camera arbitrarily (Be sure to visit our authorized service center to perform the calibration of the front camera. Otherwise, it may cause the camera to malfunction.)

ELK (Emergency Lane Keeping)*

RKA-ROADEDGE (Lane Keeping Assist-Roadedge)

The RKA-ROADEDGE (Lane Keeping Assist-Roadedge) is a driving assistance system that helps the driver's vehicle maintain a Road-edge through the steering wheel (EPS) control if the front camera module (FCM) recognizes the left and right roads in front and the driver's vehicle departs the Road-edge without using a turn signal in that direction.



- Road-edge departure detected with no turn signal operated
- 2 EPS steering control
- 3 Vehicle enters middle of driving road

A

Warning

 RKA-ROADEDGE is an assist system to precisely control the steering wheel so that the driver's vehicle does not leave the Road-edge, regardless of the driver's intention.

Activation / Deactivation

To activate ELK: Turn the ignition switch on.

To deactivate ELK: Please untick "ELK" in the User Settings on the instrument cluster.

Operating conditions

The RKA-Roadedge system is activated when:

- Vehicle travels at a speed between 60 km/h and 175 km/h
- Front camera recognizes left/right Road-edge
- · Driving on a straight road or gentle curve
- · Turn signal is not activated



Warning

- Do not release your hands from the steering wheel while driving.
- The driver is responsible for safe driving of the vehicle by maneuvering the steering wheel.
- The RKA-Roadedge does not always control the steering wheel automatically.



Warning

- The RKA-Roadedge may be deactivated, not work at all, or activated when it is not desired depending on the road conditions and surrounding environment.
- Never drive the vehicle in a dangerous or reckless manner to test the RKA-Roadedge.
- When replacing the steering wheel systemrelevant parts, have the system checked and serviced at a KG Mobility Dealer or KG Mobility Authorized Service Center.



Caution

- Do not attach sticker, accessory, tinting films on the detection area of the FCM.
 This can cause malfunctions and abnormal operation of the related systems.
- The RKA-Roadedge recognizes the Road-edge by using the images from the cameras. Keep in mind that the RKA-Roadedge may be deactivated or activated when it is not desired if the Road-edge are not recognized successfully.



Caution

- Do not remove any part of the RKA-Roadedge or apply impact on it.
- Do not put any object with reflective surface (white paper, mirror, etc.) on the instrument panel. Reflected lights can cause system malfunction.
- Please note that when driving at high speed, the steering assist force of the RKA-Roadedge may be reduced, which can cause the vehicle to leave the Roadedge.

Does not work when:

- The driver activates the turn signal lamps or hazard warning lamp.
- The vehicle keeps being driven too close to any side of the lane after changing the lane.
- The driver changes the lane with abrupt steering wheel operation. (temporarily system inactivated)
- ESP (Electronic Stability Program) system is activated.
- The vehicle is cornering at high speed.
- Vehicle speed is below 55 km/h or above 180 km/h
- · The driver changes the lane abruptly.
- The lane is too narrow or too wide to recognize it.
- The vehicle is driven around a curve with too small radius.
- The vehicle is driven on steep hills.
- · The vehicle decelerates abruptly.
- The windshield tinting film covers the detection range of the front camera module (FCM).



Warning

 Activate the turn signal lamps before trying to make a lane-change.



Caution

 Do not apply tinting film on the FCM detection area. This may cause the related system to malfunction or not work.



Driver Attention Required

The RKA-ROADEDGE may not work at all or be activated when it is not desired in the following conditions:

- The system cannot recognize the Roadedge markings because of rain, snow, dust, standing water or puddles, other obstruction on the road.
- The color of the Road-edge markings is not clearly distinct from the road color.
- · The Road-edge markings are not clear.
- The Road-edge markings are covered in shadows of the median barriers, guardrails, noise barrier walls, roadside trees.
- There are environmental barriers, such as bollard.

- The Road-edge markings are suddenly discontinued at roundabouts and road intersections
- The vehicle is passing through a certain section, such as highway interchange, where the number of lanes increases or decreases.
- The distance to the vehicle ahead is too short or a wheel of the vehicle ahead is touching the Road-edge marker.
- Poor visibility due to factors such as fog, heavy rain, heavy snow, etc.
- There is rapid change of illumination, for example at tunnel entry and exit points
- The headlamps are not turned on or the brightness of the lamps is too low when driving at night or through tunnels.

- The vehicle is driven on a steep hill or around sharp corners.
- The vehicle is driven under specific conditions which cause severe vibration.
- Objects with reflective surface (white paper, mirror, etc.) are on the dashboard.
- The windshield glass in front of the camera module is covered with ice, snow, slush, mud, dirt or debris.
- · Fog or mist on the windshield.
- The temperature around the front view camera is too high because of the direct sunlight.
- The vehicle is moving towards a light source.
- The light from the sun, streetlamps, or headlamps of oncoming vehicles is reflected by the wet road surface.

TSR (Traffic signal recognition)*

It is the system which recognizes the speed limit of the traffic sign and other major signs.

Sign



Setting

Driver can set the function on the instrument cluster (Cluster Setting \rightarrow Driving Assist) when the vehicle is switched on.





Supervision type



Standard type



Notice

Recognizable Signs

- · Vienna convention sign
- Standard traffic sign, Electronic sign, Prism sign



Caution

- · TSR does not recognize all signs.
- It is possible that recognition is not available due to location, color or dents of sign.

FVSA (Front Vehicle Start Alarm)*

It is a system that notifies the driver when

the driver does not recognize that the ahead vehicle departed while the driver's vehicle is stationary, using the sensor (FCM) at front of the vehicle.

FVSA: Front Vehicle Start Alarm

How To Set

You can enable (check) or disable (uncheck) this feature under the instrument cluster main menu. "User Settings > Driving Assist > Front Vehicle Depart Alert" with the vehicle turned on.

Operation





If the driver does not perform any operation (such as not starting the vehicle) about 1 second after the ahead vehicle departs, the message will be displayed on the LCD and alarm will sound.



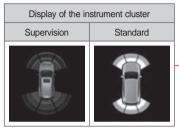
Caution

· For safe driving, be sure to check the front and surrounding road conditions before starting the vehicle.

Parking assist system*

Front/rear obstacle detection system

The front/rear obstacle detection system is a parking assist system that detects an obstacle through the ultrasonic sensor installed on the bumper and informs the driver with a warning buzzer when the driver places the gear shift lever in the D (driving) or the R (reverse) position and drives the vehicle.



The distance from the obstacle is displayed on the instrument cluster along with the warning buzzer.

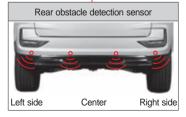
You can turn on or off the front parking assist waring. Lightly touch the front parking assist warning ON/OFF switch to illuminate the front parking assist warning.





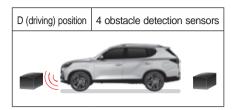


- 4 front obstacle detection sensors
- Activated when moving forward or reversing
- Detects at the vehicle speed of approximately 15 km/h or less
- · 4 rear obstacle detection sensors
- · Activated only when reversing



Activating the obstacle detection system

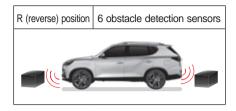
When an obstacle is detected through the front/ rear obstacle detection sensor, the distance from the obstacle and the direction are displayed along with a warning buzzer according to the detected distance.



If the transmission selector lever is in the D (drive) position, the detection sensor operates when:

- Vehicle starts to move after initial start (at vehicle speed of 15 km/h or lower).
- Transmission selector lever is changed from R (reverse) position to D (drive) position (at vehicle speed of 15 km/h or lower).
- Front obstacle detection warning switch is turned on (at vehicle speed of 15 km/h or lower).

However, it will remain off after the vehicle speed exceeds 15 km/h.



When the gear shift lever is placed in the R (reverse) position, 2 front obstacle detection sensors and 4 rear obstacle detection sensors are activated at the same time.

Notice

- Even if the front parking assist warning ON/OFF switch in the OFF position (indicator off), the front obstacle detection sensor operates when reversing the vehicle.
- An alarm may sound intermittently in the event of rain and this is not a malfunction but normal operation.

Indication on the display of the instrument cluster

When an obstacle is detected, the relevant edge indicating the detection distance and direction blinks.

Standard type



Display of the instrument cluster		
D (driving) position	R (reverse) position	



When no obstacle is detected



The range of front and rear sensors is displayed and blinks (no warning buzzer)

If an obstacle is detected from 40 cm at the front left side or the front right side



Line No. 1 at the front left side is deleted and Line No. 2 blinks (Warning buzzer sounds)

If an obstacle is detected from 80 cm at the rear left side, front side or right side



Line No. 3 at the rear right side is deleted and Line No. 4 blinks (Warning buzzer sounds)

Warning buzzer interval

The warning buzzer sounds as follows depending on the distance from the obstacle.

Front obstacle detection sensor (level 2 warning buzzer)

Warning buzzer interval	Distance from the obstacle	
	Center	Side
No warning buzzer	100 cm	60 cm
1 0.15 second	50 cm ~ 100 cm	40 cm ~ 60 cm
2 Continuous	25 cm ~ 50 cm	25 cm ~ 40 cm

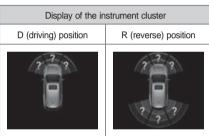
Rear obstacle detection sensor (Level 3 warning buzzer)

Warning buzzer interval	Distance from the obstacle	
	Center	Side
3 0.3 second	80 cm ~ 120 cm	-
4 0.15 second	50 cm ~ 80 cm	
5 Continuous	25 cm ~ 50 cm	

Sensor and relevant system malfunction

Standard type





When the obstacle detection sensor is abnormal, "?" is displayed for the relevant sensor. If this message is display on the display of the instrument cluster, have your vehicle checked and serviced at a nearby KG Mobility authorized service center.

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Caution

- If the distance between the sensor and the obstacle is 25 cm or less, the warning buzzer does not sound. However, if the obstacle is recognized clearly, the warning buzzer may sound.
- When the warning buzzer sounds, the distance from the obstacle may be different from the actual distance by approximately + 10 cm.
- Do not rely too much on the parking assist system and reverse the vehicle while checking the rear side.
- If an abnormal warning buzzer whose duration is different from a warning buzzer that occurs due to the detection of an obstacle or a long warning buzzer for 3 seconds occur when the gear shift lever is placed in the R (reverse) position, the obstacle detection system or the detection sensor is abnormal. Have your vehicle checked.

If the system does not operate or malfunctions

If there is an object that cannot be detected by the sensor

- · A thin object such as steel wire, rope or chain
- An object such as cotton, sponge, fiber or snow that absorbs sound waves
- An object that is located lower than the bumper (example : drainage or puddle)

The sensor cannot detect

- when the sensor is frozen (the normal function is restored after thawed.)
- When sensor is clogged by foreign materials such as snow, mud or water drops (the normal function is restored after removed)

When the sensor detection range becomes narrower

- The sensor is partially covered with snow or mud so that the signal detection area becomes narrower (the normal function is restored after removal)
- When the temperature near the sensor is extremely high or low

Cases that may cause malfunction although it is not a system failure

- Driving the vehicle on bumpy roads, gravel roads, hillside road, or grass
- When the height of the bumper is lowered due to heavy load
- When other ultrasound waves are received (metallic sound, air brake sound of a large vehicle, etc)
- When a high-power radio set is used
- · When there is a heavy rain
- When an accessory is attached to or near the area where the sensor is installed

When towing a trailer

• The sensor may detect the trailer, sounding the warning buzzer continuously.

Cautions regarding the front/rear obstacle detection system



Caution

- When parking or reversing the vehicle, check if there is any person, animal or especially a child around. If you cannot check it properly, be sure to get out of the vehicle and check.
- The parking assist system is only a system for the user's convenience and this system does not guarantee safety. The driver should pay attention to all possible conditions.
- When you strongly press or apply an impact to the sensor part on the bumper or strong water pressure is applied during car wash, the sensor may be damaged.
- When the system is normal and the gear shift lever is placed in the R (reverse) position with the START/STOP switch in the ON status, a beep sounds once briefly.
- If an abnormal warning buzzer whose duration is different from a warning buzzer that occurs due to the detection of an obstacle or a long warning buzzer for 3 seconds occur when the gear shift lever is placed in the R (reverse) position, the obstacle detection system or the detection sensor is abnormal. Have your vehicle checked.

 In the parking space shown in the figure below, the upper portion of the vehicle may collide before the detection sensor at the bottom operates. Park the vehicle while checking through the outside rearview mirror or turning your head directly.



Rear camera system

The rear camera system is an auxiliary safety system that allows the driver to view the situation behind the vehicle through the rear camera using the monitor when the gear shift lever is placed in the R (reverse) position.









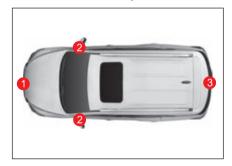


- · The rear camera uses a wide-angle lens to secure a wide view, so the actual distance is different from what you see through the monitor. Be sure to check the rear, left and right view directly.
- · The screen shown on the monitor is a part of, not the whole background view of the vehicle.
- · Clean the rear camera lens frequently using a camera lens cleaner to prevent it from being contaminated.

Around View Monitoring (AVM) system

The AVM system is a parking assist system that helps the driver to park the vehicle safely by allowing the driver to view the outside situation in the vehicle through the monitor.

The driver can see the information received from 4 cameras installed on the exterior of the vehicle through the monitor. The driver can activate 3D view and check the outside of the vehicle in the desired direction if necessary.



- Front camera
- 2 Left/right camera
- Rear camera







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Caution

- The AVM system combines 4 camera images and displays the combined image on the monitor. Therefore, the actual position of the vehicle and parking guide line are different from those shown in the screen. When parking the vehicle, be sure to check the rear, left and right view directly for safety.
- Since the AVM camera uses a wide-angle lens for securing wide view, the actual distance may be different from what you see through the monitor. Be sure to check the rear, left and right view directly for safety.
- If the surface of the camera lens is contaminated by foreign materials, a system error may occur due to performance degradation. Always keep the lens clean.

Activation conditions

When the following condition is met, the AVM system is activated.

- When the START/STOP switch is in the ON status or the engine is running
- · When the vehicle speed is less than 20 km/h
- When the around view operation switch is turned on with the gear shift lever in P (parking), R (reverse), N (neutral) or D (driving) position

Notice

- If the gear shift lever is placed in the R (reverse) position, the AVM system is activated regardless of the switch ON/OFF status.
- If the gear shift lever is in the P (parking) position, the AVM system is activated, but the previous view is displayed on the monitor.
- When you drive the vehicle at a speed of approximately 20km/h or more with the front AVM activated, the AVM is deactivated. Even if the vehicle speed decreases to approximately 20km/h or less in this status, the AVM system remains deactivated.

AVM settings

To move to the AVM setting screen, press Setup

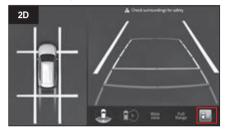
→ Display → Camera button in screen.



- PGS guidelines linkage: Sets the PGS guidelines linkage function ON/OFF.
- PAS proximity warning display: Sets PAS proximity warning display ON/OFF.
- End in 5 sec: camera view ends 5sec later from driver moves gear to the P (Only Smart audio has this option)

How to operate AVM

- With the ignition ON and the electronic shifting lever in the N (neutral) or D (drive) position, pressing the (camera) button will activate the front AVM system.
- When the ignition is on and the electronic shifting lever is in the R (reverse) position, the rear AVM system is activated.





 You can switch between the 2D and 3D screens in real time by just pushing the 2D or 3D icon.





- · Screen display at 2D mode
 - In the normal view, the front, rear, left and right screens are displayed.
 - In the wide view, only the front and rear screens are displayed. (When the left or right screen is selected, it is switched to the normal view mode.)
 - In the full range view, only the front and rear screens are displayed. (When the left or right screen is selected, it is switched to the normal view mode.)

Notice

 The rear guideline is not displayed in full range view mode.



- Screen display at 3D mode
 - The screen is displayed in 360° depending on whether you select the front, rear, left or right screen.

Notice

- The 360° screen allows you to identify objects around you.
- The screen rotates only to the side, not up and down.
- The full range view icon is displayed on the screen, but it is disabled.
- To activate the full range view, you must first switch to a 2D mode.

Double parking (2-row parking)

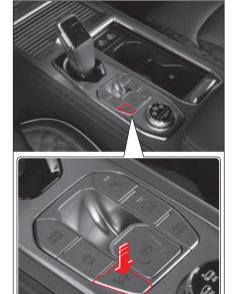
Since double parking (2-row parking) is required due to insufficient parking space, operate as follows.

1 With the START/STOP switch in the ON status or while the engine is running, release the Electronic Parking Brake (EPB).



Notice

 If the AUTO HOLD function is activated, the EPB is activated automatically. Be sure to deactivate the function by pressing the AUTO HOLD switch before carrying out the process. Press the P (park) release switch while depressing the brake pedal within 30 seconds of turning the ignition switch OFF.



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Warning

- Be sure to carry out double parking (2-row parking) on completely flat ground and take a separate measure such as placing a chock on the wheels. Failure to do so may cause the vehicle to move, that is very dangerous.
- When using an automatic car washer, etc. in double parking mode, i.e. with the gear selector lever in the N (neutral) position, never press the P (park) button. If you drive the vehicle into a car wash with the gear selector lever in the P (parking) position, problems may occur in your vehicle, automatic car washer and etc.

5. Emergency Measures in the Event of Emergency

You can check useful information and emergency measures for various emergency situations you can face while driving.

Information regarding the warning triangle and OVM tools, the correct procedurein case of a dead battery, engine overheating, flat tire, and towing a vehicle is provided. An explanation is also provided for how to respond to a fire, heavy snow, vehicle trouble, and an accident safely.

Warning triangle and OVM (Owner Vehicle Maintenance) tools

Warning triangle*

A warning triangle is a stop sign that should be placed in the rear side of the vehicle in order to prevent any secondary accidents in the event of emergency such as car trouble or the occurrence of an accident.

Carrying and placement of a warning triangle is mandatory by the Road Traffic Act. A fine is imposed if you violate it.

Storage place of the warning triangle



The warning triangle is stored at the bottom of the luggage board.

A

Caution

- The KS standard automotive warning triangle (sign of broken down vehicle) should be stored in the vehicle according to the Road Traffic Act. Failure to do so is subject to a fine.
- While paying particular attention to surrounding traffic conditions, place the warning triangle in a position where its reflecting plate can be clearly visible to vehicles approaching from the rear.
- Place a road flare in addition to the warning triangle at night.
- If your vehicle becomes operational again or the problem is fixed, move the vehicle promptly while paying particular attention to the traffic conditions.

OVM tools

The OVM tools are apparatuses or tools stored in the vehicle in preparation for a failure or an emergency situation that can occur while driving the vehicle.



- Air hose
- 2 Positive (+) cable
- 3 Negative (-) cable
- 4 Compressor (managing the tire pressure and injecting sealant in case of a flat tire)
- **5** Sealant (Emergency sealing compound in case of a flat tire)
- 6 Spanner
- Screwdriver (+ and -)
- 8 Vehicle towing hook
- Tool roll pouch
- 10 Jack
- Wheel nut wrench
- Jack connection
- Spare tire: 6, 7, 8, 9, 10, 11, 12
- Service kit: 1, 2, 3, 4, 5, 6, 7, 8, 9

(1) CE

- Representative: KG Mobility European Parts Center B.V.
- Address: IABC 5253&5254, 4814RD Breda, The Netherlands

(2) UKCA

- Importer: KG Mobility UK Ltd
- Address: G Offices, Parsonage Road, Stratton St. Margaret, Swindon, Wiltshire SN3 4RN

Location where the OVM tools are stored



The OVM tools are stored in the storage box at the rear left side of the luggage compartment.

Take out and use the OVM tools any time when necessary.

When the engine cannot be started due to depletion of the battery

If the engine cannot be started due to depletion of the battery, you can start the engine by connecting a battery of the same standard and capacity from another vehicle or an auxiliary battery to your battery using the jump cable.

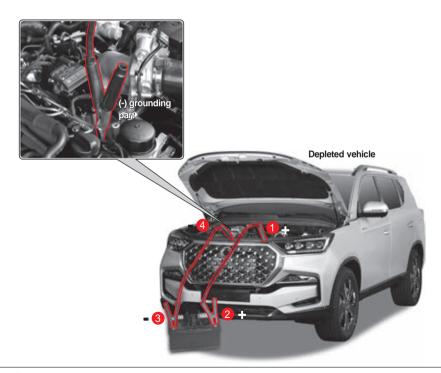
Starting the engine using the jump cable

Move another vehicle that has the same 12 V power or an auxiliary battery closely to the depleted battery that can be reached by the jump cable and start the engine according to the following order.

- 1 Switch off all electrical accessories of the depleted vehicle.
- Place the gear shift lever of the depleted vehicle in the P (parking) position and apply the parking brake.
- 3 Connect the jump cable in the following order.
 - + terminal (1) of the depleted battery
 - + terminal (2) of the battery in another vehicle or an auxiliary battery that provides power supply
 - terminal (3) of the battery in another vehicle or an auxiliary battery that provides power supply
 - Vehicle body of the depleted vehicle (4)
 (a location far from the battery)

- 4 If the battery of another vehicle is used, start the engine of the relevant vehicle and idle the engine for several minutes.
- 5 Start the engine of the depleted vehicle.

- When the engine is started, separate the jump cable in the following order.
 - Jump cable connected to the minus (–) terminal
 - Jump cable connected to the positive (+) terminal



Δ

Warning

- Follow the procedure to start the engine using the jump cable explained in this owner's manual. Failure to do so may cause an injury or damage the vehicle due to a battery explosion.
- If the battery is frozen, do not attempt to start the engine using the jump cable.
 Doing so may lead the battery to burst or explode, causing serious injury.
- Be sure to wear insulated gloves for starting the engine using the jump cable to prevent an electric shock.
- Make sure that two vehicles do not come into contact with each other. Failure to do so may result in ground connection status, causing an electric shock and a vehicle failure.
- Be sure to use the jump cable of the specified standard and a battery of the same standard and capacity. Failure to do so may cause a spark when the jump cables are connected and gas generated from the battery may explode.
- When using the battery of another vehicle, connect the jump cable with the engine of the other vehicle turned off for safety.
- When connecting the jump cables, make sure that the positive (+) and negative (-) cables do not come into contact with each other. Otherwise, an electric spark may occur, resulting in the explosion of the battery.

- Do not connect the jump cable to the negative (-) terminal of the depleted battery directly. Otherwise, an electric spark may occur, resulting in the explosion of the battery. Be sure to connect the jump cable to the vehicle body of the depleted vehicle.
- Make sure that the jump cables are securely fixed to each terminal. Failure to do so may cause disconnection due to an instantaneous vibration when the engine is started. If the jump cable is separated and comes into contact with the vehicle body, an electric shock may be applied to the vehicle, damaging electric and electronic components.
- The battery fluid is very acidic, so If it comes into contact with your eyes or on your skin, take off the clothes that are stained with the battery fluid immediately, rinse the contacted area with clean water continuously and contact your doctor. While being transported to a hospital, gently wipe the contacted area with a water-wet soft cloth or sponge continuously.



Caution

- Make sure when starting the engine that the jump cable is not wound around the fan in the engine room.
- After starting the engine using the jump cable, do not turn off the engine for a certain period of time to allow the depleted battery to be recharged. Otherwise, you may not be able to start the engine again according to the charging status of the battery.
- If the cause of the depleted battery is not clear, have your vehicle checked at a KG Mobility authorized service center.

5-5

When the engine is overheated or other problems have occurred

When the engine is overheated so that the warning light turns on



When the engine is overheated, various symptoms appear such as the warning light turns on and steam comes out from the engine.

In such case, park your vehicle at a safe place immediately and take the necessary action.



Symptoms that appear when the engine is overheated

- The engine overheat warning lamp blinks and the warning buzzer sounds.
- The coolant temperature gauge indicates the H part.
- · Steam comes out from the engine.
- · A decrease in the engine output

Emergency measures when the engine is overheated

Place the warning triangle at the rear side of the vehicle, evacuate all occupants to a safe place, check for safety again if necessary and take emergency measures according to the following procedure.

- 1 Place the gear shift lever in the P (parking) position and apply the parking brake.
- 2 Turn off the heater and the air conditioner.
- 3 Open the engine hood so that the engine room can be well ventilated.

At this time, if steam comes out of the engine, turn off the engine immediately.

If steam does not come out, idle the engine continuously with the engine hood opened.

If the coolant temperature gauge does not go down while the engine is idling, turn off the engine and let it cool down properly. 4 Check the coolant level on the coolant reservoir.

If the coolant level is low, add coolant and check if a leak occurs from the connecting part of each hose and the radiator.

Cover the reservoir cap with a cloth, turn it a little bit to release steam pressure, remove the cap and add the coolant. Close the reservoir cap after adding the coolant.

If the engine is overheated when the coolant level is normal, have the cooling systems (including the electric fan) and belts checked and serviced at a KG Mobility authorized service center.



Warning

- Caution should be taken that hot steam or coolant may come out when you open the engine hood.
- Be careful not to allow your clothes or hands to come into contact with the driving parts (belts, etc.) of the engine when you open the engine hood while the engine is running.
- Do not open the coolant reservoir cap rapidly when the engine is hot. Hot steam or water may come out, causing a burn.
 Be sure to open the coolant reservoir cap slowly after the engine is turned off and the engine has been cooled down properly.



Caution

- If the engine is overheated with insufficient coolant, turn off the engine immediately, cool down the engine and add coolant.
- Do not add cold coolant suddenly when the engine is overheated. Doing so may damage the engine or the radiator.
- Only use the KG Mobility genuine coolant that meets the standard.
- If the engine is overheated continuously after taking the emergency measures, have your vehicle checked and serviced at a KG Mobility authorized service center.

Accident or fire



If your vehicle catches on fire, don't panic. Evacuate any occupants and use the extinguisher.

Accident

Turn on the emergency hazard warning switch. If possible, move your vehicle to a safe place to avoid any secondary accidents. If anyone is injured, call an ambulance and contact the nearest police station.

Fire

Stop immediately in a safe place. Turn off the engine. Use fire extinguishers to put out the fire. If it is impossible to extinguish the fire, contact the nearest fire or police station.



Warning

- In an accident, fuel can be released from the vehicle. Therefore, stop the engine and avoid any sparks or flames.
- If you have even a minor burn, see your doctor.

When the engine check indicator turns on



The engine check indicator turns on when various sensors (including automatic transmission) and equipment related to the engine control are abnormal.

If the engine check indicator turns on while driving, have your vehicle checked and serviced at a KG Mobility authorized service center.

Refer to "Emission reduction device" (p.6-61)



Caution

 If the engine check indicator turns on, the driving power of the engine may decrease or the engine may stall.

When the water separator warning light turns on (diesel-powered vehicle)



If water in the fuel filter exceeds a prescribed level, the water separator warning light turns on and the driving force of the engine decreases in addition to the warning buzzer.

At this time, water should be removed from the fuel filter immediately.

Have your vehicle checked and serviced at a nearby KG Mobility authorized service center.



Caution

- Driving the vehicle continuously with the water separator warning light turned on may damage the vehicle fuel system and the engine significantly.
- If low quality fuel that contains a large amount of water is used, water may be accumulated faster in the fuel filter, turning on the water separator warning light. Never use low quality fuel.

When a tire is flat



If a tire becomes flat while driving, do not panic and take action according to the following order.

- 1 Turn on the hazard warning lamp indicator.
- 2 Stop the vehicle at a safe place.
 For such purpose, hold the steering wheel firmly, take your foot off the accelerator pedal, decelerate the vehicle slowly and
 - firmly, take your foot off the accelerator pedal, decelerate the vehicle slowly and depress the brake pedal slightly to stop the vehicle safely.
- 3 Place the gear shift lever in the P (parking) position and apply the parking brake.
- 4 Place a chock in front of and at the back of the tires located in the diagonal direction of the flat tire.

- 5 Be sure to place the warning triangle on a road or an expressway where other vehicles are driving.
 - The position that is easily identified by a driver in an approaching vehicle while maintaining a safe distance (100 m during daytime, 200 m in the rear during night time) is an appropriate place to place the warning triangle.
- 6 If there are other occupants besides the driver, evacuate such occupants to a safe place.
- 7 Judge if the flat tire can be repaired using the service kit for tire repair (stored in the storage box of the luggage compartment) and take the necessary action accordingly.



Warning

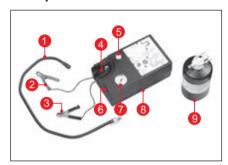
- If a tire becomes flat while driving, do not steer the vehicle or depress the brake suddenly. Doing so may cause the vehicle to lose its stability, leading to an accident.
- Do not drive the vehicle for even a short distance with a flat tire. Doing so may damage the wheels and disable normal driving, leading to a dangerous situation.
- Turn on the hazard warning lamp indicator, move the vehicle to the shoulder of the road or a safe location and place the warning triangle in a place easily identified by a driver in an approaching vehicle.
- If possible, park the vehicle on a flat, solid, and non-slippery road surface and repair the tire with no occupants in the vehicle.

Notice

 If you are not good at repairing a flat tire, request a KG Mobility authorized service center or your auto insurance company for help.

Repairing a flat tire/inflating a tire using the service kit for tire repair

Components of the service kit for tire repair



- Air hose
- Positive (+) cable
- 3 Negative (-) cable
- Sealant installation part
- 6 Air release switch
- 6 Compressor
- Sealant
- 8 Power switch
- Pressure gauge

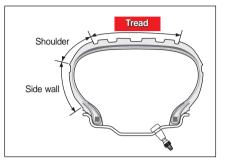
Storage location of the service kit



The service kit for tire repair is stored in the storage box at the rear left side of the luggage compartment with the OVM tools.

Refer to "Warning triangle and OVM (Owner Vehicle Maintenance) tools" (p.5-2)

Confirming whether it is possible to repair the flat tire with the service kit or not



When a tire is flat, check the position of the hole first and use the service kit after judging whether it can be repaired using the service kit or not.

 If the size of the hole on the tread of the tire is less than 6 mm, it can be repaired using the service kit.



Warning

 Do not repair the tire using the service kit if the tire shoulder or the side wallis torn or there is a sign of cracks or damage. In such case, have the tire checked and serviced at a KG Mobility authorized service center or contact your car insurance company.

Operating principle of the service kit

When the vehicle is driven after the sealant is injected using the compressor, the sealant is spread on the inner surface of the tire, filling up the hole and enabling temporary driving.





Repairing a flat tire

When a tire is flat, it can be repaired in the following method using the service kit.

Take out the service kit from the storage box at the rear left side of the luggage compartment.



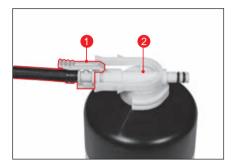
Detach the speed limit sticker from the bottom surface of the sealant container and attach it to the steering wheel.





· The speed limit sticker alerts the driver that the tire has been repaired using the service kit and the speed should be limited. Do not drive the vehicle at a speed faster than 80 km/h at any time.

3 Connect the air hose (1) of the service kit to the connecting part of the sealant container (2).



- Caution
- · Check the expiration date of the sealant. The expiration date is marked on top of the sealant. Replace expired sealant with a new one since the sealing performance of the expired sealant may be degraded.
- · Be sure to read the cautions on the container before using the sealant.
 - Notice

· Before using the sealant, shake the container well to mix the contents.

✓ Fix the sealant container onto the compressor body completely.



- Remove the air valve cap of the flat tire.
- Connect the air hose of the sealant container to the air valve on the flat tire firmly.





· The power switch of the service kit should be in the OFF position.

7 Connect the + (red) (1) cable of the service kit to the vehicle battery and then connect the - (black) (2) cable.



Warning

Use caution when connecting the cables.
 Sparks may occur.

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Caution

- Connecting the positive (+) and negative (-) terminals of the battery in reverse may result in damage to the battery and the tire service kit. Be sure to connect the cables in the correct order.
- Be sure to start with removing the negative (-) terminal (black cable) when disconnecting the cables.

3 Start the engine.

Warning

- Be sure to repair a tire in a well-ventilated area. Failure to do so may lead to suffocation due to exhaust gas after starting the engine.
- 9 Press the power switch of the service kit to activate the compressor.



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Caution

 Do not operate the compressor for more than 10 minutes. Doing so may overheat the compressor, leading to a malfunction. Wait until the pressure reaches the prescribed pressure (34psi, 2.3bar) while checking the pressure gauge of the service kit.



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Warning

- If the specified tire pressure is not reached within 8 minutes (however, current tire pressure has reached at least 26 psi), reinflate the tire as described below:
 - Stop using the service kit and remove the sealant from the compressor.
 - Place the service kit back in place (bottom of the luggage compartment board).
 - Drive the vehicle at low speed for about 10 m so that the sealant is applied on the inner surface of the tire evenly.
 - 4. Fit the air injection hose at the compressor to the flat tire.
 - Connect the power cable at the bottom of the compressor to the vehicle battery.
 - 6. Start the engine to operate the compressor.
 - Operate the compressor until the tire pressure reaches to the specified value (34 psi, 2.3 bar).

If the tire is overinflated, press the air pressure release button to adjust the tire pressure.



11 When the prescribed pressure is reached, turn off the service kit.



Caution

- If the tire pressure does not go above 26psi after operating the compressor for more than 10 minutes, the tire cannot be repaired using the service kit. Request an emergency rescue service or vehicle towing.
- 12 Disconnect the air hose from the tire.
- 13 Install the air valve cap on the tire.
- 14 Turn off the engine.
- Remove the sealant container and the air hose from the service kit and place the service kit back to its original position (storage box at the rear left side of the luggage compartment).

- 16 Drive the vehicle immediately for approximately 10 km to allow the sealant to be spread on the inner surface of the tire evenly.
- 17 Stop the vehicle at a safe place and measure the tire pressure with the service kit



Warning

- Use the service kit only when a small hole (approximately 6 mm or less) has occurred on the tread of the tire.
- Do not use the service kit if the tire shoulder or side wall is torn or the hole is too large. In such case, have your vehicle towed or serviced at a KG Mobility authorized service center.
- When a tire repaired using the service kit is fixed, drive the vehicle at a speed less than 80 km/h.
- The service kit should be used only for temporary repair. The maximum distance that can be traveled with a tire repaired by injecting sealant is approximately 200 km.
- If a vibration occurs or the steering is unstable and a noise occurs while driving, stop driving the vehicle immediately. In such case, have your vehicle serviced at a KG Mobility authorized service center.



Caution

- Remove the sealant container carefully to prevent the sealant from coming into contact with your skin. If sealant comes into contact with your skin, wash it with soapy water.
- The sealant container cannot be used after it is used once. Just in case, purchase and replace with new sealant.
- Do not discard the used sealant container anywhere. Return it to a KG Mobility authorized service center.
- Do not use an unauthorized sealant which is not KG Mobility genuine sealant. Doing so may damage the sensor of the TPMS.
- Replace the tire repaired using the sealant with a new one at a KG Mobility authorized service center as soon as possible and have the TPMS checked for abnormality.
 - Refer to "Tire pressure monitoring system (TPMS)*" (p.2-28)

Checking the tire treasure after repairing a flat tire

The pressure of the tire repaired using the service kit should be checked as follows after driving for approximately 10 km.

- 1 Take out the service kit from the storage box at the rear left side of the luggage compartment.
- 2 Take out the air hose from the service kit.
- Remove the air valve cap of the tire.
- 4 Connect the air hose of the service kit to the air valve on the tire firmly.
- 5 Check the tire pressure from the pressure gauge of the service kit.
 If the tire pressure is higher or lower than the prescribed pressure (34psi, 2.3bar), adjust it to the prescribed pressure using the air valve of the tire.



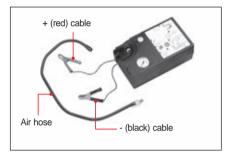
Warning

 If the tire pressure is not maintained at the prescribed pressure (34psi, 2.3bar), stop driving the vehicle immediately and request a KG Mobility authorized service for help.

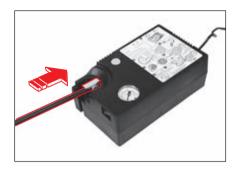
Inflating a tire

When the tire pressure is insufficient, you can inflate the tire to the prescribed pressure with the following method using the service kit.

- 1 Take out the service kit from the storage box at the rear left side of the luggage compartment.
- Take out the air hose and (+) red / (-) black cables from the bottom of the service kit box.



3 Connect the air hose to the compressor in the service kit.



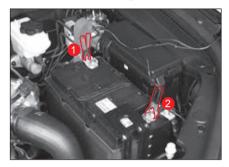
- Remove the air valve cap of the tire you wish to inflate.
- Connect the air hose of the service kit to the air valve on the tire firmly.



Caution

· The power switch of the service kit should be in the OFF position.

Connect the + (red) (1) cable of the service kit to the vehicle battery and then connect the - (black) (2) cable.



Warning

· Use caution when connecting the cables. Sparks may occur.



Caution

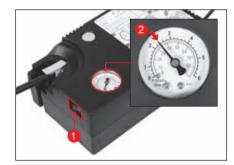
- . Connecting the positive (+) and negative (-) terminals of the battery in reverse may result in damage to the battery and the tire service kit. Be sure to connect the cables in the correct order.
- · Be sure to start with removing the negative (-) terminal (black cable) when disconnecting the cables.

Start the engine.



Warning

- · Be sure to repair a tire in a well-ventilated area. Failure to do so may lead to suffocation due to exhaust gas after starting the engine.
- Press the power switch (1) of the service kit to activate the compressor.
- Wait until the pressure reaches the prescribed pressure (34psi, 2.3bar) while checking the pressure gauge (2) of the service kit.



If the tire is overinflated, press the air pressure release button to adjust the tire pressure.



When the prescribed pressure is reached, press the power switch (1) of the service kit to turn it off.



Caution

- Do not operate the compressor for more than 10 minutes. Doing so may overheat the compressor, leading to a malfunction.
- 11 Turn off the engine.
- 12 Disconnect the air hose from the tire.
- 13 Install the air valve cap on the tire.
- 14 Place the service kit back to its original position (storage box at the rear left side of the luggage compartment).

Removing the spare tire



- Insert the connection rod in the hole located in the upper center of the bumper after opening the tailgate, and then connect the wheel nut wrench to it.
- 2 Turn the wheel nut wrench counterclockwise to lower the spare tire.
- 3 When the spare tire is on the ground, remove the tire by prying off the lift plate.



Caution

- When reinstalling the spare tire to the carrier, be sure to securely lock it to the carrier holder.
- While your vehicle is being raised up with the jack, avoid any impact on your vehicle. Otherwise, you may get injured.



Warning

 The emergency spare tire is only for emergency situations. Never use it for normal driving. After installing the spare tire on a wheel, take your vehicle to a KG Mobility authorized service center or a tirespecialized shop to replace it with a new regular tire.

Changing a spare tire



1 Chock the front and rear of the wheel diagonally opposite to the wheel being changed.



Warning

 The parking brake should always be applied when replacing the flat tire. 2 Loosen the wheel nuts two or three turns by turning them counterclockwise with the wheel nut wrench.



Caution

 When reinstalling the wheel cap, be sure to completely fit it into its location.



Warning

- Do not remove the nuts yet from the wheel.
 If they are removed, the wheel could slip
 off from the vehicle. Then, the body of the
 vehicle will fall down on you and you may
 get seriously injured.
- · Loosen the wheel nuts two or three turns.
- The parking brake should always be applied when replacing the flat tire.
- Chock the front and rear of the wheel opposite to the wheel being changed.

When replacing a front tire



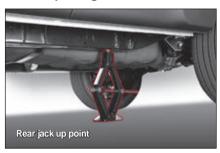
3 Place the jack directly under the jack-up points so that the top of the jack contacts the vehicle at the jack-up point.

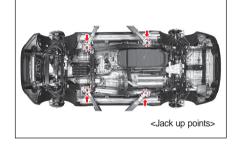


Warning

- The jack should be used on level firm ground wherever possible.
- It is recommended that the wheels of the vehicle be chocked, and that no person should remain in a vehicle that is being iacked.
- No person should place any portion of their body under a vehicle that is supported by a jack.
- · Jack working load limit 1,300 kg.

When replacing a rear tire







- 4 Combine the jack, jack extension and the wheel nut wrench as shown in the figure. Raise up the vehicle by rotating the combined wrench clockwise until the tire is off from the ground about 3 cm.
- 5 Remove the wheel nuts by hands while the vehicle is stationary. Remove all of the wheel nuts.

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Warning

 Do not attempt to raise the vehicle until the jack is in the proper position, and secure both to the vehicle and the ground. It may cause a personal injury or vehicle damage.



Take the wheel off and place the wheel under the vehicle body. This helps to minimize any danger if the jack slip off position.



7 Then mount the spare tire and temporarily tighten the wheel nuts until the spare tire wheel is no longer loose.



Warning

- By tightening up the spare tire until it is not loose any more, you can avoid any tilting of the tire on the wheel hub when the tire touches the ground.
- 8 Lower the vehicle by rotating the combined wrench counter-clockwise until the tire touches the ground. Remove the jack.



Warning

 While the jack is supporting your vehicle, do not use too much force to tighten the nuts. Otherwise, the vehicle may slip off and you may get injured.

- 9 Tighten the wheel nuts in 2 or 3 steps with the sequence as shown in the figure.
- When done with mounting the spare tire, place the flat tire in the luggage room. Store the jack and other emergency tools in their storages.



If over tightened, the wheel nuts could be damaged. Do not overtighten the wheel nuts by pressing the wheel nut wrench by foot or using an assist pipe.



Caution

- After changing the tire and driving the vehicle about 1000 km, retighten the wheel nuts.
 - Wheel nut tightening torque: 120 ~ 140 Nm



Warning

- With the emergency spare tire, do not drive any faster than 60 km/h.
- The temporary spare tire is only for emergency situations. Never use it for normal driving. After installing the spare tire on a wheel, take your vehicle to a KG Mobility authorized service center or a tirespecialized shop to replace it with a new regular tire.
- Improperly tightened wheel nuts can cause the wheel to become loose and even come off or any malfunctioning in the steering and braking system.
- This could lead to an accident. Be sure to tighten the wheel nuts as specified. If the wheel comes off due to a loose wheel nut, you may have a fatal accident.
- Using different tires could cause you to lose control while driving. Be sure to use the same size and type tires from the same manufacturer on all wheels.

Cautions when changing the tire



Caution

- ▶ Before changing the tire
- Turn on hazard flashers and move off the road to a safe place away from traffic. Park on a firm and level ground.
- Set up the jack at the specified position.
 Never get under the vehicle while it is supported by the jack. While the vehicle is on the jack, never start or run the engine or push the vehicle.
- Have all passengers get out of the vehicle and stay in a place away from traffic.
- ► During changing the tire
- Do not completely tighten the wheel nuts at a time. Tighten the wheel nuts in the diagonal sequence in 2 or 3 steps.
- Never apply oil or grease to either wheel studs or nuts as it will cause them to overtighten.

- ► After changing the tire
- Check, repair, and retighten the replaced tire at the nearest KG Mobility Authorized Service Center or a qualified tire shop after an emergency change.
- Securely fix the tire in its carrier. Check to see if the spare tire is securely locked into the carrier without any looseness.
 Otherwise, it may make some abnormal noises or fall out from the carrier on the road while the vehicle is moving. This may cause an accident or hit a pedestrian.
- If this happens, the fallen tire can be a great danger to other vehicles or people. Check the tightness of the wheel nuts and tire pressure before driving.
- The spare tire is designed as an emergency spare only. Do not exceed 60 km/h speed when the spare tire is installed on the vehicle.



Caution

- Repair or change the flat tire. Stow the emergency tire in its location properly.
- Make sure to check the tightness and inflation pressure of tires before driving.
- In the vehicle equipped with TPMS, the TPMS warning lamp comes on and TPMS does not work when installing the emergency tire.



Warning

- Make sure that tighten the wheel nuts again after driving of about 1,000 km when the tires have been replaced.
- Drive the vehicle at the speed of 60km/h
 or less (maximum speed 80 km; maximum
 distance 200 km) when the vehicle is driven
 with the spare tire.
- Drive the vehicle in 2H mode when the spare tire is fitted. When driving in 4H mode, it will damage the drive system.
- Be sure to use the same size and type tires
 of the same manufacturer on all wheels
 so that the vehicle characteristics can be
 maintained safely.

When you need to have your vehicle towed

Towing a disabled vehicle



· Towing with front wheels on ground



· Towing with rear wheels on ground



Doll

Towing with tow truck

The best towing method is to lift the entire vehicle onto the flatbed so that all wheels are off the ground. If it is impossible, put the front or rear wheels on the jig and tow the vehicle using a dolly, with other wheels off the ground.

For 4WD vehicle

Your vehicle must be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground.

A

Warning

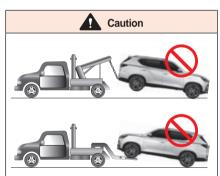
- The 4WD system equipped vehicle should never be towed with the wheels on the ground. This can cause serious damage to the transmission or the 4WD system.
- If your vehicle should be towed due to wheel slips in mud or sand, you can use the towing hooks in your vehicle. However, if the load to hooks is too heavy, the towing hook, rope or chain could be broken, resulting in serious personal injury and vehicle damage.
- To prevent damage to your vehicle, proper lifting and towing procedures are necessary. When you need a towing service, contact KG Mobility Dealer or KG Mobility Authorized Service Center.

For 2WD vehicles

It is not allowed to use a tow truck or keep the rear wheels from moving with the parking brake released for towing, as shown in the following figure.

Do not tow the vehicle with the rear wheels on the ground.





- Do not tow with the sling-type equipment or the bumper and lower parts can be damaged.
- If the vehicle is towed with the driving wheels on the ground, the transmission may be damaged.
- Be careful not to damage the bumper and lower parts during towing.

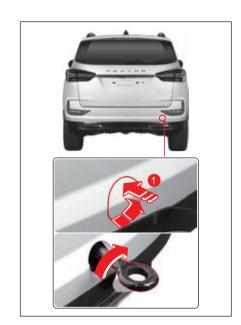
When a tow truck is unavailable (in case of emergency)

If your vehicle needs to be towed when a tow truck is unavailable, you can have your vehicle towed by installing the towing hook to a towing vehicle and the vehicle to be towed and connecting the two vehicles with the towing rope (sold separately).

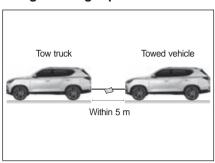
Installing the towing hook

- 1 Take out the towing hooks from the OVM tools stored in the storage box at the rear left side of the luggage compartment.
- Press the bottom side (1) of the hole cover located in the front bumper of the vehicle to be towed and the rear bumper of the towing vehicle each to remove the cover.
- 3 Insert the towing hook into each hole and fasten it firmly.





Using a towing rope



- 1 Connect the towing rope to the towing hook of the towing vehicle and the vehicle to be towed securely.
- 2 Tie a white cloth in the middle of the rope so that the towing rope is clearly visible.
- 3 Release the parking brake of the vehicle to be towed and place the gear shift lever in the N (neutral) position.
- 4 If the engine of the vehicle to be towed is turned off, place the START/STOP switch in the ON position.
- 5 Turn on the hazard warning lamp of both the towing vehicle and the vehicle to be towed.

6 Start the engine of the towing vehicle and tow the vehicle to be towed.

At this time, the length of the towing rope should be less than 5 m and the total length of the towing vehicle and the vehicle to be towed should not exceed 25 m.

Tow the vehicle at a speed of 5 km/h or less.



Warning

- Use the towing hook only for towing a vehicle for a short distance temporarily or in an emergency situation. Avoid using it for towing all the time.
- If you want to tow the vehicle using the towing hook, make sure that the force is applied in the front, rear and horizontal direction. Do not drive off suddenly or recklessly since it can apply excessive load to the towing hook. Doing so may damage the towing rope or chain, leading to vehicle damage or a serious injury.



Caution

- Avoid impractical towing and towing a vehicle which is heavier than the towing vehicle.
- If there are many steep downhills or slopes in the towing path, do not attempt to tow the vehicle using the towing hook.
- The brake performance is significantly lowered while the engine is not running.
 Therefore, depress the brake pedal stronger than usual when towing the vehicle using the towing hook.
- Tow the vehicle while operating the turn signal and the hazard warning lamp along with the towing vehicle's signals.

Trailer towing

Your vehicle is designed primarily as a passenger vehicle therefore handling, braking, durability and economy will be affected by towing a trailer.

Your safety and satisfaction depend upon proper use of correct equipment. Also, you should avoid overloading and other abusive use.

The maximum loaded trailer weight you can pull with your vehicle depends on your intended use and what special equipment has been installed on it. Before attempting any towing, ensure that the correct equipment is fitted to your vehicle.

Your KG Mobility Dealer will help supply and install towing equipment to suit your requirement.

Trailer loading

To load your trailer properly, you must know how to measure gross trailer weight and trailer ball weight. Gross trailer weight is the weight of the trailer plus all cargo in it.

You can measure gross trailer weight by putting the fully loaded trailer on a vehicle scale.

Trailer ball weight is the downward force exerted on the hitch by the trailer coupler at its normal towing height. This weight can be measured using a bathroom scale.

The weight of your loaded trailer (gross trailer weight) should never exceed the specified values.

The permissible trailer loads are valid for several gradients from 6.8% to 12.6% according to engine power applied.

When the trailer has been coupled, the permissible rear axle load for the fully loaded towing vehicle (including occupants) must not be exceeded.

Maximum Load Limits

- **EU6d-s2** [] 2WD (unit: kg)

	Туре	Maximum Trailer	Trailer coupling weight	
Engine			Maximum permissible static vertical load on the coupling device	Maximum trailer hitch
D22DTR	with brake	3,000 [2,700]	120 [108]	25
	without brake	750		

GENERAL

- EU4, EU5

[] 2WD (unit: kg)

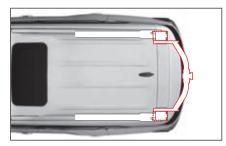
Engine	Туре	Maximum Trailer	Trailer coupling weight	
			Maximum permissible static vertical load on the coupling device	Maximum trailer hitch
D22DTR	with brake	2,300	92	25
G20DTR	without brake	750		

- EU6b

[] 2WD (unit: kg)

	Туре	Maximum Trailer	Trailer coupling weight	
Engine			Maximum permissible static vertical load on the coupling device	Maximum trailer hitch
D22DTR G20DTR	with brake	3,000 [2,700]	120 [108]	25
	without brake	750		





If you want to pull a trailer

Important points:

- You have to consider a sway control. You can check the sway control to hitch dealer.
- If the total driving distance of your new vehicle is under 800 km (500 miles), do not tow a trailer. For the first 800 km (500 miles) that you tow a trailer, do not drive over 80 km/h (50 mph) and do not start off your vehicle at full throttle. Otherwise, your engine and other parts could be damaged due to heavier loads.
- Always drive your vehicle at a moderate speed (less than 80 km/h).
- · You have to consider the weight of trailer.
- The permissible trailer ball weight varies according to the cargo weight on the deck.
- It has to be limited to the number of passengers by 5 people including a driver.

Weight of trailer

To keep the vehicle and trailer safely, you must consider many factors except the maximum load limit.

The vehicle and trailer's safety depends on how you use your trailer. Vehicle speed, altitude, load, outside temperature and frequency of using trailer are all very important. Any special equipment on your vehicle also affects on your vehicle.

Weight of trailer tongue

The tongue load of a trailer is also considered very carefully because it affects the gross vehicle weight (GVW) of your vehicle. This weight includes the curb weight of vehicle, any luggage in trailer, and the passengers in vehicle. In addition to that, you must add the trailer tongue load to the GVW because your vehicle will carry all the weight.

The trailer tongue should weigh a maximum of 4% of total loaded trailer weight. To check the weights are proper, you must weigh the trailer and the tongue separately after loading. If the weights are not proper, unload some items from the trailer.



Caution

- Never load a trailer with more weight in the rear side than in the front side. (Recommendation - Front: approx. 60%, Rear: approx. 40%)
- Never exceed the maximum load limits
 of trailer or trailer towing equipment.
 Improper loading may result in damage
 to your vehicle. It may occur the personal
 injury. Before driving, check the weight and
 loading at a commercial scale or highway
 patrol office equipped with scales.
- An improperly loaded trailer may cause the loss of vehicle control.
- When towing the trailer, turn the Idle Stop & Go (ISG) system off.

Trailer brakes

If the trailer brakes are used, you should follow all instructions provided by the manufacturer. Never modify the brake system of your vehicle.

Trailer lights

Make sure your trailer is equipped with lights which meet country and local requirements.

Always check for the proper operation of all trailer lights before you start to tow.

Tires

When towing trailers, be sure your tires are properly inflated to the inflation pressure.

Safety chains

Always attach safety chains between your vehicle and the trailer. Cross the safety chains under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch. Follow the manufacturer's recommendation for attaching safety chains. Always leave just enough slack to permit full turning. Never allow safety chains to drag on the road.

Brake fluid

Change the brake fluid every 15,000 km (9,000 miles) under the following conditions.

- · Towing a trailer frequently.
- · Driving in hilly or mountainous terrain.

Automatic transmission fluid

More frequent maintenance is required if your vehicle tows trailer frequently.

Towing tips

When towing a trailer, your vehicle will handle differently compared with normal driving condition.

- For safety, observe the following precautions:
- Practice turning, stopping, and reversing before you begin towing in traffic.
 Do not tow in traffic until you are confident that you can handle the vehicle and trailer safely.
- Before driving, make sure that the lighting system of the trailer works properly.
- · Do not drive faster than 80 km/h.
- Make sure that you have enough room when cornering and avoid sudden maneuvers.
- · Avoid abrupt starts, acceleration or stops.
- · Avoid sharp turns or lane changes.
- Always have someone guide you when reversing.

- Allow adequate stopping distance.
 Stopping distance is increased when you tow a trailer
- Avoid holding the brake pedal down too long or too frequently, which will cause the brakes to overheat and result in reduced brake efficiency.
- Always block the wheels on both vehicle and trailer when parking. Apply the parking brake firmly.
- Parking on a steep slope is not recommended.
 You really should not park your vehicle, with a trailer attached, on a hill.
 If something goes wrong, such as the trailer/caravan hitch becoming disengaged, people.
 - caravan hitch becoming disengaged, people can be injured and both the vehicle and trailer can be damaged.
- If someone removing the blocks stands directly behind the trailer, he could be injured.
 If your brakes or the hitch slipped, the trailer could roll backward. Make sure anyone removing blocks from your wheels stands to one side.
- · Take note of trailer manufacturer's instructions.

Driving on hill

Reduce speed and shift to a lower gear before you start down a long or sleep downgrade. If you don't shift down, you might have to use your brakes so much that they would get hot and no longer work well.

On a long uphill grade, shift down and reduce your speed to a level which minimizes the possibility of engine and transmission overheating.

Notice

- When towing a trailer on steep hill (over 12%), pay particular attention to the engine coolant temperature gauge to ensure the engine does not overheat. If the gauge reaches to the "H" mark, stop your vehicle at a safe place and allow the engine to idle until it cools down. When the engine has cooled sufficiently, you may proceed.
- To avoid the engine and transmission overheating, you must check the driving speed depending on trailer weight and uphill grade.

Parking on hills

You really should not park your vehicle, with a trailer attached, on a hill. If something goes wrong, your rig could start to move. People can be injured, and both your vehicle and the trailer can be damaged.

But if you ever have to park your rig on a hill, here's how to do it:

- 1 Apply your regular brakes, but don't shift into PARK (P) for automatic transmission yet, or into a gear for a manual transmission.
- 2 Have someone place chocks under the trailer wheels.
- When the wheel chocks are in place release the regular brakes until the chocks absorb the load.
- 4 Reapply the regular brakes. Then apply your parking brake, and then shift to PARK (P) for automatic transmission, or First or Reverse gear for a manual transmission.
- 5 Release the regular brakes.

When you are ready to leave after parking on a hill

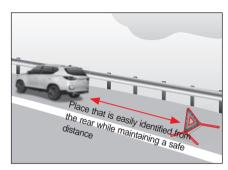
- Apply your regular brakes and hold the pedal down while you:
 - · Start your engine
 - · Shift into a gear and
 - · Release the parking brake.
- 2 Let up on the brake pedal.
- 3 Drive slowly until the trailer is clear of the chocks.
- 4 Stop and have someone pick up and store the chocks.

Maintenance when towing trailer

Your vehicle will need service more often when you're towing a trailer. See the maintenance Schedule for more on this. Things that are especially important in trailer operation are engine oil, brake pads & discs, automatic transmission fluid. Each of these is covered in this manual and the index will help you find them quickly. If you want to tow a trailer, it's a good idea to review these sections before you start your trip.

Check periodically to see that all hitch nuts and bolts are tight.

When the vehicle has stopped due to a failure



If the vehicle malfunctions and has stopped while driving, do not panic and take an action according to the following order.

- 1 Turn on the hazard warning lamp of the vehicle.
- 2 Move your vehicle to the right shoulder of the road or a safe location.
- 3 Place a warning triangle.

The position that is easily identified by a driver in an approaching vehicle while maintaining a safe distance (100 m during daytime, 200 m in the rear during night time) is an appropriate area to place the warning triangle.

Place a road flare additionally at night.

- 4 Evacuate all occupants to a safe place.
- 5 Request an emergency rescue service or vehicle towing.

In the event of an accident

If an accident has occurred while driving, do not panic and take an action according to the following order.

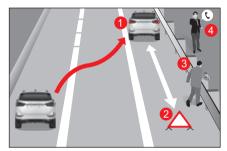
- 1 Turn on the hazard warning lamp of the vehicle.
- 2 Move your vehicle to the right shoulder of the road or a safe location.
- 3 Place a warning triangle.

The position that is easily identified by a driver in an approaching vehicle while maintaining a safe distance (100 m during daytime, 200 m in the rear during night time) is an appropriate area to place the warning triangle.

Place a road flare additionally at night.

- 4 Evacuate all occupants to a safe place.
- 5 If anyone is injured, give aid and call an ambulance.
- 6 Contact the nearest police station and when a police officer arrives, follow his/her instructions.
- 7 Even in case of a minor accident, be sure to visit a hospital and see the doctor.

Tips when an accident or a malfunction occurs on the expressway



When you stop the vehicle on the expressway due to an accident or a malfunction, take an action according to the following order in order to prevent a secondary accident.

- 1 Turn on the hazard warning lamp promptly and move the vehicle to the shoulder of the road (1).
- Place a warning triangle on the rear side of the vehicle (2). (Place a road flare additionally at night)
- 3 The driver and any occupants should be evacuated to a safe area such as behind the quardrail (3).
- 4 Call a police station (112), a fire station (119) or Korea Expressway Corporation (1588-2504) and ask for help (4).

In the event of a fire

When a fire has occurred in the vehicle, do not panic and take an action according to the following order.

- 1 Turn on the hazard warning lamp of the vehicle.
- 2 Stop the vehicle at a safe place immediately and stop the engine.
- 3 Extinguish the fire using an extinguisher.
- 4 If you cannot extinguish the fire, report it to a police station or a fire station.

At this time, do not approach the vehicle and maintain a safe distance with the vehicle.

Warning

 When a vehicle accident occurs, the fuel may leak, causing a fire. Stop the engine immediately and keep any Inflammables away from the vehicle.



Placing an extinguisher in the vehicle

Place an extinguisher in the vehicle since it is needed for early fire extinguishing when a fire occurs.

Storage place of extinguisher* (7-seater)



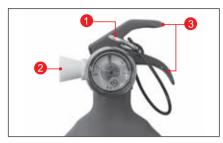
The extinguisher is stored in the storage box at the rear left side of the luggage compartment with the OVM tools.

Refer to "Warning triangle and OVM (Owner Vehicle Maintenance) tools" (p.5-2)

Notice

 Refer to the label attached to the extinguisher for detailed information regarding tips to use and manage the extinguisher.

How to use the extinguisher



- 1 Remove the safety pin (1) from the extinguisher with the wind at your back.
- 2 Face the extinguisher nozzle (2) towards the place where the fire occurs.
- 3 Hold the handle (3) and spray to the place where the fire occurs, using a sweeping motion.

Checking and maintaining the extinguisher



- Check at least once a month if the needle on the pressure gauge of the extinguisher is in the normal range.

 If there is a pressure loss or other abnormalities, have the extinguisher serviced immediately.
- The lifetime of the extinguisher is approximately 5 years when it is maintained under normal conditions.
 After 5 years have passed, it should be inspected and confirmed by a fire fighting equipment company every 2 years.
- After using the extinguisher, be sure to release the chemical (ABC powder) from the inside of the extinguisher completely and refill with an ABC powder fire extinguishing agent.
 If it is left unattended for a long period of time, the contents may become hardened and it cannot be used. Shake the extinguisher periodically.

In the event of a heavy snow

When there is a heavy snow, do not panic and refer to the following tips for actions.

- Always listen to the radio and use the expressway information call number.
- Drive slowly on a curved road, an uphill road or a bridge.
- Avoid parking or leaving the vehicle on the shoulder of the road that cause inconvenience for snow removal operations.
- Be sure to leave your contact information when you leave the vehicle unavoidably.
- Drive slowly while securing a safe distance between vehicles.
- Avoid using the brake and stop the vehicle while reducing the vehicle speed using the engine brake.
- Remove snow near the vehicle frequently to prevent the exhaust pipe (muffler) from being blocked.

6. Periodic Checking and Maintenance

You can check the necessary periodic check and maintenance methods in detail for safe and pleasant vehicle driving.

Scheduled maintenance services (EU) - D22DTR

* Use only approved KG Mobility genuine parts.

Maintenance service and record retention are the owner's responsibility. You should retain evidence that proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service chart.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

Maintenance interval			Kilometers (miles) or time	in months, v	vhichever cor	nes first		
	x1000 km	20	40	60	80	100	120	140	160
	x1000 miles	12.5	25	37.5	50	62.5	75	87.5	100
Maintenance item	Months	12	24	36	48	60	72	84	96

Engine control system

Drive belt	I	I	I	I	I	I	I	I			
* Engine oil & filter *1	R	R	R	R	R	R	R	R			
(1)* (3)* (4)*	Shorten the service interval under severe conditions										
Cooling system hose & connections	I	I	I	I	I	I	I	I			
Engine coolant (3)* (4)*	Change every 200000 km or 5 years. And, inspect and replenish if necessary.										
* F., al Sika- /4)*	I	R*	I	R*	I	R*	I	R*			
* Fuel filter (1)*	Draining water from fuel filter: whenever replacing the engine oil										
Fuel line & connections	I	I	I	I	I	I	I	- 1			
Air clooper (2)*	R	R	R	R	R	R	R	R			
Air cleaner (2)*	Shorten the service interval under severe conditions										

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
 - *1 Check the engine oil level and leak every 3000 km (2000 miles) or before starting a long trip.
- R Replace or change.
 - (1)* If vehicle is operated under severe condition: Shorten the service interval.
 - Frequent stop-and-go traffic, extended idling, short driving distance below 6 km, driving distance below 16 km when the outside temperature remains below freezing
 - Driving in a hilly or mountainous terrain, sandy, or dusty area

- High load driving such as trailer towing
- Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
- (2)* If vehicle is operated under severe condition, driving in dusty condition or sandy condition, pollutant area or off-road driving, frequently inspect the air cleaner, if necessary, change the air cleaner.
- (3)* More frequent maintenance is required if under dusty driving condition.
- (4)* Refer to "Recommended fluids, coolant and lubricants".

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Maintenance interval		Kilometers (miles) or time in months, whichever comes first										
	x1000 km	20	40	60	80	100	120	140	160			
	x1000 miles	12.5	25	37.5	50	62.5	75	87.5	100			
Maintenance item	Months	12	24	36	48	60	72	84	96			

Chassis and body

Exhaust pipes & mountings			I	I	I	I	I	I	I	I	
Brake / Clutch fluid (3)*					Change	every 2 year	s (inspect fre	quently)			
Parking brake / Brake pads (Fro	ont & Rear) (4)*	I	I	I	I	I	I	I	I	
Brake line & connections (inclu-	ding booster)	(4)*	I	I	I	I	I	I	I	I	
Clutch & brake pedal free play			I	I	I	I	I	I	I	I	
T(1	I	R	I	I	R	I	I	
Transfer case fluid (3)*			Frequent check of oil leak								
Front 9 Door differential florid	Front				Inspect 1	requently, ch	ange every 3	0000 km			
Front & Rear differential fluid	Deer	Rigid	Inspect frequently, change every 30000 km								
(3)*	Rear	IRS	1	I	R	I	I	R	I	I	
Automotic transcription fluid (C)	*				I			I			
Automatic transmission fluid (6)					Change ev	ery 60000 kn	n under seve	re condition			
Check play/tightness for lower I grease leak on chassis and boo		all joint	<u> </u>								
Urea solution level			Regularly ch	eck / add (add i	mmediately wher	n low urea soluti	on warning lam	comes on and	warning messag	ge displayed)	
Urea line / connection oil leakage	ge							I			

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - (4)* More frequent maintenance is required if the vehicle is operated under any of the following
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain, or
 - When doing frequent trailer towing, or
 - Uses such as found in taxi, police or delivery service.

- (6)* If vehicle is operated under severe condition: Shorten the service interval.
 - Towing a trailer or off-road driving (Inspect the leak of fluid at any time, occasionally)
 - Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
 - Frequent stop-and-go traffic, extended idling, short driving distance
 - Driving in a hilly or mountainous terrain, sandy, or dusty area
 - Driving frequently at high speed over 170 km/hour
 - Driving frequently in area where heavy traffic under the ambient temperature above 32°C

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Maintenance interval			Kilometers (miles) or time	in months, v	vhichever cor	nes first		
	x1000 km	20	40	60	80	100	120	140	160
	x1000 miles	12.5	25	37.5	50	62.5	75	87.5	100
Maintenance item	Months	12	24	36	48	60	72	84	96

Chassis and body

Tire condition & inflation pressure (7)*			Check frequ	ently and adj	ust or replace	if necessary				
Wheel alignment (7)*			Inspect	when abnorr	nal condition	is noted				
Steering wheel & linkage	I	I	1	I	I	I	I	I		
Power steering fluid & lines (3)*	I	I	I	I	I	I	I	I		
Drive shaft boots (8)*	I	I	1	I	I	I	I	I		
Seat belts, buckles & anchors	1	I	I	I	I	I	I	I		
Lubricate locks, hinges & bonnet latch			Check frequ	ently and adj	ust or replace	if necessary				
Wheel bearing grease	I	I	I	I	I	I	I	ı		
Propeller shaft grease - Front / Rear (9)*	I	I	1	I	I	I	I	I		
Air condition or filter (40)*	R	R	R	R	R	R	R	R		
Air conditioner filter (10)*		Shorten the service interval under severe conditions								

Chart Symbols:

6-4

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - $(7)^*$ If necessary, rotate and balance wheels.
 - (8)* After completion of off-road operation, the drive shaft boots should be inspected.
 - (9)* Inspect propeller shaft grease every 5000 km or 3 months if the vehicle is mainly driven under severe condition.
 - In off-road or dusty road, or
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain.

- (10)* Severe Conditions in Air Conditioner Filter
 - Pollutant area or off-road driving, extended air conditioner or heater operation
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher

Scheduled maintenance services (GEN) - D22DTR

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* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

	Maintenance interval		Kilometers (miles) or time in months, whichever comes first										
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	x1000 km	15	30	45	60	75	90	105	120			
		x1000 miles	10	20	30	40	50	60	70	80			
Maintenance iten	1	Months	12	24	36	48	60	72	84	96			

Engine control system

Drive belt	I	l I	1	l I	I	I	I	1			
* Facing all 9 files *1	R	R	R	R	R	R	R	R			
* Engine oil & filter *1 (1)* (3)* (4)* (11)*			Initial check	: 7500 km, ai	nd replenish i	f necessary.					
(1) (3) (4) (11)	Shorten the service interval under severe conditions										
Cooling system hose & connections	I	1	1	I	I	I	I	I			
Engine coolant (3)* (4)*	Change every 200000 km or 5 years. And, inspect and replenish if necessary.										
* [] filtor (4)*	I	R*	I	R*	ı	R*	I	R*			
* Fuel filter (1)*	Draining water from fuel filter: whenever replacing the engine oil										
Fuel line & connections						I					
Air clooner (2)*	R	R	R	R	R	R	R	R			
Air cleaner (2)*	Shorten the service interval under severe conditions										

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
 - *1 Check the engine oil level and leak every 3000 km (2000 miles) or before starting a long trip.
- R Replace or change.
 - (1)* If vehicle is operated under severe condition: Shorten the service interval.
 - Frequent stop-and-go traffic, extended idling, short driving distance below 6 km, driving distance below 16 km when the outside temperature remains below freezing
 - Driving in a hilly or mountainous terrain, sandy, or dusty area

- High load driving such as trailer towing
- Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
- (2)* If vehicle is operated under severe condition, driving in dusty condition or sandy condition, pollutant area or off-road driving, frequently inspect the air cleaner, if necessary, change the air cleaner.
- (3)* More frequent maintenance is required if under dusty driving condition.
- (4)* Refer to "Recommended fluids, coolant and lubricants".
- (11)* EURO5 or EURO6 emission regulation countries: Initial change 15000 km (severe conditions: 7500 km)

* Use only approved KG Mobility genuine parts.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

Maintenance interval		Kilometers (miles) or time in months, whichever comes first									
	x1000 km	15	30	45	60	75	90	105	120		
	x1000 miles	10	20	30	40	50	60	70	80		
Maintenance item	Months	12	24	36	48	60	72	84	96		

Chassis and body

Exhaust pipes & mountings			I	I	I	I	I	I	I	I			
Brake / Clutch fluid (3)*					Change	every 2 year	s (inspect fre	quently)					
Parking brake / Brake pads (Fro	ont & Rear) (4	1)*	I	I	I	I	I	I	I	1			
Brake line & connections (include	ding booster)	(4)*	I	I	I	I	I	I	I	1			
Clutch & brake pedal free play			I	I	I	I	I	I	I	I			
T	nsfer case fluid (3)*			I I I R I I R									
Transfer case fluid (3)"	ransfer case fluid (3) [^]			Frequent check of oil leak									
Front		Inspect frequently, change every 30000 km											
Front & Rear differential fluid (3)*	Door	Rigid			Inspect	frequently, ch	ange every 3	0000 km					
(3)	Rear	IRS	I	I	I	R	I	I	I	R			
A. to continue and a sign florid (C)	*					I				I			
Automatic transmission fluid (6)			Change every 60000 km under severe condition										
Check play/tightness for lower grease leak on chassis and bo		d ball joint	ball joint Check frequently and adjust or replace if necessary										

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - (4)* More frequent maintenance is required if the vehicle is operated under any of the following conditions:
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain, or
 - When doing frequent trailer towing, or
 - Uses such as found in taxi, police or delivery service.

- (6)* If vehicle is operated under severe condition: Shorten the service interval.
 - Towing a trailer or off-road driving (Inspect the leak of fluid at any time, occasionally)
 - Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
 - Frequent stop-and-go traffic, extended idling, short driving distance
 - Driving in a hilly or mountainous terrain, sandy, or dusty area
 - Driving frequently at high speed over 170 km/hour
 - Driving frequently in area where heavy traffic under the ambient temperature above 32°C

* Use only approved KG Mobility genuine parts.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

Maintenance interval			Kilometers (miles) or time	in months, v	vhichever con	nes first		
	x1000 km	15	30	45	60	75	90	105	120
	x1000 miles	10	20	30	40	50	60	70	80
Maintenance item	Months	12	24	36	48	60	72	84	96

Chassis and body

Tire condition & inflation pressure (7)*			Check frequ	ently and adju	ust or replace	if necessary		
Wheel alignment (7)*			Inspect	when abnorn	nal condition	is noted		
Steering wheel & linkage	I	I	I	I	I	I	I	I
Power steering fluid & lines (3)*	l l	I	I	I	I	I	I	I
Drive shaft boots (8)*	1	ı	1	I	I	I	I	I
Seat belts, buckles & anchors	I	ı	I	I	I	I	I	I
Lubricate locks, hinges & bonnet latch			Check frequ	ently and adju	ust or replace	if necessary		
Wheel bearing grease	I	I	I	I	I	I	I	I
Propeller shaft grease - Front / Rear (9)*	I	I	I	I	I	I	I	I
Air conditioner filter (40)*	R	R	R	R	R	R	R	R
Air conditioner filter (10)*	Shorten the service interval under severe conditions							

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - (7)* If necessary, rotate and balance wheels.
 - (8)* After completion of off-road operation, the drive shaft boots should be inspected.
 - (9)* Inspect propeller shaft grease every 5000 km or 3 months if the vehicle is mainly driven under severe condition.
 - In off-road or dusty road, or
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain.

- (10)* Severe Conditions in Air Conditioner Filter
 - Pollutant area or off-road driving, extended air conditioner or heater operation
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher

Scheduled maintenance services (Under severe condition) - D22DTR

* Use only approved KG Mobility genuine parts.

Maintenance service and record retention are the owner's responsibility. You should retain evidence that proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service chart.

	Maintenance interval			Kilometers (miles) or time	e in months, v	vhichever cor	nes first		
x1000 km 7.5 15 22.5 30 37.5 45 52.5 6									60	
Maintenance ite	em	Months 6 12 18 24 30 36 42								

Engine control system

I	I	I	I	I	I	I	I
R	R	R	R	R	R	R	R
ı	I	I	I	I	I	I	I
Change every 100000 km or 3 years. And, inspect and replenish if necessary.							,
1	I	R	I	I	R	I	I
	Drain	the water from	m fuel filter: w	henever repla	acing the eng	ine oil.	
ı	I	I	I	I	I	I	I
R	R	R	R	R	R	R	R
Shorten the service interval under severe conditions							,
		I I Change eve	I I I I Change every 100000 km I I R P Prain the water from I I I R R		I		I

Chart Symbols:

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
 - *1 Check the engine oil level and leak every 3000 km (2000 miles) or before starting a long trip.
- R Replace or change.
 - (1)* If vehicle is operated under severe condition:

Shorten the service interval.

 Frequent stop-and-go traffic, extended idling, short driving distance below 6 km, driving distance below 16 km when the outside temperature remains below freezing

- Driving in a hilly or mountainous terrain, sandy, or dusty area
- High load driving such as trailer towing
- Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
- (2)* If vehicle is operated under severe condition, driving in dusty condition or sandy condition, pollutant area or off-road driving, frequently inspect the air cleaner, if necessary, change the air cleaner.
- (3)* More frequent maintenance is required if under dusty driving condition.
- (4)* Refer to "Recommended fluids, coolant and lubricants".

	Maintenance interval			Kilometers (miles) or time	e in months, v	vhichever con	nes first			
		x1000 km	x1000 km 7.5 15 22.5 30 37.5 45 52.5								
Maintenance iter	n	Months	Months 6 12 18 24 30 36 42								

Chassis and body

Exhaust pipes & mountings	i		1	1	1	I	I	I	1	1	
Brake / Clutch fluid (3)*					Change	every 1 year	rs (inspect fre	quently)			
Parking brake / Brake pads	(Front & Rea	ar) (4)*	I	I	I	I	I	I	I	I	
Brake line & connections (ir	ncluding boos	ster)	I	I	I	I	I	I	I	I	
Clutch & brake pedal free play									1		
Transfer case fluid (3)*			I	I	I	R I I R					
	Front		1	R	I	R	I	R	I	R	
Front & Rear differential fluid (3)*	Dans	Rigid	I	R	I	R	I	R	I	R	
ilulu (5)	Rear	IRS	I I R I I R							R	
Automatic transmission fluid	d (6)*		R							R	
Check play/tightness for lov	wer bolt/nut a	ind ball joint on	on Check frequently and adjust or replace if necessary						•	•	

Chart Symbols:

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.

chassis and body (6)*

- (3)* Refer to "Recommended fluids and lubricants".
- (4)* More frequent maintenance is required if the vehicle is operated under any of the following conditions:
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain, or
 - When doing frequent trailer towing, or
 - Uses such as found in taxi, police or delivery service.

- (6)* If vehicle is operated under severe condition: Shorten the service interval.
 - Towing a trailer or off-road driving (Inspect the leak of fluid at any time, occasionally)
 - Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
 - Frequent stop-and-go traffic, extended idling, short driving distance
 - Driving in a hilly or mountainous terrain, sandy, or dusty area
 - Driving frequently at high speed over 170 km/hour

(change every 100000 km only ball joint)

 Driving frequently in area where heavy traffic under the ambient temperature above 32°C

	Maintenance interval			Kilometers (miles) or time	e in months, v	vhichever cor	nes first		
x1000 km 7.5 15 22.5 30 37.5 45 52.5									60	
Maintenance ite	Months 6 12 18 24 30 36 42									48

Chassis and body

Tire condition & inflation pressure (7)*			Check frequ	ently and adju	ust or replace	if necessary		
Wheel alignment (7)*			Inspect	when abnorr	nal condition	is noted		
Steering wheel & linkage	I	I	I	I	I	I	I	I
Power steering fluid & lines (3)*	I	I	I	I	I	I	I	I
Drive shaft boots (8)*								
Seat belts, buckles & anchors	I	1	I	I	I	I	I	I
Lubricate locks, hinges & bonnet latch			Check frequ	ently and adju	ust or replace	if necessary		
Wheel bearing grease	I	I	I	I	I	I	I	I
Propeller shaft grease - Front / Rear (9)*								
Air conditioner filter (10)*	R	R	R	R	R	R	R	R

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - (7)* If necessary, rotate and balance wheels.
 - (8)* After completion of off-road operation, the drive shaft boots should be inspected.
 - (9)* Inspect propeller shaft grease every 5000 km or 3 months if the vehicle is mainly driven under severe condition.
 - In off-road or dusty road, or
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain.
 - (10)* Severe Conditions in Air Conditioner Filter
 - Pollutant area or off-road driving, extended air conditioner or heater operation

Scheduled maintenance services - G20DTR

* Use only approved KG Mobility genuine parts.

Maintenance service and record retention are the owner's responsibility. You should retain evidence that proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service chart.

	Maintenance interval			Kilometers (miles) or time	in months, v	vhichever con	nes first		
		x1000 km	15	30	45	60	75	90	105	120
		x1000 miles	10	20	30	40	50	60	70	80
Maintenance iter	n	Months	12	24	36	48	60	72	84	96

Engine control system

Drive belt	1	1	ı		1	ı	1	ı	
Drive beit	<u>'</u>	'	'	1	'	'	'	'	
Engine oil & engine oil filter (1)* (3)* (Initial check: 7500 km)	R**	R	R	R	R	R	R	R	
Cooling system hose & connections	I	I	I	I	I	I	I	I	
Engine coolant (3)*		Change e	very 200000 l	km or 5 years	s. And, inspec	t replenish if	necessary.		
Fuel filter (2)*	Replace every 100000 km (if using poor quality of fuel, replace every 30000 km)								
Fuel line & connections	I	I	I	I	I	I	I	I	
Air cleaner (2)*	I	R	I	R	I	R	I	R	
Ignition timing	I	I	I	I	I	I	I	I	
Spark plugs			Char	nge every 600	000 km or 4 y	ears.			
Charcoal canister & vapor lines	-	-	I	-	-	I	-	-	

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
- **- In order to secure engine long life and effective break-in, first oil (factory filled) would be recommended to drain within 10000 km.
 - (1)* If vehicle is operated under severe condition: short distance driving, extensive idling or driving in dusty condition, shorten the service interval.
 - (2)* If vehicle is operated under severe condition, pollutant area or off-road driving, driving in dusty condition or sandy condition, frequently inspect the air cleaner, if necessary, change the air cleaner.
 - (3)* Refer to "Recommended fluids and lubricants".

* Use only approved KG Mobility genuine parts.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

Maintenance interva			Kilometers (miles) or time	e in months, v	vhichever cor	nes first		
	x1000 km	15	30	45	60	75	90	105	120
	x1000 miles	10	20	30	40	50	60	70	80
Maintenance item	Months 12 24 36 48 60 72 84							96	

Chassis and body

Exhaust pipes & mountings			I	l	I	I	I	I		I
Brake / Clutch fluid (3)*					Change	e every 2 year	s (inspect fre	quently)		
Parking brake / Brake pads (Fro	ont & Rear) (4	l)*	I	I	I	I	I	I	I	I
Brake line & connections (include	ding booster)	(4)*	I	I	I	I	I	I	I	I
Manual transmission oil (5)*			Inspect an	d replenish ev	ery 60000 km	or 3 years. (Severe driving	condition: Ch	nange every	120000 km)
Clutch & brake pedal free play									I	
Transfer ages fluid (2)*			I	I	I	R	I	I	I	R
Transfer case fluid (3)*			Frequent check of oil leak							
Front 9 Door differential florid	Front				Inspect	frequently, ch	ange every 3	0000 km		
Front & Rear differential fluid (3)*	Rear	Rigid			Inspect	frequently, ch	ange every 3	0000 km		
(3)	Real	IRS	I	I	I	R	I	I	I	R
Automotic transmission fluid (6)	*		I	I	I	I	I	I	I	I
Automatic transmission fluid (6)			Change every 60000 km under severe condition							
Check play/tightness for lower grease leak on chassis and bo		l ball joint	Check frequently and adjust or replace if necessary							

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - (4)* More frequent maintenance is required if the vehicle is operated under any of the following conditions:
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain, or
 - When doing frequent trailer towing, or
 - Uses such as found in taxi, police or delivery service.

- (5)* Inspect and replenish every 60000 km (or 3 years) Normal driving condition: Fill for Life (Severe driving condition: Change every 120000 km)
- (6)* If vehicle is operated under severe condition: Shorten the service interval.
 - Towing a trailer or off-road driving (Inspect the leak of fluid at any time. occasionally)
 - Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
 - Frequent stop-and-go traffic, extended idling, short driving distance
 - Driving in a hilly or mountainous terrain, sandy, or dusty area
 - Driving frequently at high speed over 170 km/hour
 - Driving frequently in area where heavy traffic under the ambient temperature above 32°C

* Use only approved KG Mobility genuine parts.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

Maintenance interval			Kilometers (miles) or time	in months, v	vhichever con	nes first		
	x1000 km	15	30	45	60	75	90	105	120
	x1000 miles	10	20	30	40	50	60	70	80
Maintenance item	Months	12	24	36	48	60	72	84	96

Chassis and body

Tire condition & inflation pressure (7)*		Check frequently and adjust or replace if necessary						
Wheel alignment (7)*		Inspect when abnormal condition is noted						
Steering wheel & linkage	I	I	I	I	I	I	I	I
Power steering fluid & lines (3)*	I	I	I	I	I	I	I	I
Drive shaft boots (8)*	I	I	1	I	I	I	I	I
Seat belts, buckles & anchors	I	I	1	I	I	I	I	I
Lubricate locks, hinges & bonnet latch			Check frequ	ently and adju	ust or replace	if necessary		
Wheel bearing grease	I	I	I	I	I	I	I	I
Propeller shaft grease - Front / Rear (9)*	I	I	I	I	I	I	I	I
A'	R	R	R	R	R	R	R	R
Air conditioner filter (10)*			Shorten the	service interv	al under seve	ere conditions		

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - (7)* If necessary, rotate and balance wheels.
 - (8)* After completion of off-road operation, the drive shaft boots should be inspected.
 - (9)* Inspect propeller shaft grease every 5000 km or 3 months if the vehicle is mainly driven under severe condition.
 - In off-road or dusty road, or
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain.

- (10)* Severe Conditions in Air Conditioner Filter
 - Pollutant area or off-road driving, extended air conditioner or heater operation
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher

Scheduled maintenance services (Under severe condition) - G20DTR

* Use only approved KG Mobility genuine parts.

Maintenance service and record retention are the owner's responsibility. You should retain evidence that proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service chart.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

	Maintenance interval	Kilometers (miles) or time in months, whichever comes first								
		x1000 km	7.5	15	22.5	30	37.5	45	52.5	60
Maintenance i	item	Months	6	12	18	24	30	36	42	48

Engine control system

•										
Drive belt	I	I	I	I	I	I	I	I		
Engine oil & engine oil filter (1)* (3)*	R**	R	R	R	R	R	R	R		
Cooling system hose & connections	1	I	I	I	I	I	I	I		
Engine coolant (3)*	Change every 100000 km or 3 years. And, inspect replenish if necessary.									
Fuel filter (2)*	Replace every 50000 km (if using poor quality of fuel, replace every 15000 km)									
Fuel line & connections	I	I	I	I	I	I	I	I		
Air alconor (2)*	R	R	R	R	R	R	R	R		
Air cleaner (2)*		Shorten the service interval under severe conditions								
Ignition timing	I	I	I	I	I	I	I	I		
Spark plugs		Change every 30000 km or 2 years.								
Charcoal canister & vapor lines	-	-	I	-	-	I	-	-		

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
- **- In order to secure engine long life and effective break-in, first oil (factory filled) would be recommended to drain within 10000 km.
 - (1)* If vehicle is operated under severe condition:
 - Shorten the service interval.
 - Frequent stop-and-go traffic, extended idling, short driving distance below 6 km, driving distance below 16 km when the outside temperature remains below freezing

- Driving in a hilly or mountainous terrain, sandy, or dusty area
- High load driving such as trailer towing
- Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
- (2)* If vehicle is operated under severe condition, pollutant area or off-road driving, driving in dusty condition or sandy condition, frequently inspect the air cleaner, if necessary, change the air cleaner.
- (3)* Refer to "Recommended fluids and lubricants".

	Maintenance interval			Kilometers (miles) or time	in months, v	vhichever con	nes first		
		x1000 km	7.5	15	22.5	30	37.5	45	52.5	60
Maintenance iten	m	Months	6	12	18	24	30	36	42	48

Chassis and body

Exhaust pipes & mountings		I	I	I	I	I	I	I	I	
Brake / Clutch fluid (3)*			Change every 1 years (inspect frequently)							
Parking brake / Brake pads	(Front & Rea	ar) (4)*	I	I	I	I	I	I	I	I
Brake line & connections (including booster)		I	I	I	I	I	I	I	ı	
Manual transaxle oil (5)*					I				I	
Clutch & brake pedal free play		I	I	I	I	I	I	I	I	
Transfer case fluid (3)*	Transfer case fluid (3)*		I	I	I	R	I	I	I	R
E (0.5 III)	Front		I	R	I	R	I	R	I	R
Front & Rear differential fluid (3)*	Door	Rigid	I	R	1	R	I	R	I	R
ilulu (3)	Rear	IRS	I	I	ı	R	I	I	ı	R
Automatic transmission fluid (6)*					I				R	
Check play/tightness for lower bolt/nut and ball joint on			•	Check frequ	ently and adju	ust or replace	if necessary			

Chart Symbols:

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.

chassis and body (6)*

- (3)* Refer to "Recommended fluids and lubricants".
- (4)* More frequent maintenance is required if the vehicle is operated under any of the following conditions:
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain, or
 - When doing frequent trailer towing, or
 - Uses such as found in taxi, police or delivery service.

(5)* Inspect and replenish every 30000 km (or 2 years) Normal driving condition: Fill for Life

(change every 100000 km only ball joint)

- (Severe driving condition: Change every 120000 km)

 (6)* If vehicle is operated under severe condition: Shorten the service interval.
 - Towing a trailer or off-road driving (Inspect the leak of fluid at any time, occasionally)
 - Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)
 - Frequent stop-and-go traffic, extended idling, short driving distance
 - Driving in a hilly or mountainous terrain, sandy, or dusty area
 - Driving frequently at high speed over 170 km/hour
 - Driving frequently in area where heavy traffic under the ambient temperature above 32°C

	Maintenance interval			Kilometers (miles) or time	in months, v	vhichever con	nes first		
		x1000 km	7.5	15	22.5	30	37.5	45	52.5	60
Maintenance iten	m	Months	6	12	18	24	30	36	42	48

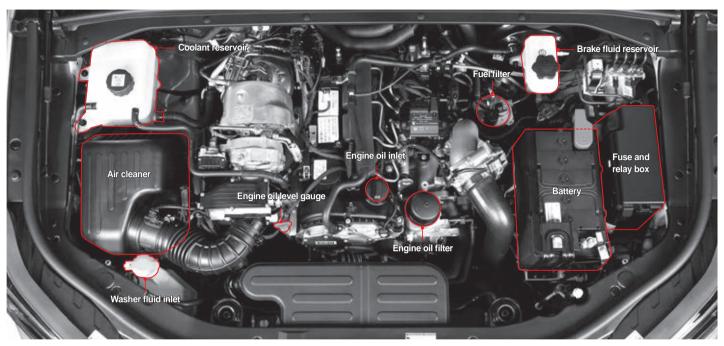
Chassis and body

Tire condition & inflation pressure (7)*	Check frequently and adjust or replace if necessary							
Wheel alignment (7)*	Inspect when abnormal condition is noted							
Steering wheel & linkage	I	I	I	I	I	I	I	I
Power steering fluid & lines (3)*	I	I	I	I	I	I	I	I
Drive shaft boots (8)*	ı	I	I	I	I	I	I	I
Seat belts, buckles & anchors	I	I	I	I	I	I	I	I
Lubricate locks, hinges & bonnet latch			Check frequ	ently and adju	ust or replace	if necessary		
Wheel bearing grease	I	I	I	I	I	I	I	I
Propeller shaft grease - Front / Rear (9)*	I	I	I	I	I	I	I	I
Air conditioner filter (10)*	R	R	R	R	R	R	R	R

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - (7)* If necessary, rotate and balance wheels.
 - $(8)^*$ After completion of off-road operation, the drive shaft boots should be inspected.
 - (9)* Inspect propeller shaft grease every 5000 km or 3 months if the vehicle is mainly driven under severe condition.
 - In off-road or dusty road, or
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain.
 - (10)* Severe Conditions in Air Conditioner Filter
 - Pollutant area or off-road driving, extended air conditioner or heater operation

Checking the engine room

Diesel Engine (D22DTR)

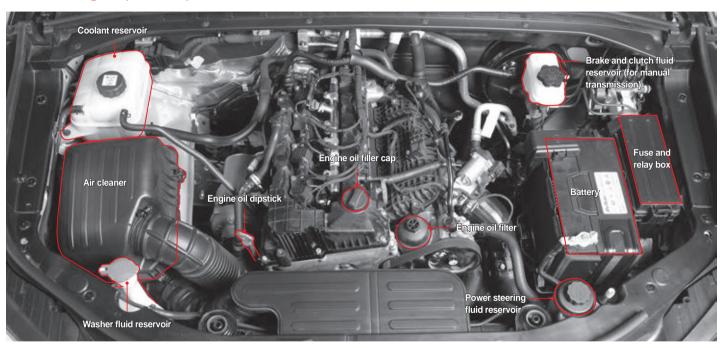


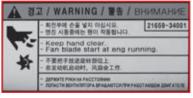




- After driving the vehicle, the systems including the engine, radiator, exhaust manifold, catalyst converter and
 exhaust pipe (muffler) are very hot, so caution should be taken when checking the engine room. Turn off and cool
 down the engine properly before checking in order to prevent a burn.
- There is a risk of serious injury from rotating parts such as the engine cooling fan when checking and working on the
 engine compartment. In addition, the cooling fan may rotate regardless of whether the engine is started or not.

Gasoline engine (G20DTR)

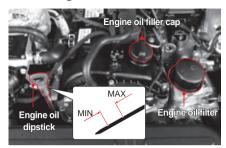




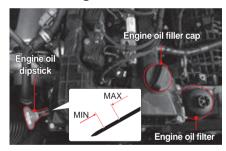
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 engine compartment. In addition, the cooling fan may rotate regardless of whether the engine is started or not.

Engine oil

Diesel Engine



Gasoline Engine



Level Check

Park the vehicle on a level ground and apply the parking brake.

Stop the engine and wait for more than 5 minutes.

- 1 Pull out the dipstick and wipe it out with a clean cloth. Reinsert it all the way.
- 2 Pull out it again and check the oil level.
- The oil level should be between the maximum (Max) mark and minimum (Min) mark on the oil dipstick. Oil should be replenished before the level goes below the minimum mark.

Replenishment

- 1 If the level gets to the lower point, open the filter cap on top of the cylinder block and add the genuine oil without exceeding the level of the upper mark.
- ? Recheck the oil level after 5 minutes.



Caution

- Regularly check the engine oil level and add KG Mobility genuine engine oil if necessary.
- Clean the dipstick with clean cloth so that any foreign materials cannot get into the engine.
- The oil should not go above the upper mark on the dipstick.
- The engine oil may be consumed more if the engine is new.



Warning

 Operating vehicle with insufficient amount of oil can damage the engine. Make sure the engine oil level is correct and add oil if necessary.

Function of engine oil

Engine oil's major function is to lubricate and cool the parts inside of the engine, which enables engine to work properly.

Consumption of Engine Oil

The consumption of engine oil is depending on the viscosity and quality of the oil, and the driving habit. More oil may be required under the following conditions:

- When the Vehicle is New

A new engine usually consumes more oil because its pistons, piston ring and cylinder walls are not yet adjusted with an optimal condition.

Oil Consumption: Max. 0.5 Liter per 1000 km

Accordingly, it is necessary for the driver to check frequently the oil level and to replenish oil if needed. KG Mobility Corporation recommends that the oil level be checked every time you refuel the vehicle or you drive the long distance until the first 5000 km.

- When driving at High Engine Speeds

As long as you keep the followings with sufficient care in your first running the vehicle, it will guarantee you to get excellent and comfortable performance for a long with your vehicle.

 Remember to check the engine oil level and shorten the cycle to refuel the engine oil under severe driving conditions.

- Avoid subjecting to engine to heavy loads by driving at full throttle, especially be careful when the outside temperature remains below freezing for the first 1000 km.
- Do not use the trailing in the first 1000 km driving

* What's Severe Driving Condition?

- Driving at the high engine speed or at highspeed
- Driving for consecutive two hours at high speed
- Driving the rough road, off-road, dirt-laden road, and muddy roads
- Driving in areas where salt or other corrosive materials are being used
- · Repeated driving in short-distance
- · Driving with the excessive idling
- · High load driving such as trailing

Engine care

Observe the followings to keep the engine in good condition:

- Check the engine oil level frequently under severe driving condition and add some if necessary. The change interval should be shortened as well
- Do not run a new engine at high speed until its driving distance gets 1000 km. Be extra careful when the engine is cold.
- After installing a new engine, do not tow another vehicle or a trailer until its driving distance gets 1000 km.

Change interval

- The engine oil filter element should be changed at the same time with the engine oil.
- Use only the KG Mobility genuine engine oil and filter.

Engine oil

Refer to Section "Scheduled maintenance services"

Engine oil filter

Service Interval

Same interval with the engine oil



Caution

- · The service interval may be reduced if your vehicle is driven in rough conditions.
- . Change the engine oil based on the driving distance or period, whichever comes first.

Specification and capacity

	Service interval					
Specifi-	Diesel	Quality class: KG Mobility genuine engine oil or ACEA C2 SAE 0W-30				
cation	Gasoline	Quality class: KG Mobility genuine engine oil or ACEA C2 SAE 0W-30				
Capacity	D22DTR	6.0 ℓ				
	G20DTR	5.0 ℓ				



Warning

· Use only KG Mobility genuine engine oil and filters. Use of nonrecommended products could cause damage to the engine.

Warnings and cautions when checking



Caution

· Regularly check the engine oil level and add the KG Mobility genuine engine oil if necessary.



- · Clean the dipstick with a clean cloth so that any foreign materials cannot get into the engine.
- · Use only the KG Mobility genuine engine oil.
- . The oil should not go above the upper mark on the dipstick.
- · Operating with insufficient or too much amount of oil can damage the engine.

SAE viscosity classes

The SAE classes (viscosity) should be selected in accordance with the average seasonal air temperature.

Applying the SAE classes exactly on the basis of the outside air temperatures would necessitate frequently changing the engine oil. The temperature limits for the SAE classes should therefore be regarded as reference temperatures and the actual air temperature may be higher or lower for a short period of time.

* How to check engine oil specification Example:

0W, 5W, 10W, 15W, 20W, 25W

20, 30, 40, 50, 60

Winter oil viscosity (W: Winter)

Summer oil viscosity

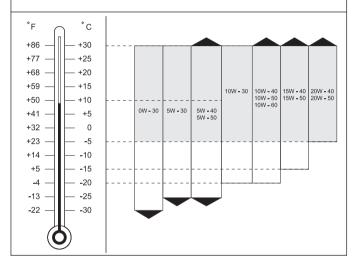
- The numerical, for example SAE 10W, relates to viscosity at particular temperature and the alphabet "W" indicates the oil's suitability for colder temperature.
- · For summer oil viscosity, higher numbers mean higher viscosities.

Notice

No separate washer fluid reservoir for the rear window is provided.
 The washer fluid is supplied from the washer fluid reservoir for the windshield.

Engine

The viscosity should be selected according to outside temperature. Do not switch to a different viscosity in the event of brief temperature fluctuations.

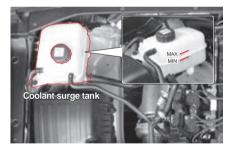


Engine coolant

Diesel Engine



Gasoline Engine



Level Check

Park the vehicle on level ground and apply the parking brake.

Stop the engine and wait until it cools.

- The coolant level should be between the MAX and MIN mark on the coolant reservoir
- Check the coolant level. If the level is below the "MIN" mark, immediately add coolant.

Service Interval

• Replacement: Every 5 years or every 200000 km

Diesel Engine (D22DTR)	10.2ℓ	KG Mobility genuine coolant Anti-Freeze SYC-1025,
Gasoline Engine (G20DTR)	11.0ℓ	Anti-Freeze:Water = 50:50 ORGANIC ACID TYPE, COLOR:BLUE

- · Check: Everyday, before driving off
- · Replenishment: Replenish as necessary



Warning



Do not remove the coolant reservoir cap when the engine and the radiator are hot. The cooling system may spray hot

coolant if the cap is removed, causing serious injuries.

· Use only the KG Mobility genuine coolant and anti-freeze.

Replenishment

Use only the 50/50 mixture of soft water and antifreeze as specified.

- 1 Open the coolant surge tank cap slowly when the engine is cold. At this time, you can hear a "hissing" sound.
- When there is no more "hissing" sound, remove the cap from the surge tank.
- 3 Add the 50:50 mixture of water and antifreeze to the coolant reservoir tank.
- 4 If no unusual things happen, tighten the coolant reservoir cap.



Caution

 Avoid any direct contact of the coolant to the painted body of the vehicle.



Caution

- An incorrect coolant mixture can result in severe malfunction or engine damage.
- Do not use a solution that contains more than 60% antifreeze or less than 35% antifreeze, which would reduce the effectiveness of the solution.
- Check the antifreeze mixture ratio after adding or replacing the coolant.

Notice

- If in doubt about the mix ratio, a 50% water and 50% antifreeze mix is the easiest to mix together as it will be the same quantity of each. It is suitable to use for most temperature ranges of -36°C (-33°F) and higher.
- The antifreeze mixture ratio at the time of vehicle delivery is 45%.



Warning

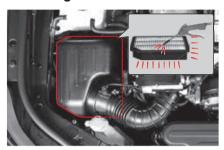
 When the coolant level is too low, the engine can overheat. If the coolant temperature gauge in the instrument cluster goes up abnormally, immediately check the coolant level. Use only the KG Mobility genuine coolant and anti-freeze. If different types of coolants or unapproved coolants are used to refill, chemical reactions can be caused and block the flow of the coolant. This may cause the engine to overheat or burning inside the engine.



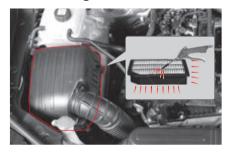
- Scalding hot coolant and steam could be blown out under pressure, which could cause serious injury. Never remove the coolant surge tank cap when the engine and radiator are hot.
- Use only the Ssangyoug genuine coolant and anti-freeze.

Air cleaner

Diesel Engine



Gasoline Engine



Cleaning

Refer to Section "SCHEDULED MAINTENANCE SERVICES".

Blow the compressed air through the element in the opposite direction to normal air flow to clean the element.



Caution

- If you blow the compressed air to normal air flow, the engine will be damaged due to foreign materials entering.
- Be careful with the direction of the compressed air on the air cleaner.



Caution

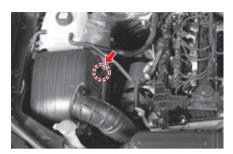
If vehicle is operated under severe condition

- · Pollutant area or off-road driving
- Driving in dusty condition or sandy condition

frequently inspect the air cleaner, if necessary, change the air cleaner.



- Do not drive your vehicle with an improperly installed air cleaner element or without it. It may damage the engine or may cause a fire.
- Do not let any object enter the housing when cleaning the air cleaner. It may damage the engine or may cause an engine to stall.



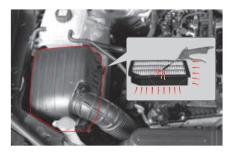
If the vehicle is operated in very dusty or sandy areas, replace more often than at the usual recommended intervals. If it is dirty, shake the element to remove dust. Clean the inside of the air cleaner housing and cover with a damp cloth.

Clean the air cleaner element by blowing compressed air through it in the opposite direction to normal air flow.



Warning

- · Engine can be damaged.
- Do not operate the vehicle without air cleaner element.

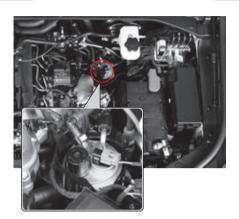


Blow the compressed air through the element in the opposite direction to normal air flow to clean the element as shown above.

Change

- 1 Open the clamp and remove the cover.
- 2 Replace the air cleaner element with a new one. Make sure that the element is correctly installed in the air cleaner housing.
- 3 Close the cover and close the clamp.

Fuel filter (D22DTR)



Priming Pump Operating Conditions

- 1 If the vehicle has been run out of fuel
- After draining water from the fuel filter
- 3 After replacing the fuel filter
 If this happens, pump fuel until the fuel f

If this happens, pump fuel until the fuel filter is fully filled. Then, start the engine.



Warning

 After replacing the fuel filter or draining the water from the fuel filter, bleed the air from the fuel filter by using priming pump.
 Otherwise, the engine cannot be started or the fuel system could be damaged due to the air in fuel line.

Water Separating Function

If water in fuel gets into the engine and fuel system, it may cause serious damage to the fuel system. The fuel filter provides the water separating function to block the inflow of water. When the water level inside the water separator in the fuel filter exceeds a certain level, the warning light comes on and the buzzer sounds. If it occurs, have the system checked by KG Mobility Dealer or KG Mobility Authorized Service Center.

	Service interval
EU	Change every 40,000 km (Draining water from fuel filter: whenever replacing the engine oil)
General	Change every 30,000 km (Draining water from fuel filter: whenever replacing the engine oil)



Caution

 Change the fuel filter according to the specified service interval.

Operating the priming pump

Operating conditions

In any of the following cases, press the priming pump a number of times to fill the fuel filter with fuel until a certain amount of fuel comes out of the priming pump hole and then start the engine.

- When the whole amount of fuel is consumed so that the vehicle is refueled with the engine turned off
- When the water separation service from the fuel filter is carried out
- · When the fuel filter is replaced

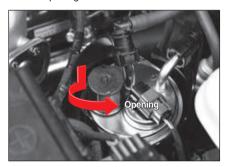


Warning

 After replacing the fuel filter or carrying out the water separation service, press the priming pump a number of times until a certain amount of fuel comes out of the priming pump hole. If you fail to press the priming pump properly, air may enter into the fuel line, causing the engine not to start or damaging the fuel system.

Operating method

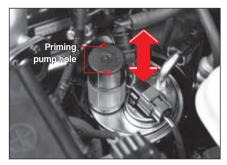
With the priming pump pressed, turn it in the opening direction.



Caution

· Caution should be taken that opening or closing the priming pump using pliers may damage the priming pump.

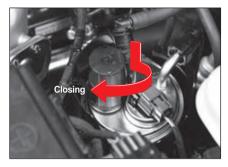
With the priming pump opened, press it a number of times until a certain amount of fuel comes out of the priming pump hole.



Warning

· When the priming pump operates, compressed fuel may be sprayed out from the priming pump hole instantaneously. Be careful not to allow the compressed fuel to come into contact with your eyes or other body parts.

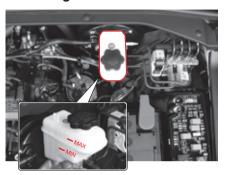
3 With the priming pump pressed, turn it in the closing direction.



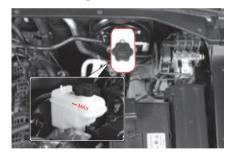
Close the engine hood and start the engine.

Brake and clutch fluld (with M/T)

Diesel Engine



Gasoline Engine



Specification and Replacement

Specification	DOT 4
Service interval	Every 2 years

Level Check and Replenishment

- The fluid level should be between the "MAX" and "MIN" levels on the reservoir.
- Check the level on a level surface. If it drops to or below the MIN mark, refill the tank with the specified fluid. Only use the specified fluid.



Caution

- Be careful not to let any foreign materials enter the tank when adding the fluid.
- · Do not add the fluid above the "MAX" level.
- Do not allow the fluid to make contact with the body paintwork.
- After adding the fluid, tighten the cap securely.
- If frequent refills are required, have the system checked by a KG Mobility Dealer or KG Mobility Authorized Service Center.



- Use only the KG Mobility genuine brake fluid.
- Do not allow the fluid to make contact with skin or eyes. If contact happens, rinse affected areas immediately with plenty of water. If irritation persists, consult a doctor.
- The fluid gradually decreases according to brake pad wear. A sudden drop of the fluid level may indicate a leak in the system. In this case, have the system checked by a KG Mobility Dealer or KG Mobility Authorized Service Center.

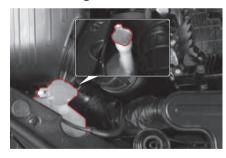
Washer fluid

Top up washer fluid

Diesel Engine



Gasoline Engine



Frequently check the washer fluid level and add the specified product as needed.

In winter, use only the specified washer liquid for winter season.

A

Caution

- If you use plain water as washer fluid, it will freeze during the winter and damage the washer fluid reservoir and motor. Use only the specified washer fluid.
- If you operate the washer switch without washer fluid, the motor could be damaged due to overloads. Therefore, if there is no washer fluid, do not operate the washer motor.
- Operating the wipers on a dry surface on the windshield or rear window without any washer fluid may cause damage to the glass. Operate the wipers after sufficiently spraying the washer fluid.
- Avoid any spills of washer fluid on the engine or body paint of your vehicle during replenishment. If washer fluid spills onto your hand or other body part, wash it away under a clean water flow.
- There is no independent washer reservoir for the tailgate window. The front washer reservoir is also for the tailgate window.



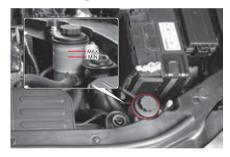
- The washer fluid includes flammable materials to prevent freezing. It could cause a fire when directly contacted with flames. When checking the washer fluid, avoid the flames near the washer fluid tank.
- If engine oil or antifreeze is used as the washer fluid, it will decrease your visibility through the windshield and may cause an accident.

Power steering fluid

Diesel Engine



Gasoline Engine



Check the fluid level on a level ground with the engine turned off. The fluid level should be between the MIN and MAX marks on the reservoir cap gauge. If it drops to or below the MIN mark, refill the reservoir with the specified fluid. Only use the specified fluid. The difference between the MIN and MAX marks shows fluctuations of the steering fluid between when it is hot and when it is cold.

Specification and Capacity

Specification	S-PSF4
Capacity (L)	Approx. 1.1 See NOTE 1: TOTAL FLUIDE DA (Extreme cold condition only)

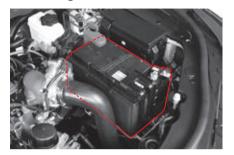
NOTE 1: Super multigrade fluid with an exceptionally high viscosity index and a very low pour point, allowing functionality of hydraulic systems at extremely low temperatures. Excellent lubricating properties even at very low and very high temperatures.

Notice

 In severe cold weather, the viscosity of the power steering oil increases, which can cause temporary abnormal noise at engine start-up.

Battery

Diesel Engine



Gasoline Engine



When the battery charge warning light () on the instrument cluster comes on, the battery is not normally charging. If the warning light comes on while driving, turn off all unnecessary electrical devices and have the system checked by a KG Mobility Dealer or KG Mobility Authorized Service Center.

Battery Maintenance

- Make sure the terminal connections are securely tightened.
- If the terminals are corroded, clean them with a wire brush or sand paper.
- The battery terminal should be disconnected only when the ignition key is removed from the key cylinder. Disconnecting the terminal with the key in the "ON" or "ACC" position may cause a sudden change in voltage and damage various electrical systems.
- Check the battery for any cracks, damages or leaks. Replace it if necessary. To remove any battery fluid on the battery surface, wear rubber gloves and wipe the fluid out with a wet-soapy cloth.

Specification

	Non-ISG	ISG
Specification	MF / 12V - 90AH	AGM / 12V - 80AH
Capacity	90AH	80AH



Caution

- If you disconnect the battery terminal when the engine is running, electrical systems could be damaged.
- To remove the battery cable, disconnect the negative cable first and be careful on the battery terminal polarity when you connect the cables. The negative and the positive should not be confused.
- The polarity of the battery, i.e. the connections for positive and negative cables, must not be interchanged. Never short-circuit the battery.
- When the ambient temperature is too low, the battery capacity will drop and can be frozen.
- Keep the battery electrolyte at its specified level. If the electrolyte level is higher than the MAX level, it can overflow during battery charging and if the electrolyte is overcharged, the battery can explode.
- Only use a battery with the approved voltage and capacity. Otherwise, an incompatible battery can catch fire.



Warning

- The battery has acid that can burn you. And its gas can explode. You can get serious injuries if you are not careful. Keep naked flames, sparks and smoking items away from the battery.
- Loosely connected batter terminals can set up sparks. These sparks can cause a fire with flammable gas. Therefore, tightly connect the terminals.
- At night, if you need to check the engine room, do not use a lighter, but only use a battery-powered flashlight.
- Because the battery electrolyte is very strong acid, avoid any direct contact of the battery electrolyte on your skin or vehicle's body. If the acid contacts your skin, thoroughly wash your skin with fresh water and see your doctor. Do the same on your vehicle.
- Wear eye protection when working with a battery. If working in a closed area, keep good ventilation.



Warning

- Always use the battery with correct voltage for the vehicle. Otherwise, there is a risk of fire.
- · Observe the indications on the battery.



Always read the safety instructions in the User Manual before working on the battery.



The battery cell always contains highly flammable hydrogen gas which may explode if ignited. Be sure to keep it away from a cigarette, a spark or other flames.



Wear a protective goggle when charging the battery or performing any work. In addition, ensure adequate ventilation of the enclosed space.



The battery electrolyte solution contains a highly corrosive sulfuric acid. Be careful not to contact it with skin, eyes, clothes or paint. In particular, keep out of the children's reach.



When in contact with the skin, wash off the contact area; In case of eye contact, flush with running water for at least 15 minutes, and seek medical help immediately.



The hydrogen gas in the battery is highly flammable and may explode if ignited.



Do not throw out used battery as this pollutes the environment and is hazardous to our health. For environmental protection, used, properly dispose of used battery at designated disposal sites only.

Spark plugs - Gasoline engine



Spark plugs should be inspected periodically for carbon deposits. When carbon accumulates on a spark plug, a strong spark may not be produced.

Do not clean the electrodes with a fine wire brush and carefully scrape the carbon off the insulator with a small file. The spark plugs should then be blown clean with compressed air and the upper insulator wiped clean. Do not adjust the spark plug gap.

Service Interval

Specification (G20DTR)

Replacement (G20DTR)	Change every 60,000 km	
Specification	NGK	SILKAR8H9G



Caution

Gap 0.9 ± 0.1 mm

- When replacing the spark plugs, disconnect the negative terminal of the battery and turn off all the switches.
- It is recommended that the engine be cool or cold when changing the spark plugs (you could burn yourself).
- · Do not use non-recommended spark plugs.
- Do not allow contaminants to enter spark plug hole.



Warning

 Spark plugs may be very hot. Be careful not to burn yourself.

Checking the wipers and replacing the blade

Replacing the blade of windshield wiper

Lift the wiper arm up with the engine turned off.



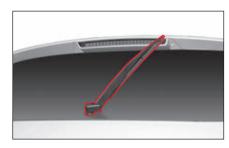
Press the wiper blade retainer (1) and pull the wiper blade out in the arrow direction **(2)**.



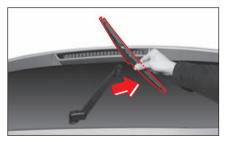
- Insert a new wiper blade.
- Put the wiper arm down.

Replacing the blade of rear window wiper

1 Lift the wiper arm up with the engine turned



With the wiper blade lifted to its side, remove it by pulling it in the arrow direction.



- Insert a new wiper blade until a clicking sound occurs.
- Put the wiper arm down.

Specifications of wiper blade

Windshie			
Driver seat side	Front passenger seat side	Rear window wiper	
650 mm	500 mm	325 mm	
26 "	20 "	13 "	

Warning

- · If there is a problem in wiper operation, it can be a fatal obstacle to safe driving when it rains or snows. Never drive the vehicle on a snowy day or a rainy day if the wiper does not operate.
- · Holding the wiper arm or placing your hand near the operating part when the wiper is operating may cause an injury.

$oldsymbol{\Lambda}$

Caution

- Do not open the engine hood with the wiper lifted up. Doing so may damage the engine hood and the wiper.
- Do not operate the wiper when the windshield is dry.
- Do not wipe the windshield or the rear window with a towel stained with oil or wax. If the windshield or the rear window is stained with oil or wax, an abnormal noise may occur when you operate the wiper or light is reflected at night, making you unable to see the front well.
- When you check the wipers, be sure to lift the driver seat side wiper arm up first and then lift the front passenger seat side wiper arm up.
- When you lift the driver seat side wiper arm up, it may interfere with the front passenger seat side wiper arm, but that is normal.

Checking and replacing fuses and relays

If an electrical system does not operate normally, check the relevant fuse first. If the fuse is blown, replace it with a fuse of the same capacity.

A

Warning

 Not using a bulb or using a bulb with the capacity that does not meet the specifications or modifying the HID bulb or LED lamp wiring arbitrarily may cause the fuse disconnection, malfunction or damage other wiring-related devices.



Caution

- Removing a fuse while the electricity is being supplied may damage the relevant electrical system. Be sure to replace a fuse after turning off all electrical systems and the engine.
- Replace the fuse with a new one of the same capacity that meets the specifications.
- If the replaced fuse is blown continuously, have your vehicle checked and serviced at a KG Mobility authorized service center.

Notice

 Refer to the label attached to the fuse and relay box cover for the capacity and name of fuse.

Engine compartment fuse and relay box

Open the engine hood and lift the fuse box cover up with the locking lever (1) in front of the engine room compartment fuse box cover pressed.





Interior fuse box

Open the driver seat door and open the interior fuse box by inserting your finger on the groove of the interior fuse box cover (1) and pulling it.





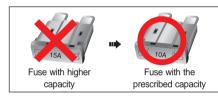
Checking and replacing fuses

- 1 Turn off all electrical systems and the engine.
- Open the cover of the engine compartment fuse box cover or the interior fuse box.
- 3 Check the relevant fuse by referring to the block diagram of the fuses shown inside of the fuse box cover.
- 4 Pull out the relevant fuse by using the fuse puller.

The fuse puller is provided in the engine compartment fuse box.



- 5 Check visually whether the fuse is blown or not.
- 6 If the fuse is normal, insert it back to its original position.
- 7 If the fuse is blown, check the capacity indicated on top of the fuse and replace it with a new fuse of the same capacity.





Warning

- Using steel wire, copper wire or aluminum foil instead of the fuse may cause a fire due to the overload of the electrical system.
 Always use a fuse with the prescribed capacity.
- Never use a fuse with a capacity higher than the prescribed capacity indicated on the fuse and relay box since a fuse with higher capacity may damage electrical systems or cause a fire.
- When the fuse is disconnected, use a normal fuse with the prescribed capacity.

Notice

 Spare fuses for each capacity are provided in the fuse and relay box. If you use a spare fuse, replenish with a new one immediately. The capacity is indicated on top of the fuse.

Checking and replacing the lamps

Specifications of lamps and checking

Specifications and quantity of lamps and bulbs

Classification			Quantity	Specifications
	Head lamp	High beam	-	LED
		Low beam	-	LED
Exterior lamp		Turn signal/sidelight/ daytime running light (DRL)	-	LED
(front side of the	Front fog light		-	LED
vehicle)	Side repeater (auxiliary turn signal)		-	LED
	Puddle lamp		-	LED
	Welcome light (door handle lamp)		-	LED
	Rear lamp	Tail light/Stop lamp	-	LED
Exterior	Turn signal		-	LED
lamp (rear side of the vehicle)	Backup lamp		-	LED
	Rear fog light		-	LED
	License plate lamp		-	LED
	High mounted stop lamp		-	LED

	Classification	Quantity	Specifications
	Front room lamp	-	LED
	Center room/luggage room lamp	-	LED
	Glove box lamp	1	5W
	Sun visor/mirror lamp	2	5W
Interior lamp	Door courtesy lamp	4	5W
	Foot lamp (driver seat/front passenger seat)	2	5W
	Dashboard lamp (center)	-	LED
	Door inside handle lamp	-	LED
	Front door trim mood lamp	-	LED
	Dashboard mood lamp (front passenger seat side)	-	LED

Checking the lamps

Operate the ON/OFF switch of various lamps to see if the lamp turns on or off normally.

If the lamp does not turn on, check the lamp in the following order and replace the relevant part if it is abnormal.

- Fuse
- Bulb

If the fuse and the bulb are normal, have your vehicle checked and serviced at a KG Mobility authorized service center.

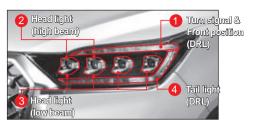


Caution

- · Only use a bulb with the prescribed capacity when replacing the lamp.
- . Be sure to disconnect the negative (-) battery cable or turn off the engine before replacing the lamp.
- Removing the lamp cover forcibly may damage the lamp cover so that it may not be used again, so caution should be taken when removing the lamp cover.
- · Before replacing a bulb, be sure to turn off the relevant lamp and the engine.
- · Do not touch the bulb with your hands during or right after bulb operation since there is a possibility of a burn.
- · Holding the glass part of the bulb with your hand may leave a fingerprint, dust or moisture on the bulb, reducing its life or exploding it. In such case, wipe the glass part with a soft cloth.
- · Be sure to have the aiming angle of the head lamp adjusted by a KG Mobility authorized service center.

- · The internal surface of the head light and braking light lamp may be fogged temporarily under conditions such as rain or car washing. This is dew condensation according to a temperature difference between the inside and the outside of the lamp and it is not a functional problem. However, if water enters into the lamp or a large water drop occurs inside the lamp, contact a KG Mobility authorized service center.
- · To replace an exterior lamp bulb, visit a KG Mobility authorized service center.

Position of exterior lights and lamps



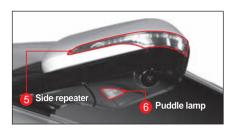




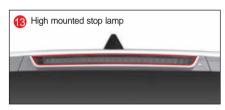














Replacing exterior lamps

The exterior lamp is the LED-integrated type which should be checked and replaced at a KG Mobility Dealer or KG Mobility Authorized Service Center.



Warning

- Replacing with a lamp that does not meet the specifications may cause the disconnection of a fuse, malfunction or a fire.
- Before replacing the lamp, park the vehicle at a safe place, turn off the engine and disconnect the negative (-) battery cable. (After connecting the battery again, reset some functions of the vehicle.)
- Do not touch the bulb with your hands during or right after bulb operation since there is a possibility of a burn.



Caution

- When you install the lamp again after replacing it, install the socket firmly to the hole by turning it clockwise.
- · Be sure to use genuine parts for the lamp.
- Do not install an additional lamp or LED for the lamps installed previously on the vehicle.

Replacement of headlamp desiccant

If the headlamp condensation problem persists, please replace the desiccants.



Headlamp absorbent*

A consumable desiccant is included in the headlamp (high beam/ low beam / turn signal / side lamp and daytime running lamp) to mitigate fogging due to moisture. An inside fogging problem lasts for a longer period of time, have the system checked and serviced by a KG Mobility Authorized Service Center.

Position of interior lamps























Replacing the interior lamps

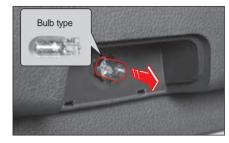
Replacing the door courtesy lamp

1 Disconnect the negative (-) battery cable and remove the lamp cover using a flat bladed screwdriver.



Caution

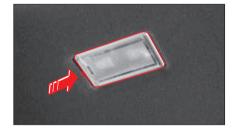
 Be sure to remove the lamp cover from the part marked with an arrow (top part) first.
 Removing it from the part on the opposite side first may damage the cover. 2 Remove the lamp by pulling it in the arrow direction and replace it with a new one. At this time, avoid leaving a fingerprint or a foreign material on the surface of the bulb.



3 After replacing it, install the cover again.

Replacing the sun visor/mirror lamp

1 Turn off the engine and remove the lamp cover using a flat bladed screwdriver.

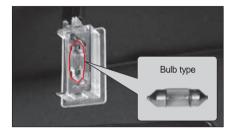


⚠ Ca

Caution

 Be sure to remove the lamp cover from the part marked with an arrow first. Removing it from the part on the opposite side first may damage the connector and the cover. 2 Remove the lamp and replace it with a new one.

At this time, avoid leaving a fingerprint or a foreign material on the surface of the bulb.



3 After replacing it, install the cover again.

Replacing the glove box lamp

Disconnect the negative (-) battery cable and remove the lamp cover using a flat bladed screwdriver.

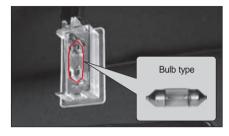


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Caution

 Be sure to remove the lamp cover from the part marked with an arrow first. Removing it from the part on the opposite side first may damage the connector and the cover. 2 Remove the lamp and replace it with a new one.

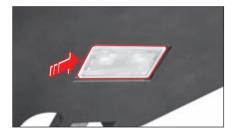
At this time, avoid leaving a fingerprint or a foreign material on the surface of the bulb.



3 After replacing it, install the cover again.

Replacing the front passenger seat foot lamp

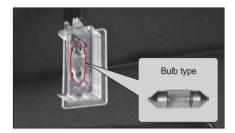
1 Disconnect the negative (-) battery cable and remove the lamp cover using a flat bladed screwdriver.





- Be sure to remove the lamp cover from the part marked with an arrow first. Removing it from the part on the opposite side first may damage the connector and the cover.
- 2 Remove the lamp and replace it with a new one.

At this time, avoid leaving a fingerprint or a foreign material on the surface of the bulb.

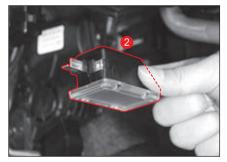


3 After replacing it, install the cover again.

Replacing the driver seat foot lamp

- 1 Disconnect the negative (-) battery cable.
- 2 Separate the foot lamp assembly (2) by pushing and detaching it from the rear right side (1) of the driver seat foot lamp first.





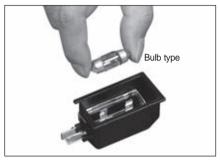
Remove the cover (4) by lifting up the 4 parts on the cover fixing part of the foot lamp assembly (3).





4 Remove the lamp and replace it with a new one

At this time, avoid leaving a fingerprint or a foreign material on the surface of the bulb.



After replacing it, install in the reverse order of removal.

Replacing the A/C filter

In any of the following cases, replace the A/C filter even if the replacement interval has not come near.

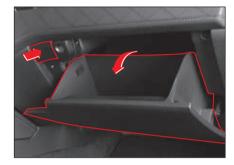
- · If an unpleasant smell comes out when you operate the A/C after it is not operated for a long period of time
- If the cooling and heating performance or air blowing performance is lowered



Caution

- · Replace the A/C filter every 10,000 km. However, if the vehicle is driven on a road where the air is heavily polluted, an unpaved road or the A/C and the heater are used excessively, replace the A/C filter earlier than the replacement interval.
- . If the A/C filter is contaminated, the cooling performance may be lowered and an unpleasant smell may occur when you operate the A/C.
- · Be careful not to switch the installation direction when replacing the A/C filter.

Open the glove box by pressing the open switch.



Pull the fixing holder on the left side and the right side of the glove box in the arrow direction.





Caution

· Do not pull the fixing holder of the glove box forcibly. Doing so may cause the fixing holder to deform, and the fixing status of the glove box may be loose when it is installed again.

3 Separate the glove box damper clip from the bottom right side of the glove box.



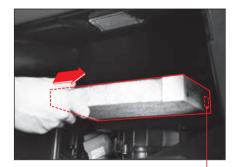
4 Remove the A/C filter cover by pressing the right side of the A/C filter cover.



5 Remove the A/C filter.



6 Replace it with a new one. Install it with the "AIR FLOW arrow" facing down.





7 After replacing it, install it in the reverse order of A/C filter removal.

Checking the tires and wheels

Checking the tire pressure

Check the tire pressure before driving the vehicle or when the tires are cooled down completely.



Caution

 If the tire pressure is higher or lower than the prescribed value, the riding comfort or steering stability are lowered and the tires are easily damaged and uneven tire wear occurs. Be sure to adjust the tire pressure to the prescribed value.

Prescribed tire inflation pressure

Classification	Туре	Wheel	Tire pressure
Driving tire	235/70R17	7.0JX17	34 psi, (2.3 bar)
	255/60R18	7.5JX18	
	255/50R20	8.0JX20	(2.0 bai)

Notice

 The prescribed tire inflation pressure is measured when the tire has been cooled down properly at room temperature. If you need to drive the vehicle on an expressway for a long period of time, increase the tire inflation pressure by 4~5psi from the prescribed value on the table.

Wheel alignment status and the balance between tires and wheels

If the wheels are not aligned as prescribed, it leads to uneven or accelerated wear of the tires and causes the vehicle to lead to one side while driving.

If the tires and wheels are not balanced, it may lead to vehicle vibration or uneven wear of tires.

In such case, have your vehicle checked and maintained at a KG Mobility authorized service center.

Checking the status of tire wear

Check the status of tire wear on the contact surface of the tire along the marked part. Replace the tire before the tire tread goes down below the wear limit.

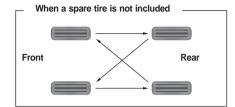


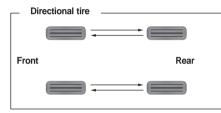
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Warning

- Check the tire for damage or the status of tire wear frequently and replace if necessary.
- If the tire is worn excessively, the braking distance may increase or the steering wheel may become heavier. Also, the tire may be blown, resulting in an accident.

Rotating the tire positions





Refer to "When you have rotated the tires" (p.2-32)

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Warning

- Be sure to replace a tire at a KG Mobility authorized service center or a professional tire shop.
- Be sure to install the same manufacturer's tires with the same specifications, not mixing different types of tires.

Snow tire

Use snow tires in order to drive the vehicle safely on a snowy road or an icy road during winter.

The snow tires should be installed on all 4 wheels.

Warning

- If the snow tires for driving on a snowy road and an icy road are not installed, drive the vehicle as slowly as possible.
- The snow tire with the driving direction arrow on its side wall should be installed according to the driving direction.
- The snow tire is manufactured in consideration of the characteristics of road surface during winter. However, it is an auxiliary aid, so be sure to install the snow chains on a snowy road and an icy road and drive the vehicle as slowly as possible for safe driving.
- Replace the snow tires with ordinary tires when the winter has passed. Store the snow tires in a cool place with no direct sunlight and be careful not to allow them to come into contact with oil, grease or fuel.

Tire chain

- Install the tire chains on the rear wheels for a 2-wheel drive vehicle and install the tire chains on both the front and rear wheels for a 4-wheel drive vehicle. If it is impossible, be sure to install the tire chains on the rear wheels.
- In case of a vehicle equipped with aluminum wheels, the wheels may be damaged if the tire chains are used. Therefore, use snow tires instead of the tire chains. If it is impossible, use the wire-type tire chains.
- When the tire chains are installed, drive the vehicle at a prescribed speed recommended by the chain manufacturer or at a speed of 30 km/h or less.
- If you hear a sound of the tire chain hitting the vehicle body, stop the vehicle immediately, check the installation status of the tire chains and tighten the tire chains if necessary.
- Take the tire chains off immediately on a normal road to prevent the chains from being damaged.
- Do not use the tire chains on a normal road, use only on a snowy road or an icy road.

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Warning

- After driving the vehicle with the tire chains installed for a certain distance (0.5~1 km), check the installation status of the tire chains and for any damage to the vehicle body. If the tire chains are loose, tighten them again.
- Be sure to use a tire chain that meets the specifications and install it correctly. If the tire chain does not meet the specifications or is installed incorrectly, the vehicle may be damaged or a serious problem in the steerability and safety of the vehicle may occur.

Cautions for checking the tires and wheels



Caution

- Be sure to use the same manufacturer's tire with the same specifications for all tires in order to maintain the characteristic of the vehicle safely.
- Be sure to check the status of tire wear and the tire pressure before driving the vehicle.
- The tire pressure and tightening status of tire wheel nuts should be checked frequently. Be sure to check the vehicle condition, tire pressure and the tightening status of tire wheel nuts before driving the vehicle for a long distance.
- Only use the same manufacturer's tires
 that meet the specifications. If the tire that
 does not meet the specifications when
 installed, you cannot operate the steering
 wheel normally, the fuel consumption
 may increase and the driving system or
 braking system of the vehicle may become
 abnormal. In addition, the vibration of the
 steering wheel and uneven tire wear may
 occur when you drive the vehicle at a high
 speed.
- Installing a tire that does not meet the specifications or a retreaded tire voids the warranty repair.

- Check the tires and wheels always before driving the vehicle. If the wheels are damaged, the tire pressure may decrease and the tires may be damaged.
- If a tire has been impacted by a stone or any other objects while driving, have your vehicle checked and serviced at a KG Mobility authorized service center immediately.
- Do not mix the tires and wheels installed when the vehicle was shipped with other tires and wheels. Doing so may affect the driving stability of the vehicle, causing an accident.
- Check the status of the emergency tire service kit. Always check the operation status of the compressor and the preparation of sealant.
- Be sure to check and add the tire pressure before driving the vehicle for a long period of time or at a high speed. Driving the vehicle at a high speed with low tire pressure may cause the tires to burst due to the standing wave effect, resulting in a risk such as a rollover.

Vehicle management during winter

Various unfit elements for driving occur on a road in winter, so make sure to prepare in advance in order to respond properly.

Starting the engine and driving the vehicle

During winter, the resistance of the power train in the engine increases and the performance of the battery and the starting motor is lowered so that the engine may not be started smoothly. Start the engine in a proper way.

After starting the engine, allow enough time to warm it up before driving the vehicle. It will increase the engine's life expectancy and ensure smooth driving.



Caution

- Replace the engine oil and the fuel filter according to their replacement intervals.
 A decrease in flowability and the clogging of the fuel filter and the oil filter due to the contamination of engine oil may become an obstacle to starting the engine in winter.
- Do not add additives such as white kerosene or alcohol besides the genuine fuel arbitrarily in order to improve the startability. Doing so may damage the engine and relevant parts or cause excessive exhaust gas emission due to inadequate lubrication of important parts inside of the fuel system and different characteristics such as flash point.
- Be sure to preheat a diesel-powered vehicle before starting the engine.

Managing the engine oil

This vehicle is shipped after it is filled with 4-season engine oil. If the replacement interval has not come, you do not need to change the engine oil.

Managing the engine coolant

Be sure to check the concentration of coolant before the temperature begins to drop.

If only water has been added to the vehicle without antifreeze when replenishing the coolant, the coolant may freeze, damaging the engine and the cooling system seriously when the temperature drops below 0°C.



Caution

- When adding or replacing the coolant, be sure to use a mixture of water and antifreeze at the ratio of 50:50.
- Use only the KG Mobility genuine antifreeze for the coolant.

Notice

- This vehicle is shipped after it is filled with 4-season antifreeze.
- The antifreeze mixture ratio at the time of vehicle delivery is 45%.

Managing washer fluid

Use only genuine washer fluid that does not freeze in cold weather.

If the washer fluid freezes due to the use of a non-standard washer fluid it may damage the washer motor and interfere with safe driving.

Installing a snow tire

It is recommended to replace the tires with snow tires during winter in order to prevent the vehicle from slipping on a snowy road or an icy road.



Caution

- Drive the vehicle at a lower speed than usual if the snow tires are installed.
- Install the tire chains in a correct way.
 Failure to do so may damage the wheel house or the vehicle body.

Managing the A/C

If the A/C is not used for a long period of time, the lubrication inside the A/C is not carried out. As a result, the packing inside of the A/C may be hardened that may lead to refrigerant leak and malfunction due to rusting.

It is recommended to operate the A/C for 5 to 10 minutes once a week regardless of season in order to maintain the performance of the A/C continuously.



Caution

 Do not remove the refrigerant in winter even if the A/C is not used.

Management of a dieselpowered vehicle

In severe cold, paraffin which is one of the chemicals in diesel fuel, may be separated from the diesel fuel, lowering the starting performance of the vehicle. A flow improver is added to the diesel fuel (for winter) sold in the country during winter.

However, the components of the flow improver for the fuel supplied may vary according to the average temperature during winter by region.

Park your vehicle indoors if possible during winter to ensure smooth starting and fill the fuel tank after driving to prevent the fuel system from freezing due to water vapor condensation.

Other maintenance

- Prepare sand bags, snow chains, shovel, gloves and old clothes in the vehicle in advance in preparation for driving the vehicle in the countryside or heavy snow.
- Do not drive too fast, accelerate or brake or steer the vehicle suddenly on a snowy road or an icy road.
- When you drive the vehicle on a snowy road or an icy road, keep a safe distance twice as long as usual from a preceding vehicle and downshift to use the engine brake effect properly when you stop the vehicle.
- Do not operate the wiper when it is frozen.
 Doing so may overload, damaging the wiper motor.
- When you drive the vehicle on a snowcovered road, a large amount of snow may build up under the wheel house, making it difficult for you to operate the steering wheel, so check and remove it frequently.
- When you have passed a road where calcium chloride is sprayed, wash your vehicle as soon as possible to prevent the bottom part of the vehicle from being corroded.

- If you park the vehicle in a snowy place, the brake system may froze, reducing the braking force while driving. In such case, depress the brake pedal frequently while driving the vehicle at a low speed, restoring the braking force, and then drive the vehicle normally.
- Do not start off in the vehicle forcibly while the parking brake is frozen. Doing so may damage the vehicle. Be sure to start off in the vehicle after the parking brake has melted.

Cautions for parking during winter

- When the temperature falls down below zero, the parking brake may not be released due to the freezing of EPB-related devices.
- When you park the vehicle on a flat and safe place in weather with below zero temperatures, use a chock on the wheels after parking instead of using the EPB.
- If the vehicle is parked/stopped while idling for a long time after starting the engine in cold weather, the water vapor in the exhaust gas condenses and accumulates inside the exhaust pipe. The accumulation of water inside the exhaust pipe can cause noise. However, it is discharged during medium- and high-speed driving.
- When you park the vehicle in weather with below zero temperatures, moisture remaining in the exhaust pipe might have frozen. This is a normal state of the vehicle. Do not depress the accelerator pedal or idle the engine for a long period of time in order to remove frozen moisture.

Cautions for using biodiesel fuel



Caution

The fuel system of the CRDI (Common Rail Direct Injection) type engine is very precisely machined, so using a low quality fuel or an excessive amount of biodiesel fuel may damage the engine due to water, impurities or floating particles included in the fuel.

- Using fuel mixed with an excessive amount
 of biodiesel fuel may cause the clogging
 of the fuel filter, power loss, engine idling
 problems, engine stall and difficulty in
 starting the engine during winter due to the
 generation of floating particles according
 to the characteristics of the biodiesel and
 damage the engine and the fuel system.
- Currently, the KG Mobility vehicle is designed in the way that only the product whose mixing ratio between biodiesel and normal diesel falls within a legally acceptable value can be used for safe driving.
- Using biodiesel whose mixing ratio is beyond such a legally acceptable value or using diesel sold in the market after adding biodiesel may lead to a malfunction in the vehicle and such a malfunction is not covered by the warranty.

What is biodiesel?

Biodiesel is a fuel made by reacting vegetable oil extracted from beans, rapeseed and rice bran with alcohol. Its physical and chemical properties are similar with those of normal diesel, so it is considered as an alternative (renewable) energy to the fuel of a diesel engine.

Cautions for driving a vehicle equipped with the turbo charger



Caution

When the supply of oil is suspended while the bearing unit in the turbo charger is spinning at a high speed, the turbo charger may seize. Therefore, handle the vehicle as follows.

- Replace the engine oil according to the replacement interval. If the engine oil is not changed according to the prescribed replacement interval, the bearing unit of the turbo charger may not be lubricated smoothly, causing the bearing unit to be seized or damaged.
- Right after starting the engine, do not start off or accelerate suddenly or increase the engine RPM rapidly during idling. Doing so may cause oil not to be supplied to the bearing unit of the turbo charger, damaging the bearing unit of the turbo charger.
- After driving the vehicle at a high speed or on a hillside road, do not turn off the engine immediately. Idle the engine for approximately 1 minute and then turn off the engine. Turning off the engine immediately while the turbo charger is spinning at a high speed, engine oil may not be supplied to the turbo charger, damaging the bearing part of the turbo charger.
- After changing the engine oil or replacing the oil filter, do not start off in the vehicle immediately. Start off in the vehicle after idling the engine for approximately 2 minutes or more.

What is the turbo charger?

The turbo charger rotates the turbine with the force of exhaust gas, compresses air with such rotatory force and supplies the compressed air to the combustion chamber of the engine to raise the engine output.

At this time, when the intercooler is installed between the turbo charger and the intake vent of the engine to cool down air, the air density increases in this process, improving the output of the engine further.

Warnings for self-maintenance

When the vehicle is checked and serviced by the driver, proper knowledge and special attention are necessary for preventing injury and damage to the vehicle.



Warning

- After driving the vehicle, the systems including the engine, radiator, exhaust manifold, catalyst converter and exhaust pipe (muffler) are very hot, so caution should be taken when checking the engine room. Turn off and cool down the engine properly before checking in order to prevent a burn.
- Be sure to turn off the engine, place the gear shift lever in the P (parking) position and apply the parking brake when checking the vehicle.
- Be sure to turn off the engine when checking the vehicle in a garage or a poorly ventilated space.
- Do not smoke when checking the battery, fuel-related parts or the washer fluid. Do not check the battery, fuel-related parts or the washer fluid in a place where flames or sparks occur easily.
- Do not connect or disconnect the battery when the START/STOP switch is in the ON position.
- When you connect battery cables, be careful not to switch the positive and negative cables.
- The battery cables and the wires in the vehicle transfer high current and voltage.
 Be careful of a short circuit.
- Keep the used oils, coolant and other fluids out of children's reach.
 (Ask a professional company for disposal.)

- The cooling fan may spin even if the engine is not running. Separate the negative battery cable when you check the vehicle near the cooling fan or the radiator.
- Check the level of various oils and coolant daily. Driving the vehicle with insufficient oils or coolant may damage the vehicle which is not subject to warranty repair.
- Be sure to use genuine parts for replacing consumable parts.
- When you add any oil or coolant, be careful for the oil or coolant not to come into contact with your body, clothes or the painted surface of the vehicle. If it comes into contact with your body, wash it off immediately and consult your doctor.
- Adding more oil or coolant than the prescribed level may damage the systems.
 Always add a proper amount of oil or coolant.
- When you inject or add any oil or fluid, do not allow foreign materials such as moisture or dust to enter. Failure to do so may lower the vehicle performance and make normal functions inoperable, causing an accident while driving.
- When a long period of time has passed even if the mileage is low, the level of oils or coolant may become low. Check it frequently and add it if necessary.
- Used oils, coolant and other solutions and containers should not be discarded with household waste. Discard oils, coolant and other solutions according to a legitimate disposal procedure.

Regulation of exhaust gas and relevant systems

Particulate reduction management for diesel-powered vehicle

The generation of particulates is closely related to the status of the air cleaner, fuel filter and fuel, injector and engine adjustment status, load amount and the number of occupants.

For a diesel-powered vehicle, the amount of particulates can be reduced in any of the following methods.

 Do not idle the engine for a long period of time.

When the engine is idling, the exhaust gas emission speed is slow, causing difficulty in the emission of particulates (carbon waste), so particulates may build up in the exhaust pipe (muffler). In particular, if you idle the engine for a long period of time while using the A/C and electrical systems, the accumulation amount of particulates may increase.

 Replace the consumable parts according to the replacement intervals and clean the vehicle frequently.

Since the fuel filter, air cleaner and engine oil affect the exhaust gas, output and fuel economy of the vehicle significantly, these parts should be replaced and cleaned periodically.

In particular, if the air cleaner is clogged, a large amount of particulates is generated. Clean and replace the air cleaner parts frequently if necessary.

If the vehicle is driven under severe conditions such as an unpaved road, clean and replace the air cleaner parts earlier than the interval according to the contamination status.

• Do not remodel or modify your vehicle illegally.

A vehicle whose intake/exhaust system of the engine and electronic control unit are modified illegally, emits an excessive amount of exhaust gas and particulates.

Do not overload.

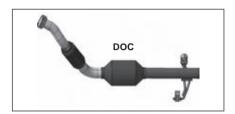
Overloading may damage the engine, increasing particulates and reducing the life of the engine.



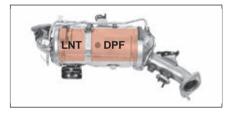
Warning

- Do not use a low quality fuel or inappropriate additives. Doing so may damage the fuel storage and supply system, engine and exhaust gas-related systems.
- Using additives or other inappropriate fuels voids the warranty repair.
- Use low sulfur diesel for a diesel-powered vehicle. When fuel with a sulfur content of over 0.5% of the total fuel is used, an excessive amount of exhaust gas may be generated and the oil flow function on the specially treated inside wall of the cylinder may be obstructed.

Emission reduction device







This vehicle is equipped with the Diesel Oxidation Catalyst (DOC) for EU4 emission reduction.

This vehicle is equipped exhaust gas aftertreatment system with the Lean NOx Trap (LNT) and Diesel Particulate Filter (DPF) for EU6 emission regulations.

The DOC converts HC and CO2 in the fuel to H2O and removes 80% of the Soluble Organic Fraction (SOF) among particulate materials, thereby reducing 25% or more of particulate materials.

The exhaust from the engine flows through the LNT. LNT NOx traps under lean engine operation conditions and catalyst oxidizes HC and CO efficiently. Trapped NOx is released from the catalyst when the engine operation mode is switched to rich conditions. During rich regeneration, the NOx is converted into harmless nitrogen.

The DPF collects particulate materials to the filter and removes them by combustion. This device removes 95% or more of particulate materials.

Catalyst Diesel Particulate Filter (DOC) - EU4

The DOC is a compound word for Diesel Oxidation Catalyst (DOC), which are exhaust gas aftertreatment system.

LNT (Lean & NOx Trap) DPF (Diesel Particulate Filter) - EU6

The LNT (Lean & NOx Trap) DPF (Diesel Particulate Filter) is a system to eliminate the nitrogen oxide from exhaust emissions. Use the specified fuel to avoid exhaust smell due to the poor quality fuel and to maintain the normal performance of the LNT DPF.

Regeneration Process

"Regeneration" is the process of combusting particulates when a certain amount of particulates is collected in the filter. In this process, the temperature of exhaust gas rises to approx. 600°C by fuel control and particulates are effectively incinerated.

When the Engine CHECK Indicator Flashes



Regeneration may not be performed due to several operating conditions. And in this case, the engine CHECK indicator flashes. This flashing function is to inform the driver to take action for the proper regeneration of the filter.

If the engine CHECK indicator flashes, drive the vehicle at over 80 km/h for 20 minutes to regenerate the DPF. When the amount of particulates is lowered down to a certain limit, the engine CHECK indicator goes off.

Exhaust gas after-treatment system II (SCR)*



Our exhaust gas after-treatment system applies the SCR (Selective Catalytic Reduction) system to reduce nitrogen oxide (NOx) remaining in the exhaust gas.

This system consists of urea solution injection system, urea solution injection control system (DCU) and SCR catalyst.

Warning due to low urea solution level

Low urea solution level warning appears on the display of the instrument cluster separately in 3 levels according to the distance the vehicle can be driven with the remaining urea solution.



Caution

 Do not drive the vehicle without replenishing the urea solution when the low urea solution level warning appears or the warning lamp turns on. Doing so may damage the urea solution system significantly or make the vehicle inoperable. Add urea solution or have your vehicle checked and serviced at a KG Mobility authorized service center immediately.

Level 1 warning





- The mileage the vehicle can be driven when this warning message appears is 2,400 km to 800 km.
- The relevant warning message appears for 15 seconds every 200 km or 4 hours.
- If this warning message appears, replenish 6
 L of urea solution or more immediately.



Caution

 If you start the engine immediately after adding urea solution, the engine may not start temporarily. Wait until the urea solution level gauge rises and stops completely, and then start the engine.

Notice

- The amount of urea solution to be consumed may vary depending on driving habits and surrounding environment.
- Approximately 1.0 to 1.5L of urea solution is consumed when the vehicle is driven for 1.000 km.
- In the Level 1 warning, only the warning message appears. The warning lamp does not turn on.

Level 2 warning





- The mileage the vehicle can be driven when this warning message appears is 800 km to 0 km.
- In the level 2 warning, the warning lamp stays on and the warning message is displayed continuously.
- If this warning message appears, replenish 10 L of urea solution or more immediately.

Level 3 warning





- If this warning occurs while driving, driving is possible, but the engine cannot be restarted when it is turned off.
- In the level 3 warning, the warning lamp stays on and the warning message is displayed continuously.
- If this warning message appears, replenish sufficient amount of urea solution immediately.

Warning due to faulty urea solution system, low urea solution and catalyst efficiency

Item	Supervision type	Standard type	Activation conditions
	Check UREA solution	Check UREA solution	If an electrical defect and defect in the urea solution injection control system occurs, the 1st warning appears for 50 km.
Warning due to an electrical defect and defect in the urea solution injection control system	Unable to restart engine after 000 km! Check UREA solution	Unable to restart engine after 000 km! Check UREA solution	After the 1st warning, the 2nd warning appears when the mileage the vehicle can be driven is 800 km to 0 km.
	Unable to restart engine. Check UREA solution	Unable to restart engine. Check UREA solution	After the 2nd warning, the 3rd warning appears when the mileage the vehicle can be driven is 0 km. In such case, the engine cannot be started again.

Item	Supervision type	Standard type	Activation conditions
	Check UREA solution injection device	Check UREA solution injection device	If a defect of the urea solution injection system occurs, the 1st warning appears for 50 km.
Warning due to a defect of the urea solution injection system	Unable to restart engine after 000 km! Check UREA solution injection device	Unable to restart engine after 000 km! Check UREA solution injection device	After the 1st warning, the 2nd warning appears when the mileage the vehicle can be driven is 800 km to 0 km.
	Unable to restart engine. Check UREA solution injection device	Unable to restart engine. Check UREA solution injection device	After the 2nd warning, the 3rd warning appears when the mileage the vehicle can be driven is 0 km. In such case, the engine cannot be started again.

Item	Supervision type	Standard type	Activation conditions
	UREA solution is inappropriate	UREA solution is inappropriate	If low quality urea solution is used, the 1st warning appears for 50 km.
Warning due to low quality urea solution	Unable to restart engine after 000 kml Inject appropriate UREA solution	Unable to restart engine after 000 km! Inject appropriate UREA solution	After the 1st warning, the 2nd warning appears when the mileage the vehicle can be driven is 800 km to 0 km.
	Unable to restart engine. Incorrect UREA solution detected	Unable to restart engine. Incorrect UREA solution detected	After the 2nd warning, the 3rd warning appears when the mileage the vehicle can be driven is 0 km. In such case, the engine cannot be started again.

Item	Supervision type	Standard type	Activation conditions
Warning due to low SCR catalyst purification efficiency	SCR catalyst low efficiency	SCR catalyst low efficiency	If the SCR catalyst purification efficiency is low, the 1st warning appears for 50 km.
	Unable to restart engine after 000 km! Check SCR catalyst	Unable to restart engine after 000 km! Check SCR catalyst	After the 1st warning, the 2nd warning appears when the mileage the vehicle can be driven is 800 km to 0 km.
	Unable to restart engine. Check SCR catalyst	Unable to restart engine. Check SCR catalyst	After the 2nd warning, the 3rd warning appears when the mileage the vehicle can be driven is 0 km. In such case, the engine cannot be started again.

Filling urea solution



- When the low urea solution level warning message appears, replenish sufficient amount of the urea solution immediately for safe driving regardless of the remaining urea level indicated on the gauge.
- Fill the urea solution at a gas station if possible.
 - If you fill the urea solution with the injector equipped with the urea shut-off valve at a gas station, there is no concern of the urea to overflow.
- If you have to purchase and fill urea solution by yourself, fill the proper amount of urea carefully not for the urea solution to overflow.

- Place the gear shift lever in the P (parking) position.
- 2 Be sure to turn off the engine.
- With all doors unlocked, open the fuel inlet cover (1).
- 4 Open the urea solution inlet cap (2) by turning it counterclockwise.
- 5 Fill the urea solution using the urea injector (gas station) or the urea bottle.
- 6 After filling the urea solution, close the urea solution inlet cap (2) by turning it clockwise until a clicking sound occurs.
- 7 Close the fuel inlet cover (1).



Caution

Cautions for filling urea solution

- When filling the urea solution, be careful for the urea solution to not overflow out of the inlet.
- If the urea solution comes into contact with your body when filling the urea solution, wash it off properly using clean water immediately. If the urea solution remains on the surface of the vehicle, the relevant part becomes white crystal, contaminating the surface.
- When filling the urea solution, be careful not to fill the urea solution into the fuel inlet. Doing so may affect the fuel system and other vehicle systems, damaging the vehicle significantly.
- Do not open the urea solution inlet cap in a sealed space or when the temperature of the vehicle or near the vehicle is high. Doing so may cause ammonia vapor to escape.
- Fill the urea solution in a shady and well-ventilated area. If the urea solution is exposed to direct sunlight, ammonia vapor may be generated. At this time, never inhale ammonia vapor.
- Only use genuine urea solution that meets the ISO 22241 standard. Using low quality urea solution may damage the vehicle system and make the vehicle inoperable.

Restriction of restarting due to low urea solution level

If urea solution is not added continuously after the level 2 warning due to low urea solution level occurs, restarting may become impossible along with the level 3 warning.

 In order to prevent the restriction of restarting in advance, replenish at least 10 L of the urea solution immediately when the level 2 warning due to low urea solution level occurs.



Caution

- If restarting is impossible due to the occurrence of the SCR warning for reasons other than low urea solution level, request a KG Mobility authorized service center for help immediately.
- In the event of SCR warnings except for the 1st warning due to low urea solution level, the warning lamp stays on and the warning message is displayed continuously.

How to disable restart protection

If the engine does not start due to a restart restriction, you can fix the problem as follows:

When the warning message "Urea depleted and engine restart not possible" is displayed, replenish the urea of at least 7ℓ .

Replenish the urea and wait until the warning message disappears with the ignition switch turned on. Then, start the engine.



Caution

 If the engine does not start after the sufficient amount of urea has been replenished, have it inspected and serviced by KG Mobility Dealer or KG Mobility Authorized Service Center.

Storing urea solution

- Depending on the storage condition, the urea solution smells like ammonia a little bit when the bottle is opened.
- The expiration date of urea solution may vary according to the storage temperature. Be sure to check the expiration date specified by the urea solution supplier according to the storage temperature.
- Seal the urea solution bottle tightly and store it in a well-ventilated area.

Notice

 When you park the vehicle in a sealed space, the exhaust gas from the vehicle may smell like ammonia. This is a normal phenomenon that occurs when the urea solution is used in the SCR operation process.

Cautions for the exhaust gas aftertreatment system (SCR)



Caution

Caution for personal injury

- Use the urea solution safely after fully familiarizing yourself with the contents of the relevant owner's manual.
- The urea solution is a non-flammable, nontoxic, colorless and odorless aqueous liquid, but it may contain a very small amount of heavy metals, so caution should be taken when you handle it.
- When you handle the urea solution, wear protective gloves, protective clothing and protective goggles.
- The urea solution may Irritate your skin, eyes and respiratory system. If you have an allergic reaction, consult your doctor immediately.
- If the urea solution comes into contact with your body, wash it off properly using clean water immediately. If necessary, consult your doctor.
- If you drank the urea solution, wash your mouth with clean water immediately, drink plenty of water and consult your doctor.
- · Never allow children to touch the urea solution.
- Never allow moisture coming out of the exhaust pipe to come into contact with your skin. Failure to do so may damage your skin due to slightly acidic moisture.
- The exhaust gas after-treatment system operates at very high temperature. Be sure to cool down the system properly before you carry out the service so as not to get burned.

Cautions for SCR and vehicle damage

- Do not apply an impact to the SCR. Doing so may damage the catalyst in the SCR.
- Do not change the exhaust pipe length, direction and structure of the exhaust system arbitrarily. Doing so may cause severe damage to the exhaust gas reduction efficiency or the system.
- Only use genuine urea solution that meets the ISO 22241 standard. Using low quality urea solution may damage the vehicle system and make the vehicle inoperable.
- Do not use low quality urea solution or urea containing an unauthorized additive. Doing so may contaminate the air environment and cause severe damage to the urea solution system and other vehicle systems.

Cautions for filling urea solution

- When filling the urea solution, be careful for the urea solution to not overflow out of the inlet.
- If the urea solution comes into contact with your body when filling the urea solution, wash it off properly using clean water immediately. If the urea solution remains on the surface of the vehicle, the relevant part becomes white crystal, contaminating the surface.
- When filling the urea solution, be careful not to fill the urea solution into the fuel inlet. Doing so may affect the fuel system and other vehicle systems, damaging the vehicle significantly.

- Do not open the urea solution inlet cap in a sealed space or when the temperature of the vehicle or near the vehicle is high. Doing so may cause ammonia vapor to escape.
- Fill the urea solution in a shady and well-ventilated area. If the urea solution is exposed to direct sunlight, ammonia vapor may be generated. At this time, never inhale ammonia vapor.

Notice

- The mileage the vehicle can be driven and actual level of the urea solution may vary depending on driving habits and road environment.
- The urea solution injection system collects the urea solution in the urea solution supply line into the urea solution tank for several minutes after the engine is turned off. Check or service the system after the urea solution is collected back completely.
- The urea solution may freeze at a low temperature (-11 °C), so it is impossible to measure the remaining level of the urea solution accurately. When the urea solution melts through the hot wire after several minutes have passed after the engine is started, check the level of the urea solution.
- When the urea solution melts through the hot wire, it may take from several minutes to several tens of minutes depending on the driving conditions and surrounding environment.

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