

2026

ES350h

OWNER'S MANUAL

WARNING: Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

Your Lexus dealer

Your Lexus dealer will provide quality maintenance and any other assistance you may require.
If there is not a Lexus dealer near you, please call the following number:

U.S. OWNERS

- In the U.S. mainland or Canada:
  Lexus Roadside Assistance
  1-800-25-LEXUS or 1-800-255-3987 (Toll-Free)
- In Hawaii:
  Servco Automotive Roadside Assistance/Customer Services
  1-800-25-LEXUS or 1-800-255-3987 (Toll-Free)

CANADIAN OWNERS

- In Canada or the U.S. mainland:
  Lexus Roadside Assistance/Customer Service
  1-800-26-LEXUS or 1-800-265-3987 (Toll-Free)

Please access our **websites** for further information.

- The U.S. mainland: www.lexus.com
- Hawaii: www.servcolexus.com
- Canada : www.lexus.ca

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NOTICE TO QUEBEC CONSUMERS:

Lexus Canada is pleased to offer a 48 month / 48,000 km (whichever occurs first) limited new-vehicle warranty on your vehicle. This limited warranty covers repairs on any part of the vehicle supplied by Lexus Canada that is defective in material or workmanship, subject to certain exceptions that are stated in your warranty manual. For more details of the warranty, check the Owner's Manual Supplement included with your vehicle, or visit lexus.ca.

Quebec's Consumer Protection Act requires Lexus Canada to disclose whether we guarantee the availability of replacement parts, repair services, and information necessary to maintain or repair the vehicle or its components. While Lexus Canada is pleased to honour the terms of our limited warranty, **please note that Lexus Canada in no way guarantees the availability of replacement parts, repair services and information necessary to maintain or repair the vehicle or its components.**

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For your information

Main Owner's Manual

Please note that this manual applies to all models and explains all equipment, including options. Therefore, you may find explanations for equipment not installed on your vehicle and the illustrations used may differ from your vehicle.

All specifications provided in this manual are current at the time of printing. Over time, your vehicle may receive updates that modify the vehicle and make material in this manual incomplete and/or inaccurate. Because of Lexus' interest in continual product improvement, Lexus reserves the right to make changes to this manual at any time without notice.

If Lexus chooses to update the manual, updated versions can be viewed by selecting your vehicle by model and year at the following URL or on your mobile device if you have access to the Lexus app.

https://drivers.lexus.com

Noise from under vehicle after turning off the hybrid system

Approximately five hours after the hybrid system is turned off, you may hear sound coming from under the vehicle for several minutes. This is the sound of a fuel evaporation leakage check and, it does not indicate a malfunction.

Accessories, spare parts and modification of your Lexus

A wide variety of non-genuine spare parts and accessories for Lexus vehicles are currently available in the market. You should know that Toyota does not warrant these products and is not responsible for their performance, repair, or replacement, or for any damage they may cause to, or adverse effect they may have on, your Lexus vehicle.

This vehicle should not be modified with non-genuine Lexus products. Modification with non-genuine Lexus products could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from the modification may not be covered under warranty.

Also, remodeling like this will have an effect on advanced safety equipment such as Lexus Safety System + 4.0 and there is a danger that it will not work properly or the danger that it may work in situations where it should not be working.

Cyber Attack Risk

Installing electronic devices and radios increases the risk of cyber attacks through the installed parts, which may lead to unexpected accidents and leakage of personal information.

Lexus does not make any guarantees

for problems caused by installing non-genuine Lexus products.

Installation of a mobile two-way radio system

The installation of a mobile two-way radio system in your vehicle could affect electronic systems such as:

- Hybrid system
- Multiport fuel injection system/sequential multiport fuel injection system
- Lexus Safety System + 4.0
- Cruise control system
- Anti-lock brake system
- SRS airbag system
- Seat belt pretensioner system

Be sure to check with your Lexus dealer for precautionary measures or special instructions regarding installation of a mobile two-way radio system.

High voltage parts and cables on the Hybrid Electric Vehicles emit approximately the same amount of electromagnetic waves as the conventional gasoline powered vehicles or home electronic appliances despite of their electromagnetic shielding.

Unwanted noise may occur in the reception of the mobile two-way radio.

Vehicle data recording

This vehicle is equipped with sophisticated computers that record certain data regarding vehicle controls and operations.

This data is transmitted to Lexus if the External Vehicle Video Capture consent has been accepted for the vehicle.

n Data recorded by the computers (except multimedia system)*1

*1: The recorded data varies according to the vehicle grade level and options with which it is equipped.

Certain data, such as the following, is recorded depending on the operation timing and status of each function.

- Basic vehicle behavior related data (engine speed/electric motor speed, accelerator/brake pedal operation, vehicle speed, etc.)
- Operating state of the driving support systems (recorded during system operation, includes basic vehicle behavior related data)
- Driving support system sensor data
- Image data (images from the front, rear, vehicle periphery, and driver monitor cameras)*2

*2: The vehicle has multiple cameras. For details on from which cameras images are recorded, contact your Lexus dealer.

- Location information

These computers do not record conversations, sounds, or images of the inside of the vehicle.

Also, personal information which may be used to identify the owner of the vehicle (name, gender, age, etc.) is not recorded.

n Usage of recorded data and personal information by the Lexus Safety System + 4.0

The operating state of each system, data from each sensor, image data (images from the front/rear cameras), and position information is recorded by the Lexus Safety System + 4.0 in the following situations. Lexus obtains this information when the vehicle is brought to the dealership or when sent to the Lexus servers.

- In certain collisions or collision-like situations
- When driving on roads with certain traffic situations, such as congestion, poor road surfaces, poor weather, etc.
- When driving on certain roads, such as roads which were recently opened or extended
- After the hybrid system is started, for a certain amount of time

To learn more about the vehicle data collected, used and shared by Lexus, please visit http://www.lexus.com/privacyvts/.

n Data provision and use purpose by third parties

Data recorded by the vehicle may be used for collision analysis, malfunction diagnosis, automated driving, advanced safety and map related technologies (technology, product development, product improvement, etc.) and products and services which use data (maps used for automated driving and advanced safety technologies, driving condition analysis, analysis of the driving environment, such as road infrastructure, traffic condition communication, etc. Herein referred to as "individual services".) Also, this data may be used for customer support related to a collision, collision analysis or resolution.

In situations such as the following, Toyota may disclose the recorded data to a third party:

- When the consent of the vehicle owner (or the lessee if the vehicle is leased) has been given
- When officially requested by the police, a court of law or a government agency
- When it is to be used by Toyota in a lawsuit
- When data is to be used research purposes after processing so that the data is not tied to a specific vehicle or vehicle owner

In addition to the above, Toyota may disclose the data recorded by the Lexus Safety System + 4.0 to a third party in the following situations:

- When separate consent of the vehicle owner (or the lessee if the vehicle is leased) has been given. This includes situations when the user subscribes to an individual service which is provided by a second party and uses vehicle recorded data, where the provider has obtained the user's consent for providing data to a third-party
- When providing data to a company

involved in autonomous driving software, etc. for the purpose of research and development (technology, product development, product improvement, etc.) of automated driving, advanced safety and map related technologies

- When providing image data and position information to a company involved in map creation, etc. for the purpose of research and development map related technologies
- When providing image data and position information to a local government for the purpose of road maintenance, etc.
- When providing processed image data and position information to traffic condition communication individual services
- When providing image data from near a fire, or other area that emergency services are dispatched, to the fire department of a local government which has entered a separate contract with Lexus

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Image data and some associated data recorded by the vehicle can be erased by your Lexus dealer.

The image data recording function can be disabled. However, if the function is disabled, data from when systems operate will not be available.

If you wish to stop the collection of Lexus Safety System + 4.0 data by the Lexus servers for the purpose of research and development and provision to individual services, decline the External Vehicle Video Capture consent in the Lexus mobile application or contact your Lexus dealer.

Statement on Warranty Coverage for Aftermarket and Recycled Parts (For U.S. Owners)

The Magnuson-Moss Warranty Act, 15 U.S.C. s.2301 et seq., makes it illegal for motor vehicle manufacturers to void a motor vehicle warranty or deny warranty coverage solely because an aftermarket or recycled part has been used to repair the vehicle or someone other than the authorized service provider performed service on the vehicle. This provision does not apply to a new motor vehicle purchased solely for commercial or industrial use.

Under federal law, a manufacturer may deny warranty coverage and charge for repairs to a vehicle if it is discovered that an aftermarket or recycled part installed on the vehicle is defective or was installed incorrectly and caused damage to another part of the vehicle otherwise covered under warranty. The Federal Trade Commission requires that a manufacturer demonstrate that an aftermarket or recycled part or service performed by a person other than an authorized service provider caused damage to another part of the vehicle otherwise covered under warranty before denying warranty coverage. Additionally, federal law allows a manufacturer to void a motor vehicle warranty or deny warranty coverage if the manufacturer provides the article or service to consumers free of charge under the warranty or the manufacturer has secured a waiver from the Federal Trade Commission.

NOTICE TO QUEBEC CONSUMERS

Lexus Canada is pleased to offer a 48 month / 80,000 km (whichever occurs first) limited new-vehicle warranty on your vehicle. This limited warranty covers repairs on any part of the vehicle supplied by Lexus Canada that is defective in material or workmanship, subject to certain exceptions that are stated in your warranty manual. For more details of the warranty, check the Warranty and Services Guide included with your vehicle, or visit lexus.ca.
Quebec's Consumer Protection Act requires Lexus Canada to disclose whether we guarantee the availability of replacement parts, repair services, and information necessary to maintain or repair the vehicle or its components. While Lexus Canada is pleased to honour the terms of our limited warranty, please note that Lexus Canada in no way guarantees the availability of replacement parts, repair services and information necessary to maintain or repair the vehicle or its components.

Event data recorder

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less.

The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.

NOTE: EDR data are recorded by your vehicle only if a non-trivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

● Disclosure of the EDR data

Lexus will not disclose the data recorded in an EDR to a third party except when:

- An agreement from the vehicle's owner (or the lessee for a leased vehicle) is obtained
- In response to an official request by the police, a court of law or a government agency
- For use by Lexus in a lawsuit

However, if necessary, Lexus may:

- Use the data for research on vehicle safety performance
- Disclose the data to a third party for research purposes without disclosing information about the specific vehicle or vehicle owner

Software update

The Data Communication Module (DCM) can be used to perform software updates to improve system performance and change/add functions. For details, refer to "MULTIMEDIA OWNER'S MANUAL".

Scrapping of your Lexus

The SRS airbag and seat belt pretensioner devices in your Lexus contain explosive chemicals. If the vehicle is scrapped with the airbags and seat belt pretensioners left as they are, this may cause an accident such as fire. Be sure to have the systems of the SRS airbag and seat belt pretensioner removed and disposed of by a qualified service shop or by your Lexus dealer before you scrap your vehicle.

Perchlorate Material

Special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Your vehicle has components that may contain perchlorate. These components may include the airbags, seat belt pretensioners, wireless remote control batteries, and the batteries in the tire pressure warning valve and transmitters.

"QR Code"

The word "QR Code" is registered trademark of DENSO WAVE INCORPORATED in Japan and other countries.

Caution symbols attached to the high voltage components

High voltage components, such as the power control unit, may have labels attached indicating care required.

Each caution symbol indicates the following:

Symbols	Meanings
	Indicates danger
	Indicates high voltage part
	Indicates not to touch
	Indicates high temperature part

WARNING

n General precautions while driving

Driving under the influence: Never drive your vehicle when under the influence of alcohol or drugs that have impaired your ability to operate your vehicle. Alcohol and certain drugs delay reaction time, impair judgment and reduce coordination, which could lead to an accident that could result in death or serious injury.

Defensive driving: Always drive defensively. Anticipate mistakes that other drivers or pedestrians might make and be ready to avoid accidents.

Driver distraction: Always give your full attention to driving. Anything that distracts the driver, such as adjusting controls, talking on a cellular phone or reading can result in a collision with resulting death or serious injury to you, your occupants or others.

n General precaution regarding children's safety

Never leave children unattended in the vehicle, and never allow children to have or use the key.

Children may be able to start the vehicle or shift the vehicle into neutral. There is also a danger that children may injure themselves by playing with the windows, the moon roof, or other features of the vehicle. In addition, heat build-up or extremely cold temperatures inside the vehicle can be fatal to children.

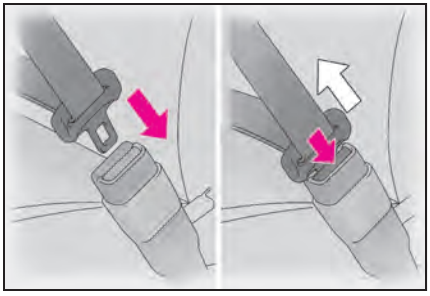
Reading this manual

Explains symbols used in this manual

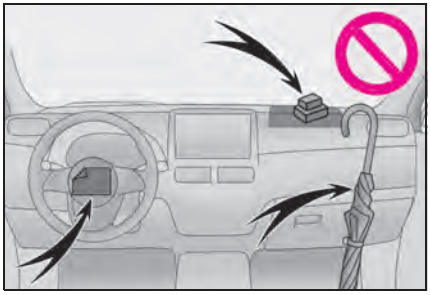
Symbols in this manual

Symbols	Meanings
	WARNING: Explains something that, if not obeyed, could cause death or serious injury to people.
	NOTICE: Explains something that, if not obeyed, could cause damage to or a malfunction in the vehicle or its equipment.
1 2 3...	Indicates operating or working procedures. Follow the steps in numerical order.

Symbols in illustrations



Symbols	Meanings
	Indicates the action (pushing, turning, etc.) used to operate switches and other devices.
	Indicates the outcome of an operation (e.g. a lid opens).

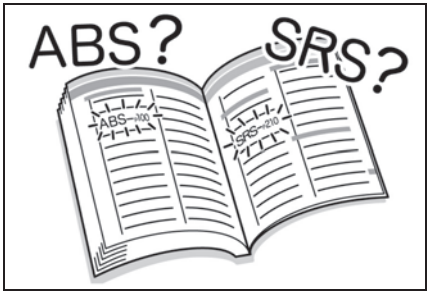


Symbols	Meanings
	Indicates the component or position being explained.
	Means **Do not**, **Do not do this**, or **Do not let this happen**.

How to search

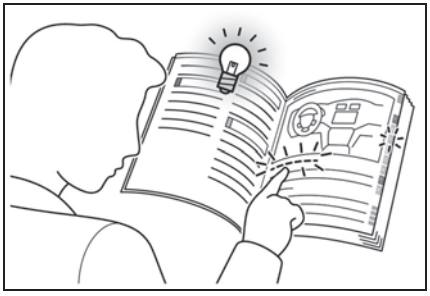
n **Searching by name**

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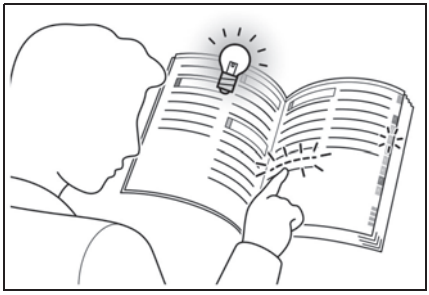
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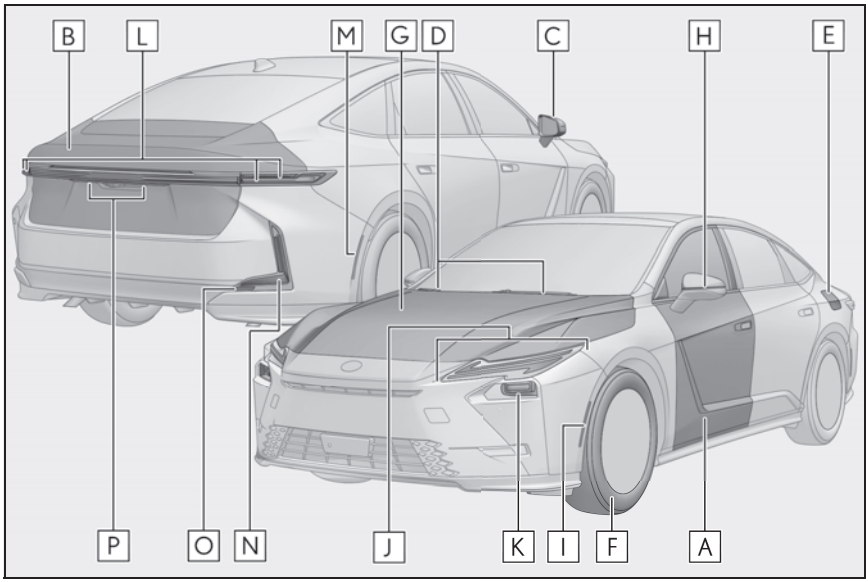
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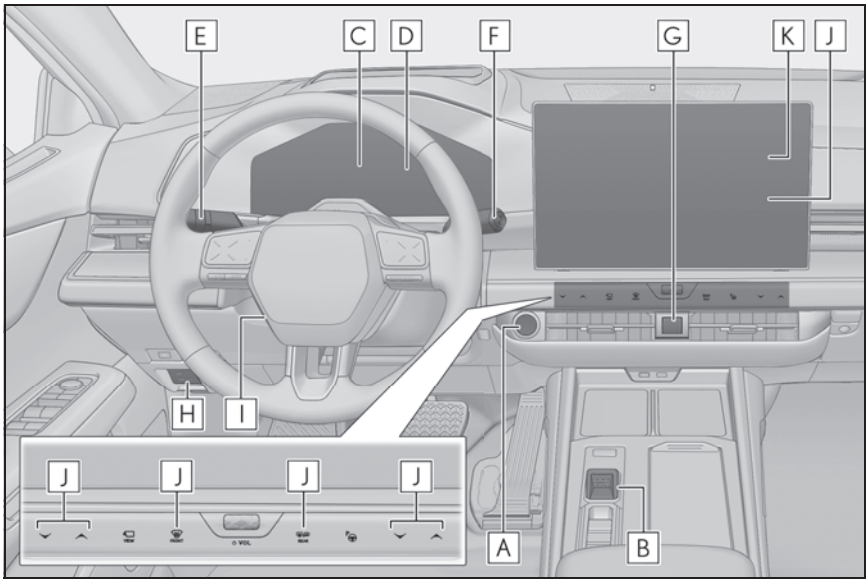
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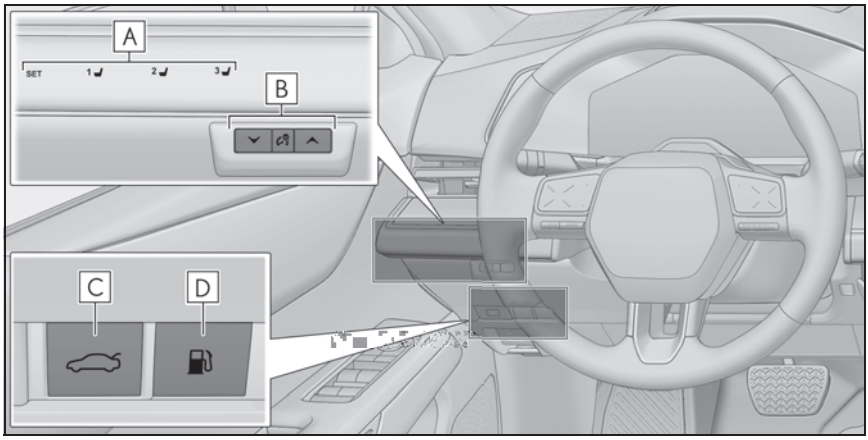
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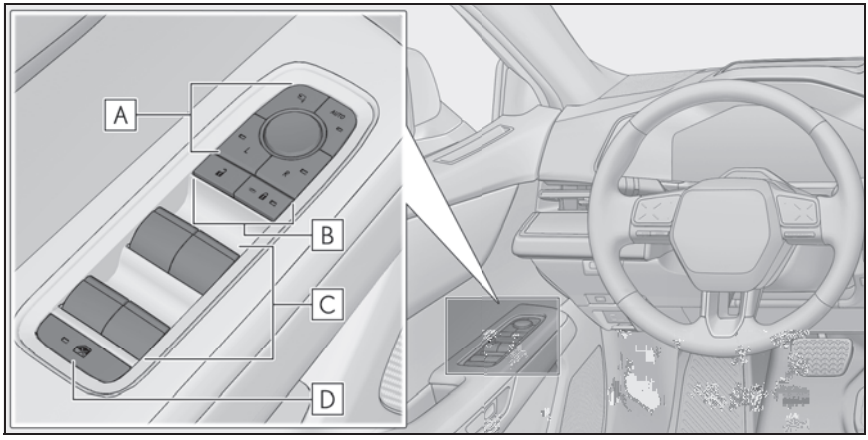
*1: If equipped

*2: Refer to "MULTIMEDIA OWNER'S MANUAL".

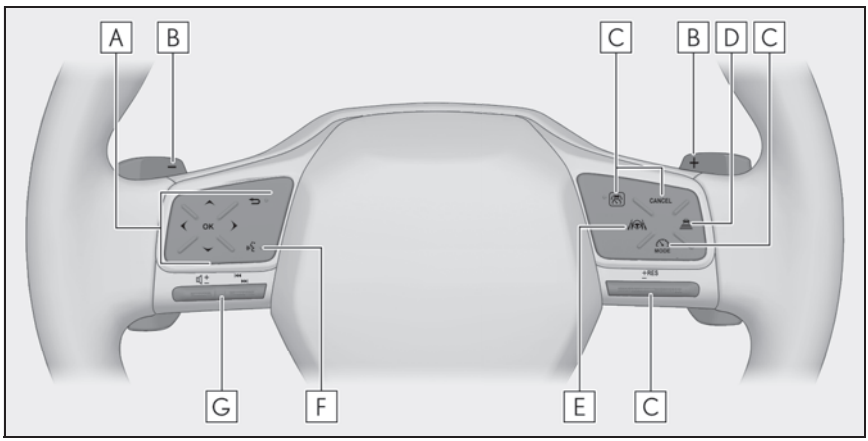
n Switches



A Driving position memory switches P.146
B Instrument panel light control switches P.87
C Trunk opener switch P.117
D Fuel filler door opener switch P.193

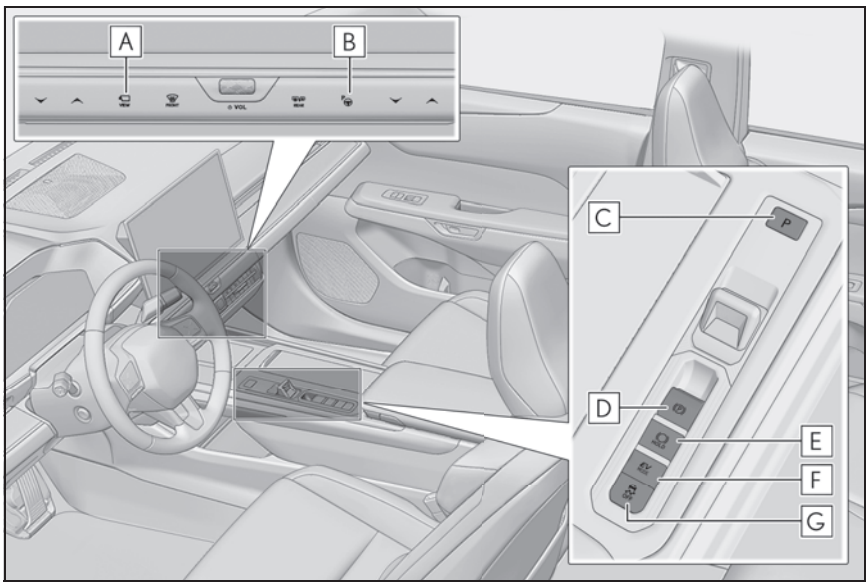


A Outside rear view mirror switches P.137
B Door lock switches P.112
C Power window switches P.140
D Window lock switch P.142



A Meter control switches P.89
B Paddle shift switches P.173
C Cruise control switches
Dynamic radar cruise control P.243
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D Vehicle-to-vehicle distance switch P.246
E LTA (Lane Tracing Assist) switch P.218
F Talk switch*
G Audio remote control switches*

*: Refer to "MULTIMEDIA OWNER'S MANUAL".



A **Camera switch** *1, 2

B **Advanced Park (parking assist system) main switch** *2 ..... P.302

C **P position switch** P.170

D **Parking brake switch** P.176

Applying/releasing P.176

Precautions for winter season P.339

Warning buzzer/messages P.452

E **Brake hold switch** P.179

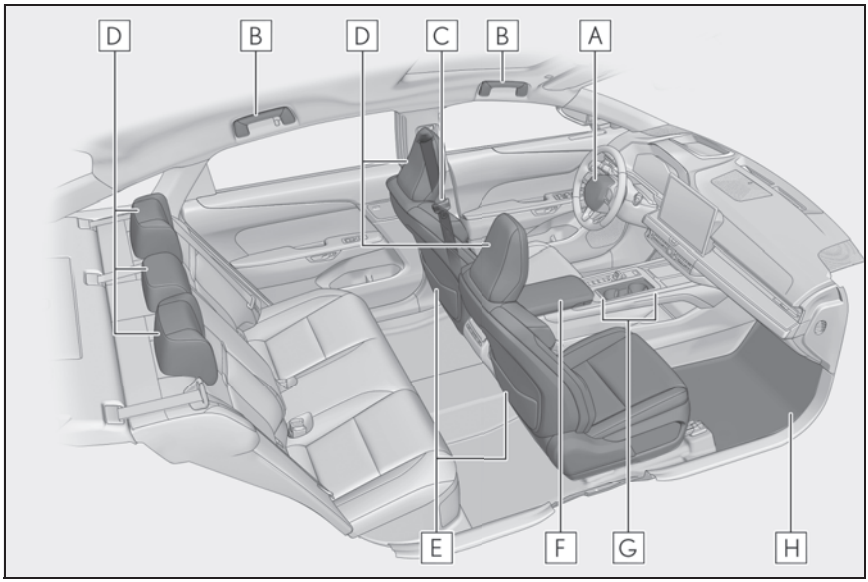
F **EV drive mode switch** P.167

G **VSC OFF switch** P.332

*1: Refer to "MULTIMEDIA OWNER'S MANUAL".

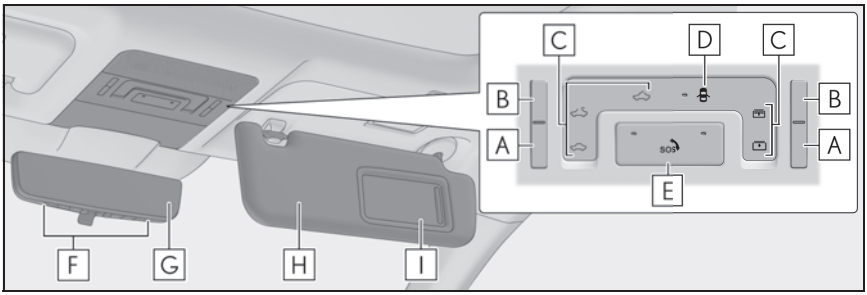
*2: If equipped

n Interior



A SRS airbags P.32
B Assist grips P.370
C Seat belts P.28
D Head restraints P.126
E Front seats P.125
F Console box P.358
G Cup holder P.358
H Floor mats P.26

n Ceiling



A Interior lights P.355
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D Door-linked interior light and personal light switch P.355
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*: If equipped

For safety and security 1

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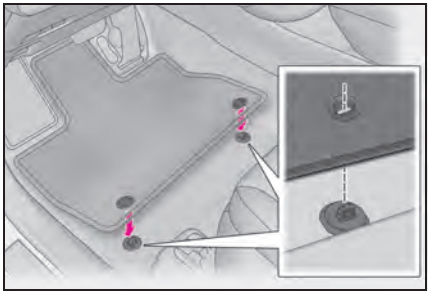
Before driving

Observe the following before starting off in the vehicle to ensure safety of driving.

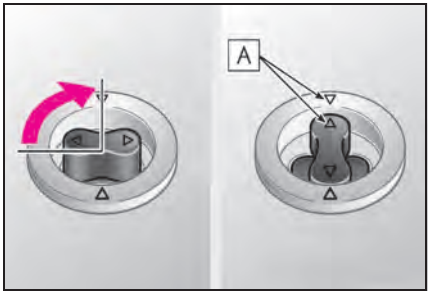
Installing floor mats

Use only floor mats designed specifically for vehicles of the same model and model year as your vehicle. Fix them securely in place onto the carpet.

1 Insert the retaining hooks (clips) into the floor mat eyelets.



2 Turn the upper knob of each retaining hook (clip) to secure the floor mats in place.



Always align the △ marks A.

The shape of the retaining hooks (clips) may differ from that shown in the illustration.

WARNING

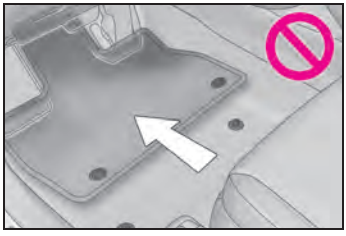
Observe the following precautions. Failure to do so may cause the driver's floor mat to slip, possibly interfering with the pedals while driving. An unexpectedly high speed may result or it may become difficult to stop the vehicle. This could lead to an accident, resulting in death or serious injury.

n **When installing the driver's floor mat**

- Do not use floor mats designed for other models or different model year vehicles, even if they are Lexus Genuine floor mats.
- Only use floor mats designed for the driver's seat.
- Always install the floor mat securely using the retaining hooks (clips) provided.
- Do not use two or more floor mats on top of each other.
- Do not place the floor mat bottom-side up or upside-down.

n **Before driving**

- Check that the floor mat is securely fixed in the correct place with all the provided retaining hooks (clips). Be especially careful to perform this check after cleaning the floor.

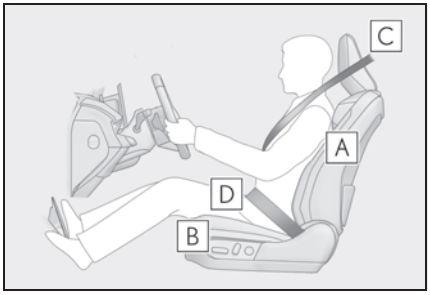


- With the hybrid system stopped and the shift position in P, fully depress each pedal to the floor to make sure it does not interfere with the floor mat.

For safe driving

For safe driving, adjust the seat and mirror to an appropriate position before driving.

Correct driving posture



A Adjust the angle of the seatback so that you are sitting straight up and so that you do not have to lean forward to steer. (→P.125)

B Adjust the seat so that you can depress the pedals fully and so that your arms bend slightly at the elbow when gripping the steering wheel. (→P.125)

C Lock the head restraint in place with the center of the head restraint closest to the top of your ears. (→P.126)

D Wear the seat belt correctly. (→P.29)

WARNING

n For safe driving

Observe the following precautions. Failure to do so may result in death or serious injury.

- Do not adjust the position of the driver's seat while driving.
  Doing so could cause the driver to lose control of the vehicle.
- Do not place a cushion between the driver or passenger and the seatback.
  A cushion may prevent correct posture from being achieved, and reduce the effectiveness of the seat belt and head restraint.
- Do not place anything under the front seats.
  Objects placed under the front seats may become jammed in the seat tracks and stop the seat from locking in place. This may lead to an accident and the adjustment mechanism may also be damaged.
- Always observe the legal speed limit when driving on public roads.
- When driving over long distances, take regular breaks before you start to feel tired.
  Also, if you feel tired or sleepy while driving, do not force yourself to continue driving and take a break immediately.

Correct use of the seat belts

Make sure that all occupants are wearing their seat belts before driving the vehicle. (→P.28)

Use a child restraint system appropriate for the child until the child becomes large enough to properly wear the vehicle's seat belt. (→P.47)

Adjusting the mirrors

Make sure that you can see backward clearly by adjusting the inside and outside rear view mirrors properly. (→P.129, 130, 137)

Seat belts

Make sure that all occupants are wearing their seat belts before driving the vehicle.

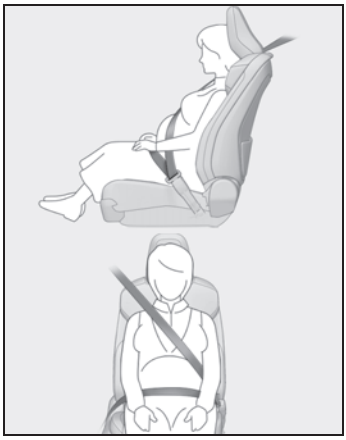
⚠ WARNING

Observe the following precautions to reduce the risk of injury in the event of sudden braking, sudden swerving or an accident.
Failure to do so may cause death or serious injury.

n Wearing a seat belt

- Ensure that all passengers wear a seat belt.
- Always wear a seat belt properly.
- Each seat belt should be used by one person only. Do not use a seat belt for more than one person at once, including children.
- Lexus recommends that children be seated in the rear seat and always use a seat belt and/or an appropriate child restraint system.
- To achieve a proper seating position, do not recline the seat more than necessary. The seat belt is most effective when the occupants are sitting up straight and well back in the seats.
- Do not wear the shoulder belt under your arm.
- Always wear your seat belt low and snug across your hips.

n Pregnant women



Obtain medical advice and wear the seat belt in the proper way. (→P.29)

Women who are pregnant should position the lap belt as low as possible over the hips in the same manner as other occupants, extending the shoulder belt completely over the shoulder and avoiding belt contact with the rounding of the abdominal area.

If the seat belt is not worn properly, not only the pregnant woman, but also the fetus could suffer death or serious injury as a result of sudden braking or a collision.

n People suffering illness

Obtain medical advice and wear the seat belt in the proper way. (→P.29)

n When children are in the vehicle

→P.54

n Seat belt damage and wear

- Do not damage the seat belts by allowing the belt, plate, or buckle to be jammed in the door.
- Inspect the seatbelt system periodically. Check for cuts, fraying, and loose parts. Do not use a damaged seatbelt until it is replaced. Damaged seatbelts may increase the risk of death or injury in a crash.

WARNING

- Ensure that the belt and plate are locked and the belt is not twisted. If the seat belt does not function correctly, immediately contact your Lexus dealer.
- Replace the seat assembly, including the belts, if your vehicle has been involved in a serious accident, even if there is no obvious damage.
- Do not attempt to install, remove, modify, disassemble or dispose of the seat belts. Have any necessary repairs carried out by your Lexus dealer. Inappropriate handling may lead to incorrect operation.

Correct use of the seat belts



- Extend the shoulder belt so that it comes fully over the shoulder, but does not come into contact with the neck or slide off the shoulder.
- Position the lap belt as low as possible over the hips.
- Adjust the position of the seatback. Sit up straight and well back in the seat.
- Do not twist the seat belt.

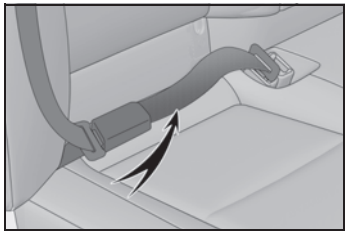
n Child seat belt usage

The seat belts of your vehicle were principally designed for persons of adult size.

- Use a child restraint system appropriate for the child, until the child becomes large enough to properly wear the vehicle's seat belt. (→P.54)
- When the child becomes large enough to properly wear the vehicle's seat belt, follow the instructions regarding seat belt usage. (→P.28)

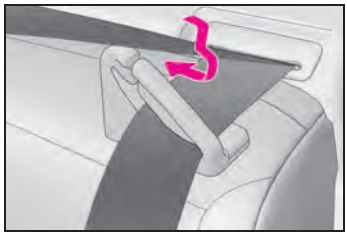
n Seat belt extender

If your seat belts cannot be fastened securely because they are not long enough, a personalized seat belt extender is available from your Lexus dealer free of charge.



n Rear seat belt

Use the seat belt after passing it through the guide if the seat belt comes free from the guide.



WARNING

n Using a seat belt extender

Observe the following precautions to reduce the risk of injury in the event of sudden braking, sudden swerving or an accident.
Failure to do so may cause death or serious injury.

- Do not wear the seat belt extender if you can fasten the seat belt without the extender.

WARNING

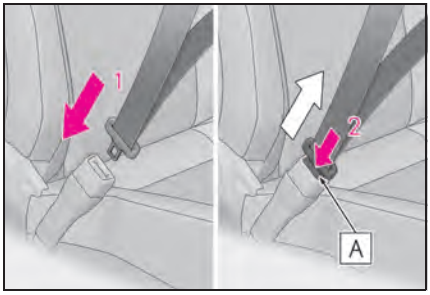
- Do not use the seat belt extender when installing a child restraint system because the belt will not securely hold the child restraint system, increasing the risk of death or serious injury in the event of an accident.
- The personalized extender may not be safe on another vehicle, when used by another person, or at a different seating position other than the one originally intended.

NOTICE

When using a seat belt extender

When releasing the seat belt, press on the buckle release button on the extender, not on the seat belt.
This helps prevent damage to the vehicle interior and the extender itself.

Fastening and releasing the seat belt



1 To fasten the seat belt, push the plate into the buckle until a click sound is heard.

2 To release the seat belt, press the release button [A].

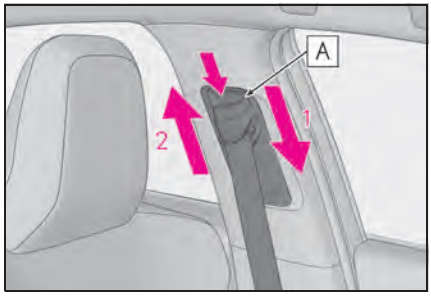
Emergency locking retractor (ELR)

The retractor will lock the belt during a sudden stop or on impact. It may also lock if you lean forward too quickly. When the seat belt locks, pull the belt strongly and then release the belt, then a slow and easy pulling will allow the belt to extend.

Automatic locking retractor (ALR)

When a passenger's shoulder belt is completely extended and then retracted even slightly, the belt is locked in that position and cannot be extended. This feature is used to hold a child restraint system (CRS) firmly. To free the belt again, fully retract the belt and then pull the belt out once more. (→P.47)

Adjusting the seat belt shoulder anchor height (front seats)



1 Push the seat belt shoulder anchor down while pressing the release button [A].

2 Push the seat belt shoulder anchor up while pressing the release button [A].

Move the height adjuster up and down as needed until you hear a click.

WARNING

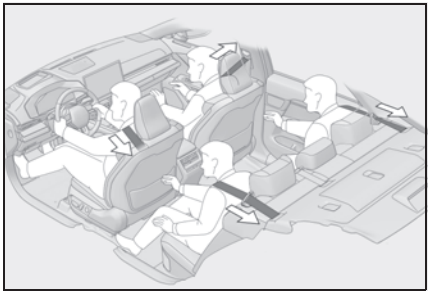
Adjustable shoulder anchor

Always make sure the shoulder belt is positioned across the center of your shoulder. The belt should be kept away from your neck, but not falling off your shoulder. Failure to do so could reduce the amount of protection in an accident and cause death or serious injuries in the event of a sudden stop, sudden swerve or accident.

Seat belt pretensioners (front and outboard rear seats)

When the vehicle is subjected to a severe frontal or side impact or rollover, the pretensioners retract the seat belts of the front seats and rear outer seats to securely restrain the occupants.

The pretensioners will not operate in minor frontal or side impacts, or rear impacts.



n Replacing the belt after the pretensioner has been activated

If the vehicle is involved in multiple collisions, the pretensioner will activate for the first collision, but will not activate for the second or subsequent collisions.

n PCS-linked control

If the PCS (Pre-Collision System) determines that the possibility of a collision with a vehicle is high, the seat belt pretensioners will be prepared to operate.

WARNING

n Seat belt pretensioners

Observe the following precautions to reduce the risk of injury in the event of sudden braking or an accident.
Failure to do so may result in death or serious injury.

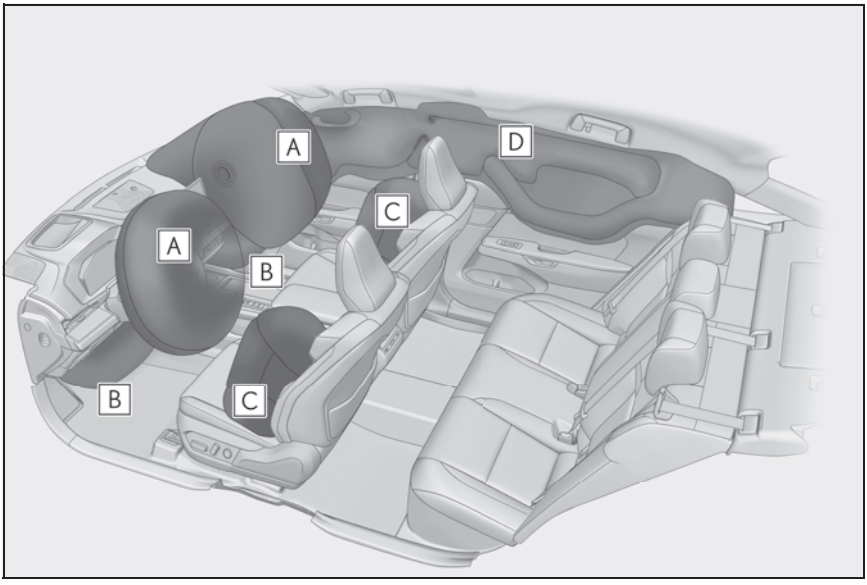
- Do not place anything, such as a cushion, on the front passenger's seat. Doing so will disperse the passenger's weight, which prevents the sensor from detecting the passenger's weight properly. As a result, the seat belt pretensioner for the front passenger's seat may not activate in the event of a collision.
- If a pretensioner has operated, the SRS warning light will illuminate. In this situation, the seat belt cannot be used and must be replaced by your Lexus dealer.

SRS airbags

The SRS airbags deploy when the vehicle is subjected to certain types of severe impact that may cause significant injury to the occupants. The airbags work together with the seat belts to help reduce the risk of death or serious injury.

SRS airbag system

n **Location of the SRS airbags**



A SRS front airbags (SRS driver airbag/SRS front passenger airbag)

Help reduce impact to the head and chest of the driver and front passenger

B SRS knee airbags

Help reduce impact to the driver and front passenger

C SRS side airbags

- Help reduce impact to the chest of the occupants of the front seats

D SRS curtain shield airbags

- Help reduce impact to the heads of the occupants of the front and rear outer seats
- Can help prevent the occupants from being thrown from the vehicle in the event of a vehicle rollover

Your vehicle is equipped with ADVANCED AIRBAGS designed based on US motor vehicle safety standards (FMVSS208). The airbag sensor assembly (ECU)

controls airbag deployment based on information obtained from the sensors, etc., shown in the system components diagram above. This information includes crash severity and occupant information. As the airbags deploy, a chemical reaction in the inflators quickly fills the airbags with non-toxic gas to help restrain the motion of the occupants.

n If the SRS airbags deploy (inflate)

- Slight abrasions, burns, bruising, etc., may be sustained from SRS airbags, due to the extremely high speed of deployment (inflation) by hot gases.
- A loud noise and white powder will be emitted.
- Parts of the airbag module (steering wheel hub, airbag cover and inflator) as well as the parts around the airbags may be hot for several minutes. The airbag itself may also be hot.
- The windshield may crack.
- The hybrid system will be stopped and fuel supply to the engine will be stopped. (→P.71)
- All of the doors will be unlocked. (→P.111)
- The brakes and stop lights will be controlled automatically. (→P.331)
- The interior lights will turn on automatically. (→P.355)
- The emergency flashers will turn on automatically. (→P.434)

n Emergency call (if equipped)

- For Safety Connect subscribers, if any of the following situations occur, the system is designed to send an emergency call to the response center.
  - When an SRS airbag has been deployed
  - When a seat belt pretensioner has operated
  - When the vehicle received an impact exceeding a certain level

  Emergency services may be dispatched even if there is no response to calls from the agent.

n The SRS airbags deploy in a frontal impact when

- The following SRS airbags will deploy in the event of an impact that exceeds a threshold level (level of force corresponding to an approximately 12 - 18 mph [20 - 30 km/h] frontal collision with a fixed wall that does not move or deform):
  - SRS front airbags
  - SRS knee airbags
- The threshold level at which the SRS airbags will deploy will be higher than normal in the following situations:
  - When the vehicle collides with an object, such as a parked vehicle or sign pole, which moves or deforms on impact
  - If the vehicle is involved in an underride collision, such as a collision in which the front of the vehicle "underrides", or goes under, the bed of a truck
- Depending on the type of collision, only the following may deploy:
  - Seat belt pretensioners
- The SRS airbags for the front passenger's seat will not deploy if there is no passenger in the front passenger seat. However, the SRS airbags for the front passenger's seat may deploy, even if the seat is unoccupied, if luggage is put on the seat.
- In the event of an especially severe frontal collision, the left and right SRS curtain shield airbags may also deploy.

n The SRS airbags deploy in a side impact when

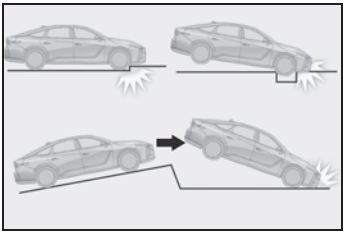
- The following SRS airbags will deploy in the event of an impact that exceeds the set threshold level (level of force corresponding to the impact force produced by an approximately 3300 lb. [1500 kg] vehicle colliding with the passenger compartment at a perpendicular angle at an approximate speed of 12 - 18 mph [20 - 30 km/h]):
  - SRS side airbags
  - SRS curtain shield airbags
- In the event of a side collision, regardless of the impacted side, both the left and

right SRS curtain shield airbags will deploy.

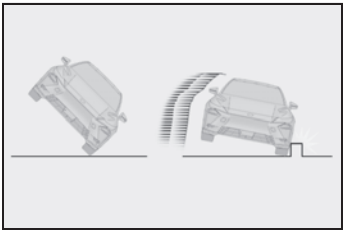
- If the vehicle is involved in a rollover, the following SRS airbags will deploy:
  - Both left and right SRS curtain shield airbags

The SRS airbags deploy in an underside impact when

- The following airbags may deploy if the underside of the vehicle collides with a hard object:
  - SRS front airbags
  - SRS knee airbags
  - SRS side airbags
  - SRS curtain shield airbags

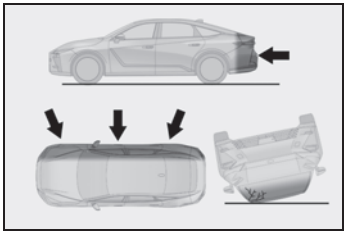


- The following airbags may deploy if the vehicle becomes significantly tilted or is strongly impacted by skidding into a curb, etc.:
  - SRS curtain shield airbags

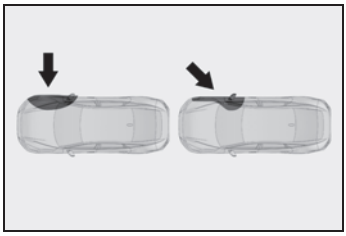


The SRS airbags will not deploy when

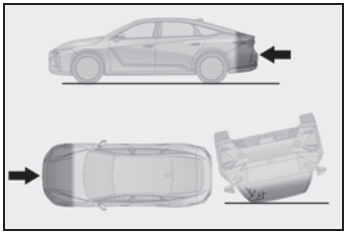
- The following SRS airbags will not normally deploy in side or rear collisions, vehicle rollovers, or low speed frontal collisions. However, if such a collision causes sufficient sudden deceleration, the SRS airbags may deploy.
  - SRS front airbags
  - SRS knee airbags



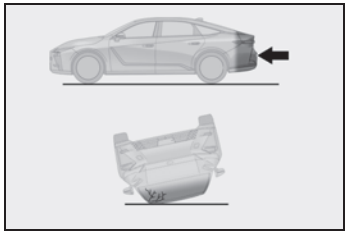
- The following SRS airbags may not deploy if the vehicle is collided with at a certain angle or in a side collision where an area of the vehicle other than the passenger compartment is collided with:
  - SRS side airbags
  - SRS curtain shield airbags



- The following SRS airbags will not normally deploy in front or rear collisions, vehicle rollovers, or low speed side collisions:
  - SRS side airbags



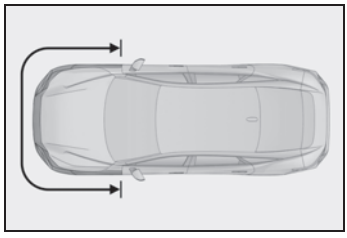
- The following SRS airbags will not normally deploy in rear collisions, end over end vehicle rollovers, or low speed front or side collisions:
  - SRS curtain shield airbags



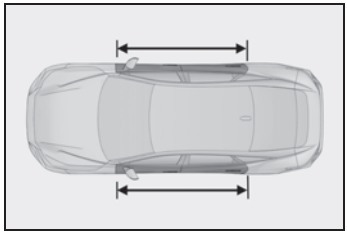
n When to contact your Lexus dealer

In the following situations, the vehicle will require inspection and/or repair. Contact your Lexus dealer as soon as possible.

- When any of the SRS airbags have been deployed
- When the front of the vehicle is damaged or deformed, or was involved in a collision that was not severe enough to cause any of the following SRS airbags to deploy:
  - SRS front airbags
  - SRS knee airbags



- When a door or its surrounding area is damaged, deformed or has had a hole made in it, or was involved in a collision that was not severe enough to cause any of the following SRS airbags to deploy:
  - SRS side airbags
  - SRS curtain shield airbags



- When the pad section of the steering wheel, the dashboard near the front passenger SRS airbag or the lower side of the instrument panel is scratched, cracked, or otherwise damaged.
- When the surface of a seat with an SRS side airbag is scratched, cracked, or otherwise damaged.
- When the part of a front pillar, rear pillar or roof side rail garnish (padding) which covers a SRS curtain shield airbags is scratched, cracked, or otherwise damaged.

WARNING

n SRS airbag precautions

Observe the following precautions. Failure to do so may result in death or serious injury.

- The driver and all passengers must wear their seat belts correctly. The SRS airbags are supplemental devices to be used with the seat belts.
- The SRS driver airbag deploys with considerable force, and can cause death or serious injury, especially if the driver is very close to the airbag. The National Highway Traffic Safety Administration (NHTSA) advises:

Since the risk zone for the driver's airbag is the first 2 - 3 in. (50 - 75 mm) of inflation, placing yourself 10 in. (250 mm) from your driver airbag provides you with a clear margin of safety. This distance is measured from the center of the steering wheel to your breastbone. If your current driving position places you less than 10 in. (250 mm) away from the driver airbag, you can change your driving position in several ways:

- Move your seat to the rear as far as possible while still being able to reach the pedals comfortably.

WARNING

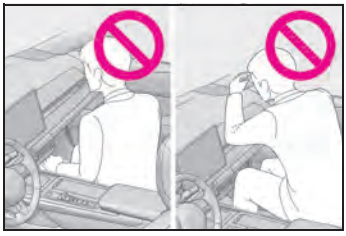
- Slightly recline the seatback. Although vehicle designs vary, many drivers can achieve the 10 in. (250 mm) distance, even with the driver seat all the way forward, simply by reclining the seatback somewhat. If reclining the seatback makes it hard to see the road, raise yourself by using a firm, non-slippery cushion, or raise the seat if your vehicle has that feature.
- If your steering wheel is adjustable, tilt it downward. This points the airbag toward your chest instead of your head and neck. The seat should be adjusted as recommended by the NHTSA, while still being able to control the vehicle with the pedals and steering wheel, and maintaining your view of the instrument panel controls.

If a seat belt extender has been connected to the front passenger seat belt buckle but the latch plate of the front passenger seat belt has not been fastened to the seat belt extender, the SRS airbag system will judge that the front passenger is wearing the seat belt even though the seat belt has not been fastened. In this case, the SRS front airbags for the front passenger may not deploy correctly in a collision, resulting in death or serious injury. Be sure to wear the seat belt correctly when using a seat belt extender.

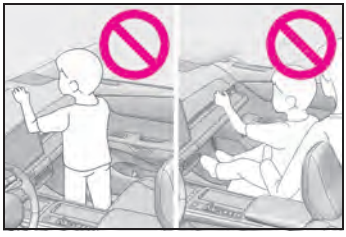
The SRS front passenger airbag deploys with considerable force, and can cause death or serious injury, especially if the front passenger is very close to the airbag. The front passenger seat should be positioned as far possible from the airbag with the seatback adjusted so that the passenger is sitting upright.

Improperly seated and/or restrained infants and children can be killed or seriously injured by a deploying airbag. An infant or child who is too small to use a seat belt should be properly secured using a child restraint system. Lexus strongly recommends that all infants and children be placed in the rear seats of the vehicle and properly restrained. The rear seats are safer for infants and children than the front passenger seat. (→P.47)

Do not sit on the edge of the seat or lean against the dashboard.



Do not allow a child to stand in front of the SRS front passenger airbag or sit on the lap of a front passenger.



Front seat occupants should never hold items on their lap.

Do not lean against the door, roof side rail, or front, side, or rear pillar.

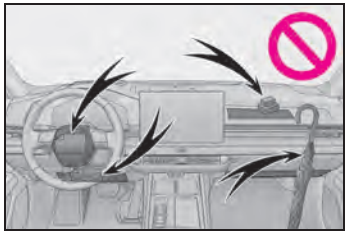


WARNING

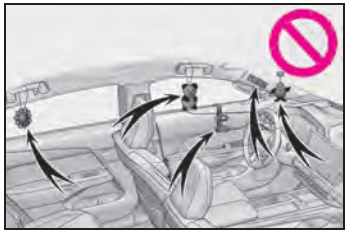
- Do not allow anyone to kneel on a seat toward the door or put their head or hands outside the vehicle.



- Do not attach anything to or lean anything against areas such as the dashboard, steering wheel pad and lower portion of the instrument panel.



- Do not attach anything to areas such as the doors, windshield, side windows, front or rear pillars, roof side rails and assist grips. (With the exception of the speed limit label →P.465)



- Do not hang coat hangers or other hard objects on the coat hooks. These items could become projectiles if the SRS curtain shield airbags deploy, possibly leading to death or serious injury.
- If a vinyl cover is attached to the area where the SRS knee airbag deploys, be sure to remove it.
- Do not use seat accessories which cover the parts from which the SRS airbags deploy, as they may interfere with inflation of the SRS airbags. Such accessories may prevent the SRS airbags from deploying correctly, may disable the system or cause the SRS airbags to inflate unintentionally, possibly resulting in death or serious injury.
- Do not strike or apply significant force to the SRS airbag system components, front doors or their surrounding area. Doing so may cause the SRS airbags to malfunction.
- Adjust the front passenger seat so that the head restraint does not touch the ceiling or sun visor. If the head restraint is left in contact with the ceiling or sun visor, the system may not detect the front passenger properly, leading to improper operation of the airbags.
- Do not touch any components of the SRS airbags immediately after the SRS airbags have deployed (inflated) as they may be hot.
- If breathing becomes difficult after the SRS airbags have deployed, open a door or window to allow fresh air in, or leave the vehicle if it is safe to do so. Wash off any residue as soon as possible to prevent skin irritation.
- If a part where an SRS airbag is stored is damaged or cracked, have it replaced by your Lexus dealer.
- Do not place anything, such as a cushion, on the front passenger's seat. Doing so will disperse the passenger's weight, which prevents the sensor from detecting the passenger's weight properly. As a result, the SRS front airbags for the front passenger's seat may not deploy in the event of a collision.

WARNING

n Modification and disposal of SRS airbag system components

Do not dispose of your vehicle or perform any of the following modifications without consulting your Lexus dealer. The SRS airbags may malfunction or deploy unintentionally, possibly leading to death or serious injury.

- Removal, installation, disassembly or repair of the SRS airbags
- Repair, removal or modification of the following parts or their surroundings
  - Steering wheel
  - Instrument panel
  - Dashboard
  - Seats
  - Seat upholstery
  - Front pillars
  - Side pillars
  - Rear pillars
  - Roof side rails
  - Front door panels
  - Front door trim
  - Front door speakers
- Modifications to the front door panels (such as making holes in them)
- Repair or modification of the following parts or their surrounding
  - Front fender
  - Front bumper
  - Sides of the vehicle interior
- Installation of the following parts or accessories
  - Bull bars or kangaroo bars
  - Snow plows
  - Winches
  - Roof luggage carriers
- Modifications to the vehicle's suspension
- Installation of electronic devices such as mobile two-way radios (RF-transmitter) and CD players
- Modifications to your vehicle for a persons with a physical disability

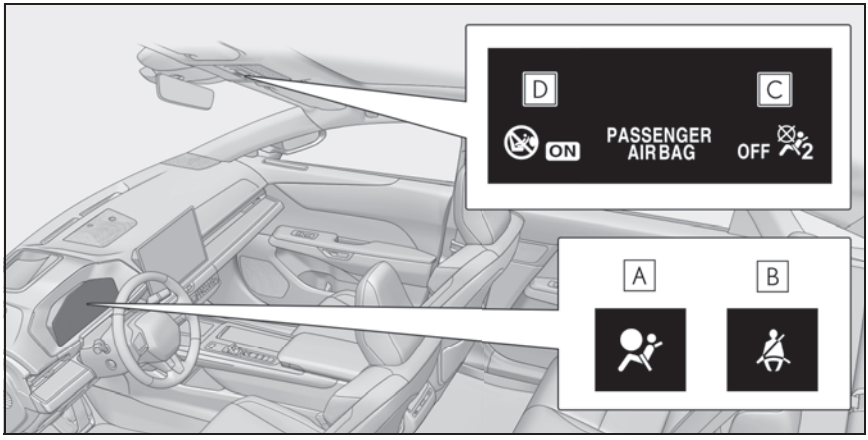
Front passenger occupant classification system

Your vehicle is equipped with a front passenger occupant classification system.

This system detects the conditions of the front passenger seat and activates or deactivates the following SRS airbags.

- SRS front passenger airbag
- SRS front passenger knee airbag

System components



A SRS warning light

B Front passenger's seat belt reminder light

C "AIR BAG OFF" indicator light

D "AIR BAG ON" indicator light

WARNING

n Front passenger occupant classification system precautions

Observe the following precautions regarding the front passenger occupant classification system.
Failure to do so may cause death or serious injury.

- Wear the seat belt properly.
- Make sure the front passenger's seat belt plate has not been left inserted into the buckle before someone sits in the front passenger seat.
- Make sure the "AIR BAG OFF" indicator light is not illuminated when using the seat belt extender for the front passenger seat. If the "AIR BAG OFF" indicator light is illuminated, disconnect the extender tongue from the seat belt buckle, and reconnect the seat belt. Reconnect the seat belt extender after making sure the "AIR BAG ON" indicator light is illuminated. If you use the seat belt extender while the "AIR BAG OFF" indicator light is illuminated, the SRS airbags for the front passenger will not activate, which could cause death or serious injury in the event of a collision.
- Do not apply a heavy load to the front passenger seat or equipment (e.g. seatback pocket).
- Do not put weight on the front passenger seat by putting your hands or feet on the front passenger seat seatback from the rear passenger seat.
- Do not let a rear passenger lift the front passenger seat with their feet or press on the seatback with their legs.
- Do not put objects under the front passenger seat.
- Do not recline the front passenger seatback so far that it touches a rear seat. This may cause the "AIR BAG OFF" indicator light to be illuminated, which indicates that the SRS airbags for the front passenger will not activate in the event of a severe accident. If the seatback touches the rear seat, return the seatback to a position where it does not touch the rear seat.
- Keep the front passenger seatback as upright as possible when the vehicle is moving. Reclining the seatback excessively may lessen the effectiveness of the seat belt system.
- If an adult sits in the front passenger seat, the "AIR BAG ON" indicator light is illuminated. If the "AIR BAG OFF" indicator is illuminated, ask the passenger to sit up straight, well back in the seat, feet on the floor, and with the seat belt worn correctly. If the "AIR BAG OFF" indicator still remains illuminated, either ask the passenger to move to the rear seat, or if that is not possible, move the front passenger seat fully rearward.
- When it is unavoidable to install a forward-facing child restraint system on the front passenger seat, install the child restraint system on the front passenger seat in the proper order. (→P.49)

WARNING

- Do not modify or remove the front seats.
- Do not kick the front passenger seat or subject it to severe impact. Otherwise, the SRS warning light may come on to indicate a malfunction of the front passenger occupant classification system. In this case, contact your Lexus dealer immediately.
- Child restraint systems installed on the rear seat should not contact the front seatbacks.
- Do not use a seat accessory, such as a cushion and seat cover, that covers the seat cushion surface.
- Do not modify or replace the upholstery of the front seat.
- Do not place anything between the console box and front passenger seat. Otherwise, the system may not detect the front passenger properly, leading to improper operation of the airbags.
- Adjust the front passenger seat so that the head restraint does not touch the ceiling or sun visor. If the head restraint is left in contact with the ceiling or sun visor, the system may not detect the front passenger properly, leading to improper operation of the airbags.

Front passenger occupant classification system conditions and operation

n Adult[*1]

Indicator/warning light	"AIR BAG ON" and "AIR BAG OFF" indicator lights	"AIR BAG ON"
	SRS warning light	Off
	Front passenger's seat belt reminder light	Off[*2] or flashing[*3]
Devices	Front passenger airbag	Activated
	Front passenger knee airbag	

n Child[*4]

Indicator/warning light	"AIR BAG ON" and "AIR BAG OFF" indicator lights	"AIR BAG OFF" or "AIR BAG ON"[*4]
	SRS warning light	Off
	Front passenger's seat belt reminder light	Off[*2] or flashing[*3]
Devices	Front passenger airbag	Deactivated or activated[*4]
	Front passenger knee airbag	

n Child restraint system with infant[*5]

Indicator/warning light	"AIR BAG ON" and "AIR BAG OFF" indicator lights	"AIR BAG OFF"[*6]
	SRS warning light	Off
	Front passenger's seat belt reminder light	Off[*2] or flashing[*3]
Devices	Front passenger airbag	Deactivated
	Front passenger knee airbag	

n Unoccupied

Indicator/warning light	"AIR BAG ON" and "AIR BAG OFF" indicator lights	"AIR BAG OFF"
	SRS warning light	Off
	Front passenger's seat belt reminder light	

Devices	Front passenger airbag	Deactivated
	Front passenger knee airbag	

n **System malfunction**

Indicator/warning light	"AIR BAG ON" and "AIR BAG OFF" indicator lights	"AIR BAG OFF"
	SRS warning light	On
	Front passenger's seat belt reminder light	
Devices	Front passenger airbag	Deactivated
	Front passenger knee airbag	

*1: The system judges a person of adult size as an adult. When a smaller adult sits in the front passenger seat, the system may not recognize them as an adult depending on their physique and posture.

*2: In the event the front passenger is wearing a seat belt.

*3: In the event the front passenger does not wear a seat belt.

*4: For some children, child in seat, child in booster seat or child in convertible seat, the system may not recognize them as a child. Factors which may affect this can be the physique or posture.

*5: Never install a rear-facing child restraint system on the front passenger seat. A forward-facing child restraint system should only be installed on the front passenger seat when it is unavoidable. (→P.47)

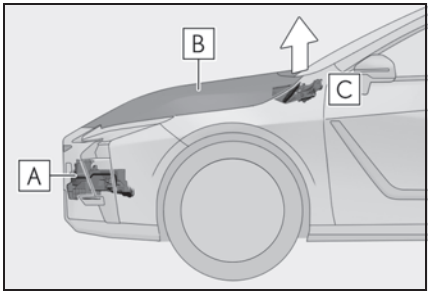
*6: In case the indicator light is not illuminated, consult this manual on how to install the child restraint system properly. (→P.49)

Pop Up Hood

In the event of a frontal collision with a body, such as a pedestrian, the Pop Up Hood system raises the hood to reduce the possibility of a serious impact to the pedestrian's head area by adding clearance to the engine compartment.

When the sensors located at the back of the front bumper detect a frontal impact with a body, such as a pedestrian, which meets or exceeds the threshold level while the vehicle is being driven within the operational speed range, the system operates.

System components



A Sensors

B Hood

C Lifters

n Pop Up Hood precautions

- Before scrapping your vehicle, make sure to contact your Lexus dealer.
- The Pop Up Hood system cannot be reused once it has operated. Have it replaced by your Lexus dealer.

n PCS-linked functions

If the PCS (Pre-Collision System) determines that the possibility of a collision with a pedestrian or bicyclist is high, the Pop Up Hood will be prepared to operate.

n Pop Up Hood operational conditions

The Pop Up Hood will operate when the vehicle detects an impact such as the following:

- The front bumper detects a frontal impact equivalent to or greater than that of a pedestrian while the vehicle being driven within the operational speed range of approximately 16 to 34 mph (25 to 55 km/h). (The system is operated by an impact of threshold level or greater, even in the case of a minor collision that may not leave a trace on the front bumper. Also, depending on the impact conditions or vehicle speed, the system may operate by a collision with a light or small object or a small animal.)
- In other situations such as the following, the system may operate when an impact is applied to the lower part of the vehicle or front bumper:
  - Colliding with a curb
  - Falling into a deep hole
  - Landing hard
  - Hitting the slope of a parking lot, an undulating road, a protruding object or falling object

n Conditions under which the Pop Up Hood may not operate properly

- If a pedestrian collides with the right or left corner of the front bumper or the side of the vehicle. As such impacts may be difficult to detect, the system may not operate.
- If the vehicle speed is not detected correctly, such as if the vehicle is sliding sideways, the system may not operate properly.

n Conditions under which the Pop Up Hood will not operate

The Pop Up Hood will not operate in the following situations:

- Colliding with a lying person
- A frontal impact applied to the front

bumper while driving at speeds outside of the operational speed range

- A side impact or rear impact
- A vehicle rollover (In some accident situations, the Pop Up Hood may operate.)

WARNING

When the Pop Up Hood is operated

- Do not pull the hood lock release lever. Doing so after the Pop Up Hood has operated will further raise the hood and may cause an injury. Do not drive with the hood raised, as doing so may block the driver's vision, possibly causing an accident.
- Do not forcibly push down the hood. As the popped up hood cannot be lowered by hand, doing so may deform the hood or cause an injury.
- If the Pop Up Hood has operated, have it replaced by your Lexus dealer. If the Pop Up Hood has operated, stop the vehicle in a safe place and contact your Lexus dealer.
- Do not touch the lifters immediately after the Pop Up Hood has operated, as the lifters may be hot and burn you.

NOTICE

Pop Up Hood precautions

- Make sure to close the hood before driving, as the system may not operate properly if the hood is not fully closed.
- Make sure that all 4 tires are of the specified size and inflated to the specified tire pressure. If tires of a different size are used, the system may not operate properly.
- If something has hit the area around the front bumper, the sensors may be damaged even if the Pop Up Hood has not operated. Have the vehicle inspected by your Lexus dealer.
- Do not remove or repair the parts or wiring of the Pop Up Hood, as doing so may cause accidental operation or prevent the system from operating properly. If repair or replacement is necessary, contact your Lexus dealer.
- Do not remove such components as the front bumper, hood or suspension, or replace them with non-genuine parts, as doing so may prevent the system from operating properly.
- Do not install anything to the front bumper or hood, as doing so may prevent the sensors from detecting an impact correctly and prevent the system from operating properly.
- Do not close the hood with force or apply load to the lifters, as doing so may damage the lifters and prevent the system from operating properly.
- Do not modify the suspension, as changes made to the vehicle height may prevent the system from operating properly.

Exhaust gas precautions

Harmful substance to the human body is included in exhaust gases if inhaled.

⚠ WARNING

Exhaust gases include harmful carbon monoxide (CO), which is colorless and odorless. Observe the following precautions.
Failure to do so may cause exhaust gases enter the vehicle and may lead to an accident caused by light-headedness, or may lead to death or a serious health hazard.

n Important points while driving

- Keep the trunk lid closed.
- If you smell exhaust gases in the vehicle even when the trunk lid is closed, open the windows and have the vehicle inspected at your Lexus dealer as soon as possible.

n When parking

- If the vehicle is in a poorly ventilated area or a closed area, such as a garage, stop the hybrid system.
- Do not leave the vehicle with the hybrid system on for a long time.
  If such a situation cannot be avoided, park the vehicle in an open space and ensure that exhaust fumes do not enter the vehicle interior.
- Do not leave the hybrid system operating in an area with snow build-up, or where it is snowing. If snowbanks build up around the vehicle while the hybrid system is operating, exhaust gases may collect and enter the vehicle.

n Exhaust pipe

The exhaust system needs to be checked periodically. If there is a hole or crack caused by corrosion, damage to a joint or abnormal exhaust noise, be sure to have the vehicle inspected and repaired by your Lexus dealer.

Riding with children

Observe the following precautions when children are in the vehicle. Use a child restraint system appropriate for the child, until the child becomes large enough to properly wear the vehicle's seat belt.

- It is recommended that children sit in the rear seats to avoid accidental contact with the shift lever, wiper switch, etc.
- Use the rear door child-protector lock or the window lock switch to avoid children opening the door while driving or operating the power window accidentally. (→P.114, 142)
- Do not let small children operate equipment which may catch or pinch body parts, such as the power window, hood, trunk, seats etc.

WARNING

n When children are in the vehicle

Never leave children unattended in the vehicle, and never allow children to have or use the key.

Children may be able to start the vehicle or shift the vehicle into neutral. There is also a danger that children may injure themselves by playing with the windows, the panoramic moon roof or other features of the vehicle. In addition, heat build-up or extremely cold temperatures inside the vehicle can be fatal to children.

Child restraint systems

Before installing a child restraint system in the vehicle, there are precautions that need to be observed, different types of child restraint systems, as well as installation methods, etc., written in this manual.

Use a child restraint system when riding with a small child that cannot properly use a seat belt. For the child's safety, install the child restraint system to a rear seat. Be sure to follow the installation method that is in the operation manual enclosed with the restraint system.

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Points to remember: P.47

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When using a child restraint system: P.49

Child restraint system installation method
- Fixed with a seat belt: P.51
- Fixed with a child restraint LATCH anchor: P.54
- Using an anchor bracket (for top tether strap): P.56

Points to remember

The laws of all 50 states of the U.S.A. as well as Canada now require the use of child restraint systems.

- Prioritize and observe the warnings, as well as the laws and regula-

tions for child restraint systems.

- Use a child restraint system until the child becomes large enough to properly wear the vehicle's seat belt.
- Choose a child restraint system that suits your vehicle and is appropriate to the age and size of the child.

WARNING

n When a child is riding

Observe the following precautions. Failure to do so may result in death or serious injury.

- For effective protection in automobile accidents and sudden stops, a child must be properly restrained, using a seat belt or child restraint system which is correctly installed. For installation details, refer to the operation manual enclosed with the child restraint system. General installation instruction is provided in this manual.
- Lexus strongly urges the use of a proper child restraint system that conforms to the weight and size of the child, installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.
- Holding a child in your or someone else's arms is not a substitute for a child restraint system. In an accident, the child can be crushed against the windshield or between the holder and the interior of the vehicle.

n Handling the child restraint system

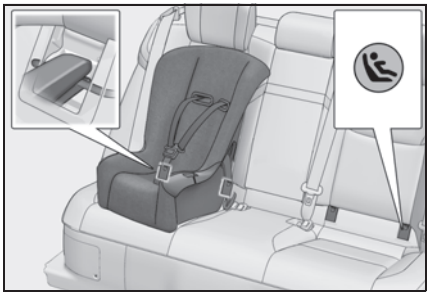
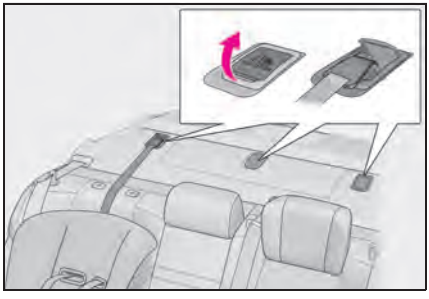
If the child restraint system is not properly fixed in place, the child or other passengers may be seriously injured or even killed in the event of sudden braking, sudden swerving, or an accident.

- If the vehicle were to receive a strong impact from an accident, etc., it is possible that the child restraint system has damage that is not readily visible. In such cases, do not reuse the restraint system.
- Make sure you have complied with all installation instructions provided by the child restraint system manufacturer and that the system is properly secured.
- Keep the child restraint system properly secured on the seat even if it is not in use. Do not store the child restraint system unsecured in the passenger compartment.
- If it is necessary to detach the child restraint system, remove it from the vehicle or store it securely in the trunk.

Child restraint system

n Types of child restraint system installation methods

Confirm with the operation manual enclosed with the child restraint system about the installation of the child restraint system.

Installation method		Page
Seat belt attachment		P.51
Child restraint LATCH anchors attachment		P.54
Anchor brackets (for top tether strap) attachment		P.56

When using a child restraint system

n When installing a child restraint system to a front passenger seat

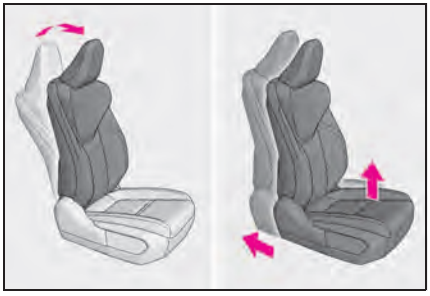
For the safety of a child, install child restraint systems to a rear seats. When installing child restraint system to a front passenger seat is unavoidable, adjust the seat as follows and install the child restraint system.

- Move the front seat fully rearward.

- Adjust the seatback angle to the most upright position.

When installing a forward-facing child seat, if there is a gap between the child seat and the seatback, adjust the seatback angle until good contact is achieved.

- Adjust the front of the seat cushion to the uppermost position.
- Adjust the seat height to the uppermost position.
- Adjust the lumbar support to the lowest position.
- If the head restraint interferes with the child restraint system installation and the head restraint can be removed, remove the head restraint. Otherwise, put the head restraint in the upper most position.



WARNING

n When using a child restraint system

Observe the following precautions. Failure to do so may result in death or serious injury.

- Never install a rear-facing child restraint system on the front passenger seat even if the "PASSENGER AIR BAG OFF" indicator light is illuminated. In the event of an accident, the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.
- A forward-facing child restraint system may be installed on the front passenger seat only when it is unavoidable. A child restraint system that requires a top tether strap should not be used in the front passenger seat since there is no top tether strap anchor for the front passenger seat.
- A forward-facing child restraint system may be installed on the front passenger seat only when it is unavoidable. When installing a forward-facing child restraint system on the front passenger seat, adjust the seatback angle to the most upright position, move the seat to the rearmost position, and raise the seat to the upper most position, even if the "PASSENGER AIR BAG OFF" indicator light is illuminated.
  If the head restraint interferes with the child restraint system installation and the head restraint can be removed, remove the head restraint.

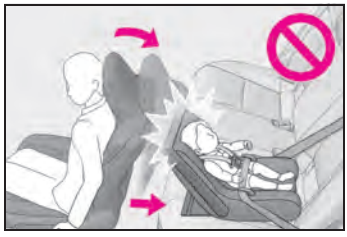


- Do not allow the child to lean his/her head or any part of his/her body against the door or the area of the seat, front or rear pillars, or roof side rails from which the SRS side airbags or SRS curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the SRS side and curtain shield airbags inflate, and the impact could cause death or serious injury to the child.

WARNING



- When a booster seat is installed, always ensure that the shoulder belt is positioned across the center of the child's shoulder. The belt should be kept away from the child's neck, but not so that it could fall off the child's shoulder.
- Use child restraint system suitable to the age and size of the child and install it to the rear seat.
- If the driver's seat interferes with the child restraint system and prevents it from being attached correctly, attach the child restraint system to the right-hand rear seat.



- Adjust the front passenger seat so that it does not interfere with the child restraint system.

Child restraint system fixed with a seat belt

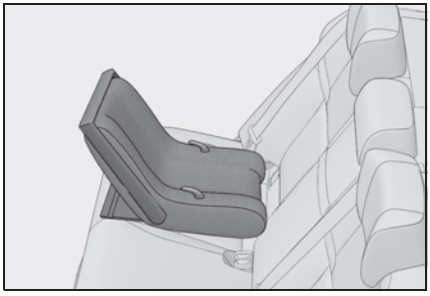
A child restraint system for a small child or baby must itself be properly restrained on the seat with the lap portion of the lap/shoulder belt.

n Installing child restraint system using a seat belt (child restraint lock function belt)

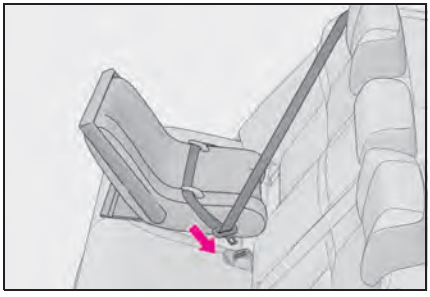
Install the child restraint system in accordance to the operation manual enclosed with the child restraint system.

n Rear-facing—Infant seat/convertible seat

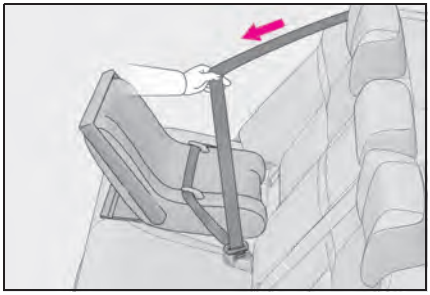
1 Place the child restraint system on the rear seat facing the rear of the vehicle.



2 Run the seat belt through the child restraint system and insert the plate into the buckle. Make sure that the belt is not twisted.

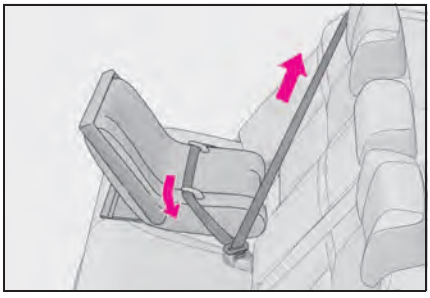


3 Fully extend the shoulder belt and allow it to retract to put it in lock mode. In lock mode, the belt cannot be extended.



4 While pushing the child restraint system down into the rear seat, allow the shoulder belt to retract until the child restraint system is securely in place.

After the shoulder belt has retracted to a point where there is no slack in the belt, pull the belt to check that it cannot be extended.



5 After installing the child restraint system, rock it back and forth to ensure that it is installed securely. (→P.54)

n **Forward-facing—Convertible seat**

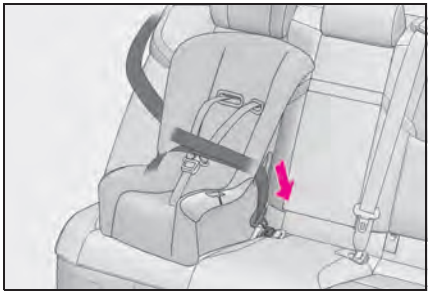
1 Adjust the seat

When using the front passenger seat: If installing the child restraint system to the front passenger seat is unavoidable, refer to P.49for front passenger seat adjustment.

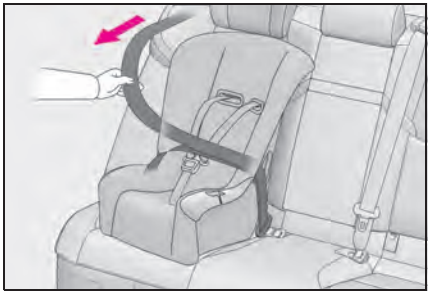
2 Place the child restraint system on the seat facing the front of the vehicle.



3 Run the seat belt through the child restraint system and insert the plate into the buckle. Make sure that the belt is not twisted.



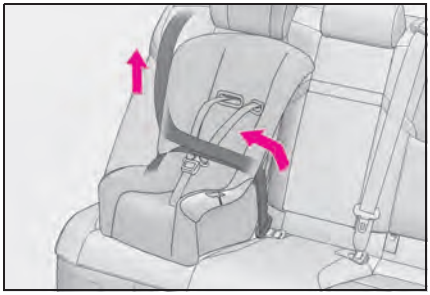
4 Fully extend the shoulder belt and allow it to retract to put it in lock mode. In lock mode, the belt cannot be extended.



5 While pushing the child restraint system into the rear seat, allow the shoulder belt to retract until the

child restraint system is securely in place.

After the shoulder belt has retracted to a point where there is no slack in the belt, pull the belt to check that it cannot be extended.



6 If the child restraint has a top tether strap, follow the child restraint manufacturer's operation manual regarding the installation, using the top tether strap to latch onto the top tether strap anchor. (→P.56)

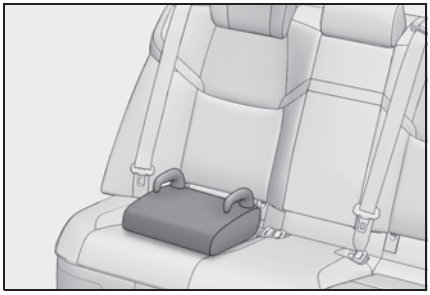
7 After installing the child restraint system, rock it back and forth to ensure that it is installed securely. (→P.54)

n **Booster seat**

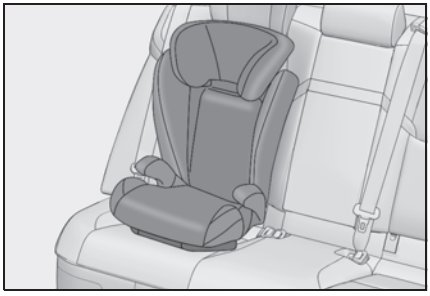
1 If installing the child restraint system to the front passenger seat is unavoidable, refer to P.49for front passenger seat adjustment.

2 Place the child restraint system on the seat facing the front of the vehicle.

▶ Booster type



▶ High back type



3 Sit the child in the child restraint system. Fit the seat belt to the child restraint system according to the manufacturer's instructions and insert the plate into the buckle. Make sure that the belt is not twisted.

Check that the shoulder belt is correctly positioned over the child's shoulder and that the lap belt is as low as possible. (→P.28)

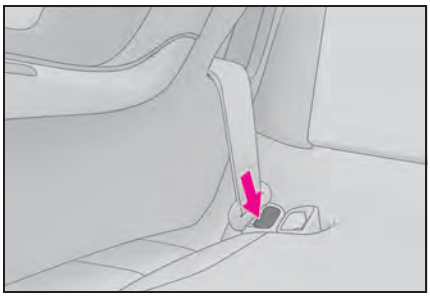


n Removing a child restraint system installed with a seat belt

Press the buckle release button and fully retract the seat belt.

When releasing the buckle, the child restraint system may spring up due to the rebound of the seat cushion. Release the buckle while holding down the child restraint system.

Since the seat belt automatically reels itself, slowly return it to the stowing position.



WARNING

n When installing a child restraint system

Observe the following precautions. Failure to do so may result in death or serious injury.

- Do not allow children to play with the seat belt. If the seat belt becomes twisted around a child's neck, it may lead to choking or other serious injuries that could result in death.
  If this occurs and the buckle cannot be unfastened, scissors should be used to cut the belt.
- Ensure that the belt and plate are securely locked and the seat belt is not twisted.
- Shake the child restraint system left and right, and forward and backward to ensure that it has been securely installed.
- After securing a child restraint system, never adjust the seat.
- When a booster seat is installed, always ensure that the shoulder belt is positioned across the center of the child's shoulder. The belt should be kept away from the child's neck, but not so that it could fall off the child's shoulder.
- Follow all installation instructions provided by the child restraint system manufacturer.
- When securing some types of child restraint systems in rear seats, it may not be possible to properly use the seat belts in positions next to the child restraint without interfering with it or affecting seat belt effectiveness. Be sure your seat belt fits snugly across your shoulder and low on your hips. If it does not, or if it interferes with the child restraint, move to a different position. Failure to do so may result in death or serious injury.

n When installing a booster seat

To prevent the belt from going into ALR lock mode, do not fully extend the shoulder belt. ALR mode causes the belt to tighten only. This could cause injury or discomfort to the child. (→P.30)

n Do not use a seat belt extender

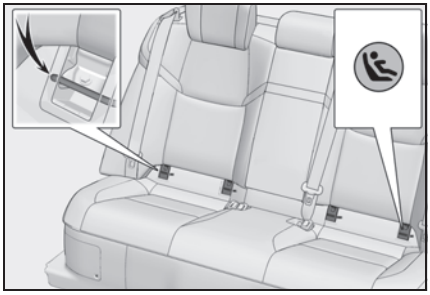
If a seat belt extender is used when installing a child restraint system, the seat belt will not securely hold the child restraint system, which could cause death or serious injury to the child or other passengers in the event of sudden braking, sudden swerving or an accident.

Child restraint system fixed with a child restraint LATCH anchor

n Child restraint LATCH anchors

LATCH anchors are provided for the outboard rear seats. (Marks displaying

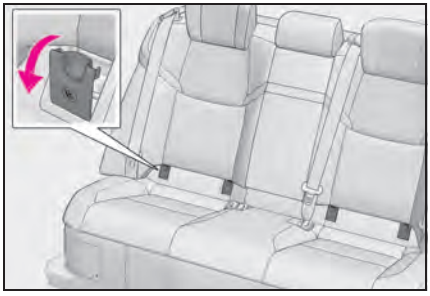
the location of the anchors are attached to the seats.)



n **When installing in the rear outboard seats**

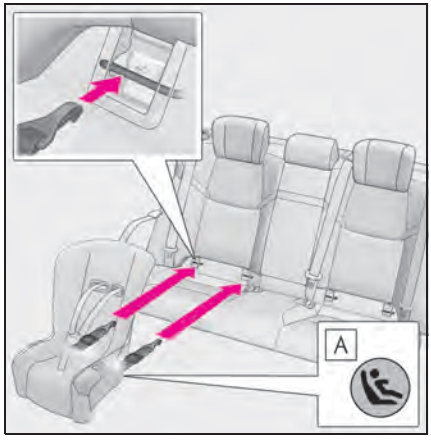
Install the child restraint system in accordance to the operation manual enclosed with the child restraint system.

1 Remove the cover.



▶ With flexible lower attachments

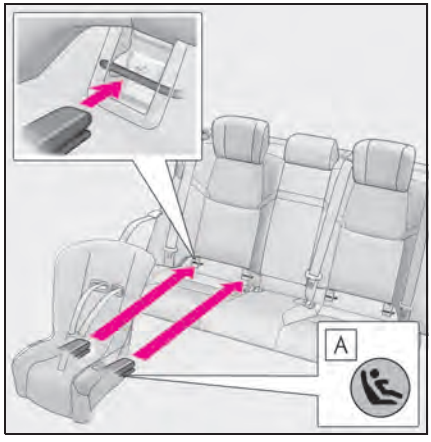
2 Latch the hooks of the lower attachments onto the LATCH anchors.
For owners in Canada:
The symbol on a child restraint system indicates **A** the presence of a lower connector system.



A Canada only

▶ With rigid lower attachments

2 Latch the buckles onto the LATCH anchors.
For owners in Canada:
The symbol on a child restraint system indicates **A** the presence of a lower connector system.



A Canada only

3 If the child restraint has a top tether strap, follow the child restraint man-

ufacturer's operation manual regarding the installation, using the top tether strap to latch onto the top tether strap anchor. (→P.56)

4 After installing the child restraint system, rock it back and forth to ensure that it is installed securely. (→P.54)

n **Laws and regulations pertaining to anchors**

The LATCH system conforms to FMVSS225 or CMVSS210.2.
Child restraint systems conforming to FMVSS213 or CMVSS213 specifications can be used.
This vehicle is designed to conform to SAE J1819.

WARNING

n **When installing a child restraint system**

Observe the following precautions. Failure to do so may result in death or serious injury.

- When using the LATCH anchors, be sure that there are no foreign objects around the anchors and that the seat belt is not caught behind the child restraint system.
- Follow all installation instructions provided by the child restraint system manufacturer.
- Child restraint systems cannot be installed in the rear center seat. Do not install the child restraint system in the rear center seat using the LATCH anchors.
- Never attach two child restraint system attachments to the same anchor. In a collision, one anchor may not be strong enough to hold two child restraint system attachments and may break. If the LATCH anchors are already in use, use the seat belt to install a child restraint system in the center seat.
- When securing some types of child restraint systems in rear seats, it may not be possible to properly use the seat belts in positions next to the child restraint without interfering with it or affecting seat belt effectiveness. Be sure your seat belt fits snugly across your shoulder and low on your hips. If it does not, or if it interferes with the child restraint, move to a different position. Failure to do so may result in death or serious injury.
- If the seat is adjusted, reconfirm the security of the child restraint system.

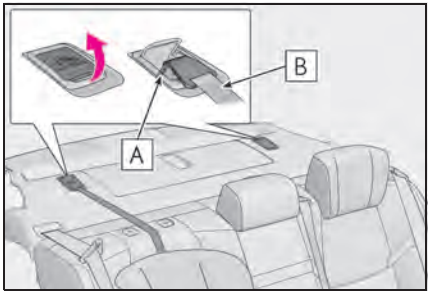
Using an anchor bracket (for top tether strap)

n **Anchor brackets (for top tether strap)**

Anchor brackets are provided for each rear seat.

Use anchor brackets when fixing the top tether strap.

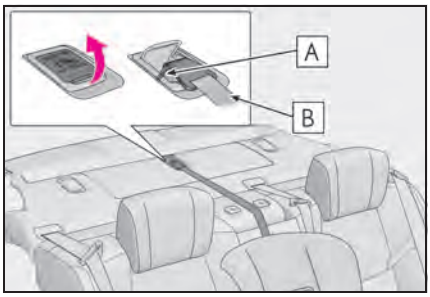
▶ Outboard rear seats



A Anchor brackets

B Top tether strap

▶ Rear center seat



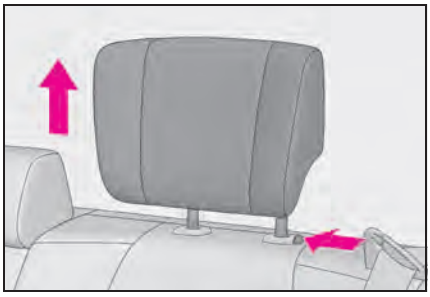
A Anchor bracket

B Top tether strap

n Fixing the top tether strap to the anchor bracket

Install the child restraint system in accordance to the operation manual enclosed with the child restraint system.

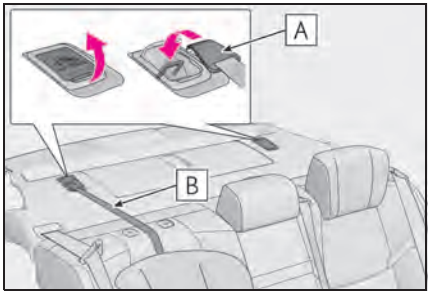
1 Remove the head restraint.



2 Open the anchor bracket cover, latch the hook onto the anchor bracket and tighten the top tether strap.

Make sure the top tether strap is securely latched. (→P.54)

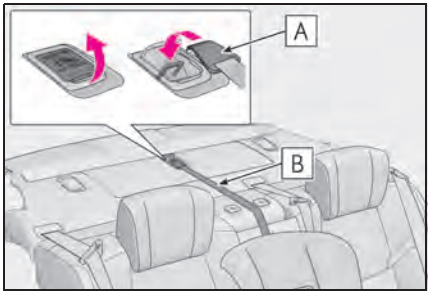
▶ Outboard rear seats



A Hook

B Top tether strap

▶ Rear center seat



A Hook

B Top tether strap

n Laws and regulations pertaining to anchors

The LATCH system conforms to FMVSS225 or CMVSS210.2.
Child restraint systems conforming to FMVSS213 or CMVSS213 specifications can be used.
This vehicle is designed to conform to SAE J1819.

WARNING

n When installing a child restraint system

Observe the following precautions. Failure to do so may result in death or serious injury.

- Firmly attach the top tether strap and make sure that the belt is not twisted.
- Do not attach the top tether strap to anything other than the anchor bracket.
- After securing a child restraint system, never adjust the seat.
- Follow all installation instructions provided by the child restraint system manufacturer.

NOTICE

n Anchor brackets (for top tether strap)

When not in use, make certain to close the lid. If it remains open, the lid may be damaged.

Safety Connect*

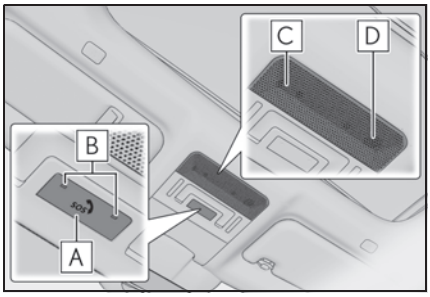
*: If equipped

Safety Connect is a subscription-based telematics service that uses Global Positioning System (GPS) data and embedded cellular technology to provide safety and security features to subscribers. Safety Connect is supported by Lexus' designated response center, which operates 24 hours per day, 7 days per week.

Safety Connect service is available by subscription on select, telematics hardware-equipped vehicles.

By using the Safety Connect service, you are agreeing to be bound by the Telematics Subscription Service Agreement and its Terms and Conditions, as in effect and amended from time to time, a current copy of which is available at Lexus.com. All use of the Safety Connect service is subject to such then-applicable Terms and Conditions.

System components



A "SOS" button

B LED light indicators

C Microphone

D Speaker

Services

Subscribers have the following Safety Connect services available:

- Automatic Collision Notification*

Helps drivers receive necessary response from emergency service providers. (→P.61)

*: U.S. Patent No. 7,508,298 B2

- Stolen Vehicle Location

Helps drivers in the event of vehicle theft. (→P.61)

- Emergency Assistance Button ("SOS")

Connects drivers to response-center support. (→P.61)

- Enhanced Roadside Assistance

Provides drivers various on-road assistance. (→P.61)

Subscription

After you have signed the Telematics Subscription Service Agreement and are enrolled, you can begin receiving services.

A variety of subscription terms is available for purchase. Contact your Lexus dealer, call the following or push the "SOS" button in your vehicle for further subscription details.

- The United States

1-800-25-LEXUS (1-800-255-3987)

- Canada

1-800-26-LEXUS (1-800-265-3987)

- Puerto Rico

1-877-539-8777

n Safety Connect Services Information

- Phone calls using the vehicles Bluetooth® technology will not be possible during Safety Connect.
- Safety Connect is available beginning Fall 2009 on select Lexus models (in the contiguous United States only). Contact with the Safety Connect response center is dependent upon the telematics device being in operative condition, cellular connection availability, and GPS satellite signal reception, which can limit the ability to reach the response center or receive emergency service support. Enrollment and Telematics Subscription Service Agreement required. A variety of subscription terms is available; charges vary by subscription term selected and location.
- Automatic Collision Notification, Emergency Assistance and Stolen Vehicle Location will function in the United States, including Hawaii and Alaska, Puerto Rico and in Canada, and Enhanced Roadside Assistance will function in the United States, Puerto Rico and in Canada.
- Automatic Collision Notification, Emergency Assistance, Stolen Vehicle and Enhanced Road Assistance will not function in the United States Virgin Islands. For vehicles first sold in the USVI, no Safety Connect services will function in and outside the United States Virgin Islands.
- Safety Connect services are not subject to section 255 of the Telecommunications Act and the device is not TTY compatible.

n Languages

The Safety Connect response center will offer support in multiple languages. The Safety Connect system will offer voice prompts in English, Spanish, and French. Please indicate your language of choice when enrolling.

n When contacting the response center

You may be unable to contact the response center if the network is busy.

Safety Connect LED light Indicators

When the power switch is turned to ON, the red indicator light comes on for 2 seconds then turns off. Afterward, the green indicator light comes on, indicating that the service is active.

The following indicator light patterns indicate specific system usage conditions:

- Green indicator light on = Active service
- Green indicator light flashing = Safety Connect call in process
- Red indicator light (except at vehicle start-up) = System malfunction (contact your Lexus dealer)
- No indicator light (off) = Safety Connect service not active

Safety Connect services

n Automatic Collision Notification

In case of either airbag deployment or severe rear-end collision, the system is designed to automatically call the response center. The responding agent receives the vehicle's location and attempts to speak with the vehicle occupants to assess the level of emergency. If the occupants are unable to communicate, the agent automatically treats the call as an emergency, contacts the nearest emergency services provider to describe the situation, and requests that assistance be sent to the location.

n Stolen Vehicle Location

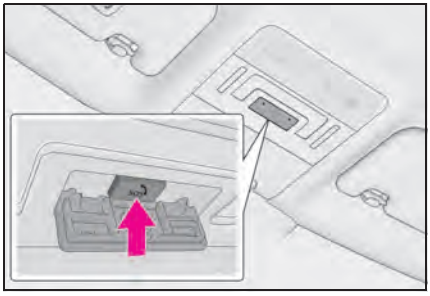
If your vehicle is stolen, Safety Connect can work with local authorities to assist them in locating and recovering the vehicle. After filing a police report, call the Safety Connect response center at 1-800-25-LEXUS (1-800-255-3987) in the United States, 1-877-539-8777 in Puerto Rico or 1-800-265-3987 in Canada, and follow the prompts for Safety Connect to initiate this service.

In addition to assisting law enforcement with recovery of a stolen vehicle, Safety-Connect-equipped vehicle location data may, under certain circumstances, be shared with third parties to locate your vehicle. Further information is available at Lexus.com.

n Emergency Assistance Button ("SOS")

In the event of an emergency on the road, push the "SOS" button to reach the Safety Connect response center.* The answering agent will determine your vehicle's location, assess the emergency, and dispatch the necessary assistance required.

Make sure to push the cover to open it before pressing the "SOS" button.



If you accidentally press the "SOS" button, tell the response-center agent that you are not experiencing an emergency.

*: In some cases, the call cannot be made. (→P.60)

n Enhanced Roadside Assistance

Enhanced Roadside Assistance adds GPS data to the already included warranty-based Lexus roadside service.

Subscribers can press the "SOS" button to reach a Safety Connect response-center agent, who can help with a wide range of needs, such as: towing, flat tire, fuel delivery, etc. For a description of the Roadside Assistance services and their limitations, please see the Safety Connect Terms and Conditions, which are available at Lexus.com.

Safety information for Safety Connect

Important! Read this information before using Safety Connect.

n Exposure to radio frequency signals

The Safety Connect system installed in your vehicle is a low-power radio transmitter and receiver. It receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for mobile wireless phones. Those guidelines are consistent with the safety standards previously set by the following U.S. and international standards bodies.

- ANSI (American National Standards Institute) C95.1 [1992]
- NCRP (National Council on Radiation Protection and Measurement) Report 86 [1986]
- ICNIRP (International Commission on Non-Ionizing Radiation Protection) [1996]

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. Over 120 scientists, engineers, and physicians from universities, and government health agencies and industries reviewed the available body of research to develop the ANSI Standard (C95.1).

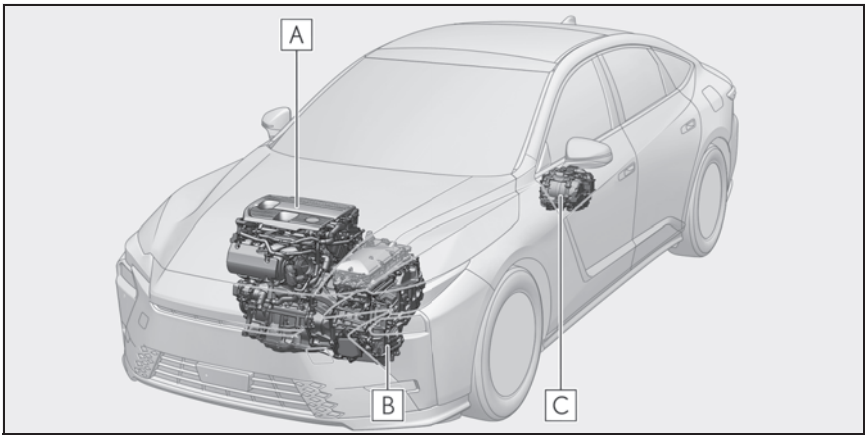
The design of Safety Connect complies with the FCC guidelines in addition to those standards.

Hybrid system features

Your vehicle is a Hybrid Electric Vehicle. It has characteristics different from conventional vehicles. Be sure you are closely familiar with the characteristics of your vehicle, and operate it with care.

The hybrid system combines the use of a gasoline engine and an electric motor (traction motor) according to driving conditions, improving fuel efficiency and reducing exhaust emissions.

System components



The illustration is an example for explanation and may differ from the actual item.

A Gasoline engine

B Front electric motor (traction motor)

C Rear electric motor (traction motor)*

*: AWD models only

n **When stopped/during start off**

The gasoline engine stops* when the vehicle is stopped. During start off, the electric motor (traction motor) drives the vehicle. At slow speeds or when traveling down a gentle slope, the engine is stopped* and the electric motor (traction motor) is used.

When the shift position is in N, the hybrid battery (traction battery) is not being charged.

*: When the hybrid battery (traction battery) requires charging or the engine is warming up, etc., the gasoline engine will not automatically stop. (→P.64)

n **During normal driving**

The gasoline engine is predominantly used. The electric motor (traction

motor) charges the hybrid battery (traction battery) as necessary.

n When accelerating sharply

When the accelerator pedal is depressed heavily, the power of the hybrid battery (traction battery) is added to that of the gasoline engine via the electric motor (traction motor).

n When braking (regenerative braking)

The wheels operate the electric motor (traction motor) as a power generator, and the hybrid battery (traction battery) is charged.

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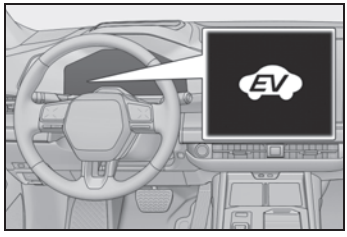
n Regenerative braking

In the following situations, kinetic energy is converted to electric energy and deceleration force can be obtained in conjunction with the recharging of the hybrid battery (traction battery).

- The accelerator pedal is released while driving with the shift position in D or S.
- The brake pedal is depressed while driving with the shift position in D or S.

n EV indicator

The EV indicator comes on when the vehicle is driven using only the electric motor (traction motor) or the gasoline engine is stopped.



n Conditions in which the gasoline engine may not stop

The gasoline engine starts and stops automatically. However, in any of the following situations, it may not stop automatically, possibly reducing fuel economy*:

- During gasoline engine warm-up
- During hybrid battery (traction battery) charging
- When the temperature of the hybrid battery (traction battery) is high or low
- When the heater is switched on
- When repeatedly accelerating/decelerating rapidly
- When repeatedly operating the hybrid system for a long time
- When driving down a long slope

*: Depending on the circumstances, the gasoline engine may also not stop automatically in other situations.

n Charging the hybrid battery (traction battery)

As the gasoline engine charges the hybrid battery (traction battery), the battery does not need to be charged from an outside source. However, if the vehicle is left parked for a long time the hybrid battery (traction battery) will slowly discharge. For this reason, be sure to drive the vehicle at least once every few months for at least 30 minutes or 10 miles (16 km). If the hybrid battery (traction battery) becomes fully discharged and you are unable to start the hybrid system, contact your Lexus dealer.

n Charging the 12-volt battery

→P.483

n After the 12-volt battery has discharged or when the terminal has been removed and installed during exchange, etc.

The gasoline engine may not stop even if the vehicle is being driven by the hybrid battery (traction battery). If this continues for a few days, contact your Lexus dealer.

n Sounds and vibrations specific to a Hybrid Electric Vehicle

Because there is no engine sound or vibration, it is easy to mistake the Hybrid Electric Vehicle for being off when it is actually still running, as indicated by the "READY" indicator being illuminated. For safety, make sure to always shift the shift position to P and apply the parking brake when parked.

The following sounds or vibrations may occur when the hybrid system is operating and are not a malfunction:

- Motor sounds may be heard from the engine compartment.
- Sounds may be heard from the hybrid battery (traction battery) under the rear seats when the hybrid system starts or stops.
- Relay operating sounds such as a snap or soft clank will be emitted from the hybrid battery (traction battery), under the rear seats, when the hybrid system is started or stopped.
- Sounds from the hybrid system may be heard when the trunk lid is open.
- Sounds may be heard from the transmission when the gasoline engine starts or stops, when driving at low speeds, or during idling.
- Engine sounds may be heard when accelerating sharply.
- Sounds may be heard due to regenerative braking when the brake pedal is depressed or as the accelerator pedal is released.
- Vibration may be felt when the gasoline engine starts or stops.
- Cooling fan sounds may be heard from the air intake vent under the rear seat.

n Maintenance, repair, recycling, and disposal

Contact your Lexus dealer regarding maintenance, repair, recycling and disposal. Do not dispose of the vehicle yourself.

n Customization

Some functions can be customized. (→P.510)

Acoustic Vehicle Alerting System

When driving with the gasoline engine stopped, a sound, which changes in accordance with the driving speed, will be played in order to warn people nearby of the vehicle's approach. This sound may be heard inside the vehicle. The sound will stop when the vehicle speed exceeds approximately 22 mph (35 km/h).

n Acoustic Vehicle Alerting System

In the following cases, the Acoustic Vehicle Alerting System may be difficult for surrounding people to hear.

- In very noisy areas
- In the wind or the rain

n If "Acoustic Vehicle Alerting System Malfunction Visit your Dealer" is displayed on the multi-information display

The system may be malfunctioning. Have the vehicle inspected by your Lexus dealer.

Predictive Efficient Drive*1,2

*1: This function can only be used in the mainland U.S.A. It cannot be used in other states and territories, including Alaska and Hawaii.

*2: For reflecting driving data to next supporting, it is recommended to uncheck "Predictive Efficient Drive" checkbox when the vehicle state is significantly different from usual such as towing.

This system operates based on the driving situation and traffic information to enhance fuel economy.

For details about Predictive Efficient Drive, refer to the "MULTIMEDIA OWNER'S MANUAL".

n Predictive Deceleration Support

The system is using collected driver's actions in the past to predict deceleration/stop points. By providing deceleration support to collected deceleration/stop points, hybrid bat-

tery charge amount can be increased.

When the vehicle approaches to the registered Predictive Deceleration Support location, the engine braking force will be increased according to the driving conditions after the accelerator pedal is released.

n Predictive SOC* Control

*: SOC means state of charge

The following types of control are performed based on data such as road and traffic information to help ensure that the vehicle efficiently uses electricity.

- When there is a long downhill slope along the route, the system reduces the hybrid battery level before reaching the slope to help ensure charging capacity for regenerative braking while traveling downhill.
- When traffic congestion is predicted along the route, the system helps ensure a certain battery level before reaching congested roads to reduce the frequency of starting the engine to charge the hybrid battery due to low battery levels.

n Predictive SOC*1 Control (predicting a destination)*2

*1: SOC means state of charge

*2: This setting can be changed when the Destination prediction setting is set to On. (→P.524)

Based on vehicle GPS data, the drive history of approximately 1 month is accumulated and analyzed, to identify locations (destinations) that the vehicle has been parked for an extended period of time.
In Predictive SOC Control (predicting a destination) mode, drive mode is changed automatically to EV drive when nearing such a predicted destination so that the remaining charge of the traction battery is reduced significantly. When the hybrid system is next started, the engine warms up while the traction battery is being charged which allows an earlier changeover to EV mode, thus controlling more efficiently the charging/discharging amount of the traction battery.

n Operating the Predictive SOC Control

The system operates when starting route guidance and the position of the vehicle is along the guided route. (The system does not operate in parking lots, etc.)

n Period during which Predictive Efficient Drive (Predictive SOC Control mode (predicting a destination)) operates

Predictive SOC Control mode (predicting a destination) is operational during the winter time only. Specific operational period may differ depending on the area. When a software update is performed, the operational period may be changed.

n Precautions regarding the Predictive Efficient Drive (Predictive SOC Control (predicting a destination)) operation

Depending on the vehicle's use conditions or road conditions, the charging/discharging amount of the traction battery may not be controlled more efficiently, or the Control mode operation may be restricted in order to protect the traction battery, even though Predictive SOC Control mode (predicting a destination) is enabled.

n Precautions regarding the vehicle's drive history

- Information, such as the vehicle's drive

history and locations that the vehicle has been parked for an extended period of time, is stored within the system, and is not sent to the Center.

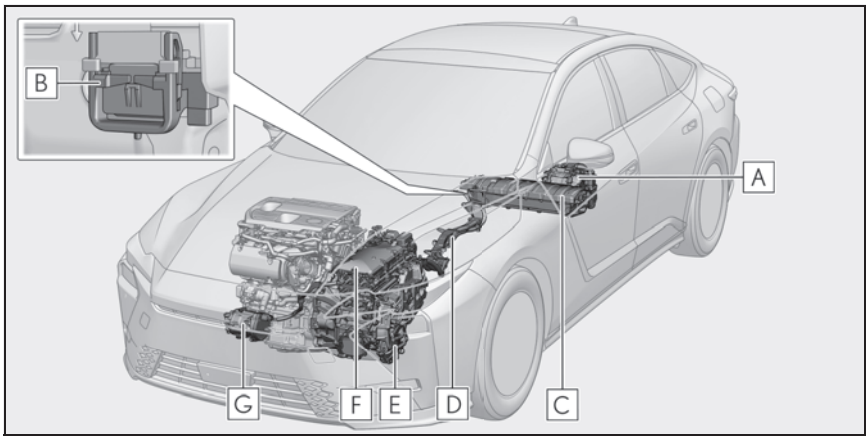
- Depending on the state of the drive history, it may take longer than 1 month before the analysis is completed.

Hybrid system precautions

Take care when handling the hybrid system, as it is a high voltage system (about 650 V at maximum) as well as contains parts that become extremely hot when the hybrid system is operating. Read the following descriptions carefully before using the hybrid system, and handle the hybrid system correctly.

Note that warning labels with a ⚠ mark are attached to the high voltage components, to remind you of careful handling required.

System components



The illustration is an example for explanation and may differ from the actual item.

A Rear electric motor (traction motor)*

B Service plug

C Hybrid battery (traction battery)

D High voltage cables (orange)

E Front electric motor (traction motor)

F Power control unit

G Air conditioning compressor

*: AWD models only

n **Running out of fuel**

When the vehicle has run out of fuel and the hybrid system cannot be started, refuel the vehicle with at least enough gasoline to make the low fuel level warning light (→P.445) go off. If there is only a small amount of fuel, the hybrid system may not be able to start. (The standard amount of fuel is about 2.9 gal. [11.0 L, 2.4 Imp.gal.], when the vehicle is on a level surface. This value may vary when the vehicle is on a

slope. Add extra fuel when the vehicle is inclined.)

n Electromagnetic waves

- High voltage parts and cables on Hybrid Electric Vehicles incorporate electromagnetic shielding, and therefore emit approximately the same amount of electromagnetic waves as conventional gasoline powered vehicles or home electronic appliances.
- Your vehicle may cause sound interference in some third party-produced radio parts.

n Hybrid battery (traction battery)

The hybrid battery (traction battery) has a limited service life. The lifespan of the hybrid battery (traction battery) can change in accordance with driving style and driving conditions.

n Starting the hybrid system in an extremely cold environment

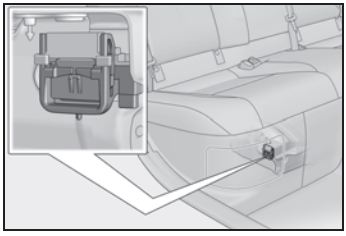
When the hybrid battery (traction battery) is extremely cold (below approximately -22°F [-30°C]) under the influence of the outside temperature, it may not be possible to start the hybrid system. In this case, try to start the hybrid system again after the temperature of the hybrid battery increases due to the outside temperature increase etc.

⚠ WARNING

n High voltage precautions

This vehicle has high voltage DC and AC systems as well as a 12-volt system. DC and AC high voltage is very dangerous and can cause severe burns and electric shock that may result in death or serious injury.

- Never touch, disassemble, remove or replace the high voltage parts, cables or their connectors.
- Do not touch the high voltage components. They are extremely hot, especially after driving.
- Never try to open the service plug access hole located under the rear seat. The service plug is used only when the vehicle is serviced and is subject to high voltage.



n Road accident cautions

Observe the following precautions to reduce the risk of death or serious injury:

- Stop the vehicle in a safe place to prevent subsequent accidents. While depressing the brake pedal, apply the parking brake and shift the shift position to P to stop the hybrid system. Then, slowly release the brake pedal.
- Do not touch the high voltage parts, cables and connectors.
- If electric wires are exposed inside or outside your vehicle, an electric shock may occur. Never touch exposed electric wires.
- Do not touch the battery if liquid is leaking from or adhering to it. If electrolyte (carbonic-based organic electrolyte) from the hybrid battery (traction battery) comes into contact with the eyes or skin, it could cause blindness or skin wounds. In the unlikely event that it comes into contact with the eyes or skin, wash it off immediately with a large amount of water, and seek immediate medical attention.

WARNING

- If electrolyte is leaking from the hybrid battery (traction battery), do not approach the vehicle.
  Even in the unlikely event that the hybrid battery (traction battery) is damaged, the internal construction of the battery will prevent a large amount of electrolyte from leaking out. However, any electrolyte that does leak out will give off a vapor. This vapor is an irritant to skin and eyes and could cause acute poisoning if inhaled.
- If a fire occurs in the Hybrid Electric Vehicle, leave the vehicle as soon as possible. Never use a fire extinguisher that is not meant for electric fires. Using even a small amount of water may be dangerous.
- If your vehicle needs to be towed, do so with front wheels (2WD models) or four wheels (AWD models) raised. If the wheels connected to the electric motor (traction motor) are on the ground when towing, the motor may continue to generate electricity.This may cause a fire. (→P.437)
- Carefully inspect the ground under the vehicle. If you find that liquid has leaked onto the ground, the fuel system may have been damaged. Leave the vehicle as soon as possible.

n Hybrid battery (traction battery)

- Your vehicle contains a sealed lithium-ion battery.
- Never resell, hand over or modify the hybrid battery. To prevent accidents, hybrid batteries that have been removed from a disposed vehicle are collected through Lexus dealer. Do not dispose of the battery yourself. Unless the battery is properly collected, the following may occur, resulting in death or serious injury:
  - The hybrid battery may be illegally disposed of or dumped, and it is hazardous to the environment or someone may touch a high voltage part, resulting in an electric shock.
  - The hybrid battery is intended to be used exclusively with your Hybrid Electric Vehicle. If the hybrid battery is used outside of your vehicle or modified in any way, accidents such as electric shock, heat generation, smoke generation, an explosion and electrolyte leakage may occur.

  When reselling or handing over your vehicle, the possibility of an accident is extremely high because the person receiving the vehicle may not be aware of these dangers.
- If your vehicle is disposed of without the hybrid battery having been removed, there is a danger of serious electric shock if high voltage parts, cables and their connectors are touched. In the event that your vehicle must be disposed of, the hybrid battery must be disposed of by your Lexus dealer or a qualified service shop. If the hybrid battery is not disposed of properly, it may cause electric shock that can result in death or serious injury.

NOTICE

n **Hybrid battery (traction battery)**

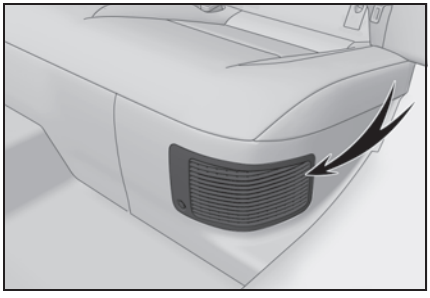
Do not carry large amounts of water such as water cooler bottles in the vehicle. If water spills onto the hybrid battery (traction battery), the battery may be damaged. Have the vehicle inspected by your Lexus dealer.

Hybrid battery (traction battery) air intake vent

There is an air intake vent under the left side of the rear seat with the purpose of cooling the hybrid battery (traction battery).

If the vent is blocked, it may interfere with the cooling of the hybrid battery (traction battery).

If input/output of the hybrid battery (traction battery) becomes limited and the distance that the vehicle can be driven using the electric motor (traction motor) is reduced, the fuel economy may be reduced.



NOTICE

n **Hybrid battery (traction battery) air intake vent**

- Make sure not to block the air intake vent with anything, such as a seat cover, plastic cover, or luggage. The input/output of the hybrid battery (traction battery) may be restricted, leading to a reduction in hybrid battery (traction battery) output and a malfunction.
- Periodically clean the air intake vent to prevent them from clogging. (→P.423)
- Do not get water or foreign materials in the air intake vent as this may cause a short circuit and damage the hybrid battery (traction battery).

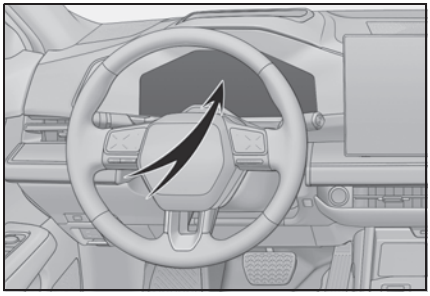
Emergency shut off system

When a certain level of impact is detected by the impact sensor, the emergency shut off system blocks the high voltage current and stops the fuel pump to minimize the risk of electrocution and fuel leakage. If the emergency shut off system activates, your vehicle will not restart. To restart the hybrid system, contact your Lexus dealer.

Hybrid warning message

A message is automatically displayed when a malfunction occurs in the hybrid system or an improper operation is attempted.

If a warning message is shown on the multi-information display, read the message and follow the instructions.



n If a warning light comes on, a warning message is displayed, or the 12-volt battery is disconnected

The hybrid system may not start. In this case, try to start the system again. If the "READY" indicator does not come on, contact your Lexus dealer.

Immobilizer system

The immobilizer system does not allow the hybrid system to start if a key has not been previously registered in the vehicle's on-board computer.

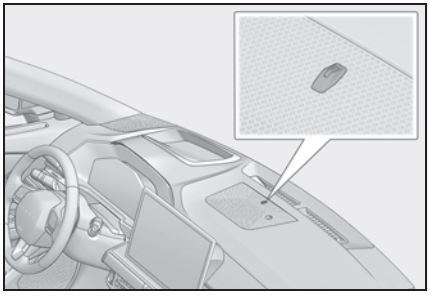
Never leave the keys inside the vehicle when you leave the vehicle.

This system is designed to help prevent vehicle theft but does not guarantee absolute security against all vehicle thefts.

Operating the system

The indicator light flashes after the power switch has been turned off to indicate that the system is operating.

The indicator light stops flashing after the power switch has been turned to ACC or ON to indicate that the system has been canceled.



n **System maintenance**

The vehicle has a maintenance-free type immobilizer system.

n **Conditions that may cause the system to malfunction**

- If the electronic key, digital key (if equipped), or NFC Key Card (if equipped) is in contact with, or is covered by a metallic object
- If the electronic key, digital key (if equipped), or NFC Key Card (if equipped) is in close proximity to or touching a key registered to the security system of another vehicle

NOTICE

n **To ensure the system operates correctly**

Do not modify or remove the system. If modified or removed, the proper operation of the system cannot be guaranteed.

Alarm

The alarm uses light and sound to give an alert when an intrusion is detected.
The alarm is triggered in the following situations when the alarm is set:

- A locked door or trunk is unlocked or opened in any way other than using the entry function or wireless remote control. (The doors will lock again automatically.)
- The hood is opened.

Setting/deactivating/stopping the alarm system

n Items to check before locking the vehicle

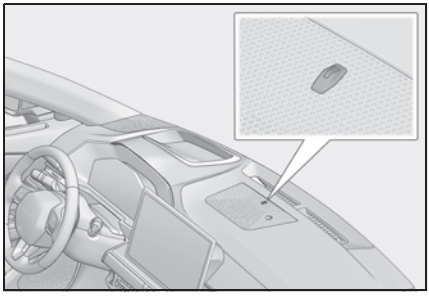
To prevent unexpected triggering of the alarm and vehicle theft, make sure of the following:

- Nobody is in the vehicle.
- The windows and panoramic moon roof are closed before the alarm is set.
- No valuables or other personal items are left in the vehicle.

n Setting

Close the doors, trunk and hood, and lock all the doors. The system will be set automatically after 30 seconds.

The indicator light changes from being on to flashing when the system is set.



n Deactivating or stopping

Do one of the following to deactivate or stop the alarm:

- Unlock the doors or open the trunk using the entry function or wireless remote control.
- Start the hybrid system. (The alarm will be deactivated or stopped after a few seconds.)

n Setting the alarm

The alarm can be set if all the doors are closed even with the trunk or hood open.

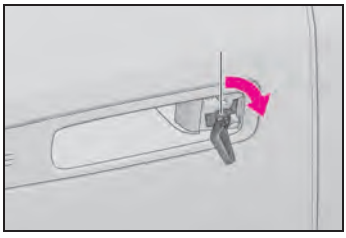
n System maintenance

The vehicle has a maintenance-free type alarm system.

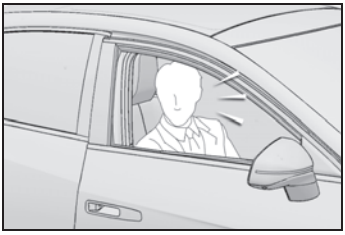
n Triggering of the alarm

The alarm may be triggered in the following situations:
(Stopping the alarm deactivates the alarm system.)

- The doors are unlocked using the mechanical key.



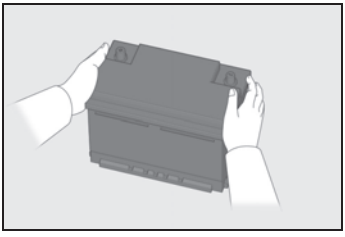
- A person inside the vehicle opens a door, the trunk or hood, or unlocks the vehicle.



- A person inside the vehicle starts the hybrid system.

The alarm will be deactivated or stopped after a few seconds.

- The 12-volt battery is recharged or replaced when the vehicle is locked. (→P.483)



n Alarm-operated door lock

In the following cases, depending on the situation, the door may automatically lock to prevent improper entry into the vehicle:

- When a person remaining in the vehicle unlocks the door and the alarm is activated.
- While the alarm is activated, a person remaining in the vehicle unlocks the door.
- When recharging or replacing the 12-volt battery

NOTICE

n To ensure the system operates correctly

Do not modify or remove the system. If modified or removed, the proper operation of the system cannot be guaranteed.

Pre-alarm

If a door is unlocked with the mechanical key while the alarm is being set, the pre-alarm will sound for 10 seconds.

If either the door is locked again or the pre-alarm is stopped within those 10 seconds, an alarm will sound.

Do any of the following in order to deactivate or stop the pre-alarm:

- Close the doors, and lock all doors by smart access system or wireless remote control.
- Turn the power switch to ACC or ON, or start the hybrid system. (The alarm will be deactivated or stopped after a few seconds.)

Vehicle status information and indicators

2

2-1. Instrument cluster

Warning lights and indicators 78

Gauges and meters 83

Multi-information display 88

Head-up display 96

Warning lights and indicators

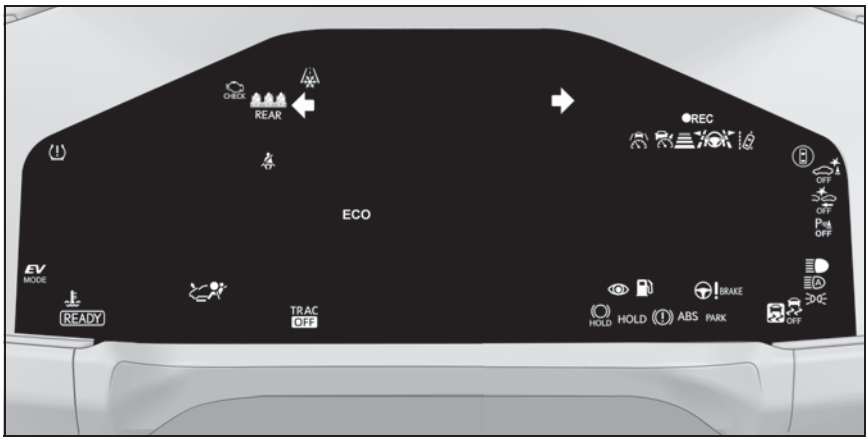
The warning lights and indicators on the instrument cluster, outside rear view mirrors and overhead console inform the driver of the status of the vehicle's various systems.

Warning lights and indicators displayed on the instrument cluster

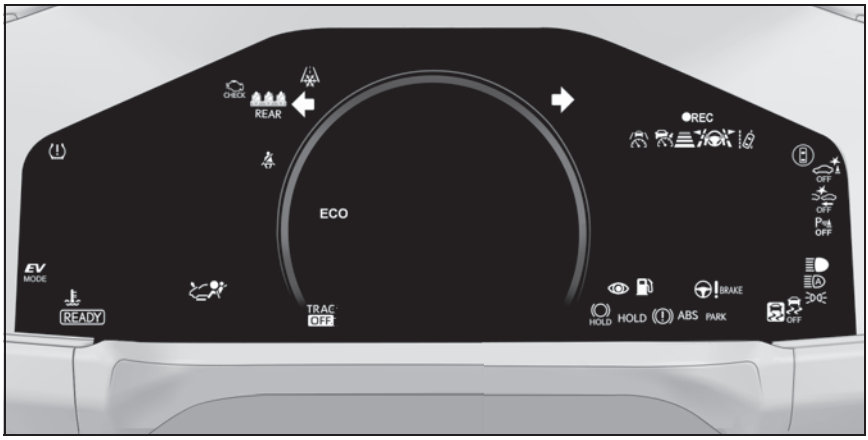
For the purpose of explanation, the following illustrations display all warning lights and indicators illuminated.

The location of warning lights and indicators may differ depending on the setting.

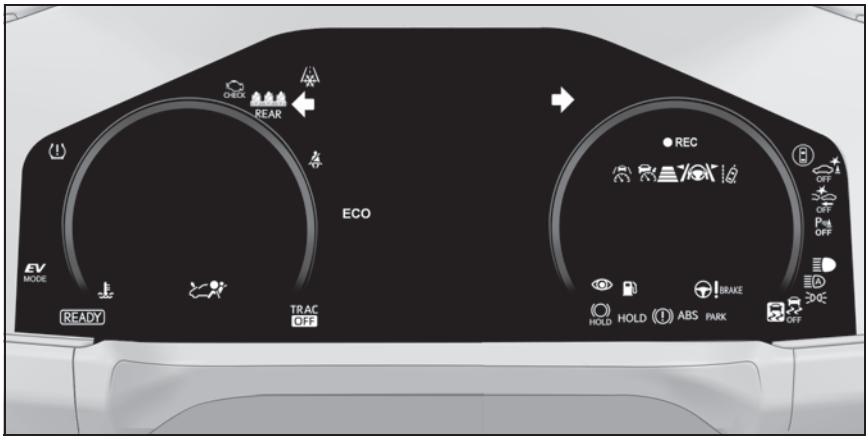
▶ Simple/Navigation/Driving support system information/ECO



▶ 1 dial



▶ 2 dials



Warning lights

Warning lights inform the driver of malfunctions in the indicated vehicle's systems.

BRAKE (U.S.A.) Brake system warning light *1 (→P.442)

(red) (Canada) Brake system warning light *1 (→P.442)

(yellow) Brake system warning light *1 (→P.442)

High coolant temperature warning light *2 (→P.442)

Hybrid system overheat warning light *2 (→P.443)

Charging system warning light *2 (→P.443)

Low engine oil pressure warning light *2 (→P.443)

CHECK (U.S.A.) Malfunction indicator lamp *1 (→P.443)

(Canada) Malfunction indicator lamp *1 (→P.443)

SRS warning light *1 (→P.444)

Pop Up Hood warning light *1 (→P.444)

ABS (U.S.A.) ABS warning light *1 (→P.444)

(Canada) ABS warning light *1 (→P.444)

Inappropriate pedal operation warning light *2 (→P.444)

(red) Electric power steering system warning light *1 (→P.445)

(yellow) Electric power steering system warning light *1 (→P.445)

Low fuel level warning light (→P.445)

Driver's and front passenger's seat belt reminder light (→P.445)



Rear passengers' seat belt reminder light (→P.445)


Tire pressure warning light*1 (→P.446)



Parking Assist-Sensor OFF indicator*1 (if equipped) (→P.446)



PKSB OFF indicator*1 (if equipped) (→P.447)



PCS warning light*1 (→P.446)


(yellow)
LTA indicator (→P.447)


(yellow)
LDA indicator (→P.447)


(yellow)
Dynamic radar cruise control indicator (→P.447)



(yellow)
Dynamic radar cruise control eco run mode indicator (→P.448)


(yellow)
Cruise control indicator (→P.447)


Driving assist warning light*1 (→P.448)


Driver Monitor warning light*1 (if equipped) (→P.448)


(illuminates)
Slip indicator*1 (→P.448)



(flashes) (U.S.A.)
Parking brake indicator (→P.449)


(flashes) (Canada)
Parking brake indicator (→P.449)



(flashes)
Brake hold operated indicator*1 (→P.449)

*1: These lights come on when the power switch is turned to ON to indicate that a system check is being performed. They will turn off after the hybrid system is started, or after a few seconds. There may be a malfunction in a system if the lights do not come on, or turn off. Have the vehicle inspected by your Lexus dealer.

*2: This light illuminates on the multi-information display.

WARNING

n If a safety system warning light does not come on

Should a safety system light such as the ABS and SRS warning lights not come on when you start the hybrid system, this could mean that these systems are not available to help protect you in an accident, which could result in death or serious injury. Have the vehicle inspected by your Lexus dealer immediately if this occurs.

Indicators

The indicators inform the driver of the operating state of the vehicle's various systems.


Turn signal indicator (→P.175)


(U.S.A.)
Headlight indicator (→P.182)


(Canada) Tail light indicator (→P.182)


Headlight high beam indicator (→P.183)


(white) AHB indicator (→P.184)


(green) AHB indicator (→P.184)


(green) AHB indicator (→P.184)


PCS warning light*1, 2 (→P.208)


(green) LTA indicator (→P.218)


(white) LTA indicator (→P.218)


(green) LCA indicator (if equipped) (→P.223)


(white) LCA indicator (if equipped) (→P.223)


(red) LDA indicator (→P.227)


(white) LDA indicator (→P.227)


LDA OFF indicator*2 (→P.227)


(green) Dynamic radar cruise control indicator (→P.243)


(white) Dynamic radar cruise control indicator (→P.243)


(green) Vehicle-to-vehicle distance indicator (→P.243)


(white) Vehicle-to-vehicle distance indicator (→P.243)


(green) Dynamic radar cruise control eco run mode indicator (→P.243)


(white) Dynamic radar cruise control eco run mode indicator (→P.243)


(green) Cruise control indicator (→P.255)


(white) Cruise control indicator (→P.243)


Traffic Jam Assist indicator (if equipped) (→P.260)


Driver Monitor OFF indicator*2 (if equipped) (→P.206)


Driving assist warning light*1, 2 (→P.265, 269, 283, 288, 291)


Driving assist OFF indicator*1, 2 (→P.82)


Outside rear view mirror indicators*1, 3 (→P.265, 269, 283)


Parking Assist-Sensor OFF indicator*1, 2 (if equipped) (→P.275)


Parking Assist-Sensor detection indicator (if equipped) (→P.275)


PKSB OFF indicator*1, 2 (if equipped) (→P.291)


(flashes) Slip indicator*1 (→P.332)


VSC OFF indicator*1, 2 (→P.332)



TRAC OFF indicator[*1, 2] (→P.331)



"READY" indicator (→P.163)



(U.S.A.)
Parking brake indicator (→P.176)


(Canada)
Parking brake indicator (→P.176)



Brake hold standby indicator[*1] (→P.179)



Brake hold operated indicator[*1] (→P.179)


EV indicator (→P.64)


Low outside temperature indicator[*4] (→P.83)



REC indicator (if equipped) (→P.264)



EV drive mode indicator (→P.167)



Eco drive mode indicator (→P.329)



Sport mode indicator (→P.329)



Custom mode indicator (→P.329)

[*1]: These lights come on when the power switch is turned to ON to indicate that a system check is being performed. They will turn off after the hybrid system is started, or after a few seconds. There may be a malfunction in a system if the lights do not come on, or turn off. Have the vehicle inspected by your Lexus dealer.

[*2]: This light comes on when the system is turned off.

[*3]: This light illuminates on the outside rear view mirrors.

[*4]: When the outside temperature is approximately 37°F (3°C) or lower, this indicator will flash for approximately 10 seconds, then stay on.

n Driving assist OFF indicator

Indicates any of the following systems are malfunctioning, disabled, or turned off.

Follow the instructions displayed on the multi-information display.

- RCD (Rear Camera Detection) (if equipped)
- BSM (Blind Spot Monitor)
- RCTA (Rear Cross Traffic Alert)
- Safe Exit Assist
- EDSS (Emergency Driving Stop System)

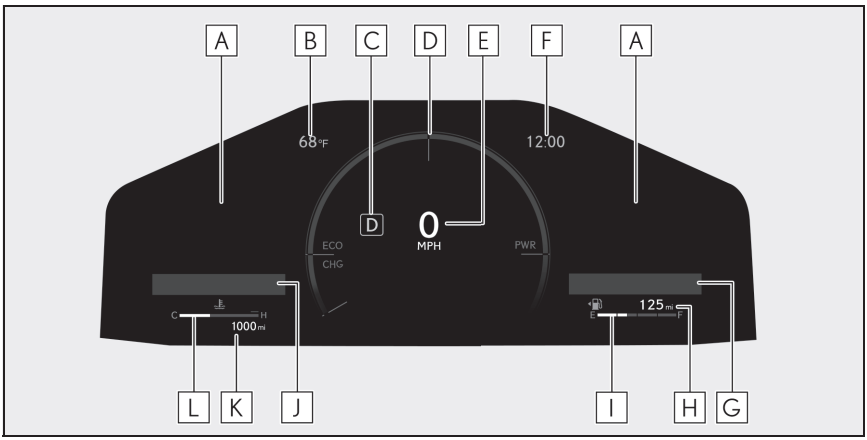
Gauges and meters

Meter display

n Locations of gauges and meters

Depending on the settings and system operation, the meter displays or position of some gauges will change. The settings can be changed on the multi-information display. (→P.511)

▶ Simple/1 dial/Navigation/Driving support system information/ECO



The units used on the meters may differ depending on the target region.

A Multi-information display

Presents the driver with a variety of vehicle data (→P.88)
Displays warning messages if a malfunction occurs (→P.452)

B Outside temperature

Displays the ambient temperature within the range of -40°F (-40°C) to 140°F (60°C).

C Shift position/shift range/gear position* (→P.169)

D Analog meter

Analog meter can be changed on the settings. (→P.94)

Hybrid System Indicator: Displays hybrid system output or regeneration level. (→P.85)

Analog speedometer: Displays the vehicle speed

Tachometer: Displays the engine speed in revolutions per minute.

Linked to drive mode: Depending on the selected drive mode or certain settings, the display will change. (→P.329)

E Digital speedometer*

F Clock

Automatically adjusts the time by using the GPS time information (GPS clock). For details, refer to the "MULTIMEDIA OWNER'S MANUAL".

G Widget (fuel economy)

Displays fuel economy information. (→P.89)

While list of items for content display area is displayed, widget will not be displayed.

H Driving range

Displays driving range with remaining fuel.

May be displayed in another location depending on the warning light lit.

I Fuel gauge

Displays the quantity of fuel remaining in the tank.

J Widget (audio system-linked display)

Displays the selected audio source or track on the meter. (→P.93)

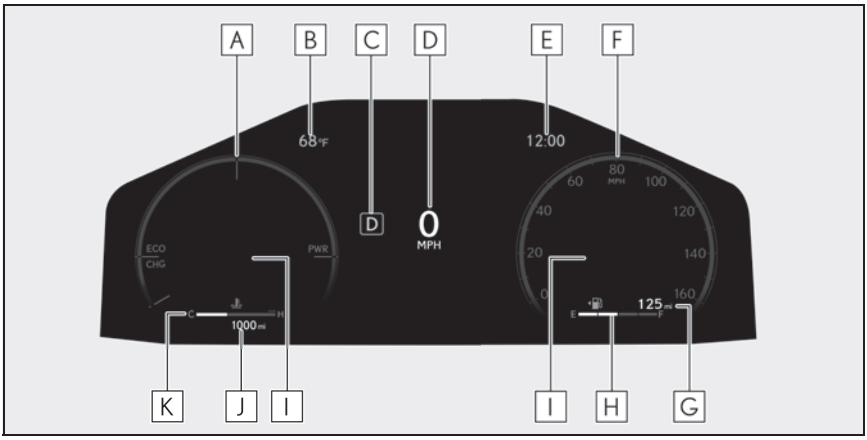
While list of items for content display area is displayed, widget will not be displayed.

K Odometer display

L Engine coolant temperature gauge

Displays the engine coolant temperature.

▶ 2 dials



The units used on the meters may differ depending on the target region.

A Analog meter

Analog meter can be changed on the settings. (→P.94)

Hybrid System Indicator: Displays hybrid system output or regeneration level. (→P.85)

Tachometer: Displays the engine speed in revolutions per minute.

Linked to drive mode: Depending on the selected drive mode or certain settings, the display will change. (→P.329)

B Outside temperature

Displays the ambient temperature within the range of -40°F (-40°C) to 140°F (60°C).

C Shift position/shift range/gear position* (→P.169)

D Digital speedometer*

E Clock

Automatically adjusts the time by using the GPS time information (GPS clock). For details, refer to the "MULTIMEDIA OWNER'S MANUAL".

F Analog speedometer

G Driving range

Displays driving range with remaining fuel.

May be displayed in another location depending on the warning light lit.

H Fuel gauge

Displays the quantity of fuel remaining in the tank.

I Multi-information display

Presents the driver with a variety of vehicle data (→P.88)
Displays warning messages if a malfunction occurs (→P.452)

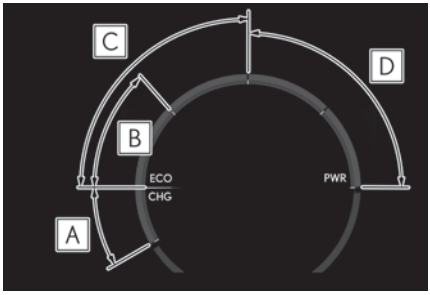
J Odometer display

K Engine coolant temperature gauge

Displays the engine coolant temperature.

*: The positions where information is displayed may vary depending on the selected screen, whether or not pop-up displays are shown, or other display conditions.

n Hybrid System Indicator



This illustration is for explanation only and may differ depending on the specifications of the vehicle.

A Charge area

Shows regeneration* status.

B Hybrid Eco area

Shows that gasoline engine power is not being used very often.

The gasoline engine will automatically stop and restart under various conditions.

C Eco area

Shows that the vehicle is being driven in an Eco-friendly manner.

D Power area

Shows that an Eco-friendly driving range is being exceeded (during full power driving etc.)

- By keeping the indicator needle within Eco area, more Eco-friendly driving can be achieved.
- Charge area indicates regeneration* status. Regenerated energy will be used to charge the hybrid battery (traction battery).

*: When used in this manual, regeneration refers to the conversion of energy created by the movement of the vehicle into electrical energy.

n The meters and display illuminate when

The power switch is in ON.

n Engine speed

On Hybrid Electric Vehicles, engine speed is precisely controlled in order to help improve fuel efficiency and reduce exhaust emissions etc.
There are times when the engine speed that is displayed may differ even when vehicle operation and driving conditions are the same.

n Outside temperature display

- In the following situations, the correct outside temperature may not be displayed, or the display may take longer than normal to change:
  - When stopped, or driving at low speeds (less than 12 mph [20 km/h])
  - When the outside temperature has changed suddenly (at the entrance/exit of a garage, tunnel, etc.)
- When "--" or "E" is displayed, the system may be malfunctioning. Take your vehicle to your Lexus dealer.

n Distance to empty

- This distance is computed based on your average fuel consumption. As a result, the actual distance that can be driven may differ from that displayed.
- When only a small amount of fuel is added to the tank, the display may not be updated. When refueling, turn the power switch off. If the vehicle is refueled without turning the power switch off, the display may not be updated.

n Liquid crystal display

Small spots or light spots may appear on the display. This phenomenon is characteristic of liquid crystal displays, and there is no problem continuing to use the display.

n Customization

The gauges and meters can be customized on ⚙ of the multi-information display.(→P.94)

WARNING

n The information display at low temperatures

Allow the interior of the vehicle to warm up before using the liquid crystal information display. At extremely low temperatures, the information display monitor may respond slowly, and display changes may be delayed.

For example, there is a lag between the driver's shifting and the new gear number appearing on the display. This lag could cause the driver to downshift again, causing rapid and excessive engine braking and possibly an accident resulting in death or injury.

NOTICE

n To prevent damage to the engine and its components

- Do not let the indicator needle of the tachometer enter the red zone, which indicates the maximum engine speed.
- The engine may be overheating if the engine coolant temperature gauge is in the red zone (H); or "Engine Coolant Temp High Stop in a Safe Place See Owner's Manual" is shown on the multi-information display. In this case, immediately stop the vehicle in a safe place, and check the engine after it has cooled completely. (→P.485)

Manually updating the fuel gauge and possible driving range

The fuel gauge and the possible driving range are linked. If the displays of the fuel gauge and possible driving range do not update after adding a small amount of fuel, the displays can be updated by performing the following

procedure.

1 Stop the vehicle on a level surface.

2 Turn the power switch off.

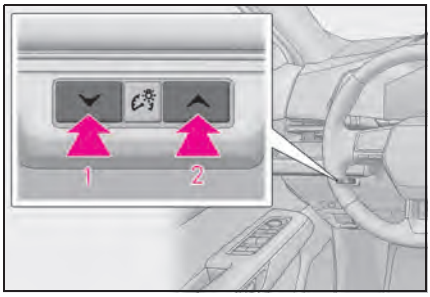
3 While pressing and holding the OK switch, turn the power switch to ON.

4 Continue to hold the OK switch for approximately 5 seconds, and then release it once the odometer begins flashing.

Updating is complete once the odometer flashes for approximately 5 seconds and then the display returns to normal.

Changing the instrument panel light brightness

The brightness of the meter lights can be adjusted.



1 Darker

2 Brighter

n Brightness of the meters (day mode and night mode)

The brightness of the meters is changed between day mode and night mode.

- Day mode: When the tail lights are off
- Night mode: When the tail lights are on and the surrounding area is dark

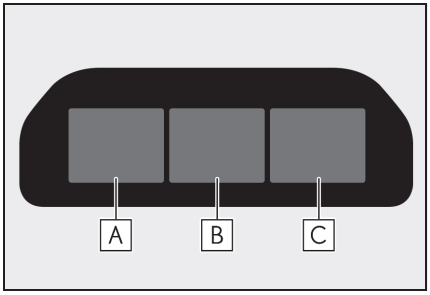
When the tail lights are on but the surrounding area is bright, any adjustments made to the meter brightness levels will be applied to both modes at once.

Multi-information display

Displayed contents summary

n Display area

A variety of driving-related information can be displayed. Depending on the situation, warning or advice pop-up displays will also be displayed.



A Content display area (left)

B Content display area (center)

C Content display area (right)

n Items displayed in the content display area

● Content display area (center)

- Driving support system information display (→P.93)
- Map display (→P.93)
- Fuel consumption screen (→P.92)

● Content display area (left)

- Fuel consumption (→P.89)
- EV Driving Ratio/Elapsed time after starting (→P.90)
- AWD operation status display (if equipped) (→P.93)
- Navigation system-linked display (→P.93)
- Audio system-linked display (→P.93)
- Drive information (→P.90)
- TRIP A (→P.90)
- TRIP B (→P.90)
- Energy monitor (→P.90)
- TPMS (→P.93)
- G-force (→P.91)
- Settings display (→P.94)
- Warning message display
- Blank

● Content display area (right)

- Driving support system information display*1 (→P.93)
- Navigation system-linked informationdisplay*2 (→P.93)

*1: When except Driving support system information display is selected.

*2: When Driving support system information display is selected.

n Changing the meter display item

→P.511

n Liquid crystal display

→P.86

WARNING

n Caution for use while driving

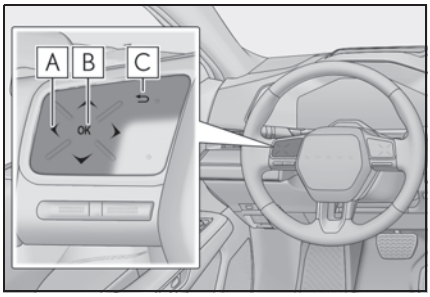
l When operating the multi-information display while driving, pay extra attention to the safety of the area around the vehicle.

l Do not look continuously at the multi-information display while driving as you may fail to see pedestrians, objects on the road, etc. ahead of the vehicle.

n The information display at low temperatures

→P.86

Components/Operations



A ＜ / ＞ : Change the screen, display the cursor and move the cursor up/down

∧ / ∨ : Change displayed content and scroll up/down the screen

B Press: Enter/Set
Press and hold: Reset/Display customizable items

C Return to the previous screen

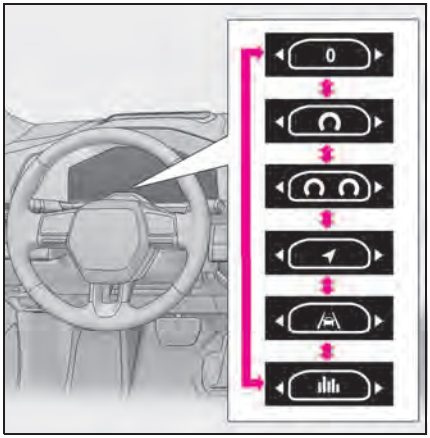
n **If the steering wheel switches do not respond when touched (vehicles with a head-up display)**

- It is easier to make the steering wheel switches respond by moving your thumb while touching them.
- If the surface of a steering wheel switch is dirty, turn the power switch off and then clean the switches.

Changing the display of the multi-information display

n **Changing meter pages**

Press ＜ or ＞ of the meter controlswitches to scroll the screen.



n **Changing settings of the meter type**

The meter type can be set from ⚙ on the multi-information display as follows. (→P.511)

- Simple
- 1 dial
- 2 dials
- Navigation
- Driving Assist
- Eco

WARNING

n **Caution for use while driving**

For safety, avoid operating the meter control switches while driving as much as possible, and do not look continuously at the multi-information display while driving. Stop the vehicle and operate the meter control switches. Failure to do so may cause a steering wheel operation error, resulting in an unexpected accident.

Fuel consumption

The following items can be displayed

on the multi-information display.

Use the displayed values as a reference only.

- Current fuel consumption

Displays instantaneous current fuel consumption.

- Average fuel consumption*1, 2
- Average fuel consumption since starting*1, 3

Displays the average fuel consumption since starting.

- Tank average*1

*1: The fuel economy selected by "Graph Type" on the screen is displayed. (→P.511)

*2: Average fuel consumption since the function was reset can be reset by pressing and holding OK.

*3: Average fuel economy after starting is reset each time the hybrid system stops.

Drive information

2 items that are selected using the "Drive Info Items" setting (average speed and distance) can be displayed vertically.

Use the displayed values as a reference only.

- Average speed*
- Distance*
- Total time*

*: These items are reset each time the hybrid system stops.

Trip information display

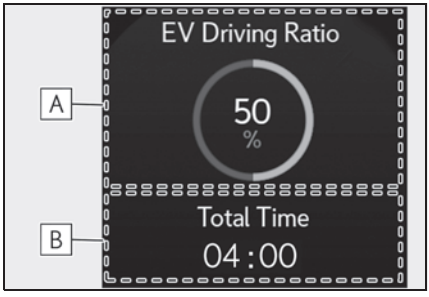
2 items that are selected using the "TRIP A Items" or "TRIP B Items" setting (average speed and distance) can be displayed vertically.

Use the displayed values as a reference only.

- Average speed*
- Distance*
- Total time*

*: These items are reset each time the hybrid system stops.

EV Driving Ratio/Elapsed time after starting



A EV driving ratio after starting

Displays the percentage of EV driving since the hybrid system was started.*

B Elapsed time after starting

Displays the elapsed time since hybrid system was started.*

*: It is reset each time the hybrid system stops.

Energy monitor

The energy monitor can be used to

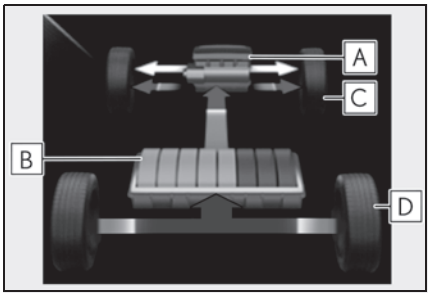
check the vehicle drive status, hybrid system operation status and energy regeneration status.

The arrows will appear in accordance with the energy flow. When there is no energy flow, arrows will not be displayed.

The color of the arrows will change as follows

- Green: When the hybrid battery (traction battery) is regenerated or charged.
- Blue: When the hybrid battery (traction battery) is in use.
- Red: When the gasoline engine is in use.

The image shows all the arrows as an example. The actual display will vary depending on conditions.



A Gasoline engine

B Hybrid battery (traction battery)

C Front tires

D Rear tires

This illustration is for explanation only and may differ depending on the specifications of the vehicle.

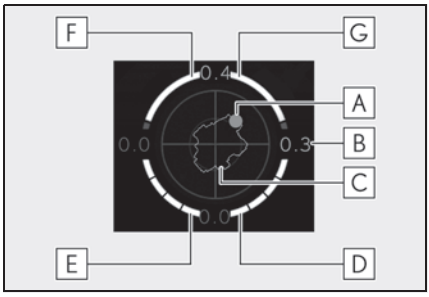
n **Remaining charge amount warning of hybrid battery (traction battery)**

- The buzzer sounds intermittently when the hybrid battery (traction battery) remains without charging while the shift position is in N, or the remaining charge amount drops below a certain level. If the remaining charge amount drops further, the buzzer sounds continuously.
- When a warning message is shown on the multi-information display and the buzzer sounds, follow the instructions displayed on the screen to perform troubleshooting.

G-force

Displays lateral G-forces on the vehicle on the multi-information display.

Displays around the periphery of the G-force display, the left and right steering amount, accelerator pedal input, and brake fluid pressure.



A Acceleration G-force on the vehicle

B Current G-force value (analyzed value of front/rear and left/right G-forces)

C Record of the maximum G-forces

OK Press: Change to display/not display

OK Press and hold: Reset

D Accelerator pedal input

E Brake operation amount

F Left steering amount

G Right steering amount

This display is intended for use as a guideline. Depending on factors such as the road surface condition, temperature and vehicle speed, the display may not show the actual condition of the vehicle.

● Peak hold function

If lateral G-forces of 0.5 G or greater are generated, the G-force value display will turn amber and be held for 2 seconds.

n **G-force display**

- The G-force values may not be zero even when the vehicle is parked, such as when it is parked on an incline.
- Depending on the vehicle usage conditions, the brake fluid pressure display may not reach its maximum reading even though the brake pedal is fully depressed.
- If a 12-volt battery terminal is disconnected and reconnected, the steering amount display may be disabled temporarily. After driving the vehicle for a while, the display will be enabled.

Blank (No items)

Displays no drive information contents on the multi-information display.

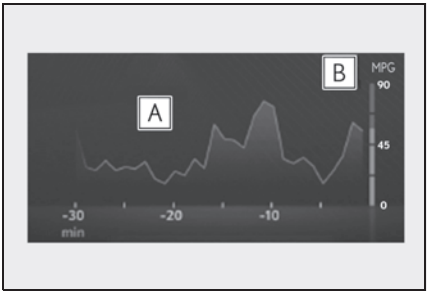
Current fuel consumption/history screen

By selecting "Eco" during page switching (→P.89), the information on fuel consumption is displayed in the contents display area (center).

n **Displaying fuel consumption/history screen**

1. Select ⚙ on the multi-information display.
2. Select "Meter Setting", "Meter Type" and then "Eco".
3. Select "Fuel Consumption","Graph Type", and then "Current Data" or "History Data".

n **Current fuel consumption screen**

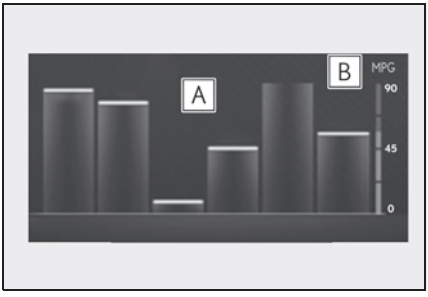


A Fuel consumption in the past 30 minutes

B Current fuel consumption

Use the displayed values as a reference only. The image is an example only, and may vary slightly from actual conditions.

n **History fuel consumption screen**



A Latest fuel consumption

B Previous fuel consumption record

Use the displayed values as a reference

only. The image is an example only, and may vary slightly from actual conditions.

n **Updating the history data**

1 Select ⚙ on the multi-information display.
2 Select "Meter Setting", "Meter Type" and then "Eco".
3 Select "Fuel Consumption" and then "Update History Data".

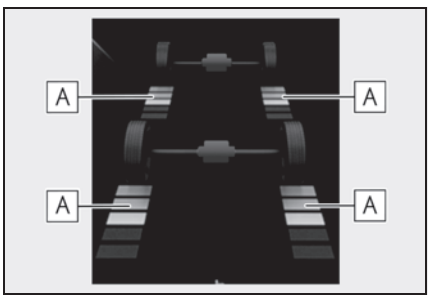
n **Resetting the data**

1 Select ⚙ on the multi-information display.
2 Select "Meter Setting", "Meter Type" and then "Eco".
3 Select "Fuel Consumption".
4 Select "Clear Current Data" or "Clear History Data", whichever you want to reset.

AWD operation status display (AWD models)

AWD operation status display can be displayed on the multi-information.

The illustration used is intended as an example, and may differ from the image that is actually displayed on the center display.



A Torque distribution display

Displays the drive status of each wheel in 6 steps from 0 to 5.

Tire pressure

The tire pressure detected by the tire pressure warning system can be displayed on the multi-information.

n **Tire inflation pressure**

→P.406

Audio system-linked display

The operating conditions of the audio system can be displayed on the multi-information display.

Map display

Displays the map data according to the navigation system.

Driving support system information display

The operating state of the following systems can be displayed on the multi-information display or head-up display (if equipped).

- Dynamic radar cruise control (→P.243)
- Cruise control (→P.255)
- LTA (Lane Tracing Assist) (→P.218)
- LDA (Lane Departure Alert) (→P.227)
- LCA (Lane Change Assist) (if equipped) (→P.223)
- RSA (Road Sign Assist) (→P.241)
- PDA (Proactive Driving Assist) (→P.235)

- SEA (Safe Exit Assist) (→P.269)
- BSM (Blind Spot Monitor) (→P.265)
- FCTA (Front Cross Traffic Alert) (if equipped) (→P.239)

Vehicles with a head-up display: Details of content displayed on the head-up display may differ from that displayed on the multi-information display. For details, refer to the explanation of each system.

n **Display position (vehicles with a head-up display)**

When the display mode of the head-up display is set to display the maximum, driving support system information will be displayed on the head-up display and not in the content display area of the multi-information display.

Suggestion function

Displays suggestions to the driver in the following situations. To select a response to a displayed suggestion, use the meter control switches.

n **Suggestion to turn off the headlights**

If the headlights are left on for a certain amount of time after the power switch has been turned off, a suggestion message will be displayed.
When the headlight switch is in the AUTO position:
The message asking if you wish toturn the headlights off is displayed.

To turn the headlights off, select "Yes".

If the vehicle speed exceeds a certain speed with a power window open, a suggestion message will be displayed asking if you wish to close the power windows.

Items displayed when the power switch is turned off

The following items will be displayed on the multi-information display when the power switch is turned off.

- Average fuel consumption since starting*
- Distance driven since starting*
- Driving time since starting*
- EV driving ratio since starting*

*: It is reset each time the hybrid system stops.

Settings display

Vehicle settings and the content displayed on the screen can be changed by using the meter control switches.

n **Settings that can be changed**

→P.511

n **Meter display settings**

- Language

Select to change the language displayed.

- Units

Select to change the units of measure displayed.

- Meter Type

Select to change the meter type.

- EV Driving Indicator Light

Select to enable/disable the EV Driving Indicator Light.

● Displayed information

The items to be displayed in the contents display area (left) can be set.

● Drive Info

Select to change displayed items on drive information display.

● TRIP A Items

Select to change displayed items on TRIP A display.

● TRIP B Items

Select to change displayed items on TRIP B display.

● Pop-Up Display

Select to enable/disable the popup displays, which may appear in some situations.

● Calendar

Select to set up the calendar. This can only be set if GPS calibration of clock is turned off in the multimedia system settings.

● Default Settings

Select to reset the meter display settings.

n **Vehicle Settings**

→P.510

n **Suspension of the settings display**

- Some settings cannot be changed while driving. When changing settings, park the vehicle in a safe place.
- If a warning message is displayed, operation of the settings display will be suspended.
- Setting items of functions not available on the vehicle are not displayed.
- When the function for which the setting is to be changed is disabled, the setting items cannot be selected.

WARNING

n **Cautions during setting up the display**

As the hybrid system needs to be operating during setting up the display, ensure that the vehicle is parked in a place with adequate ventilation. In a closed area such as a garage, exhaust gases including harmful carbon monoxide (CO) may collect and enter the vehicle. This may lead to death or a serious health hazard.

NOTICE

n **While setting up the display**

To prevent 12-volt battery discharge, ensure that the hybrid system is operating while setting up the display features.

Head-up display*

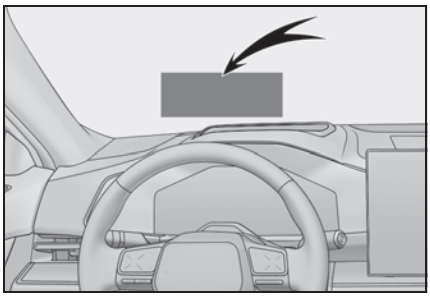
*: If equipped

The head-up display projects a variety of driving-related information and the operating state of the driving support systems on the windshield.

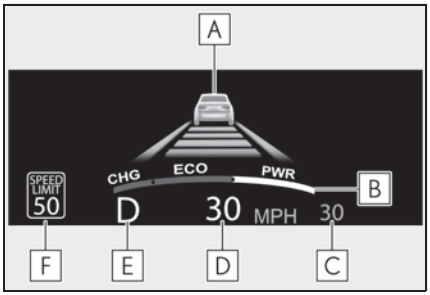
System components

Can be changed the head-up display type. (→P.97)

The content displayed will differ according to the driving conditions and display mode of the head-up display. Depending on the situation, pop-up displays will also be displayed.



▶ Full



These images are examples only, and may vary slightly from actual conditions.

A Driving support system display area (→P.98)/Navigation system-linked display area

B Tachometer/Hybrid System Indicator (→P.99)

C Driving support system information display (→P.98)

D Speedometer

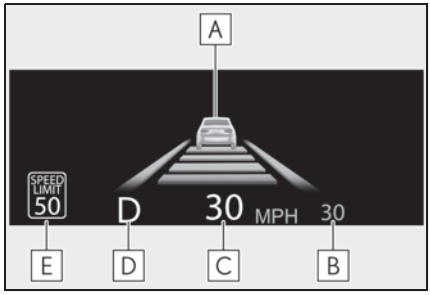
E Shift position/shift range/gear position (→P.169)

F Speed limit/RSA (Road Sign Assist) display area (→P.241)

Displays the following items:

- Speed limit of the current road (linked to the navigation system) (U.S.A. only)
- RSA (Road Sign Assist) display

▶ Standard



These images are examples only, and may vary slightly from actual conditions.

A Driving support system display area (→P.98)/Navigation system-linked display area

B Driving support system information display (→P.98)

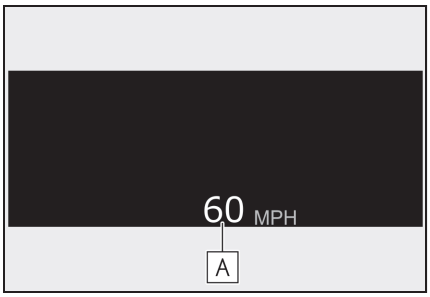
C Speedometer

D Shift position/shift range/gear position (→P.169)

E Speed limit/RSA (Road Sign Assist) display area (→P.241)

Displays the following items:
- Speed limit of the current road (linked to the navigation system) (U.S.A. only)
- RSA (Road Sign Assist) display

▶ Minimum



These images are examples only, and may vary slightly from actual conditions.

A Speedometer

n **Head-up display will operate when**

The power switch is in ON.

n **Head-up display**

The head-up display may seem dark or hard to see when viewed through sunglasses, especially polarized sunglasses. Adjust the brightness of the head-up display or remove your sunglasses.

n **Street name display**

Only street names which are included in the map data will be displayed.

WARNING

n **Before using the head-up display**

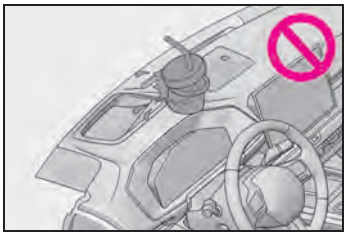
l Check that the position and brightness of the head-up display image does not interfere with safe driving. Incorrect adjustment of the image's position or brightness may obstruct the driver's view and lead to an accident, resulting in death or serious injury.

l Do not continuously look at the head-up display while driving as you may fail to see pedestrians, objects on the road, etc. ahead of the vehicle.

NOTICE

n **To prevent damage to components**

l Do not place any drinks near the head-up display projector. If the projector gets wet, electrical malfunctions may result.



l Do not place anything on or put stickers onto the head-up display projector. Doing so could interrupt head-up display indications.

l Do not touch the inside of the head-up display projector or thrust sharp edges or the like into the projector. Doing so could cause mechanical malfunctions.

Using the head-up display

The following settings can be changed on ⚙ of the multi-information display.(→P.515)

n **Enabling/disabling the head-up display**

Select to enabling/disabling of the head-up display.

n **Changing the head-up display settings**

● Brightness and vertical position of the head-up display

Select to adjust the brightness or vertical position of the head-up display.

● Head-up display type

Select to change head-up display type.(→P.96)

● Analog meter type

- The analog meter can be set as the tachometer or hybrid system indicator.
- Linked to drive mode:

Depending on the selected drive mode or certain settings, the display will change.(→P.329)

● Display angle

Select to adjust the angle of the head-up display.

n **Enabling/disabling of the head-up display**

If the head-up display is disabled, it will remain disabled when the power switch is turned off then back to ON.

n **Display brightness**

- In addition to the brightness setting, the brightness of the display will change automatically according to the ambient brightness.
- When the temperature around the head-up display is high, the display will gradually become dark to protect the head-up display. It will gradually return to normal when the temperature drops.

n **Head-up display automatic position adjustment**

If the display position is recorded into memory, the head-up display will be automatically adjusted to the desired position.

WARNING

n **Caution for changing settings of the head-up display**

As the hybrid system needs to be operating while changing the settings of the head-up display, ensure that the vehicle is parked in a place with adequate ventilation. In a closed area such as a garage, exhaust gases including harmful carbon monoxide (CO) may collect and enter the vehicle. This may lead to death or a serious health hazard.

NOTICE

n **When changing the settings of the head-up display**

To prevent 12-volt battery discharge, ensure that the hybrid system is operating while the changing the settings of the head-up display.

Driving support system information display

Displays the operational status of the following systems:

- Dynamic radar cruise control (→P.243)
- LTA (Lane Tracing Assist) (→P.218)
- LDA (Lane Departure Alert) (→P.227)
- LCA (Lane Change Assist) (if equipped) (→P.223)
- PDA (Proactive Driving Assist) (→P.235)
- Traffic Jam Assist (if equipped) (→P.260)

Details of content displayed on the head-up display may differ from that displayed on the multi-information display. For details, refer to the explanation of each system.

Map display

Displays the map data according to the navigation system.

Pop-up display

Pop-up displays for the following systems will be displayed when necessary:

n **Driving support systems**

Displays a warning/suggestion/advice message or the operating state of a relevant system.

Details of content displayed on the head-up display may differ from that displayed on the multi-information display. For details, refer to the explanation of each system.

n **Warning message**

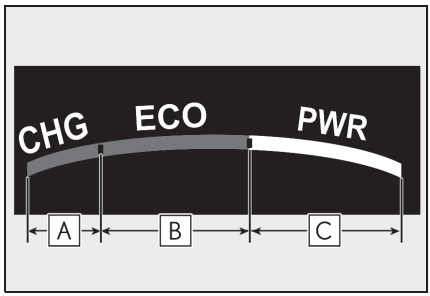
Some warning messages are displayed when necessary, according to certain conditions.

n **When a pop-up display is displayed**

When a pop-up display is displayed, a current display may no longer be displayed. In this case, the display will return after the pop-up display disappears.

Tachometer/Hybrid System Indicator area

n **Hybrid System Indicator**



This illustration is for explanation only and may differ depending on the specifications of the vehicle.

A Charge area

B Eco area

C Power area

For details, refer to (→P.85)

n **Tachometer**

Displays the engine speed in revolutions per minute.

3-1. Key information

Keys 102

Digital Key 106

3-2. Opening, closing and locking the doors and trunk

Doors 110

Trunk 115

Smart access system with push-button start 120

3-3. Adjusting the seats

Front seats 125

Head restraints 126

3-4. Adjusting the steering wheel and mirrors

Steering wheel 128

Inside rear view mirror 129

Digital Rear-view Mirror 130

Outside rear view mirrors 137

3-5. Opening, closing the windows and moon roof

Power windows 140

Panoramic moon roof 142

3-6. Favorite settings

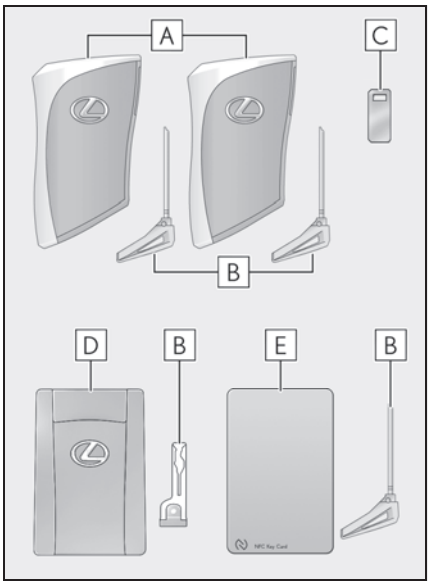
Driving position memory 146

My Settings 149

Keys

Key types

The following keys are provided with the vehicle.



A Electronic keys

- Operating the smart access system with push-button start (→P.120)
- Operating the wireless remote control function

B Mechanical keys

C Key number plate

D Card key (electronic key) (if equipped)

Operating the smart access system with push-button start (→P.120)

E NFC Key Card (if equipped)

Operating the NFC Key Card (→P.106)

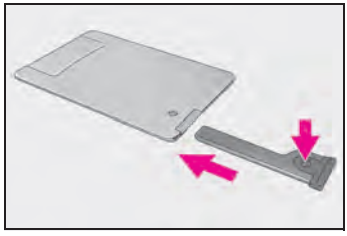
n Card key (if equipped)

l The card key is not waterproof.

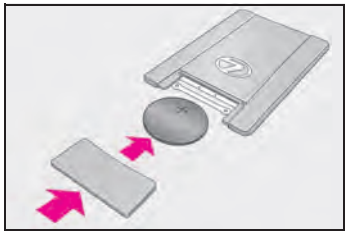
l The mechanical key that is stored inside the card key should be used only if a problem arises, such as when the card key does not operate properly.

l If it is difficult to take out the mechanical key, push down the lock release button using a pen tip etc. If it is still difficult to pull it out, use a coin etc.

l To store the mechanical key in the card key, insert it while pressing the lock release button.



l If the battery cover is not installed and the battery falls out or if the battery was removed because the key got wet, reinstall the battery with the positive terminal facing the Lexus emblem.



n When riding in an aircraft

When bringing an electronic key onto an aircraft, make sure you do not press any buttons on the electronic key while inside the aircraft cabin. If you are carrying an electronic key in your bag etc., ensure that the buttons are not likely to be pressed accidentally. Pressing a button may cause the electronic key to emit radio waves that could interfere with the operation of the aircraft.

n Electronic key battery depletion

l The standard battery life is 1 to 2 years. (The card key battery life is from one year to one year and a half.)

l If the battery becomes low, an alarm will

sound in the cabin when the hybrid system is stopped.

- Battery-saving mode can reduce the power consumption of electronic keys that are not used for long periods of time. (→P.121)
- As the electronic key always receives radio waves, the battery will become depleted even if the electronic key is not used. The following symptoms indicate that the electronic key battery may be depleted. Replace the battery when necessary. (→P.427)
  - The smart access system with push-button start or the wireless remote control does not operate.
  - The detection area becomes smaller.
  - The LED indicator on the key surface does not turn on.
- You can replace the battery by yourself (→P.427). However, as there is a danger that the electronic key may be damaged, it is recommended that replacement be carried out by your Lexus dealer.
- To avoid serious deterioration, do not leave the electronic key within 3 ft. (1 m) of the following electrical appliances that produce a magnetic field:
  - TVs
  - Personal computers
  - Cellular phones, cordless phones and battery chargers
  - Recharging cellular phones or cordless phones
  - Table lamps
  - Induction cookers

n Replacing the battery

→P.427

n Confirmation of the registered key number

The number of keys already registered to the vehicle can be confirmed. Ask your Lexus dealer for details.

n If "A new key has been registered If you do not recognize it, contact your dealer" is shown on the multi-information display

This message will be displayed each time the driver's door is opened when the doors are unlocked from the outside for approximately 10 days after a new key has been registered.

If this message is displayed but you have not had a new key registered, ask your Lexus dealer to check if an unknown key (other than those in your possession) has been registered.

NOTICE

n To prevent key damage

- Do not drop the keys, subject them to strong shocks or bend them.
- Do not expose the keys to high temperatures for long periods of time.
- Do not get the keys wet or wash them in an ultrasonic washer etc.
- Do not attach metallic or magnetic materials to the keys or place the keys close to such materials.
- Do not disassemble the keys.
- Do not attach a sticker or anything else to the surface of the electronic key.
- Do not place the keys near objects that produce magnetic fields, such as TVs, audio systems and induction cookers.
- Do not place the keys near medical electrical equipment such as low-frequency therapy equipment or microwave therapy equipment, and do not receive medical attention with the keys on your person.

n Carrying the electronic key on your person

Carry the electronic key 3.9 in. (10 cm) or more away from electric appliances that are turned on. Radio waves emitted from electric appliances within 3.9 in. (10 cm) of the electronic key may interfere with the key, causing the key to not function properly.

n In case of a smart access system with push-button start malfunction or other key-related problems

→P.476

NOTICE

n When an electronic key is lost

→P.476

n Handling the card key (if equipped)

- Do not apply excess force when inserting the mechanical key into the card key. Doing so may damage the card key.
- If the battery or card key terminals get wet, the battery may corrode and the card key may stop working.
  If the key is dropped into water, or if drinking water, etc. is spilled on the key, immediately remove the battery cover and wipe the battery and terminals. (To remove the battery cover, lightly grasp and pull it.) If the battery is corroded, have your Lexus dealer replace the battery.
- Do not crush the battery cover or use a screwdriver to remove the battery cover. Forcibly removing the battery cover may bend or damage the key.
- If the battery cover is frequently removed, the battery cover may become loose.
- When installing the battery, make sure to check the direction of the battery. Installing the battery in the wrong direction may cause the battery to deplete rapidly.
- The surface of the card key may be damaged, or its coating may peel off in the following situations:
  - The card key is carried together with hard objects, such as coins and keys.
  - The card key is scraped with a sharp object, such as the tip of a mechanical pencil.
  - The surface of the card key is wiped with thinner or benzene.

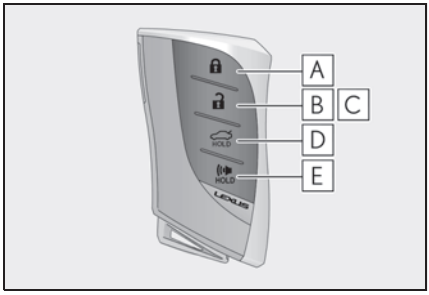
n To prevent damage to the NFC Key Card (if equipped)

Observe the following precautions.

- Avoid using the card in special environments (e.g., high radiation areas)
- Do not store the card with hard objects such as coins
- Do not expose the card to direct sunlight for extended periods of time
- Do not store the card in humid or dusty places
- Store the card out of children's reach
- Do not soak the card in chemicals

Wireless remote control

The electronic keys are equipped with the following wireless remote control:



A Locks the doors (→P.110)

B Unlocks the doors (→P.110)

C Opens the windows and panoramic moon roof* (→P.110)

D Opens the trunk (→P.117)

E Sounds the alarm

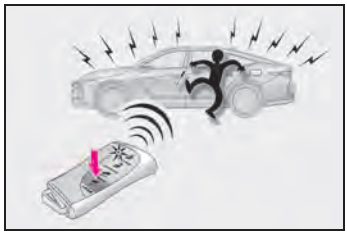
*: This setting must be customized at your Lexus dealer.

n Theft deterrent panic mode

When is pressed for longer than about one second, an alarm will sound intermittently and the vehicle lights will flash to deter any person from trying to break

into or damage your vehicle.

To stop the alarm, press any button on the electronic key.

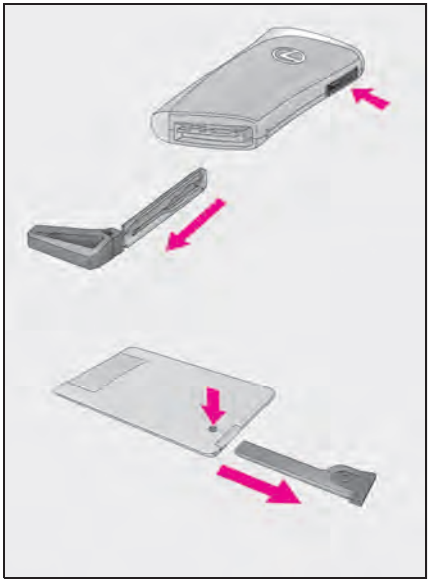


Using the mechanical key

To take out the mechanical key, push the release button and take the key out.

The mechanical key can only be inserted in one direction, as the key only has grooves on one side. If the key cannot be inserted in a lock cylinder, turn it over and re-attempt to insert it.

After using the mechanical key, store it in the electronic key. Carry the mechanical key together with the electronic key. If the electronic key battery is depleted or the entry function does not operate properly, you will need the mechanical key. (→P.476)



n **When required to leave the vehicle's key with a parking attendant**

Turn the trunk opener main switch off (→P.119) and lock the glove box (→P.358) and armrest door (→P.370) as circumstances demand.
Remove the mechanical key for your own use and provide the attendant with the electronic key only.

n **If you lose your mechanical keys**

→P.476

n **If a wrong key is used**

The key cylinder rotates freely, isolated from the internal mechanism.

Digital Key*

*: If equipped

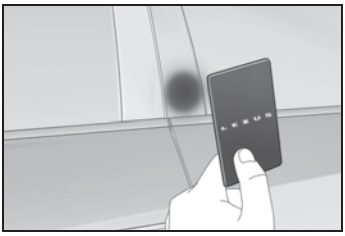
A smartphone (including smart watch) can be used instead of the electronic key of the vehicle. Also, Digital Key can be shared with your family or friends.

n NFC Key Cards

The supplied NFC Key Card can be used to unlock and lock the doors and start the hybrid system.
The NFC Key Card can be used even when the Digital Key cannot be used.

n Unlocking and locking the doors using the NFC Key Card

Hold the NFC Key Card over the position shown in the illustration on the outside of the driver seat. All the doors are unlocked. All the doors can be locked by holding the NFC Key Card in the same way when locking the doors.

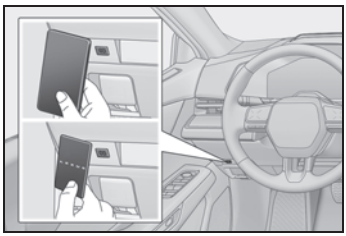


n Starting the hybrid system using the NFC Key Card

1 Depress the brake pedal with the shift position in P.

Keep depressing the brake pedal until step 3.

2 Hold the NFC Key Card over the position shown in the illustration.



When the NFC Key Card is recognized, a buzzer sounds and the power switch is automatically turned to ON. If the smart access system with push-button start setting is deactivated in the vehicle customization setting and ACC customization is in on, the power switch is turned to ACC.

3 Press the power switch shortly and firmly.

n Customization

If the Digital Key system has been deactivated in a customized setting, refer to P.515

Digital key usage conditions

In order to use the Digital Key, you need to*:

- Install the Lexus App
- Register the vehicle to the customer's Lexus App profile

*: Additional payment might be required to activate Digital Key services, please consult your local authorized Lexus App dealer or Lexus App website for more information.

Digital key precautions

- When using the Digital Key, observe the usage methods and precautions described in this manual.
  The Digital Key may be disabled in cases such as the following. There-

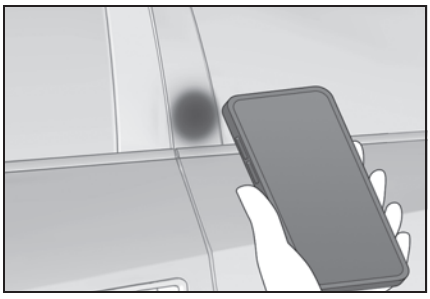
fore, please also carry the vehicle's electronic key as necessary.

- If your smartphone malfunctions
- When the service has stopped temporarily due to system maintenance or some other reason

- Registration and deletion of Digital Key can be performed when the smartphone and server can communicate.
- The Digital Key can be used for a certain period of time even when the smartphone battery needs to be recharged. If the Digital Key cannot be used, use a electronic key or NFC Key Card.
- When transferring vehicle ownership, make sure to delete the Digital Keys.

How to delete the Digital Keys, refer to the Lexus web site.

- If the vehicle is not operated for 14 days or more, the Digital Key will not connect automatically. In this case, hold the Digital Key to the position shown in the illustration below to unlock the door.



- A part of the services may be stopped due to server maintenance. However, registered Digital Keys can be used for certain period time due to during the maintenance.
- A smartphone which downloaded the Digital Key can be used to lock, unlock the doors, start the hybrid system, and perform any other operations as same as the electronic key of the vehicle. Be especially careful not to leave the smartphone unattended in the car, lose it, or allow it to be stolen.

If the smartphone is lost or stolen, contact your Lexus dealer immediately.

- When taking your vehicle to a Lexus dealer for an inspection or repairs, make sure to bring an electronic key and NFC Key Cards.
- The Digital Key system communicates with the smartphone, and if vehicle operation cannot be detected, it automatically changes to power saving mode. The following functions do not operate in power saving mode. In such cases, touch the driver door handle to unlock the door. The power saving mode can be canceled by turning the power switch to ON.

- Illuminated light

Situations where the function may not operate properly

The Digital Key system uses weak radio waves. In the following situations, the communication between the Digital Key and the vehicle may be affected, preventing the Digital Key system from operating properly.

- Under the following conditions when the vehicle is near locations where strong electrical waves and noise are generated.
  - Locations where electromagnetic noise is generated when a train passes by, such as under an elevated railway track or by the side of a railroad track.
  - Locations where electromagnetic noise is generated around high-voltage lines along roads and railroad tracks.
  - Locations where wireless communication devices such as smart home appliances are densely concentrated.
  - Around facilities, factories, or vehicles that have obtained a radio license.
- When the Digital Key is in contact with, or is covered by the following metallic objects.
  - Metal smartphone cases, wallets, or bags
  - IC cards or cards with aluminum foil
  - Cigarette packs containing aluminum foil inside
  - Coins
  - Hand warmers
  - Media such as CDs or DVDs
- When carrying the Digital Key together with the following devices that emit radio waves.
  - Other wireless communication devices such as cellular phones, wireless devices, cordless phones, etc.
  - Wireless communication devices such as smart home appliances, microwave ovens, drones, amateur radio stations, etc.
  - Personal computers, portable information terminals (tablets, etc.), digital audio players, and portable game devices
  - Induction rice cookers, induction pots, machine tools, vacuum cleaners, washing machines, dryers, plasma TVs, etc.
- If window tint with a metallic content or metallic objects are attached to the rear window.
- The digital key may not operate properly in the following cases.
  - When locking or unlocking the door, the smartphone is too close to the door glass, or is positioned near the ground or in a high location.
  - When opening the back door, the smartphone is near the ground or in a high place.
  - If the smartphone is away from the vicinity of the center console when the hybrid system is started.
  - The smartphone is placed in the clothing pocket or otherwise hidden and closely adhered to the body.
- The frequency used for communication between the smart phone (Digital Key) or NFC Key Card and the NFC antenna is 13.56 MHz. This frequency band is also assigned as the ISM band and is used for high frequency power sources, high frequency dryers, and high frequency plasma generators. If the product is used in an environment where these or similar devices are used, it may cause damage to the communication function.
  In addition, note that the contactless communication function may be affected by static electricity, electromagnetic noise, or surrounding metal environments. Communica-

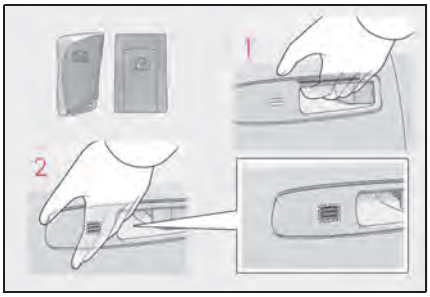
tions may not function properly, especially if the product is surrounded by or in contact with metal objects.

Doors

Unlocking and locking the doors from the outside

n Smart access system with push-button start

Carry the electronic key to enable this function.



1 Grip the driver's door handle to unlock the door. Grip any passenger door handle to unlock all the doors.*

Make sure to touch the sensor on the inner upper surface of the handle opening.

The doors cannot be unlocked for approximately 3 seconds after the doors are locked.

*: The door unlock settings can be changed.

2 Touch the lock sensor (indentation on the surface of the door handle) to lock all the doors.

Check that the door is securely locked.

n Wireless remote control



1 Locks all the doors

Check that the door is securely locked.

2 Unlocks all the doors

Pressing the button unlocks the driver's door. Pressing the button again within 5 seconds unlocks the other doors.

Press and hold to open the windows and panoramic moon roof.*

*: This setting must be customized at your Lexus dealer.

n Switching the door unlock function

It is possible to set which doors the entry function unlocks using the wireless remote control.

1 Turn the power switch off.

2 When the indicator light on the key surface is not on, press and hold , or for approximately 5 seconds while pressing and holding .

The setting changes each time an operation is performed, as shown below. (When changing the setting continuously, release the buttons, wait for at least 5 seconds, and repeat step **2**.)

Multi-information display/Beep	Unlocking function
 Exterior: Beeps 3 times Interior: Pings once	Holding the driver's door handle unlocks only the driver's door.
	Holding any of the passenger's door handle unlocks all the doors.
 Exterior: Beeps twice Interior: Pings once	Holding a door handle unlocks all the doors.

To prevent unintended triggering of the alarm, unlock the doors using the wireless remote control and open and close a door once after the settings have been changed. (If a door is not opened within 60 seconds after is pressed, the doors will be locked again and the alarm will automatically be set.)

In a case that the alarm is triggered, immediately stop the alarm. (→P.74)

n Impact detection door lock release system

In the event that the vehicle is subject to a strong impact, all the doors are unlocked. Depending on the force of the impact or the type of accident, however, the system may not operate.

n Operation signals

A buzzer sounds and the emergency flashers flash to indicate that the doors have been locked/unlocked. (Locked: once; Unlocked: twice)

A buzzer sounds to indicate that the windows and panoramic moon roof are operating.

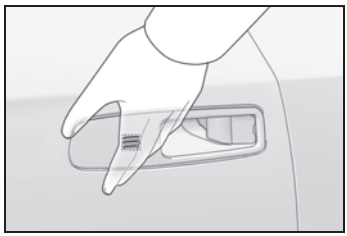
n Security feature

If a door is not opened within approximately 60 seconds after the vehicle is unlocked, the security feature automatically locks the vehicle again. (However, depending on the location of the electronic key, the key may be detected as being in the vehicle. In this case, vehicle may be unlocked.)

n When the door cannot be locked by the lock sensor on the surface of the door handle

When the door cannot be locked even if the lock sensor on the surface of the door handle is touched by a finger, touch the lock sensor with the palm.

When gloves are being worn, remove the gloves.



n Door lock buzzer

A buzzer sounds continuously for 5 seconds in the following situations. Fully close all the doors and lock the vehicle once more.

- If an attempt to lock the doors using the smart access system with push-button start is made when a door other than the door you are locking is open.
- If an attempt to lock the doors using the wireless remote control is made when a door is open.

n Setting the alarm

Locking the doors will set the alarm system. (→P.74)

n Conditions affecting the operation of the smart access system with push-button start or wireless remote control

→P.122

n If the smart access system with push-button start or the wireless remote control does not operate properly

Use the mechanical key to lock and unlock the doors. (→P.476)

Replace the key battery with a new one if it is depleted. (→P.427)

n If the 12-volt battery is discharged

The doors cannot be locked and unlocked using the smart access system with push-button start or wireless remote control. Lock or unlock the doors using the mechanical key. (→P.476)

n Rear seat reminder function

As the first reminder so as not to forget luggage, etc. in the rear seat, when the power switch is turned off after any of the following conditions are met, a buzzer will sound and a message will be displayed on the multi-information display for approximately 6 seconds.

Also, as the second reminder, when the doors are locked, a buzzer will sound and the emergency flashers will flash for a few seconds, and a message will be displayed on the multi-information display

- The hybrid system is started within 15 minutes after opening and closing a rear door.
- A rear door has been opened and closed after the hybrid system was started.

However, if a rear door is opened and then closed within approximately 2 seconds, the rear seat reminder function may not operate.

The rear seat reminder function determines that luggage, etc. has been placed in a rear seat based on opening and closing of a rear door. Therefore, depending on the situation, the rear seat reminder function may not operate and you may still forget luggage, etc. in the rear seat, or it may operate unnecessarily.

n Customization

Some functions can be customized. (→P.516)

WARNING

n To prevent an accident

Observe the following precautions while driving the vehicle.

Failure to do so may result in a door opening and an occupant being thrown out of the vehicle, resulting in death or serious injury.

- Ensure that all doors are properly closed and locked.
- Do not pull the inside handle of the doors while driving.

Be especially careful for the front doors, as the doors may be opened even if the inside lock buttons are in locked position.

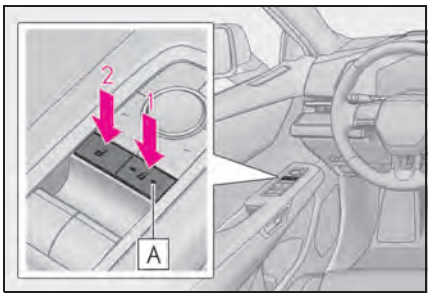
- Set the rear door child-protector locks when children are seated in the rear seats.

n When opening or closing a door

Check the surroundings of the vehicle such as whether the vehicle is on an incline, whether there is enough space for a door to open and whether a strong wind is blowing. When opening or closing the door, hold the door handle tightly to prepare for any unpredictable movement.

Unlocking and locking the doors from the inside

n Door lock switches (to lock/unlock)



1 Driver's door: Locks all the doors
Doors other than the driver's door: Locks the doors

The indicator A comes on.

2 Driver's door: Unlocks all the doors
Doors other than the driver's door: Unlocks the doors

The indicator A turns off.

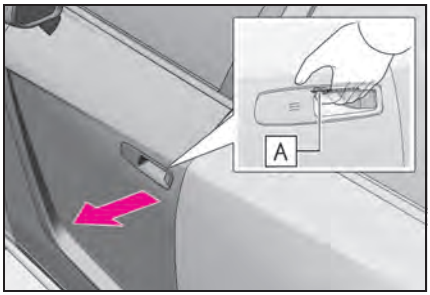
n **Open door warning buzzer**

If the vehicle speed reaches 3 mph (5 km/h), a buzzer sounds to indicate that the door(s), the hood or the trunk is not fully closed. The open door(s), the hood or the trunk is displayed on the multi-information display.

n **Customization**

Some functions can be customized. (→P.516)

Opening the doors from outside the vehicle



Press the door opener switch A of the door handle to open the door.

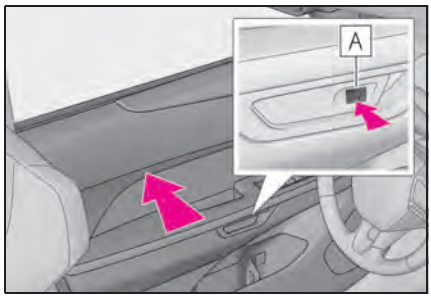
Make sure to securely press the door opener switch A on the inner side of the door handle

n **If the 12-volt vehicle battery is discharged**

The doors cannot be locked or unlocked using the smart access system with push-button start or wireless remote control, and the door opener switches will not operate.

Use the mechanical key to enable/disable manual release handle operation. By enabling manual release handle operation, the door can be opened. (→P.478)

Opening the doors from inside the vehicle



Press the front side of the door opener switch A to open the door.

Driver's door: The door will open even if it is locked.

When the door is unlocked, the door lock indicator will turn off.

n **Inside door opener switch operating conditions**

When any of the following conditions are met:

- The vehicle speed is less than 2.5 mph (4 km/h) and the parking brake is engaged
- The vehicle speed is less than 2.5 mph (4 km/h) and the brake pedal is depressed
- The shift position is in P

n **When opening a door from inside the vehicle**

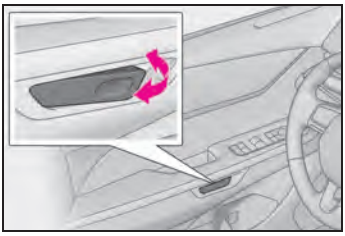
If the door is not fully unlatched, press the door opener switch twice to open the door.

n **Manual release handles inside the vehicle**

The door opener switches inside the vehicle

can also be used to manually open the doors.

A door can be opened through electronic operation by pressing the door opener switch, or it can be opened using the door opener switch as a manual release handle and pulling it twice.



Rear door child-protector lock

The door cannot be opened from inside the vehicle when the lock is set.



1 Unlock

2 Lock

These locks can be set to prevent children from opening the rear doors. Push down on each rear door switch to lock both rear doors.

Automatic door locking and unlocking systems

The following functions can be set or canceled:

For instructions on customizing, refer to P.510.

Function	Operation
Speed linked door locking function	All doors are automatically locked when vehicle speed is approximately 2.5 mph (4 km/h) or higher.
Shift position linked door locking function	All doors are automatically locked when shifting the shift position out of P.
Shift position linked door unlocking function	All doors are automatically unlocked when shifting the shift position to P.
Driver's door linked door unlocking function	All doors are automatically unlocked when driver's door is opened within approximately 45 seconds after turning the power switch off.

Trunk

The trunk can be opened using the trunk opener switch, entry function or wireless remote control.

The trunk can be closed using the trunk closer.

WARNING

Observe the following precautions.

Failure to do so may result in death or serious injury.

n Before driving

- Make sure that the trunk lid is fully closed. If the trunk lid is not fully closed, it may open unexpectedly while driving and hit near-by objects or luggage in the trunk may be thrown out, causing an accident.
- Do not allow children to play in the trunk.
  If a child is accidentally locked in the trunk, they could suffer from heat exhaustion, suffocation or other injuries.
- Do not allow a child to open or close the trunk lid.
  Doing so may cause the trunk lid to open unexpectedly, or cause the child's hands, head, or neck to be caught by the closing trunk lid.

n Important points while driving

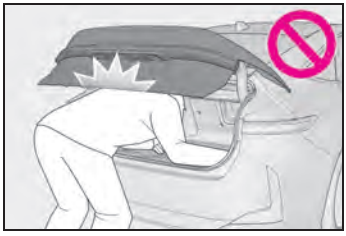
Never let anyone sit in the trunk. In the event of sudden braking or a collision, they are susceptible to death or serious injury.

n Using the trunk

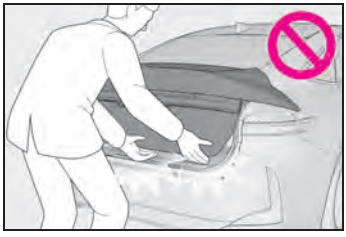
Observe the following precautions.

Failure to do so may cause parts of the body to be caught, resulting in serious injury.

- Remove any heavy loads, such as snow and ice, from the trunk lid before opening it. Failure to do so may cause the trunk lid to suddenly shut again after it is opened.
- When opening or closing the trunk lid, thoroughly check to make sure the surrounding area is safe.
- If anyone is in the vicinity, make sure they are safe and let them know that the trunk is about to open or close.
- Use caution when opening or closing the trunk lid in windy weather as it may move abruptly in strong wind.
- The trunk lid may suddenly shut if it is not opened fully. It is more difficult to open or close the trunk lid on an incline than on a level surface, so beware of the trunk lid unexpectedly opening or closing by itself. Make sure that the trunk lid is fully open and secure before using the trunk.



- When closing the trunk lid, take extra care to prevent your fingers etc. from being caught.



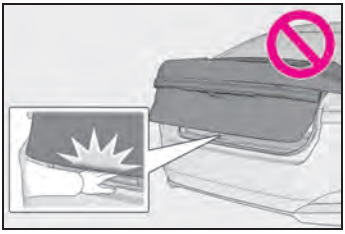
- When closing the trunk lid, make sure to press it lightly on its outer surface. If the trunk grip is used to fully close the trunk lid, it may result in hands or arms being caught.

WARNING

- Do not attach any accessories other than genuine Lexus parts to the trunk lid. Such additional weight on the trunk lid may cause the lid to suddenly shut again after it is opened.

Trunk easy closer

In the event that the trunk lid is left slightly open, the trunk easy closer will automatically close it to the fully closed position. It takes several seconds before the trunk easy closer begins to operate. Be careful not to catch fingers or anything else in the trunk lid, as this may cause bone fractures or other serious injuries.



Power trunk opener and closer

Observe the following precautions when operating the power trunk opener and closer.
Failure to do so may cause serious injury.

- Check the safety of the surrounding area to make sure there are no obstacles or anything that could cause any of your belongings to get caught.
- If anyone is in the vicinity, make sure they are safe and let them know that the trunk is about to open or close.
- If the trunk closer switch is pressed while the trunk lid is opening during automatic operation, the trunk lid stops opening. Take extra care when on an incline, as the trunk lid may open or close suddenly.
- On an incline, the trunk lid may suddenly shut after it opens automatically. Make sure the trunk lid is fully open and secure before using the trunk.
- In the following situations, the power trunk opener and closer may detect an abnormality and automatic operation may be stopped. In this case, the trunk lid has to be operated manually. Take extra care in this situation, as the stopped trunk lid may suddenly shut, causing an accident.
  - When the trunk lid contacts an obstacle
  - When the 12-volt battery voltage suddenly drops, such as when the power switch is turned to ON or the hybrid system is started during automatic operation
- Do not attach any accessories other than genuine Lexus parts to the trunk lid. The power trunk opener and closer may not operate, causing itself to malfunction, or the trunk lid may suddenly shut again after it is opened.

Jam protection function

Observe the following precautions.
Failure to do so may cause serious injury.

- Never use any part of your body to intentionally activate the jam protection function.
- The jam protection function may not work if something gets caught just before the trunk lid fully closes. Be careful not to catch fingers or anything else in the trunk lid.
- The jam protection function may not work depending on the shape of the object that is caught. Be careful not to catch fingers or anything else.

NOTICE

To prevent trunk easy closer malfunctions

Do not apply force to the trunk lid while the trunk easy closer is operating.

NOTICE

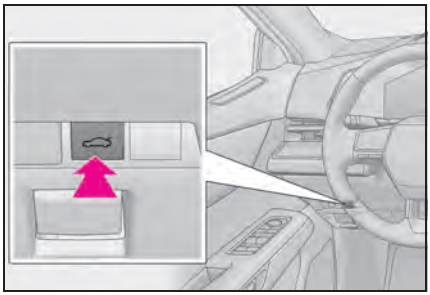
To prevent damage to the power trunk opener and closer

- Make sure that there is no luggage or snow on the trunk lid before operating the power trunk opener and closer. In addition, make sure that there is no ice between the trunk lid and frame that prevents movement of the trunk lid. Operating the power trunk opener and closer when excessive load is present on the trunk lid may cause a malfunction.
- Do not apply excessive force to the trunk lid while the power trunk opener and closer is operating.

Opening/closing the trunk

Trunk opener switch

Press the trunk opener switch.

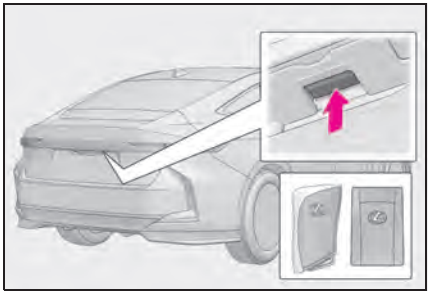


Smart access system with push-button start

While carrying the electronic key, press the button.

When all the doors are unlocked using one of the following methods, the trunk can be opened without the electronic key:

- Entry function
- Wireless remote control
- Door lock switches
- Automatic door unlocking system
- Mechanical key



Wireless remote control

Press and hold the switch.

A buzzer sounds.

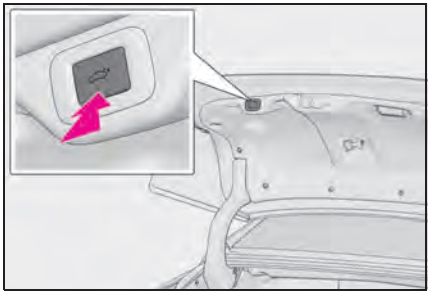


Trunk closer switch

Press the trunk closer switch.

A buzzer will sound and the trunk lid will fully close.

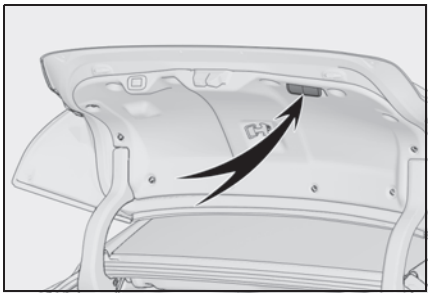
Pressing the switch while the trunk lid is closing stops the trunk lid operation.



n Trunk grip

Lower the trunk lid using the trunk grip.

A buzzer will sound and the trunk lid will fully close.



n Trunk light

The trunk light turns on when the trunk is opened.

- The trunk light turns on when the trunk is opened.
- If the trunk light is left on when the power switch is turned off, the light will go off automatically after 10 minutes.

n Trunk easy closer

In the event that the trunk lid is left slightly open, the trunk easy closer will automatically close it to the fully closed position.

- The trunk easy closer will operate regardless of the power switch mode.
- If the trunk easy closer does not operate, open the trunk to the half open position or more and then close it.

n Function to prevent the trunk being locked with the electronic key inside

- When all doors are locked, closing the trunk lid with the electronic key left inside the trunk will sound an alarm.
  In this case, the trunk lid can be opened by pressing the trunk release button on the trunk lid.
- If the spare electronic key is put in the trunk with all the doors locked, the key confinement prevention function is activated so the trunk can be opened. In order to prevent theft, take all electronic keys with you when leaving the vehicle.
- If the electronic key is put in the trunk with all the doors locked, the key may not be detected depending on the location of the key and the surrounding radio wave conditions. In this case, the key confinement prevention function cannot be activated, causing the doors to lock when the trunk is closed. Make sure to check where the key is before closing the trunk.
- The key confinement prevention function cannot be activated if any one of the doors is unlocked. In this case, open the trunk using the trunk opener.

n Overload protection function

The trunk lid will not operate when excessive load is present on the top of the trunk lid.

n Fall-down protection function

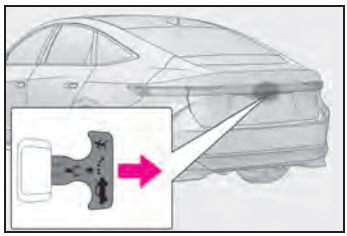
While the trunk lid is opening automatically, applying excessive force to it will stop the opening operation to prevent the trunk lid from rapidly falling down.

n Jam protection function

While the trunk lid is closing automatically, the trunk lid will stop closing and open if something gets caught.

n Internal trunk release lever

The trunk lid can be opened by pulling the glow-in-the-dark lever located on the inside of the trunk lid to the side. The lever will continue to glow for some time after the trunk lid is closed.



n Using the mechanical key

The trunk can be also opened using the mechanical key. (→P.477)

If the trunk is unlocked using the mechanical key, the power trunk opener and closer and trunk easy closer will not be operational. To return them to an operational state, fully close the trunk lid by hand.

n **If the smart access system with push-button start or the wireless remote control does not operate properly**

Use the mechanical key to unlock the trunk. (→P.477)

Replace the key battery with a new one if it is depleted. (→P.427)

n **Open door warning buzzer**

→P.113

n **Customization**

Some functions can be customized. (→P.525)

Adjusting the open position of the trunk lid

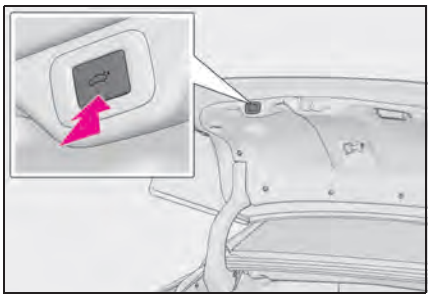
The open position of the trunk lid can be adjusted.

1 Stop the trunk lid in the desirable position. (→P.117)

2 Press and hold the trunk closer switch on the lower part of the trunk lid for approximately 2 seconds, and then release it.

When the settings are completed, the buzzer sounds 4 times.

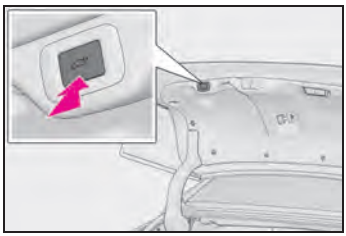
When opening the trunk lid the next time, the trunk lid will stop at that position.



n **Canceling the adjusted open position of the trunk lid**

Press and hold the trunk closer switch on the lower part of the trunk lid for approximately 6 seconds.

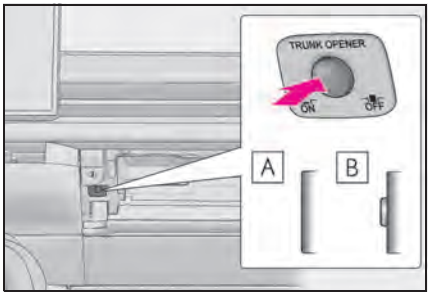
A buzzer sounds twice. When the trunk lid does the opening operation the next time, the trunk lid will open to the initial settings position.



Luggage security system

The trunk opener switch can be temporarily disabled to protect luggage stored in the trunk against theft.

Turn the main switch in the glove box off to disable the trunk opener.



A On

B Off

The trunk lid cannot be opened even with the wireless remote control, entry function.

n **When leaving a key to the vehicle with a parking attendant**

→P.105

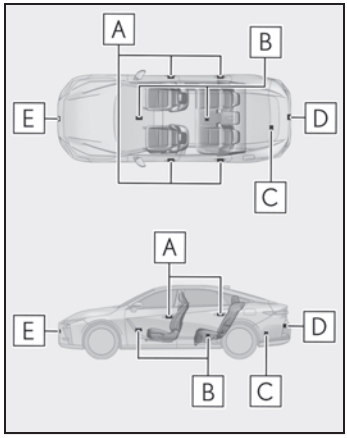
3 Before driving

Smart access system with push-button start

The following operations can be performed simply by carrying the electronic key on your person, for example in your pocket. The driver should always carry the electronic key.

- Locks and unlocks the doors (→P.110)
- Opens the trunk (→P.117)
- Starts the hybrid system (→P.163)

n Antenna location



A Antennas outside the cabin

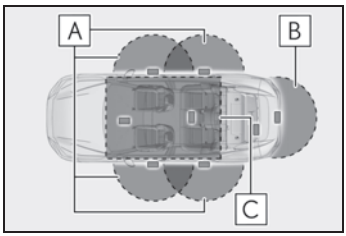
B Antennas inside the cabin

C Antenna inside the trunk

D Antenna outside the trunk

E Antennas outside the cabin (for Advanced Park remote control function)

n Effective range (areas within which the electronic key is detected)



A When locking or unlocking the doors

The system can be operated when the electronic key is within about 2.3 ft. (0.7 m) of an outside door handle. (Only the doors detecting the key can be operated.)

B When opening the trunk

The system can be operated when the electronic key is within about 2.3 ft. (0.7 m) of the trunk release button.

C When starting the hybrid system or changing power switch modes

The system can be operated when the electronic key is inside the vehicle.

n Alarms and warning messages

An alarm sounds and warning messages are displayed on the multi-information display to protect against unexpected accidents or theft of the vehicle resulting from erroneous operation. When a warning message is displayed, take appropriate measures based on the displayed message. (→P.452)

When only an alarm sounds, circumstances and correction procedures are as follows.

- When an exterior alarm sounds once for 5 seconds

Situation	Correction procedure
The trunk was closed while the electronic key was still inside the trunk and all the doors were locked.	Retrieve the electronic key from the trunk and close the trunk lid.
An attempt was made to lock the vehicle while a door was open.	Close all of the doors and lock the doors again.

- When an interior alarm sounds continuously

Situation	Correction procedure
The power switch was turned to ACC while the driver's door was open (or the driver's door was opened while the power switch was in ACC).	Turn the power switch off and close the driver's door.
The power switch was turned off while the driver's door was open.	Close the driver's door.

If "Key Detected in Vehicle" is shown on the multi-information display

An attempt was made to lock the doors using the smart access system with push-button start while the electronic key was still inside the vehicle. Retrieve the electronic key from the vehicle and lock the doors again.

Battery-saving function

The battery-saving function will be activated in order to prevent the electronic key battery and the 12-volt battery from being discharged while the vehicle is not in operation for a long time.

- In the following situations, the smart access system with push-button start may take some time to unlock the doors. Also the illuminated entry system may not operate properly.
  - The electronic key has been left near the vehicle for a certain amount of time.
  - The smart access system with push-button start has not been used for several days.
- If the smart access system with push-button start has not been used for 14 days or longer, the doors cannot be unlocked at any doors except the driver's door. In this case, take hold of the driver's door handle, or use the wireless remote control or mechanical key, to unlock the doors.

Turning an electronic key to battery-saving mode

- When battery-saving mode is set, battery depletion is minimized by stopping the electronic key from receiving radio waves.

Press twice while pressing and holding . Confirm that the electronic key indicator flashes 4 times.

While the battery-saving mode is set, the smart access system with push-button start cannot be used. To cancel the function, press any of the electronic key buttons.



- Electronic keys that will not be used for long periods of time can be set to the battery-saving mode in advance.

When electronic key function stops

If the position of the electronic key has not changed for a certain amount of time such as when the electronic key is left somewhere, the function of the electronic key stops to reduce depletion of the battery.

In this case, function can automatically be restored by moving the position of the key such as by lifting it up.

n Conditions affecting operation

The smart access system with push-button start uses weak radio waves. In the following situations, the communication between the electronic key and the vehicle may be affected, preventing the smart access system with push-button start, wireless remote control and immobilizer system from operating properly. (Ways of coping: →P.476)

- When the electronic key battery is depleted
- Near a TV tower, electric power plant, gas station, radio station, large display, airport or other facility that generates strong radio waves or electrical noise
- When the electronic key is in contact with, or is covered by the following metallic objects
  - Cards to which aluminum foil is attached
  - Cigarette boxes that have aluminum foil inside
  - Metallic wallets or bags
  - Coins
  - Hand warmers made of metal
  - Media such as CDs and DVDs
- When other wireless keys (that emit radio waves) are being used nearby
- When carrying the electronic key together with the following devices that emit radio waves
  - Portable radio, cellular phone, cordless phone or other wireless communication devices
  - Another electronic key or a wireless key that emits radio waves
  - Personal computers or personal digital assistants (PDAs)
  - Digital audio players
  - Portable game systems
- If window tint with a metallic content or metallic objects are attached to the rear window
- When the electronic key is placed near a battery charger or electronic devices
- When the vehicle is parked in a pay parking spot where radio waves are emitted.

If the doors cannot be locked/unlocked using the smart access system with push-button start, lock/unlock the doors by performing any of the following:

- Bring the electronic key close to either front door handle and operate the entry function.
- Operate the wireless remote control.

If the doors cannot be locked/unlocked using the above methods, use the mechanical key. (→P.476)

If the hybrid system cannot be started using the smart access system with push-button start, refer to →P.477

n Notes for the entry function

- Even when the electronic key is within the effective range (detection areas), the system may not operate properly in the following cases:
  - The electronic key is too close to the window or outside door handle, near the ground, or in a high place when the doors are locked or unlocked.
  - The electronic key is near the ground or in a high place, or too close to the center of the rear bumper when the trunk is opened.
  - The electronic key is on the instrument panel, rear package tray or floor, or in the door pockets or glove box when the hybrid system is started or power switch modes are changed.
  - The electronic key is obstructed by a person's body between it and the vehicle when the doors are unlocked.
- Do not leave the electronic key on top of the instrument panel or near the door pockets when exiting the vehicle. Depending on the radio wave reception conditions, it may be detected by the antenna outside the cabin and the doors will become lockable from the outside, possibly trapping the electronic key inside the vehicle.
- As long as the electronic key is within the effective range, the doors may be locked or unlocked by anyone. However, only the doors detecting the electronic key can be used to unlock the vehicle.
- Even if the electronic key is not inside the vehicle, it may be possible to start the hybrid system if the electronic key is near the window.
- The doors may unlock or lock if a large

amount of water splashes on the door handle, such as in the rain or in a car wash, when the electronic key is within the effective range. (The doors will automatically be locked after approximately 60 seconds if the doors are not opened and closed.)

- If the wireless remote control is used to lock the doors when the electronic key is near the vehicle, there is a possibility that the door may not be unlocked by the entry function. (Use the wireless remote control to unlock the doors.)
- Touching the door lock sensor while wearing gloves may delay or prevent lock operation. Remove the gloves and touch the lock sensor again.
- When the lock operation is performed using the lock sensor, recognition signals will be shown up to two consecutive times. After this, no recognition signals will be given.
- If the door handle becomes wet while the electronic key is within the effective range, the door may lock and unlock repeatedly. In this case, follow the following correction procedures to wash the vehicle:
  - Place the electronic key in a location 6 ft. (2 m) or more away from the vehicle. (Take care to ensure that the key is not stolen.)
  - Set the electronic key to battery-saving mode to disable the smart access system with push-button start. (→P.121)
- If the electronic key is inside the vehicle and a door handle becomes wet during a car wash, a message may be shown on the multi-information display and a buzzer will sound outside the vehicle. To turn off the alarm, lock all the doors.
- The lock sensor may not work properly if it comes into contact with ice, snow, mud, etc. Clean the lock sensor and attempt to operate it again.
- A sudden approach to the effective range or door handle may prevent the doors from being unlocked. In this case, return the door handle to the original position and check that the doors unlock before pulling the door handle again.
- If there is another electronic key in the detection area, it may take slightly longer to unlock the doors after the door handle is gripped.

n When the vehicle is not driven for extended periods

- To prevent theft of the vehicle, do not leave the electronic key within 6 ft. (2 m) of the vehicle.
- The smart access system with push-button start can be deactivated in advance.
- Battery-saving mode can reduce the power consumption of electronic keys. (→P.121)

n To operate the system properly

- Make sure to carry the electronic key when operating the system. Do not get the electronic key too close to the vehicle when operating the system from the outside of the vehicle.
  Depending on the position and holding condition of the electronic key, the key may not be detected correctly and the system may not operate properly. (The alarm may go off accidentally, or the door lock prevention function may not operate.)
- Do not leave the electronic key inside the trunk.
  The key confinement prevention function may not operate, depending on the location of the key (close to a spare tire, the inside edge of the trunk), conditions (inside a metal bag, close to metallic objects) and the radio waves in the surrounding area. (→P.118)

n If the smart access system with push-button start does not operate properly

- If the doors cannot be locked or unlocked and the trunk cannot be opened, perform the following.
  - Bring the electronic key close to the door handle and perform a lock or unlock operation.
  - Bring the electronic key close to the button on the trunk (→P.117) and press the button.
  - Use the wireless remote control.

If the doors cannot be locked or unlocked

by perform the above, use the mechanical key. (→P.476)

However, if the mechanical key is used while the alarm system is set, the warning will sound. (→P.74)

- If the hybrid system cannot be started, refer to P.477

n Customization

Some functions can be customized. (→P.516)

n If the smart access system with push-button start has been deactivated in a customized setting

- Locking and unlocking the doors and opening the trunk: Use the wireless remote control or mechanical key. (→P.110, 117, 476)
- Starting the hybrid system and changing power switch modes: P.477
- Stopping the hybrid system: P.164

⚠ WARNING

n Caution regarding interference with electronic devices

- People with implantable cardiac pacemakers, cardiac resynchronization therapy-pacemakers or implantable cardioverter defibrillators should keep away from the smart access system with push-button start antennas. (→P.120)
  The radio waves may affect the operation of such devices. If necessary, the entry function can be disabled. Ask your Lexus dealer for details, such as the frequency of radio waves and timing of the emitted radio waves. Then, consult your doctor to see if you should disable the entry function.
- Users of any electrical medical device other than implantable cardiac pacemakers, cardiac resynchronization therapy-pacemakers or implantable cardioverter defibrillators should consult the manufacturer of the device for information about its operation under the influence of radio waves.
  Radio waves could have unexpected effects on the operation of such medical devices.

Ask your Lexus dealer for details on disabling the entry function.

Front seats

The seats can be adjusted (longitudinally, vertically, etc.). Adjust the seat to ensure the correct driving posture.

WARNING

n When adjusting the seat position

- Take care when adjusting the seat position to ensure that other passengers are not injured by the moving seat.
- Do not put your hands under the seat or near the moving parts to avoid injury.
  Fingers or hands may become jammed in the seat mechanism.
- Make sure to leave enough space around the feet so they do not get stuck.

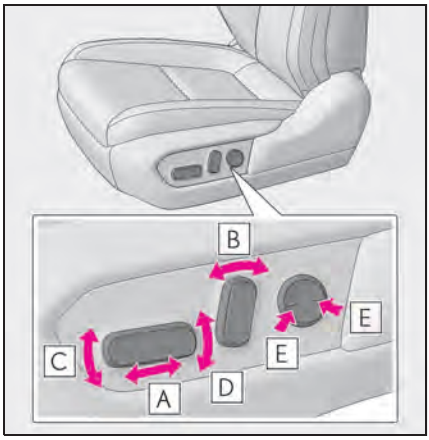
n Seat adjustment

To reduce the risk of sliding under the lap belt during a collision, do not recline the seat more than necessary.

If the seat is too reclined, the lap belt may slide past the hips and apply restraint forces directly to the abdomen, or your neck may contact the shoulder belt, increasing the risk of death or serious injury in the event of an accident.

Adjustments should not be made while driving as the seat may unexpectedly move and cause the driver to lose control of the vehicle.

Adjustment procedure



- **A** Seat position adjustment
- **B** Seatback angle adjustment
- **C** Seat cushion (front) angle adjustment
- **D** Vertical height adjustment
- **E** Lumbar support firmness adjustment

n When adjusting the seat

- Make sure that no surrounding passengers or objects are in contact with the seat.
- Take care when adjusting the seat so that the head restraint does not touch the ceiling or sun visor.

n Power easy access system

The driver's seat and steering wheel move in accordance with power switch mode and the driver's seat belt condition. (→P.146)

Head restraints

Head restraints are provided for all seats.

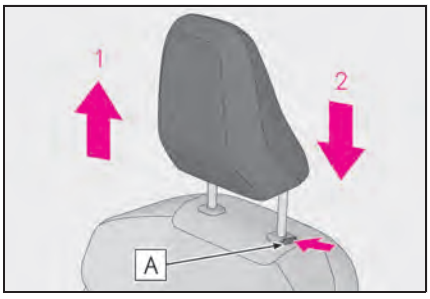
WARNING

n Head restraint precautions

Observe the following precautions regarding the head restraints. Failure to do so may result in death or serious injury.

- Use the head restraints designed for each respective seat.
- Adjust the head restraints to the correct position at all times.
- After adjusting the head restraints, push down on them and make sure they are locked in position.
- Do not drive with the head restraints removed.

Vertical adjustment



1 Up

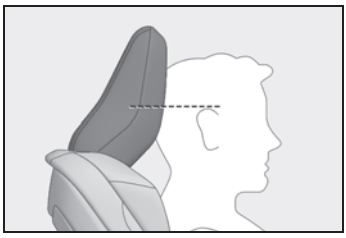
Pull the head restraints up.

2 Down

Push the head restraint down while pressing the lock release button A.

n Adjusting the height of the head restraints (front seats)

Make sure that the head restraints are adjusted so that the center of the head restraint is closest to the top of your ears.



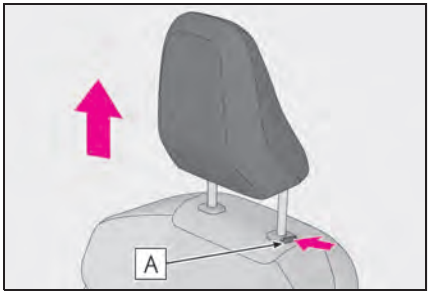
n Adjusting the center rear seat head restraint

Always raise the head restraint one level from the stowed position when using.

Removing the head restraints

Pull the head restraint up while pressing the lock release button A.

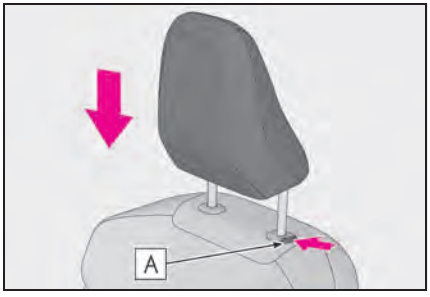
Front seats: If the head restraint touches the ceiling, making the removal difficult, change the seat height or angle. (→P.125)



Installing the head restraints

Align the head restraint with the installation holes and push it down to the lock position.

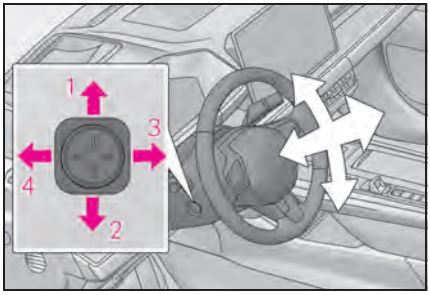
Press and hold the lock release button A when lowering the head restraint.



Steering wheel

Adjustment procedure

Operating the switch moves the steering wheel in the following directions:



1 Up
2 Down
3 Toward the driver
4 Away from the driver

n The steering wheel can be adjusted when

The power switch is in ON*.

*: As long as the driver's seat belt is fastened, the steering wheel position can be adjusted for approximately 45 seconds after the power switch is turned to ACC or OFF. Adjustment stops operating if the driver's seat belt is unfastened during that period.

n Automatic adjustment of the steering position

A desired steering position can be entered to memory and recalled automatically by the driving position memory system. (→P.146)

n Power easy access system

The driver's seat and steering wheel move in accordance with power switch mode and the driver's seat belt condition. (→P.146)

n Customization

Some functions can be customized. (→P.517)

WARNING

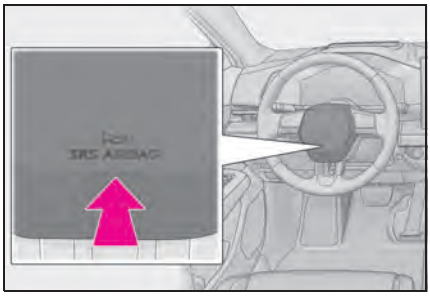
n Caution while driving

Do not adjust the steering wheel while driving.

Doing so may cause the driver to mishandle the vehicle and cause an accident, resulting in death or serious injury.

Sounding the horn

Press on or close to the mark.



Inside rear view mirror*

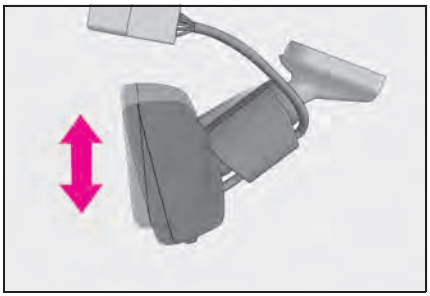
*: If equipped

The rear view mirror's position can be adjusted to enable sufficient confirmation of the rear view.

Adjusting the height of rear view mirror

The height of the rear view mirror can be adjusted to suit your driving posture.

Adjust the height of the rear view mirror by moving it up and down.



WARNING

n Caution while driving

Do not adjust the position of the mirror while driving.

Doing so may lead to mishandling of the vehicle and cause an accident, resulting in death or serious injury.

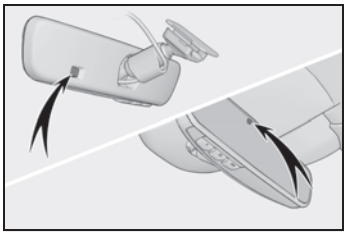
Anti-glare function

Responding to the level of brightness of the headlights of vehicles behind, the reflected light is automatically reduced.

This function turns on each time the power switch is turned to ON.

n To prevent sensor error

To ensure that the sensors operate properly, do not touch or cover them.



Digital Rear-view Mirror*

*: If equipped

The Digital Rear-view Mirror is a system that uses the camera on the rear of the vehicle and displays its image on the display of the Digital Rear-view Mirror.

The Digital Rear-view Mirror can be changed between mirror mode and digital mirror mode by operating the lever.

The Digital Rear-view Mirror allows the driver to see the rear view despite obstructions, such as the head restraints or luggage, ensuring rear visibility. Also, the rear seats are not displayed and privacy of the passengers is enhanced.

WARNING

Observe the following precautions. Failure to do so may result in death or serious injury.

n Before using the Digital Rearview Mirror

l Make sure to adjust the mirror before driving. (→P.132)

• Change to mirror mode and adjust the position of the Digital Rear-view Mirror so that the area behind your vehicle can be viewed properly.

• Change to digital mirror mode and adjust the display settings.

l As the range of the image displayed by the Digital Rear-view Mirror is different from that of the mirror, make sure to check this difference before driving.

n While driving

l Do not adjust the position of the Digital Rear-view Mirror or adjust the display settings while driving.
Stop the vehicle and operate the Digital Rear-view Mirror control switches. Failure to do so may cause a steering wheel operation error, resulting in an unexpected accident.

l Always pay attention to the vehicle's surroundings.

The size of the vehicles and other objects may look different when in digital mirror mode and mirror mode.
When backing up, make sure to directly check the safety of the area around your vehicle, especially behind the vehicle. Additionally, if a vehicle approaches from the rear in the dark, such as at night, the surrounding area may appear dim.

n To prevent causes of fire

If the driver continues using the Digital Rear-view Mirror while smoke or odor comes from the mirror, it may result in fire. Stop using the system immediately and contact your Lexus dealer.

NOTICE

n To prevent the camera from malfunctioning

l Observe the following precautions, otherwise the Digital Rear-view Mirror may not operate properly.

• Do not strike or hit the camera or subject it to a strong impact, as the camera installation position and angle may be changed.

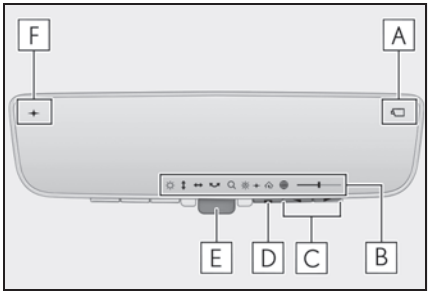
• Do not remove, disassemble or modify the camera because the camera unit is designed to be waterproof.

NOTICE

- When washing the camera, rinse it with a large quantity of water and then wipe it clean with a soft cloth dampened with water. Do not strongly rub the camera lens, as it may be scratched and will not be able to transmit a clear image.
- Do not allow organic solvent, car wax, window cleaner or glass coat to adhere to the camera cover. If this happens, wipe it off as soon as possible.
- Do not apply hot water to the camera in cold weather, as the sudden change of temperature may cause the camera to not operate properly.
- When using a high pressure washer to wash the vehicle, do not directly spray the camera and its surrounding area, as doing so may cause the camera to not operate properly.

Do not subject the camera to a strong impact as this could cause a malfunction.
If this happens, have the vehicle inspected by your Lexus dealer as soon as possible.

System components



A Camera indicator

Indicates that the camera is operating normally.

B Icon display area

Displays icons, adjusting gauge, etc. (→P.132)

C Select/adjust button

Press to change the setting of the item you want to adjust.

D Menu button

Press to display the icon display area and select the item you want to adjust.

E Lever

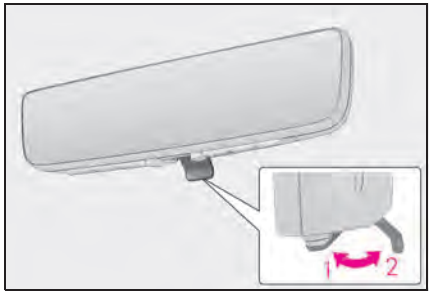
Operate to change between digital mirror mode and mirror mode.

F Digital anti-glare mode indicator

In digital mirror mode, this indicates that the anti-glare function is on. (→P.132)

Changing modes

Operate the lever to change between digital mirror mode and mirror mode.



1 Digital mirror mode

Displays an image of the area behind the vehicle.

will illuminate in this mode.

2 Mirror mode

Turns off the display of the Digital Rearview Mirror allows it to be used as a mirror.

n **Digital mirror mode operating condition**

The power switch is turned to ON.

When the power switch is changed from ON to OFF or ACC, the image will disap-

pear after several seconds.

n **When using the Digital Rear-view Mirror in digital mirror mode**

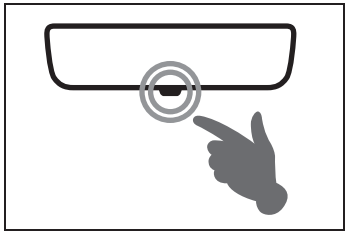
- If it is difficult to see the Digital Rear-view Mirror image because water, snow, mud, etc. is stuck to the camera lens, operate the rear window washer (→P.187) or change to mirror mode.
- When the trunk is open, the Digital Rear-view Mirror image may not display properly. Before driving, make sure the trunk is closed.
- If the display is difficult to see due to reflected light, close the electronic sunshade for the panoramic moon roof.
- Any of the following conditions may occur when driving in the dark, such as at night. None of them indicates that a malfunction has occurred.
  - Colors of objects in the displayed image may differ from their actual color.
  - Depending on the height of the lights of the vehicle behind, the area around the vehicle may appear white and blurry.
  - Automatic image adjustment for brighter surrounding image may cause flickering.

If it is difficult to see the displayed image or flickering bothers you, change to mirror mode.

- The Digital Rear-view Mirror may become hot while it is in digital mirror mode. This is not a malfunction.
- Depending on your physical condition or age, it may take longer than usual to focus on the displayed image. In this case, change to mirror mode.
- Do not let passengers stare at the displayed image when the vehicle is being driven, as doing so may cause motion sickness.

n **When the system malfunctions**

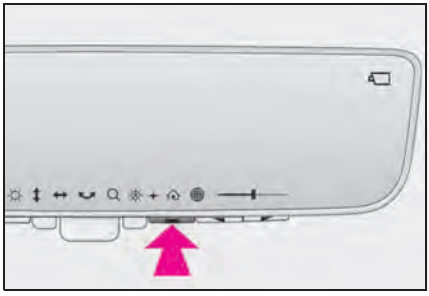
If the symbol shown in the illustration is displayed when using the Digital Rear-view Mirror in digital mirror mode, the system may be malfunctioning. The symbol will disappear in a few seconds. Operate the lever, change to mirror mode and have the vehicle inspected by your Lexus dealer.



Adjusting the mirror

n **Display settings (digital mirror mode)**

Settings of the display in the digital mirror mode, on/off operation of the automatic anti-glare function, etc. can be changed.



1 Operate the menu button and then select the item you want to adjust.

2 Operate the select/adjust button and then change the setting of the item you want to adjust.

The icons will disappear if a button is not operated for approximately 5 seconds or more.

3 Press ▭ or ▭ to change the setting.

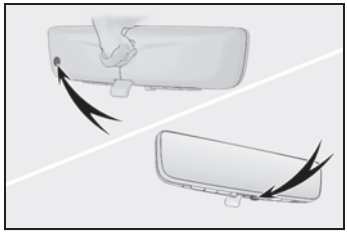
Icons	Settings
	Select to adjust the brightness of the display.
	Select to adjust the area displayed up/down.
	Select to adjust the area displayed to the left/right.
	Select to adjust the angle of the displayed image. : The area moves one phase clockwise by 1 push : The area moves one phase counter clockwise by 1 push
	Select to zoom in/out the displayed image.
	Select to display HomeLink® Training Tutorial to assist customers to train their garage door opener system. (→P.371)
	Select to change the language of the Homelink® Training Tutorial.
	The digital anti-glare mode can be turned on and off. When enabled, the brightness of the display is reduced at night to reduce headlight glare from vehicles to the rear. : It can be turned on and off by pressing and holding the switch for 3 seconds.

n Adjusting the display (digital mirror mode)

- The icons will disappear if a button is not operated for approximately 5 seconds or more.
- If the displayed image is adjusted, it may appear distorted. This is not a malfunction.
- If the brightness of the Digital Rearview Mirror is set too high, it may cause eye strain. Adjust the Digital Rear-view Mirror to an appropriate brightness. If your eyes become tired, change to mirror mode.
- The brightness of the Digital Rearview Mirror will change automatically according to the brightness of the area in front of your vehicle.
- The digital anti-glare mode operates only in locations where the surroundings are dark. Depending on the surrounding illumination environment, the image may not darken and it may not be possible to reduce headlight glare from vehicles to the rear.

n To prevent the light sensors from malfunctioning

To prevent the light sensors from malfunctioning, do not touch or cover them.



Cleaning the Digital Rearview Mirror

n Cleaning the mirror surface

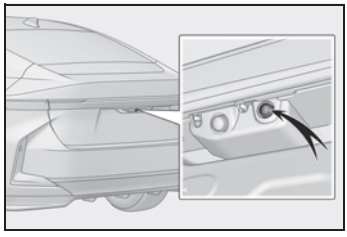
If the mirror surface is dirty, the image on the display may be difficult to see. Clean the mirror surface gently using a soft dry cloth.

n Cleaning the camera

If it is difficult to see the Digital Rear-view Mirror image because water, snow, mud, etc. is stuck to the camera lens, operate the rear window washer or change to mirror mode. (→P.187)

n The camera

The camera for the Digital Rearview Mirror is located as shown.



n Cleaning the camera with washer fluid

- When cleaning the camera, it may be difficult to see the image due to the washer fluid. Therefore, take care in the surrounding area while driving.
- If washer fluid remains on the camera lens surface after cleaning, the image may be difficult to see at night due to the height or inclination of the headlights of the vehicle behind. In this case, change to mirror mode.
- Some dirts may not be removed completely after cleaning. In this case, rinse the camera lens with a large quantity of water and then wipe it clean with a soft cloth dampened with water.
- Washer fluid is sprayed onto the camera lens surface. Therefore, the ice, snow, etc. adhering around the camera cannot be removed.

If you notice any symptoms

If you notice any of the following symptoms, refer to the following table for the likely cause and the solution.

If the symptom is not resolved by the solution, have the vehicle inspected by your Lexus dealer.

Symptom	Likely cause	Solution
The image is difficult to see.	The mirror surface is dirty.	Clean the mirror surface gently, using a soft dry cloth.
	Sunlight or headlights are shining directly into the Digital Rear-view Mirror.	Change to mirror mode. (If the light is coming through the panoramic moon roof, close the electronic sun-shade.)
	• The vehicle is in a dark area. • The vehicle is near a TV tower, broadcasting station, electric power plant, or other location where strong radio waves or electrical noise may be present. • The temperature around the camera is extremely high/low. • The ambient temperature is extremely low. • It is raining or humid. • Sunlight or headlights are shining directly into the camera lens. • The vehicle is under fluorescent lights, sodium lights, mercury lights, etc. • Exhaust gas is obstructing the camera.	Change to mirror mode. (Change back to digital mirror mode when the conditions have improved.)
	Foreign matters such as water droplets or dust is on the camera lens.	• Operate the dedicated camera cleaning washer and clean the camera lens. (→P.187) • Change to mirror mode.
The image is out of alignment.	The trunk is not fully closed.	Fully close the trunk.
	The camera or its surrounding area has received a strong impact.	Change to mirror mode and have the vehicle inspected by your Lexus dealer.

Symptom	Likely cause	Solution
The display is dim and  is displayed.  goes off.	The system may be malfunctioning.	Change to mirror mode and have the vehicle inspected by your Lexus dealer.
 is displayed.	The Digital Rear-view Mirror is extremely hot. (The display will gradually become more dim. If the temperature continues to increase, the Digital Rearview Mirror will turn off.)	Reducing the cabin temperature is recommended to reduce the temperature of the mirror. ( will disappear when the mirror becomes cool.) If  does not disappear even though the mirror is cool, have the vehicle inspected by your Lexus dealer.
The lever cannot be operated properly.	The lever may be malfunctioning.	Change to mirror mode and have the vehicle inspected by your Lexus dealer. (To change to mirror mode, press and hold the menu button for approximately 10 seconds.)

Outside rear view mirrors

The rear view mirror's position can be adjusted to enable sufficient confirmation of the rear view.

n When using the outside rear view mirrors in a cold weather

When it is cold and the outside rear view mirrors are frozen, it may not be possible to fold/extend them or adjust the mirror surface. Remove the ice, snow, etc. covering the outside rear view mirrors.

⚠ WARNING

n Important points while driving

Observe the following precautions while driving.

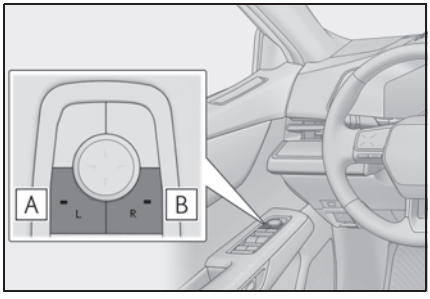
Failure to do so may result in loss of control of the vehicle and cause an accident, resulting in death or serious injury.

- Do not adjust the mirrors while driving.
- Do not drive with the mirrors folded.
- Both the driver and passenger side mirrors must be extended and properly adjusted before driving.

Adjustment procedure

1 To select a mirror to adjust, press the switch.

The indicator comes on.

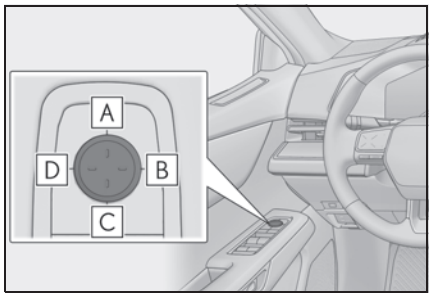


A Left

B Right

Pressing the same switch again will put the switch in neutral.

2 To adjust the mirror, press the switch.



A Up

B Right

C Down

D Left

n Mirror angle can be adjusted when

The power switch is in ACC or ON.

n Defogging the mirrors

The outside rear view mirrors can be cleared using the mirror defoggers. Turn on the rear window defogger to turn on the outside rear view mirror defoggers. (→P.345)

n Auto anti-glare function

When the anti-glare inside rear view mirror is set to automatic mode, the driver's side outside rear view mirror will activate in conjunction with the anti-glare inside rear view mirror to reduce reflected light. (→P.129)

n Automatic adjustment of the mirror angle

A desired mirror face angle can be entered to memory and recalled automatically by the driving position memory. (→P.146)

WARNING

n When the outside rear view mirror defoggers are operating

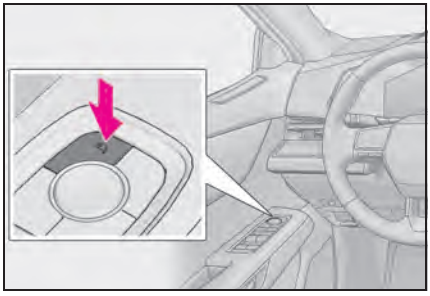
Do not touch the outside rear view mirror surfaces, as they can become very hot and burn you.

Folding and extending the mirrors

n Using the switch

Press the switch to fold the mirrors.

Press it again to extend them to the original position.



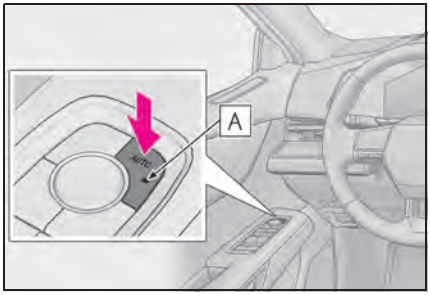
n Setting automatic mode

Automatic mode allows the folding or extending of the mirrors to be linked to locking/unlocking of the doors.

Press the "AUTO" switch to set automatic mode.

The indicator [A] will come on.

Pressing the switch once more will return to manual mode.



n When disconnecting and reconnecting 12-volt battery terminals

The automatic folding/extending mirror function will return to off as default. To turn the function on, press the switch again to select on.

WARNING

n When a mirror is moving

To avoid personal injury and mirror malfunction, be careful not to get your hand caught by the moving mirror.

Linked mirror function when reversing

When the mirror select switch is in the "L" or "R" position, the outside rear view mirrors will automatically angle downwards when the vehicle is reversing in order to give a better view of the ground.

To disable this function, select neither "L" nor "R".

n Adjusting the mirror angle when the vehicle is reversing

With the shift position in R, adjust the mirror angle at a desired position.

The adjusted angle will be memorized and the mirror will automatically tilt to the memorized angle whenever the

shift position is shifted to R from next time.

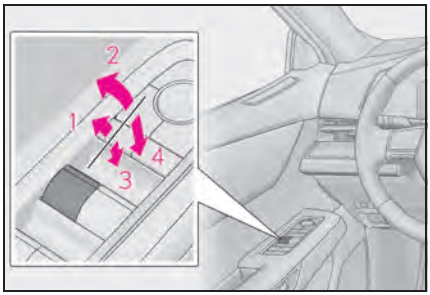
The memorized downward tilt position of the mirror is linked to the normal position (angle adjusted with the shift position in other than R). Therefore, if the normal position is changed after adjustment, the tilt position will also change.

When the normal position is changed, readjust the angle in reversing.

Power windows

Opening and closing the power windows

The power windows can be opened and closed using the switches. Operating the switch moves the windows as follows:



1 Closing

2 One-touch closing*

3 Opening

4 One-touch opening*

*: To stop the window partway, operate the switch in the opposite direction.

n The power windows can be operated when

The power switch is in ON.

n Operating the power windows after turning the hybrid system off

The power windows can be operated for approximately 45 seconds even after the power switch is turned to ACC or turned off. They cannot, however, be operated once either front door is opened.

n Jam protection function

If an object becomes jammed between the window and the window frame while the window is closing, window movement is stopped and the window is opened slightly.

n Catch protection function

If an object becomes caught between the door and window while the window is opening, window movement is stopped.

n When the power window cannot be opened or closed

When the jam protection function or catch protection function operates unusually and the door window cannot be opened or closed, perform the following operations with the power window switch of that door.

- Stop the vehicle. With the power switch in ON, within 4 seconds of the jam protection function or catch protection function activating, continuously operate the power window switch in the one-touch closing direction or one-touch opening direction so that the door window can be opened and closed.
- If the door window cannot be opened and closed even when performing the above operations, perform the following procedure for function initialization.

1 Turn the power switch to ON.

2 Pull and hold the power window switch in the one-touch closing direction and completely close the side window.

3 Release the power window switch for a moment, resume pulling the switch in the one-touch closing direction, and hold it there for approximately 6 seconds or more.

4 Press and hold the power window switch in the one-touch opening direction. After the side window is completely opened, continue holding the switch for an additional 1 second or more.

5 Release the power window switch for a moment, resume pushing the switch in the one-touch opening direction, and hold it there for approximately 4 seconds or more.

6 Pull and hold the power window switch in the one-touch closing direction again. After the door window is completely closed, continue holding the switch for a further 1 second or more.

If you release the switch while the window is moving, start again from the beginning.

If the window reverses and cannot be fully closed or opened, have the vehicle inspected by your Lexus dealer.

n Door lock linked window operation

- The power windows can be opened and closed using the mechanical key.* (→P.477)
- The power windows can be opened using the wireless remote control.* (→P.110)
- The alarm may be triggered if the alarm is set and the power window is closed using the door lock linked power window operation function. (→P.74)

*: These settings must be customized at your Lexus dealer.

n Power windows open warning buzzer

A buzzer sounds and a message is shown on the multi-information display in the instrument cluster when the power switch is turned off and the driver's door is opened with the power windows open.

n Customization

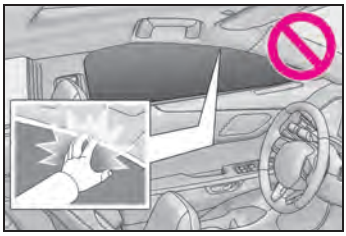
Some functions can be customized. (→P.525)

⚠ WARNING

Observe the following precautions. Failure to do so may result in death or serious injury.

n Closing the windows

- The driver is responsible for all the power window operations, including the operation for the passengers. In order to prevent accidental operation, especially by a child, do not let a child operate the power windows. It is possible for children and other passengers to have body parts caught in the power window. Also, when riding with a child, it is recommended to use the window lock switch. (→P.142)
- Check to make sure that all passengers do not have any part of their body in a position where it could be caught when a window is being operated.



- When using the wireless remote control or mechanical key and operating the power windows, operate the power window after checking to make sure that there is no possibility of any passenger having any of their body parts caught in the window. Also do not let a child operate window by the wireless remote control or mechanical key. It is possible for children and other passengers to get caught in the power window.
- When exiting the vehicle, turn the power switch off, carry the key and exit the vehicle along with the child. There may be accidental operation, due to mischief, etc., that may possibly lead to an accident.

n Jam protection function

- Never use any part of your body to intentionally activate the jam protection function.
- The jam protection function may not work if something gets jammed just before the window is fully closed. Be careful not to get any part of your body jammed in the window.

n Catch protection function

- Never use any part of your body or clothing to intentionally activate the catch protection function.

WARNING

- The catch protection function may not work if something gets caught just before the window is fully opened. Be careful not to get any part of your body or clothing caught in the window.

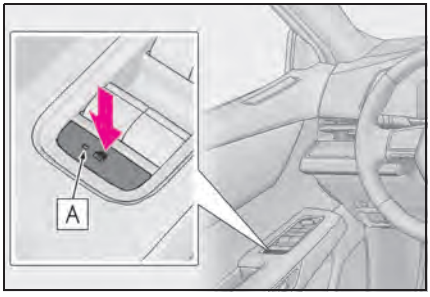
Preventing accidental operation (window lock switch)

This function can be used to prevent children from accidentally opening or closing a passenger window.

Press the switch.

The indicator A will come on and the passenger windows will be locked.

The passenger windows can still be opened and closed using the driver's switch even if the lock switch is on.



The power windows can be operated when

The power switch is in ON.

When the 12-volt battery is disconnected

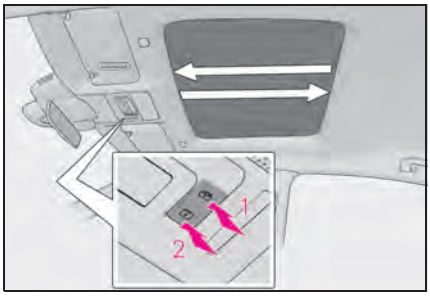
The window lock switch is disabled. If necessary, press the window lock switch after reconnecting the 12-volt battery.

Panoramic moon roof

Use the overhead switches to operate the panoramic moon roof and electronic sunshade.

Operating the panoramic moon roof

Opening and closing the electronic sunshade



1 Opens the electronic sunshade

If the switch is pressed and held, the electronic sunshade will fully open automatically.*1

2 Closes the electronic sunshade

If the switch is pressed and held, the electronic sunshade will fully close automatically.*2

If the panoramic moon roof is not fully closed, it will close fully before the electronic sunshade closes.

*1: Lightly press either end of the switch to stop the electronic sunshade while it is operating.

*2: Lightly press either end of the switch to stop the electronic sunshade while it is operating.

n Tilting the panoramic moon roof up and down

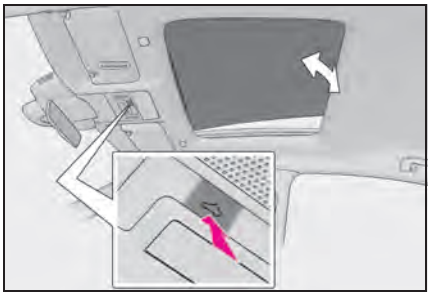
Tilts the panoramic moon roof up (press and hold)*

When the panoramic moon roof is tilted up, the electronic sunshade will fully open automatically.

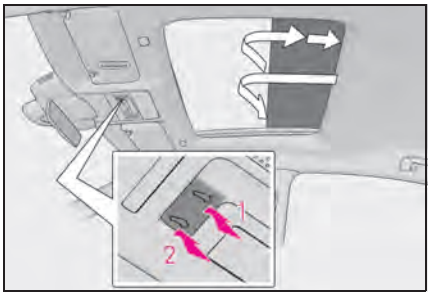
*: Lightly press the switch again to stop the panoramic moon roof partway.

Tilts the panoramic moon roof down (press and hold)

The panoramic moon roof can be tilted down only when it is in the tilt-up position.



n Opening and closing the panoramic moon roof



1 Opens the panoramic moon roof*1

Press and hold the switch. The panoramic moon roof and electronic sunshade will fully open automatically.

The panoramic moon roof can be opened from the tilt-up position.

2 Closes the panoramic moon roof*2

Press and hold the switch. The panoramic moon roof will fully close automatically.

*1: Lightly press either end of the switch to stop the panoramic moon roof and electronic sunshade while it is operating.

*2: Lightly press either end of the switch to stop the panoramic moon roof while it is operating.

n The panoramic moon roof can be operated when

The power switch is in ON.

n Operating the panoramic moon roof after turning the hybrid system off

The panoramic moon roof and electronic sunshade can be operated for approximately 45 seconds after the power switch is turned to ACC or turned off. They cannot, however, be operated once either front door is opened.

n Jam protection function

If an object is detected between the panoramic moon roof and the frame in the following situations, travel is stopped and the panoramic moon roof opens slightly:

- The panoramic moon roof is closing or tilting down.
- The electronic sunshade is closing.

n Door lock linked panoramic moon roof operation

- The panoramic moon roof can be opened and closed using the mechanical key.* (→P.477)
- The panoramic moon roof can be opened using the wireless remote control.* (→P.110)
- The alarm may be triggered if the alarm is set and the panoramic moon roof is closed using the door lock linked moon roof operation function. (→P.74)

*: These settings must be customized at your Lexus dealer.

n Closing both the panoramic moon roof and electronic sunshade

Press the switch.

The electronic sunshade will close to the half-open position and pause. The panoramic moon roof will then fully close. Then the electronic sunshade will fully close.

n When the panoramic moon roof or electronic sunshade does not close normally

Perform the following procedure:

1. Stop the vehicle.
2. Turn the power switch to ON.
3. Press and hold the switch or switch. Continue pressing the switch for approximately 10 seconds after the panoramic moon roof or electronic sunshade closes and reopens. The panoramic moon roof and electronic sunshade will start to close.*
4. Check that the panoramic moon roof and electronic sunshade are fully closed and release the switch.

*: If the switch is released at the incorrect time, the procedure will have to be performed again from the beginning.

If the panoramic moon roof or electronic sunshade does not fully close even after performing the above procedure correctly, have the vehicle inspected by your Lexus dealer.

n Panoramic moon roof open warning buzzer

A buzzer sounds and a message is shown on the multi-information display in the instrument cluster when the power switch is turned off and the driver's door is opened with the panoramic moon roof open.

n Customization

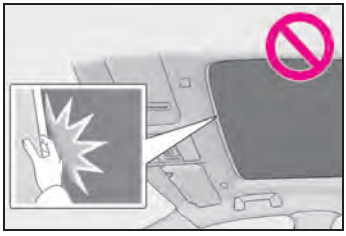
Some functions can be customized.
(→P.525)

WARNING

Observe the following precautions. Failing to do so may cause death or serious injury.

n Opening and closing the electronic sunshade

- Check to make sure that all passengers do not have any part of their body in a position where it could be caught when the electronic sunshade is being operated.



- Do not let a child operate the electronic sunshade. Closing the electronic sunshade on someone can cause death or serious injury.

n Opening the panoramic moon roof

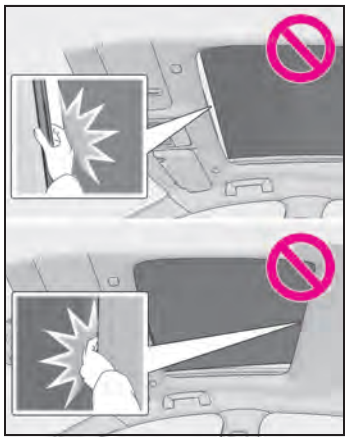
- Do not allow any passengers to put their hands or head outside the vehicle while it is moving.
- Do not sit on top of the panoramic moon roof.

n Opening and closing the panoramic moon roof

- The driver is responsible for panoramic moon roof opening and closing operations. In order to prevent accidental operation, especially by a child, do not let a child operate the panoramic moon roof. It is possible for children and other passengers to have body parts caught in the panoramic moon roof.

WARNING

- Check to make sure that all passengers do not have any part of their body in a position where it could be caught when the panoramic moon roof is being operated.



- When using the wireless remote control or mechanical key and operating the panoramic moon roof, operate the panoramic moon roof after checking to make sure that there is no possibility of any passenger having any of their body parts caught in the panoramic moon roof. Also, do not let a child operate panoramic moon roof by the wireless remote control or mechanical key. It is possible for children and other passengers to get caught in the panoramic moon roof.
- When exiting the vehicle, turn the power switch off, carry the key and exit the vehicle along with the child. There may be accidental operation, due to mischief, etc., that may possibly lead to an accident.

n Jam protection function

- Never use any part of your body to intentionally activate the jam protection function.
- The jam protection function may not work if something gets caught just before the panoramic moon roof or electronic sunshade is fully closed. Also, the jam protection function is not designed to operate while the switch is being pressed. Take care so that your fingers, etc. do not get caught.

n To prevent burns or injuries

Do not touch the area between the underside of the panoramic moon roof and the electronic sunshade. Your hand may get caught and you could injure yourself. Also, if the vehicle is left in direct sunlight for a long time, the underside of the panoramic moon roof could become very hot and could cause burns.

NOTICE

n To prevent damage to the panoramic moon roof

- Before opening the panoramic moon roof, make sure that there are no foreign objects, such as stones or ice, around the opening.
- Do not hit the surface or edge of the panoramic moon roof with hard objects.
- Do not continuously press the switch or switch after the panoramic moon roof has been fully opened or closed.

n After the vehicle has been washed or rained on

Before opening the panoramic moon roof, wipe any water off the panoramic moon roof. Otherwise, water may enter the cabin when the panoramic moon roof is opened.

Driving position memory

This feature automatically adjusts the positions of the driver's seat, steering wheel, outside rear view mirrors and head-up display (if equipped) to make entering and exiting the vehicle easier or to suit your preferences.

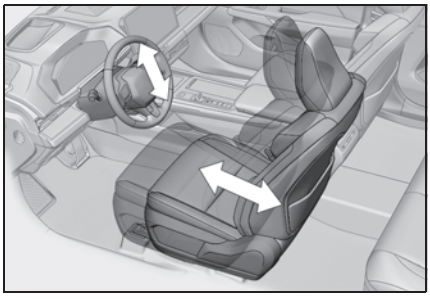
Driving positions can be recorded for 3 drivers that has been registered for My Settings.

When electronic key assignment is registered for My Settings, the driving position for each driver can be recalled (memory recall function).

For details about My Settings, refer to P.149.

Power easy access system (driver's side only)

The seat and steering wheel are automatically adjusted to allow the driver to enter and exit the vehicle easily.



When all of the following have been performed, the driver's seat and steering wheel are automatically adjusted to a position that allows the driver to enter and exit the vehicle easily.

- The shift position has been shifted to P.
- The power switch has been turned off.
- The driver's seat belt has been unfastened.

When any of the following has been performed, the driver's seat and steering wheel automatically return to their original positions.

- The power switch has been turned to ON.
- The driver's seat belt has been fastened.

n **Operation of the power easy access system**

l When exiting the vehicle, the power easy access system may not operate if the seat is already in the rearmost position or close to the rear seat.

l If the seat position is adjusted during power easy access system operation, the automatic operation will stop. (The seat will change to manual operation.)

l If the seat position is adjusted during or after the power easy access system operation when the driver is exiting the vehicle, the power easy access system will not operate when entering the vehicle.

n **Jam protection function**

While the power easy access system is operating, if an object is stuck behind the front seat, the front seat will stop and then slightly move forward.

n **Customization**

Some functions can be customized. (→P.517)

WARNING

n While the power easy access system is operating and the steering wheel and seat is moving

Be careful not to get body parts or luggage caught. Failure to do so may cause an injury or damage to the luggage.

Recording a driving position into memory

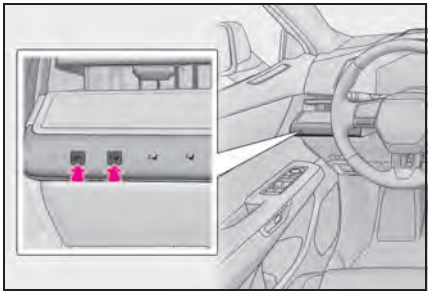
1 Check that the shift position is in P.

2 Turn the power switch to ON.

3 Adjust the driver's seat, steering wheel, outside rear view mirrors and head-up display (if equipped) to the desired positions.

4 While pressing the "SET" button, or within 3 seconds after the "SET" button is pressed, press button "1", "2" or "3" until the buzzer sounds.

If the selected button has already been preset, the previously recorded position will be overwritten.



n Seat positions that can be memorized (→P.125)

The adjusted positions other than the position adjusted by lumbar support switch can be recorded.

WARNING

n Seat adjustment caution

Take care during seat adjustment so that the seat does not strike the rear passenger or squeeze your body against the steering wheel.

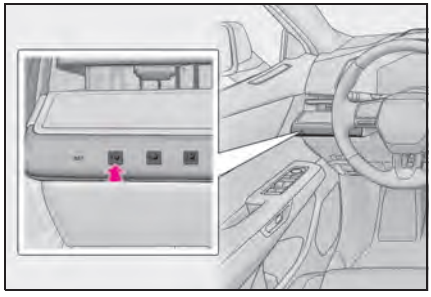
Recalling a driving position

1 Check that the shift position is in P.

2 Turn the power switch to ON.

3 Press one of the buttons for the driving position you want to recall.

If the button is pressed while driving, if a button to which no positions are registered is pressed, or if the desired position is already recalled, a buzzer will sound twice and a driving position will not be recalled.



n To stop the position recall operation part-way through

Perform any of the following:

- Press the "SET" button.
- Press button "1", "2" or "3".
- Operate any of the seat adjustment switches (only cancels seat and steering wheel position recall).
- Operate the tilt and telescopic steering control switch (only cancels steering wheel position recall).
- Operate the outer mirror angle adjustment switch (only cancels outer mirror angle recall).
- Vehicles with the head-up display: Oper-

ate the meter control switches to adjust the head-up display position (only cancels head-up display position recall).

n **Jam protection function**

While the driving position is recalled, if an object is stuck behind the front seat, the front seat will stop and then slightly move forward. When the jam protection function operates, the seat stops at a position other than the set seat position. Check the seat position.

n **Operating the driving position memory after turning the power switch off**

Recorded seat positions can be activated up to 180 seconds after the driver's door is opened and another 60 seconds after it is closed again.

n **When the recorded seat position cannot be recalled**

The seat position may not be recalled in some situations when the seat position is recorded in a certain range. For details, contact your Lexus dealer.

Recalling a driving position automatically when getting in the vehicle (memory recall function) (driver's side only)

n **When an individual is identified using My Settings**

The driving positions can be automatically recalled for each registered driver in My Settings. (→P.149)

● Driving position registration procedure

When the shift position is shifted to P after driving the vehicle, the current driving position will be recorded.

● Driving position recall procedure

1 Identifying with electronic key: Carry only the key that has been assigned and registered in My Settings, and then unlock and open the driver's door using the smart access system with push-button start or wireless remote control.

The driving position other than the steering wheel and head-up display (if equipped) will move to the recorded position. However, the seat will move to a position slightly behind the recorded position in order to make entering the vehicle easier.

If the driving position is in a position that has already been recorded, the driving position will not move.

2 Turn the power switch to ON.

The seat, steering wheel and head-up display (if equipped) (only when the power switch is in ON) will move to the recorded position.

● Memory recall function cancelation procedure

For information on initializing driver registered settings, refer to the "MULTIMEDIA OWNER'S MANUAL".

n **Recalling the driving position using the memory recall function**

The timing of operation may differ depending on the device used to identify an individual.

n **Jam protection function**

While the driving position is recalled, if an object is stuck behind the front seat, the front seat will stop and then slightly move forward. When the jam protection function operates, the seat stops at a position other than the set seat position. Check the seat position.

WARNING

n **Jam protection function**

Never use any part of your body to intentionally activate the jam protection function.

My Settings*

*: If equipped

By identifying an individual through a device, such as an electronic key, the driving position and vehicle settings recorded for that driver can be recalled when the vehicle is entered.

By assigning an authentication device to a driver in advance, the driver can enter the vehicle with their preferred settings.

Settings for up to 3 drivers can be recorded by My Settings.

For details on how to assign/delete electronic keys, set driver names, perform initialization, change drivers manually, or delete a driver, refer to the "MULTIMEDIA OWNER'S MANUAL".

Types of assigned authentication devices

An individual can be identified using the following authentication devices:

- Electronic key/Digital key*

An individual is identified when the smart access system with push-button start detects their electronic key/digital key. (→P.106, 120)

- Face authentication system*

An individual is identified at the opening/closing of the door when face information registered using the driver monitor camera is identified. (→P.206)

Individual identification by face authentication is prioritized than by electronic key/digital key*, if the latter has identified with another registered driver.

- Bluetooth® devices

An individual can be identified if the same Bluetooth® device that was used as a hands-free phone the last time the vehicle was entered is connected to the audio system.

If an individual is identified by detecting an electronic key/digital key* or face authentication*, identification by Bluetooth® device will not be performed.

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

*: If equipped

Recalled functions

When an individual is identified from an authentication device, settings for the following functions are recalled:

- Driving position (memory recall function)

After an individual is identified, the driving position that was set when driving was last completed (with shift position set to P) is recalled when the following operation is performed.

- When an individual is identified from an electronic key: Unlocking the driver's doors using the smart access system with push-button start or wireless remote control
- When an individual is identified from a digital key*1: Unlocking the driver's doors using the smart access system with push-button start

- When an individual is identified from the face authentication system*1: After the driver monitor identifies face information, turning the power switch to or ON.
- When an individual is identified from a Bluetooth® device: recalling of the driving position is accepted.

● Meter displays*2, head-up display*1, 2, and center display*2

When an individual is identified, the vehicle settings used when the power switch was last turned off are recalled.

● Safe driving support function*2

When an individual is identified, the vehicle settings used when the power switch was last turned off are recalled.

● Vehicle settings available on the center display*2

When an individual is identified, the vehicle settings used when the power switch was last turned off are recalled.

*1: If equipped

*2: Some settings are excluded

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n **Face identification**

| Face information of the guest cannot be registered.

| Face information stored in the vehicle computer cannot be decoded or moved to another media. Therefore, it is necessary to register face information again once it is deleted or relevant parts are replaced.

| Face information can be deleted by yourself.

| Once deleted, face information cannot be restored. It is necessary to register face information again.

| When face information registration fails frequently or face identification fails frequently, the driver cameras should be cleaned or face information should be registered again.

| When transferring vehicle ownership, make sure to delete the face information.

| In situations such as the following, the driver monitor camera may not be able to detect the driver's face, and the function may not operate properly.
- When a very bright light, such as the sun or the headlights of following vehicle, shines onto the driver monitor camera
- When a very bright light, such as the sun or the headlights of an oncoming vehicle, is shining onto the driver's face
- When there is a device inside the vehicle that radiates near infrared rays, such as a non-genuine driver monitoring system.

| This system is designed for use to identify facial traits. In the following situations, face information may not be able to be registered or identified correctly:
- When a part of the driver's face (eyebrows, eyes, nose, or mouth) is not visible
- When the driver is wearing glasses/sun glasses, a face mask, muffler, etc.
- When the driver is not facing front
- When part of driver's face is covered with hair, beard, a hand, clothes, jewelry, etc.
- When the driver is closing eyes
- When a non-registered driver is a twin, etc. with a registered driver, whose face looks quite alike with each other

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Driving the vehicle

The following procedures should be observed to ensure safe driving:

Driving procedure

n **Starting the hybrid system**

→P.163

n **Driving**

1 With the brake pedal depressed, shift the shift position to D.

Check that the shift position indicator shows D.

2 If the parking brake is set, release the parking brake. (→P.176)

If the parking brake is in automatic mode, the parking brake will be released automatically. (→P.177)

3 Gradually release the brake pedal and gently depress the accelerator pedal to accelerate the vehicle.

n **Stopping**

1 Depress the brake pedal.

2 If necessary, set the parking brake.

If the vehicle is to be stopped for an extended period of time, shift the shift position to P. (→P.170)

n **Parking the vehicle**

1 Depress the brake pedal to stop the vehicle completely.

2 If the parking brake is released, set the parking brake. (→P.176)

Make sure the parking brake indicator light is on.

3 Shift the shift position to P. (→P.170)

Check that the shift position indicator shows P and the parking brake indicator is illuminated.

4 Press the power switch to stop the hybrid system.

5 Slowly release the brake pedal.

6 Lock the door, making sure that you have the electronic key on your person.

If parking on a hill, block the wheels as needed.

n **Starting off on a steep uphill**

1 Firmly depress the brake pedal and shift the shift position to D.

The hill-start assist control will be activated.

2 Set the parking brake. (→P.176)

3 Release the brake pedal and gently depress the accelerator pedal to accelerate the vehicle.

4 Release the parking brake. (→P.176)

---

n **When starting off on a uphill**

The hill-start assist control will activate. (→P.331)

n **For fuel-efficient driving**

Keep in mind that Hybrid Electric Vehicles are similar to conventional vehicles, and it is necessary to refrain from activities such as sudden acceleration. (→P.336)

n **Driving in the rain**

- Drive carefully when it is raining, because visibility will be reduced, the windows may become fogged-up, and the road will be slippery.
- Drive carefully when it starts to rain, because the road surface will be especially slippery.
- Refrain from high speeds when driving on an expressway in the rain, because there may be a layer of water between the tires and the road surface, preventing the

steering and brakes from operating properly.

n Restraining the hybrid system output (Brake Override System)

l When the accelerator and brake pedals are depressed at the same time, the hybrid system output may be restrained.

l A warning message is displayed on the multi-information display while the system is operating.

n Breaking in your new Lexus

To extend the life of the vehicle, observing the following precautions is recommended:

l For the first 186 miles (300 km):

Avoid sudden stops.

l For the first 621 miles (1000 km):

- Do not drive at extremely high speeds.
- Avoid sudden acceleration.
- Do not drive continuously in low gears.
- Do not drive at a constant speed for extended periods.

n Operating your vehicle in a foreign country

Comply with the relevant vehicle registration laws and confirm the availability of the correct fuel. (→P.493)

⚠ WARNING

Observe the following precautions. Failure to do so may result in death or serious injury.

n When starting the vehicle

Always keep your foot on the brake pedal while stopped with the "READY" indicator is illuminated. This prevents the vehicle from creeping.

n When driving the vehicle

l Do not drive if you are unfamiliar with the location of the brake and accelerator pedals to avoid depressing the wrong pedal.

- Accidentally depressing the accelerator pedal instead of the brake pedal will result in sudden acceleration that may lead to an accident.
- When backing up, you may twist your body around, leading to a difficulty in operating the pedals. Make sure to operate the pedals properly.
- Make sure to keep a correct driving posture even when moving the vehicle only slightly. This allows you to depress the brake and accelerator pedals properly.
- Depress the brake pedal using your right foot. Depressing the brake pedal using your left foot may delay response in an emergency, resulting in an accident.

l The driver should pay extra attention to pedestrians when the vehicle is powered only by the electric motor (traction motor). As there is minimal motor noise, pedestrians may misjudge the vehicle's movement. Even if the Acoustic Vehicle Alerting system is operating, drive with care as pedestrians in the vicinity may still not notice the vehicle if the surrounding area is noisy.

l Do not drive the vehicle over or stop the vehicle near flammable materials such as leaves, paper or rags.
The exhaust system and exhaust gases can be extremely hot. These hot parts may cause a fire if there is any flammable material nearby.

l During normal driving, do not turn off the hybrid system. Turning the hybrid system off while driving will not cause loss of steering or braking control, however, power assist to the steering will be lost. This will make it more difficult to steer smoothly, so you should pull over and stop the vehicle as soon as it is safe to do so.
In the event of an emergency, such as if it becomes impossible to stop the vehicle in the normal way: →P.434

WARNING

- Use engine braking (downshift) to maintain a safe speed when driving down a steep hill.
  Using the brakes continuously may cause the brakes to overheat and lose effectiveness. (→P.169)
- Do not adjust the positions of the steering wheel, the seat, or the inside or outside rear view mirrors while driving.
  Doing so may result in a loss of vehicle control.
- Always check that all passengers' arms, heads or other parts of their body are not outside the vehicle.
- Do not drive in excess of the speed limit. Even if the legal speed limit permits it, do not drive over 85 mph (140 km/h) unless your vehicle has high-speed capability tires. Driving over 85 mph (140 km/h) may result in tire failure, loss of control and possible injury. Be sure to consult a tire dealer to determine whether the tires on your vehicle are high-speed capability tires or not before driving at such speeds.
- Do not drive the vehicle off-road. This vehicle is not designed for off-road driving. Drive with due care if it becomes unavoidable to drive off-road.
- Do not drive across a river or through other bodies of water. This may cause electric/electronic components to short circuit, damage the hybrid system or cause other serious damage to the vehicle.

When driving on slippery road surfaces

- Sudden braking, acceleration and steering may cause tire slippage and reduce your ability to control the vehicle.
- Sudden acceleration, engine braking due to shifting, or changes in engine speed could cause the vehicle to skid, resulting in an accident.
- After driving through a puddle, lightly depress the brake pedal to make sure that the brakes are functioning properly. Wet brake pads may prevent the brakes from functioning properly. If the brakes on only one side are wet and not functioning properly, steering control may be affected.

When shifting the shift position

- Do not let the vehicle roll backward while a forward driving position is selected, or roll forward while the shift position is in R.
  Doing so may result in an accident or damage to the vehicle.
- Do not shift the shift position to P while the vehicle is moving.
  Doing so can damage the transmission and may result in a loss of vehicle control.
- Do not shift the shift position to R while the vehicle is moving forward.
  Doing so can damage the transmission and may result in a loss of vehicle control.
- Do not shift the shift position to a driving position while the vehicle is moving backward.
  Doing so can damage the transmission and may result in a loss of vehicle control.
- Changing the shift position to N while the vehicle is moving will disengage the hybrid system. Regenerative braking is not available with the hybrid system disengaged.

WARNING

- Be careful not to change the shift position with the accelerator pedal depressed.
  Changing the shift position to any positions other than P or N may lead to unexpected rapid acceleration of the vehicle that may cause an accident and result in death or serious injury.
  After changing the shift position, make sure to confirm the current shift position displayed on the shift position indicator inside the meter.

n If you hear a squealing or scraping noise (brake pad wear limit indicators)

Have the brake pads checked and replaced by your Lexus dealer as soon as possible. Rotor damage may result if the pads are not replaced when needed. It is dangerous to drive the vehicle when the wear limits of the brake pads and/or those of the brake discs are exceeded.

n When the vehicle is stopped

- Do not depress the accelerator pedal unnecessarily.
  If the shift position is in any position other than P or N, the vehicle may accelerate suddenly and unexpectedly, causing an accident.
- In order to prevent accidents due to the vehicle rolling away, always keep depressing the brake pedal while stopped with the "READY" indicator is illuminated, and apply the parking brake as necessary.
- If the vehicle is stopped on an incline, in order to prevent accidents caused by the vehicle rolling forward or backward, always depress the brake pedal and securely apply the parking brake as needed.
- Avoid revving or racing the engine.
  Running the engine at high speed while the vehicle is stopped may cause the exhaust system to overheat, which could result in a fire if combustible material is nearby.

n When the vehicle is parked

- Always apply the parking brake, shift the shift position to P, stop the hybrid system and lock the vehicle.
  Do not leave the vehicle unattended while the "READY" indicator is illuminated.If the vehicle is parked with the shift position in P but the parking brake is not set, the vehicle may start to move, possibly leading to an accident.
- Do not leave cigarette lighters in the vehicle. If a cigarette lighter is in a place such as the glove box or on the floor, it may be lit accidentally when luggage is loaded or the seat is adjusted, causing a fire.
- Do not attach adhesive discs to the windshield or windows. Do not place containers such as air fresheners on the instrument panel or dashboard. Adhesive discs or containers may act as lenses, causing a fire in the vehicle.
- Do not leave a door or window open if the curved glass is coated with a metallized film such as a silver-colored one. Reflected sunlight may cause the glass to act as a lens, causing a fire.
- Do not leave glasses, cigarette lighters, spray cans, or soft drink cans in the vehicle when it is in the sun.
  Doing so may result in the following:
  - Gas may leak from a cigarette lighter or spray can, and may lead to a fire.
  - The temperature inside the vehicle may cause the plastic lenses and plastic material of glasses to deform or crack.
  - Soft drink cans may fracture, causing the contents to spray over the interior of the vehicle, and may also cause a short circuit in the vehicle's electrical components.
- Do not touch the exhaust pipes while the "READY" indicator is illuminated or immediately after turning the hybrid system off.
  Doing so may cause burns.

WARNING

n When taking a nap in the vehicle

Always turn the hybrid system off. Otherwise, if you accidentally move the shift lever or depress the accelerator pedal, this could cause an accident or fire due to hybrid system overheating. Additionally, if the vehicle is parked in a poorly ventilated area, exhaust gases may collect and enter the vehicle, leading to death or a serious health hazard.

n When braking

- When the brakes are wet, drive more cautiously.
  Braking distance increases when the brakes are wet, and this may cause one side of the vehicle to brake differently than the other side. Also, the parking brake may not securely hold the vehicle.
- If the electronically controlled brake system does not operate, do not follow other vehicles closely and avoid hills or sharp turns that require braking.
  In this case, braking is still possible, but the brake pedal should be depressed more firmly than usual. Also, the braking distance will increase. Have your brakes fixed immediately.
- The brake system consists of 2 or more individual hydraulic systems; if one of the systems fails, the other(s) will still operate. In this case, the brake pedal should be depressed more firmly than usual and the braking distance will increase. Have your brakes fixed immediately.

n If the vehicle becomes stuck

Do not spin the wheels excessively when any of the tires is up in the air, or the vehicle is stuck in sand, mud, etc. This may damage the driveline components or propel the vehicle forward or backward, causing an accident.

NOTICE

n When driving the vehicle

- Do not depress the accelerator and brake pedals at the same time during driving, as this may restrain the hybrid system output.
- Do not use the accelerator pedal or depress the accelerator and brake pedals at the same time to hold the vehicle on a hill.

n Avoiding damage to vehicle parts

- Do not turn the steering wheel fully in either direction and hold it there for an extended period of time.
  Doing so may damage the power steering.
- When driving over bumps in the road, drive as slowly as possible to avoid damaging the wheels, underside of the vehicle, etc.

n If you get a flat tire while driving

A flat or damaged tire may cause the following situations. Hold the steering wheel firmly and gradually depress the brake pedal to slow down the vehicle.

- It may be difficult to control your vehicle.
- The vehicle will make abnormal sounds or vibrations.
- The vehicle will lean abnormally.

Information on what to do in case of a flat tire (→P.465)

n When encountering flooded roads

Do not drive on a road that has flooded after heavy rain etc. Doing so may cause the following serious damage to the vehicle:

- Engine stalling
- Short in electrical components

NOTICE

- Engine damage caused by water immersion

Traction battery damage caused by water immersion

If the shift control system is damaged by flooding, it may not be possible to shift the shift position to P, or from P to other positions. In this case, contact your Lexus dealer.

- Brake function
- Changes in quantity and quality of oil and fluid used for the engine, hybrid transmission, etc.
- Lubricant condition for the bearings and suspension joints (where possible), and the function of all joints, bearings, etc.

n When parking the vehicle

Always set the parking brake, and shift the shift position to P. Failure to do so may cause the vehicle to move or the vehicle may accelerate suddenly if the accelerator pedal is accidentally depressed.

Sudden start restraint control (Drive-Start Control [DSC])

When the accelerator pedal is pressed excessively while reversing, the hybrid system output may be reduced to suppress a rapid increase in vehicle speed.*

*: Depending on the situation, output limitation may not be possible.

Cargo and luggage

Take notice of the following information about storage precautions, cargo capacity and load:

Capacity and distribution

Cargo capacity depends on the total weight of the occupants.

(Cargo capacity) = (Total load capacity) — (Total weight of occupants)

Steps for Determining Correct Load Limit —

(1) Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.

(2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.

(3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.

(4) The resulting figure equals the available amount of cargo and luggage load capacity.

For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 – 750 (5 × 150) = 650 lbs.)

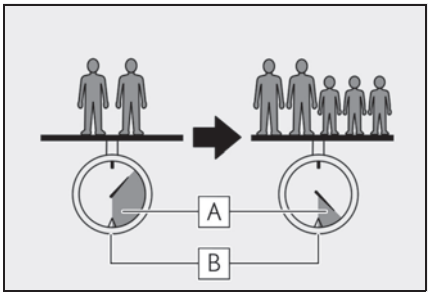
(5) Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and lug-

gage load capacity calculated in Step 4.

(6) If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle. (→P.160)

Lexus does not recommend towing a trailer with your vehicle. Your vehicle is not designed for trailer towing.

Calculation formula for your vehicle



A Cargo capacity

B Total load capacity (vehicle capacity weight) (→P.492)

When 2 people with the combined weight of A lb. (kg) are riding in your vehicle, which has a total load capacity (vehicle capacity weight) of B lb. (kg), the available amount of cargo and luggage load capacity will be C lb. (kg) as follows:

B*2 lb. (kg) - A*1 lb. (kg) = C*3 lb. (kg)

*1: A = Weight of people

*2: B = Total load capacity

*3: C = Available cargo and luggage load

In this condition, if 3 more passengers with the combined weight of D lb. (kg) get on, the available cargo and luggage load will be reduced E lb. (kg) as follows:

C lb. (kg) - D*4 lb. (kg) = E*5 lb. (kg)

*4: D = Additional weight of people

*5: E = Available cargo and luggage load

As shown in the example above, if the number of occupants increases, the cargo and luggage load will be reduced by an amount that equals the increased weight due to the additional occupants. In other words, if an increase in the number of occupants causes an excess of the total load capacity (combined weight of occupants plus cargo and luggage load), you must reduce the cargo and luggage on your vehicle.

WARNING

n Things that must not be carried in the trunk

The following things may cause a fire if loaded in the trunk:

- Receptacles containing gasoline
- Aerosol cans

n Storage precautions

Observe the following precautions. Failure to do so may prevent the pedals from being depressed properly, may block the driver's vision, or may result in items hitting the driver or passengers, possibly causing an accident.

- Stow cargo and luggage in the trunk whenever possible.

WARNING

- Do not place cargo or luggage in or on the following locations.
  - At the feet of the driver
  - On the front passenger or rear seats (when stacking items)
  - On the package tray
  - On the instrument panel
  - On the dashboard
  - In front of the center display
- Secure all items in the occupant compartment.

Capacity and distribution

- Do not exceed the maximum axle weight rating or the total vehicle weight rating.
- Even if the total load of occupant's weight and the cargo load is less than the total load capacity, do not apply the load unevenly. Improper loading may cause deterioration of steering or braking control which may cause death or serious injury.

Vehicle load limits

Vehicle load limits include total load capacity, seating capacity, towing capacity and cargo capacity.

- Total load capacity (vehicle capacity weight): →P.492

Total load capacity means the combined weight of occupants, cargo and luggage.

- Seating capacity: →P.492

Seating capacity means the maximum number of occupants whose estimated average weight is 150 lb. (68 kg) per person.

- Towing capacity

Lexus does not recommend towing a trailer with your vehicle.

- Cargo capacity

Cargo capacity may increase or decrease depending on the weight and the number of occupants.

Total load capacity and seating capacity

These details are also described on the tire and loading information label. (→P.419)

WARNING

Overloading the vehicle

Do not overload the vehicle.
It may not only cause damage to the tires, but also degrade steering and braking ability, resulting in an accident that could cause a severe injury or death.

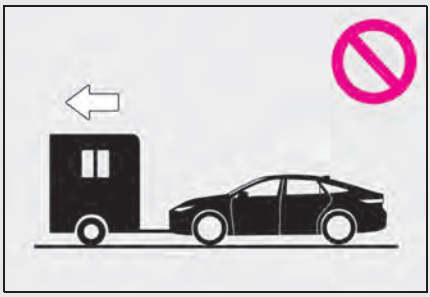
Trailer towing

Lexus does not recommend towing a trailer with your vehicle. Lexus also does not recommend the installation of a tow hitch or the use of a tow hitch carrier for a wheelchair, scooter, bicycle, etc. Your vehicle is not designed for trailer towing or for the use of tow hitch mounted carriers.



Dinghy towing

Your vehicle is not designed to be dinghy towed (with 4 wheels on the ground) behind a motor home.



NOTICE

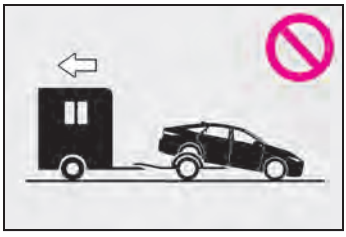
n **To avoid serious damage to your vehicle**

Do not tow your vehicle with the four wheels on the ground.

n **To prevent causing serious damage to the transmission and AWD system (AWD models)**

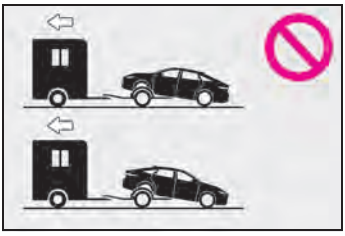
2WD models: Never tow this vehicle from the rear with the front wheels on the ground.

This may cause serious damage to the transmission.



NOTICE

AWD models: Never tow this vehicle with any of the wheels on the ground. This may cause serious damage to the transmission and AWD system.



Power (ignition) switch

Performing the following operations when carrying the electronic key on your person starts the hybrid system or changes power switch modes.

Starting the hybrid system

1 Pull the parking brake switch to check that the parking brake is set. (→P.176)

The parking brake indicator will come on.

2 Firmly depress the brake pedal.

 and a message will be displayed on the multi-information display.

If it is not displayed, the hybrid system cannot be started.

When the shift position is N, the hybrid system cannot start.

Shift the shift position to P when starting the hybrid system. (→P.170)

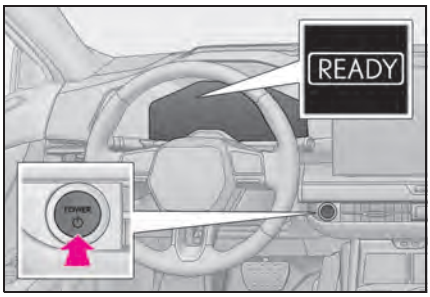
3 Press the power switch shortly and firmly.

When operating the power switch, one short, firm press is enough. It is not necessary to press and hold the switch.

If the "READY" indicator turns on, the hybrid system will operate normally.

Continue depressing the brake pedal until the "READY" indicator is illuminated.

The hybrid system can be started from any power switch mode.



4 Check that the "READY" indicator is illuminated.

The vehicle cannot be driven if the "READY" indicator is off.

n Power switch illumination

According to the situation, the power switch illumination operates as follows.

- If either front door is open or the power switch is turned from ACC or ON to OFF, the power switch light will illuminate dimly.
- If the brake pedal is depressed while carrying an electronic key or digital key (if equipped), the power switch light will illuminate brightly.
- When the power switch is in ACC or ON, the power switch illumination illuminates.

n If the hybrid system does not start

- The immobilizer system may not have been deactivated. (→P.73) Contact your Lexus dealer.
- If a message related to start-up is shown on the multi-information display, read the message and follow the instructions.
- If the door is unlocked with the mechanical key, the hybrid system cannot be started using the smart access system with push-button start. Refer to P.477to start the hybrid system. However, if the electronic key is carried inside the vehicle and the doors are locked (→P.112), the hybrid system can be started.

n **When the ambient temperature is low, such as during winter driving conditions**

l When starting the hybrid system, the flashing time of the "READY" indicator may be long. Leave the vehicle as it is until the "READY" indicator is steady on, as steady means the vehicle is able to move.

l When the hybrid battery (traction battery) is extremely cold (below approximately -22°F [-30°C]) under the influence of the outside temperature, it may not be possible to start the hybrid system. In this case, try to start the hybrid system again after the temperature of the hybrid battery increases due to the outside temperature increase etc.

n **Sounds and vibrations specific to a Hybrid Electric Vehicle**

→P.64

n **Electronic key battery depletion**

→P.102

n **Conditions affecting operation**

→P.122

n **Notes for the entry function**

→P.122

n **When "Access System with Elec.Key malfunction See owner's manual" is displayed on the multi-information display**

The system may be malfunctioning. Have the vehicle inspected by your Lexus dealer immediately.

n **If the "READY" indicator does not come on**

In the event that the "READY" indicator does not come on even after performing the proper procedures for starting the vehicle, contact your Lexus dealer immediately.

n **If the hybrid system is malfunctioning**

→P.71

n **Electronic key battery**

→P.427

n **Operation of the power switch**

l If the switch is not pressed shortly and firmly, the power switch mode may not change or the hybrid system may not start.

l If attempting to restart the hybrid system immediately after turning the power switch off, the hybrid system may not start in some cases. After turning the power switch off, please wait a few seconds before restarting the hybrid system.

n **Customization**

If the smart access system with push-button start has been deactivated in a customized setting, refer to P.476.

WARNING

n **When starting the hybrid system**

Always start the hybrid system while sitting in the driver's seat. Do not depress the accelerator pedal while starting the hybrid system under any circumstances. Doing so may cause an accident resulting in death or serious injury.

NOTICE

n **When starting the hybrid system**

If the hybrid system becomes difficult to start, have your vehicle checked by your Lexus dealer immediately.

n **Symptoms indicating a malfunction with the power switch**

If the power switch seems to be operating somewhat differently than usual, such as the switch sticking slightly, there may be a malfunction. Contact your Lexus dealer immediately.

Stopping the hybrid system

1 Stop the vehicle completely.

2 Set the parking brake (→P.176).

3 Press the P position switch. (→P.170)

Check that the shift position indicator shows P and the parking brake indicator is illuminated.

4 Press the power switch.

The hybrid system will stop, and the meter display will be extinguished (the shift position indicator will be extinguished a few seconds after the meter display).

5 Release the brake pedal and check that "ACCESSORY" or "POWER ON" is not shown on the meter.

n When the shift control system malfunctions

If the shift control system is malfunctioning, when attempting to turn the power switch off, it may not be able to be turned off. In this situation, it may be possible to turn the power switch off by applying the parking brake and then operating the power switch.

If there is a malfunction in the system, have the vehicle inspected by your Lexus dealer immediately.

n Automatic hybrid system shut off feature

- The vehicle is equipped with a feature that automatically shuts off the hybrid system when the shift position is in P with the hybrid system operating for an extended period.
- The hybrid system will automatically shut off after approximately 1 hour if it has been left running while the shift position is in P.
- The timer for the automatic hybrid system shut off feature will reset if the brake pedal is depressed or if the shift position is in a position other than P.
- After the vehicle is parked, if the door is locked with the door lock switch (→P.112) from the inside or the mechanical key from the outside, the automatic hybrid system shut off feature will be disabled. The timer for the automatic hybrid system shut off feature will be re-enabled if the driver's door is opened.

⚠ WARNING

n Stopping the hybrid system in an emergency

- If you want to stop the hybrid system in an emergency while driving the vehicle, press and hold the power switch for more than 2 seconds, or press it briefly 3 times or more in succession. (→P.434)
  However, do not touch the power switch while driving except in an emergency. Turning the hybrid system off while driving will not cause loss of steering or braking control, however, power assist to the steering will be lost. This will make it more difficult to steer smoothly, so you should pull over and stop the vehicle as soon as it is safe to do so.
- If the power switch is operated while the vehicle is running, a warning message will be shown on the multi-information display and a buzzer sounds.
- When restarting the hybrid system after an emergency shutdown, press the power switch shortly and firmly.

n When parking

Exhaust gases include harmful carbon monoxide (CO), which is colorless and odorless. Observe the following precautions.

Failure to do so may cause exhaust gases to enter the vehicle and may lead to an accident caused by light-headedness, or may lead to death or a serious health hazard.

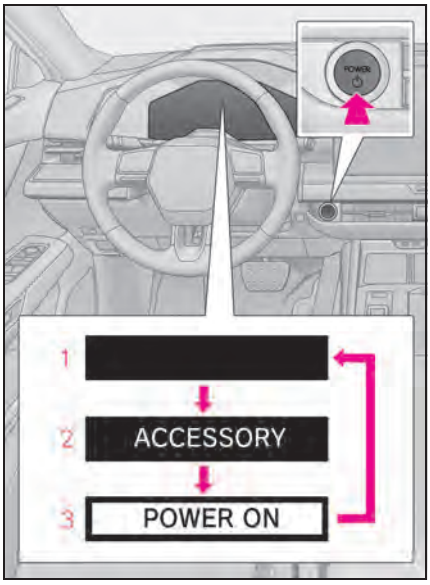
- If the vehicle is in a poorly ventilated area or a closed area, such as a garage, stop the hybrid system.
- Do not leave the vehicle with the hybrid system operating for a long time. If such a situation cannot be avoided, park the vehicle in an open space and ensure that exhaust fumes do not enter the vehicle interior.

WARNING

- Do not leave the hybrid system operating in an area with snow build-up, or where it is snowing. If snowbanks build up around the vehicle while the hybrid system is operating, exhaust gases may collect and enter the vehicle.

Changing power switch modes

Modes can be changed by pressing the power switch with the brake pedal released. (The mode changes each time the switch is pressed.)



1 Off

The emergency flashers can be used.

2 ACC*

Some electrical components such as the audio system can be used.

3 ON

All electrical components can be used.

*: ACC mode can be enabled/disabled on the customize menu. (→P.517)

n When ACC customization is in on

- With the power switch turned off, the multimedia system can still be used for a certain time until the battery saving function starts operating.
- When the safe exit assist is operating, a buzzer will sound and a voice guidance will be given.

n Auto power off function

- If the vehicle is left in ACC or ON (the hybrid system is not operating) for more than 20 minutes with the shift position in P, the power switch will automatically turn to OFF.
- If the 12-volt battery is low with the shift position is in P and the power switch is in ACC or ON (the hybrid system is not operating). The power switch is automatically turn to OFF.

However, this function cannot entirely prevent the 12-volt battery discharge. Do not leave the vehicle with the power switch in ACC or ON for long periods of time when the hybrid system is not operating.

NOTICE

n To prevent 12-volt battery discharge

- Do not leave the power switch in ACC or ON for long periods of time without the hybrid system on.
- If "ACCESSORY" or "POWER ON" is displayed on the meter, the power switch is not off. Exit the vehicle after turning the power switch off.

EV drive mode

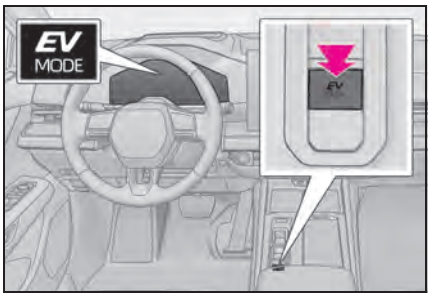
In EV drive mode, electric power is supplied by the hybrid battery (traction battery), and only the electric motor (traction motor) is used to drive the vehicle.

This mode allows you to drive in residential areas early in the morning and late at night, or in indoor parking lots etc. without concern for noises and gas emissions.

Operating instructions

Turns EV drive mode on/off

When EV drive mode is turned on, the EV drive mode indicator will come on. Pressing the switch when in EV drive mode will return the vehicle to normal driving (using the gasoline engine and electric motor [traction motor]).



n Situations in which EV drive mode cannot be turned on

It may not be possible to turn EV drive mode on in the following situations. If it cannot be turned on, a buzzer will sound and a message will be shown on the multi-information display.

- The temperature of the hybrid system is high.
  The vehicle has been left in the sun, driven on a hill, driven at high speeds, etc.
- The temperature of the hybrid system is low.
  The vehicle has been left in temperatures lower than about 68°F (20°C) for a long period of time etc.
- The gasoline engine is warming up.
- The hybrid battery (traction battery) is low.
  The remaining hybrid battery [traction battery] level indicated in the "Energy Monitor" display is low. (→P.90)
- Vehicle speed is high.
- The accelerator pedal is depressed firmly or the vehicle is on a hill etc.
- The windshield defogger is in use.

n Switching to EV drive mode when the gasoline engine is cold

If the hybrid system is started while the gasoline engine is cold, the gasoline engine will start automatically after a short period of time in order to warm up. In this case, you will become unable to switch to EV drive mode.

After the hybrid system has started and the "READY" indicator has illuminated, press the EV drive mode switch before the gasoline engine starts to switch to EV drive mode.

n Automatic cancelation of EV drive mode

When driving in EV drive mode, the gasoline engine may automatically restart in the following situations. When EV drive mode is canceled, a buzzer will sound, the EV drive mode indicator will flash and go off and a message will be shown on the multi-information display.

- The hybrid battery (traction battery) becomes low.
  The remaining hybrid battery [traction battery] level indicated in the "Energy Monitor" display is low. (→P.90)
- Vehicle speed is high.
- The accelerator pedal is depressed firmly or the vehicle is on a hill etc.

When it is possible to inform the driver of automatic cancelation in advance, a prior

notice screen will appear on the multi-information display.

n Possible driving distance when driving in EV drive mode

EV drive mode's possible driving distance ranges from a few hundred meters to approximately 0.6 mile (1 km). However, depending on vehicle conditions, there are situations when EV drive mode cannot be used.
(The distance that is possible depends on the hybrid battery [traction battery] level and driving conditions.)

n Fuel economy

The hybrid system is designed to achieve the best possible fuel economy during normal driving (using the gasoline engine and electric motor [traction motor]). Driving in EV drive mode more than necessary may lower fuel economy.

n If "EV Mode Unavailable" is shown on the multi-information display

The EV drive mode is not available. The reason the EV drive mode is not available (the vehicle is idling, battery charge is low, vehicle speed is higher than the EV drive mode operating speed range or accelerator pedal is depressed too much) may be displayed. Use the EV drive mode when it becomes available.

n If "EV Mode Deactivated" is shown on the multi-information display

The EV drive mode has been automatically canceled. The reason the EV drive mode is not available (the battery charge is low, vehicle speed is higher than the EV drive mode operating speed range or accelerator pedal is depressed too much) may be displayed. Drive the vehicle for a while before attempting to turn on the EV drive mode again.

⚠ WARNING

n Caution while driving

When driving in EV drive mode, pay special attention to the area around the vehicle. Because there is no engine noise, pedestrians, people riding bicycles or other people and vehicles in the area may not be aware of the vehicle starting off or approaching them. Therefore, take extra care while driving even if the Acoustic Vehicle Alerting System is active.

Transmission

Select the shift position depending on your purpose and situation.

Shift position purpose and function

Shift position	Objective or function
P	Parking the vehicle/starting the hybrid system
R	Reversing
N	Neutral (Condition in which the power is not transmitted)
D	Normal driving*1
S	S mode driving*2 (→P.173)

*1: To improve fuel efficiency and reduce noise, set the shift position in D for normal driving. You can choose shift range suitable for your driving situation by operating the paddle shift switches.

*2: By selecting shift ranges using S mode, you can control accelerating force and engine braking forces.

n When driving with the dynamic radar cruise control activated

Even when performing the following actions with the intent of enabling engine braking, engine braking will not be adjusted because the dynamic radar cruise control will not be canceled.

- While driving in the D position or S mode, downshifting to 5 or 4. (→P.173)
- When switching the driving mode to sport mode while driving in the D position. (→P.329)

n If a message about a shift operation is shown

To prevent the shift position from being selected incorrectly or the vehicle from moving unexpectedly, the shift position may be changed automatically or operating the shift lever may be required. In this case, change the shift position following the messages on the multi-information display.

n After recharging/reconnecting the 12-volt battery

→P.483

WARNING

n When driving on slippery road surfaces

Do not accelerate or shift the shift lever suddenly.

Sudden changes in engine braking may cause the vehicle to spin or skid, resulting in an accident.

NOTICE

n Hybrid battery (traction battery) charge

If the shift position is in N, the hybrid battery (traction battery) will not be charged. To help prevent the battery from discharging, avoid leaving the N position selected for a certain amount of time.

n Situations where shift control system malfunctions are possible

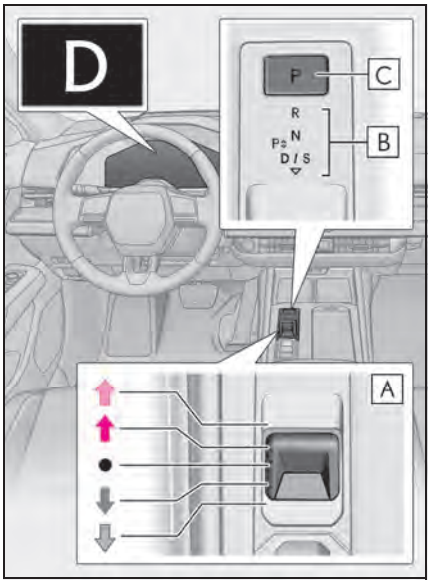
If any of the following situations occurs, shift control system malfunctions are possible.
Immediately stop the vehicle in a safe place on level ground, apply the parking brake, and then contact your Lexus dealer.

- When the warning message indicating the shift control system appears on the multi-information display. (→P.453)

NOTICE

- The display indicates that no shift position is selected for more than a few seconds.

Shift position display and how to change the shift position



Forward two positions

Forward one position

Home position

Backward one position

Backward two position

A Shift lever

Operate the shift lever securely while checking the shift position indicator.

The shift lever can be moved forward and backward in two positions each.

Shifting to the R position:

Move the shift lever forward two positions while depressing the brake pedal.*1

Shifting to the D position:

Move the shift lever backward two positions while depressing the brake pedal.*2

Shifting to the N position:

While depressing the brake pedal, move the shift lever one position forward if the current shift position is P, D, or S, or one position backward if the current shift position is R.

Shifting to the S position:

Move the shift lever backward. Shifting is possible only when the current shift position is D.

*1: The shift position can be changed by moving forward one position from N.

*2: The shift position can be changed by moving backward one position from P, N and S.

Release the shift lever after each shifting operation to allow it to return to its home position (●).

When shifting from P to N, D or R, from N, D, S or R to P, from D or S to R, or from R to D, take your foot off the accelerator pedal and ensure that the brake pedal is being depressed and the vehicle is stationary.

B Shift position indicator

Meter display:

The current shift position is illuminated.

Shift lever display:

The current shift position is illuminated.

When selecting the shift position, make sure that the shift position has been changed to the desired position by checking the shift position indicator provided on

the instrument cluster.

C P position switch

Fully stop the vehicle and set the parking brake, and then press the P position switch.

When the shift position is changed to P, the shift position indicator illuminates.

Check that the shift position indicator shows P.

---

n **Changing the shift position in each power switch mode**

- The shift position cannot be changed when the power switch is in ACC or off.
- When the power switch is in ON, if the "READY" indicator is not illuminated, the shift position can only be changed to N.
- When the "READY" indicator is illuminated, the shift position can be changed from P to D, N, or R.
- When the "READY" indicator is flashing, the shift position cannot be changed from P to any other position, even if the shift lever is operated. Operate the shift lever again after the "READY" indicator changes from flashing to illuminated.

n **Shifting the shift position from P to other positions**

- While depressing the brake pedal firmly, operate the shift lever. If the shift lever is operated without depressing the brake pedal, the buzzer will sound and the shifting operation will be disabled.
- When selecting the shift position, make sure that the shift position has been changed to the desired position by checking the shift position indicator provided on the instrument cluster.
- The shift position cannot be changed from P to S directly.

n **The shift position cannot be changed when**

In the following situations, a buzzer will sound to inform you that the shift position cannot be changed. Use the appropriate operation to attempt to change the shift position again.

- When attempting to change the shift position from P with the brake pedal not depressed
- When attempting to change the shift position from P with the accelerator pedal depressed
- When attempting to change the shift position from N while stopped or driving at an extremely low speed with the brake pedal not depressed
- When attempting to change the shift position from N while stopped or driving at an extremely low speed with the accelerator pedal depressed
- When the P position switch is pressed while driving

When driving at an extremely low speed, the shift position may change to P.

n **The shift position automatically changes to N when**

In the following situations, a buzzer will sound to inform you that the shift position has been changed to N. Use the appropriate operation to attempt to change the shift position again.

- When attempting to change the shift position from D or S to R with the brake pedal not depressed.
- When attempting to change the shift position from D or S to R with the accelerator pedal depressed.
- When attempting to change the shift position to R while the vehicle is moving forward

When driving at a low speed, the shift position may change to R.

- When attempting to change the shift position to D while the vehicle is moving backward

When driving at a low speed, the shift position may change to D.

- When the P position switch pressed repeatedly or continually pressed while driving.

n **Automatic P position selection function**

In the following situations, the shift position

is automatically changed to P.

- When pressing the power switch with the vehicle stopped while the power switch is in ON and the shift position is in a position other than P (after the shift position has changed to P, the power switch will turn off)*
- If the driver's door is opened and all of the following conditions are met, while the shift position is in a position other than P
  - The power switch is in ON.
  - The driver is not wearing the seat belt.
  - The brake pedal is not depressed.

To start off the vehicle after the shift position is changed to P, operate the shift lever again.

- When the vehicle is stopped after the hybrid system has been stopped in an emergency while driving.
- When voltage of the 12-volt battery drops while the shift position is in a position other than P.

*: When the power switch is pressed while driving at extremely slow speeds, such as immediately before stopping the vehicle, the shift position may automatically change to P. Make sure that the vehicle is completely stopped before pressing the power switch.

If the shift position cannot be shifted from P

There is a possibility that the 12-volt battery is discharged. Check the 12-volt battery in this situation. (→P.480)

Customization

Some functions can be customized. (→P.525)

WARNING

For the shift lever

- Do not remove the shift lever knob or use anything but a genuine Lexus shift lever knob. Also, do not hang anything on the shift lever.
  Doing so could prevent the shift lever from returning to position, causing unexpected accidents to occur when the vehicle is in motion.
- In order to prevent the shift position from accidentally being changed, do not touch the shift lever when not using them.
- Once you confirm that the shift indicator has changed after operation, release the shift lever.
  The shift position may change unexpectedly, if you return the lever to the home position with your hands or hold on, causing unexpected accidents to occur when the vehicle is in motion.

P position switch

- Do not press the P position switch while the vehicle is moving.

If the P position switch is pressed when driving at very low speeds (for example, directly before stopping the vehicle), the vehicle may stop suddenly when the shift position switches to P, which could lead to an accident.

- In order to prevent the shift position from accidentally being changed, do not touch the P position switch when not using them.

NOTICE

When exiting the vehicle (driver's seat only)

Check that the shift position indicator shows P and that the parking brake indicator is illuminated before opening the door and exiting the vehicle.

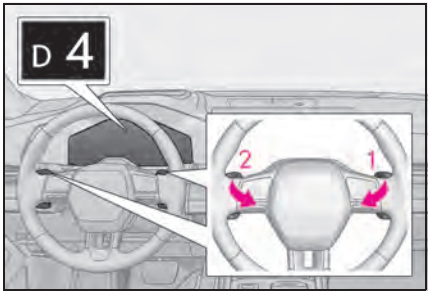
Selecting the driving mode

n **Driving mode**

→P.329

Selecting shift ranges in the D position

To drive using temporary shift range selection, operate the "-" paddle shift switch. Changing the shift range enables the level of engine braking force to be selected. The shift range can then be selected by operating the "-" and "+" paddle shift switches.



1 Upshifting

2 Downshifting

The selected shift range, from D1 to D6, will be displayed on the meter.

The initial shift range when the "-" paddle shift switch is operated is automatically set to D4.

To return to normal D position driving, hold the "+" puddle shift switch for a period of time.

n **Shift ranges and their functions**

- You can choose from 6 levels of engine braking force.
- A lower shift range will provide greater engine braking force than a higher shift range, and the engine revolutions will also increase.

n **When the "-" paddle shift switch is operated with the shift lever in the D position**

The shift range is downshifted to a range that enables engine braking force that is suitable to driving conditions.

n **Automatic deactivation of shift range selection in the D position**

Shift range selection in the D position will be deactivated in the following situations:

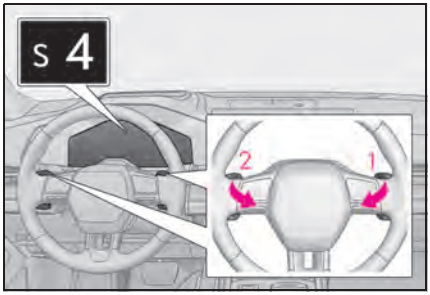
- When the vehicle comes to a stop
- If the accelerator pedal is depressed for more than a certain period of time
- When the shift position is shifted to a position other than D

n **Downshifting restriction warning buzzer**

To help ensure safety and driving performance, downshifting operation may sometimes be restricted. In some circumstances, downshifting may not be possible even when the shift lever or paddle shift switch is operated. (A buzzer will sound twice.)

Selecting shift ranges in the S mode

To enter S mode, shift the shift position to S. Shift ranges can be selected by operating the paddle shift switches, allowing you to drive in the gear of your choosing. The shift range can then be selected by operating the "-" and "+" paddle shift switches.



1 Upshifting

2 Downshifting

The selected shift range, from S1 to S6, will be displayed on the meter.

The initial shift range in S mode is set automatically to S4.

n Shift ranges and their functions

- You can choose from 6 levels of accelerating force and engine braking force.
- A lower shift range will provide greater accelerating force and engine braking force than a higher shift range, and the engine revolutions will also increase.

n S mode

- To prevent the engine from over-revving, upshifting may automatically occur.
- When the shift range is S4 or lower, holding the shift lever toward "+" sets the shift range to S6.

n Downshifting restriction warning buzzer

To help ensure safety and driving performance, downshifting operation may sometimes be restricted. In some circumstances, downshifting may not be possible even when the shift lever or paddle shift switch is operated. (A buzzer will sound twice.)

Keeping the shift position in N without activating the automatic P position selection function

- By performing the following operation, the shift position can be held in N until the shift position switches to P without activating the automatic P position selection function.

1 Stop the vehicle.

2 Turn off the brake hold system. (→P.180)

3 Make sure that hybrid system is running. Then, press and hold the parking brake switch until a buzzer sounds and a message is shown on the multi-information display.

The automatic mode of the parking brake is turned off.

4 Shift the shift position to N.

5 Press and hold the parking brake switch until the parking brake indicator light flashes.

6 Press the power switch.

The hybrid system stops with the shift position in N*

Make sure to check that the buzzer sounds and "Holding N Push P Switch When Done" is displayed on the multi-information display.

- In order to shift to a position other than N, first press the P position switch to change the shift position to P.
- Use this function on a level place. Block the wheels as needed.

*: To keep this state, do not operate the

power switch. If the power switch is operated repeatedly, the power switch will turn off after the shift position has automatically changed to P.

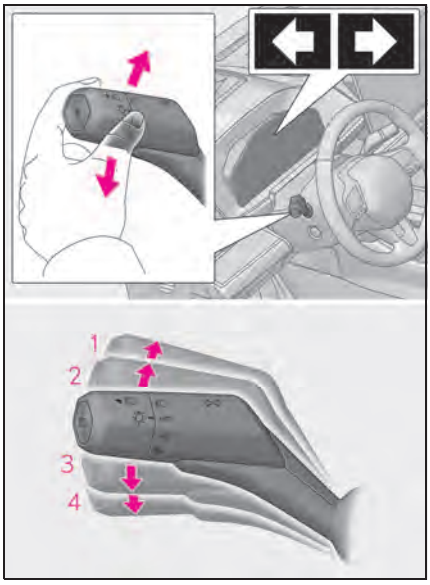
WARNING

n When keeping the shift position in N without activating the automatic P position selection function

Use this function on a level place.
On an incline, the vehicle may start to move, possibly leading to an accident and resulting in a serious injury. Block the wheels as needed.
Do not use this function except when using automatic car washes.

Turn signal lever

Operating instructions



1 Right turn

2 Lane change to the right (move the lever partway and release it)

The right hand signals will flash 3 times.

3 Lane change to the left (move the lever partway and release it)

The left hand signals will flash 3 times.

4 Left turn

n Turn signals can be operated when

The power switch is in ON.

n If the indicator flashes faster than usual

Check that all the turn signal lights are flashing.

When the indicators flash at an abnormally fast speed even though all the turn signal lights are flashing, have the vehicle inspected by your Lexus dealer.

n **If the turn signals stop flashing before a lane change has been performed**

Operate the lever again.

Parking brake

The parking brake can be set or released automatically or manually.

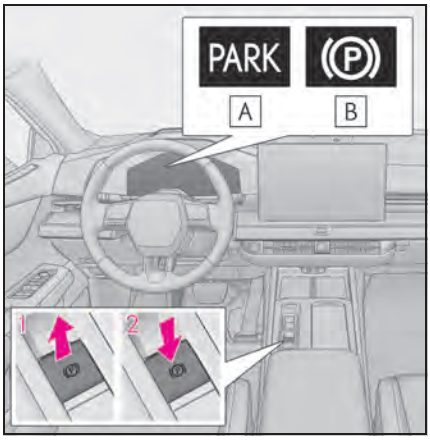
In automatic mode, the parking brake can be set or released automatically.

Also, even in automatic mode, the parking brake can be set or released manually.

Operating instructions

n **Using the manual mode**

The parking brake can be set and released manually.



A Parking brake indicator light (U.S.A.)

B Parking brake indicator light (Canada)

1 Pull the switch to set the parking brake.

The parking brake indicator light will turn on.

Pull and hold the parking brake switch if an

emergency occurs and it is necessary to operate the parking brake while driving.

2 Press the switch to release the parking brake.

- Operate the parking brake switch while depressing the brake pedal.
- Using the parking brake automatic release function, the parking brake can be released by depressing the accelerator pedal. When using this function, slowly depress the accelerator pedal. (→P.177)

Make sure that the parking brake indicator light turn off.

If the parking brake indicator light flash, operate the switch again. (→P.449)

n Turning the automatic mode on

While the vehicle is stopped, pull and hold the parking brake switch until a buzzer sounds and a message is shown on the multi-information display.

When the automatic mode is turned on, the parking brake operates as follows.

- When the shift position is shifted from P, the parking brake will be released, and the parking brake indicator light will turn off.
- When the shift position is shifted to P, the parking brake will be set, and the parking brake indicator light will turn on.

Operate the shift position and P position switch with the vehicle stopped and the brake pedal depressed.

The auto function may not operate if the shift lever is moved extremely quickly or the brake pedal is not firmly depressed. In this situation, apply the parking brake manually. (→P.176)

n Turning the automatic mode off

While the vehicle is stopped and depressing the brake pedal, press and hold the parking brake switch until a buzzer sounds and a message is shown on the multi-information display.

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n Parking brake operation

- When the power switch is not in ON, the parking brake cannot be released using the parking brake switch.
- When the power switch is not in ON, automatic mode (automatic brake setting and releasing) is not available.

n Parking brake automatic release function

When all of the following conditions are met, the parking brake can be released by depressing the accelerator pedal.

- The driver's door is closed
- The driver is wearing the seat belt
- The shift position is in a forward driving position or reverse driving position
- The malfunction indicator lamp or brake system warning light (Yellow) is not illuminated.

When depressing the accelerator pedal, depress it slowly.

If the parking brake is not released when the accelerator pedal is depressed, release the parking brake manually.

When the shift position is shifted from P, the parking brake will be released automatically.

n Parking brake automatic lock function when hybrid system is off

The parking brake will be set automatically under the following conditions:

- The hybrid system is off
- Automatic mode ON
- The brake system warning light (Yellow) are not illuminated

n Parking brake automatic lock function when exiting the vehicle

The parking brake will be set automatically under the following conditions:

- The brake pedal is not depressed
- The driver's door is open
- The driver's seat belt is not fastened
- The malfunction indicator lamp and brake system warning light (Yellow) are not illuminated

n When the parking brake is not automatically set in the shift position N, such as when using car wash.

Parking brake automatic lock function when exiting the vehicle will be disabled by doing the following:

Refer to P.174

n If "Parking Brake Temporarily Unavailable" is displayed on the multi-information display

If the parking brake is operated repeatedly over a short period of time, the system may restrict operation to prevent overheating. If this happens, refrain from operating the parking brake. Normal operation will return after about 1 minute.

n If "EPB Activation Stopped Incompletely" or "Parking Brake Unavailable" is displayed on the multi-information display

Operate the parking brake switch. If the message does not disappear after operating the switch several times, the system may be malfunctioning. Have the vehicle inspected by your Lexus dealer.

n Parking brake operation sound

When the parking brake operates, a motor sound (whirring sound) may be heard. This does not indicate a malfunction.

n Parking brake indicator light

- Depending on the power switch mode, the parking brake indicator light will turn on and stay on as described below:
  ON: Comes on until the parking brake is released.
  Not in ON: Stays on for approximately 15 seconds.
- When the power switch is turned off with the parking brake set, the parking brake indicator light will stay on for about 15 seconds. This does not indicate a malfunction.

n When the parking brake switch malfunctions

Automatic mode (automatic brake setting and releasing) will be turned on automatically.

n Parking the vehicle

→P.153

n Parking brake engaged warning buzzer

A buzzer will sound if the vehicle is driven with the parking brake engaged. "Parking Brake ON" is displayed on the multi-information display (with the vehicle reaching a speed of 3 mph [5 km/h]).

n If the brake system warning light (Yellow) comes on

→P.442

n Usage in winter time

→P.338

⚠ WARNING

n When parking the vehicle

Do not leave a child in the vehicle alone. The parking brake may be released unintentionally by a child and there is the danger of the vehicle moving that may lead to an accident resulting in death or serious injury.

n Parking brake switch

Do not set any objects near the parking brake switch. Also, do not place coins or other objects in the EPB finger slot. Interference between the switch and the object may lead to unintended activation/deactivation of the parking brake.

WARNING

n Parking brake automatic lock function

Never use the automatic parking brake engagement function in place of normal parking brake operation. This function is designed to reduce the risk of a collision due to the driver forgetting to engage the parking brake. Over-reliance on this function to park the vehicle safely may lead to an accident resulting in death or serious injury.

NOTICE

n When parking the vehicle

Before you leave the vehicle, shift the shift position to P, set the parking brake and make sure that the vehicle does not move.

n When the system malfunctions

Stop the vehicle in a safe place and check the warning messages.

n When the vehicle 12-volt battery is discharged

The parking brake system cannot be activated. (→P.480)

n When the parking brake cannot be released due to a malfunction

Driving the vehicle with the parking brake set will lead to brake components overheating, which may affect braking performance and increase brake wear. Have the vehicle inspected by your Lexus dealer immediately if this occurs.

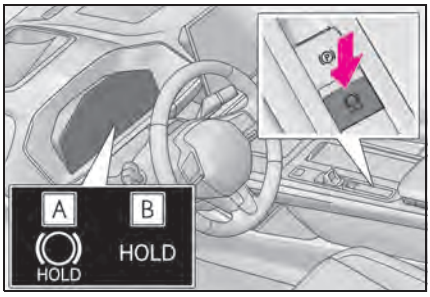
Brake Hold

The brake hold system keeps the brake applied when the shift position is in D, S, N or P with the system on and the brake pedal has been depressed to stop the vehicle. The system releases the brake when the accelerator pedal is depressed with the shift position in D or S to allow smooth start off.

Enabling the system

Turns the brake hold system on

The brake hold standby indicator (green) A comes on. While the system is holding the brake, the brake hold operated indicator (yellow) B comes on.



n Brake hold system operating conditions

The brake hold system cannot be turned on in the following conditions:

- The driver's door is not closed.
- The driver is not wearing the seat belt.
- "EPB Activation Stopped Incompletely" or "Parking Brake Malfunction Visit Your Dealer" is displayed on the multi-information display.

If any of the conditions above are detected when the brake hold system is enabled, the brake hold standby indicator light will go off

and the brake hold function may not hold the vehicle. If it detects that the driver's door is not closed or that the driver is not wearing the seat belt while the system is holding the brakes, a warning buzzer sounds and a message is shown on the multi-information display. The parking brake will then be set automatically.

The ON and OFF settings for the brake hold system are maintained even when the power switch is turned OFF.

n Brake hold function

- When the brake hold standby indicator light (green) is off, the brakes cannot be held.
- If the brake pedal is left released for a period of about 3 minutes after the system has started holding the brake, the parking brake will be set automatically. In this case, a warning buzzer sounds and a message is shown on the multi-information display.
- To turn the system off while the system is holding the brake, firmly depress the brake pedal and press the button again.
- The brake hold function may not hold the vehicle when the vehicle is on a steep incline. In this situation, it may be necessary for the driver to apply the brakes. A warning buzzer will sound and the multi-information display will inform the driver of this situation. If a warning message is shown on the multi-information display, read the message and follow the instructions.
- When do not wish for the parking brake to operate automatically, press and hold the brake hold switch until the standby indicator (green) turns off, and then turn the power switch off.

n When the parking brake is set automatically while the system is holding the brakes

Perform any of the following operations to release the parking brake.

- Depress the accelerator pedal. (The parking brake will not be released automatically if the seat belt is not fastened.)
- Operate the parking brake switch with the brake pedal depressed.

Make sure that the parking brake indicator light goes off. (→P.176)

n When an inspection at your Lexus dealer is necessary

When the brake hold standby indicator (green) does not illuminate even when the brake hold switch is pressed with the brake hold system operating conditions met, the system may be malfunctioning. Have the vehicle inspected at your Lexus dealer.

n If "Brake Hold Malfunction Visit Your Dealer" is displayed on the multi-information display

The system may be malfunctioning. Have the vehicle inspected by your Lexus dealer.

n Warning messages and buzzers

Warning messages and buzzers are used to indicate a system malfunction or to inform the driver of the need for caution. If a warning message is shown on the multi-information display, read the message and follow the instructions.

n If the brake hold operated indicator flashes

→P.442

⚠ WARNING

n Please turn off the brake hold system in the following situations.

- On a steep incline
- On a slippery road
- When using an automatic car washes
- When being towed by another vehicle

NOTICE

n When parking the vehicle

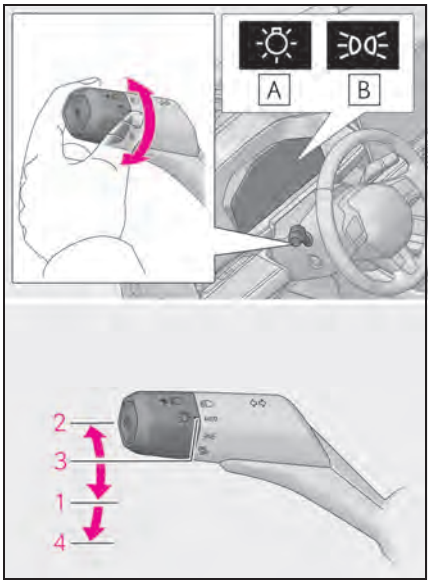
The brake hold system is not designed for use when parking the vehicle for a long period of time. Turning the power switch off while the system is holding the brake may release the brake, which would cause the vehicle to move. When operating the power switch, depress the brake pedal, shift the shift position to P and set the parking brake.

Headlight switch

The headlights can be operated manually or automatically.

Turning on the headlights

Operating the switch turns on the lights as follows:



A U.S.A.

B Canada

1 The side marker, parking lights/daytime running lights (→P.182), tail, license plate and instrument panel lights turn on.

2 The headlights and all the lights listed above (except daytime running lights) turn on.

3 AUTO The headlights, parking lights/daytime running lights (→P.182) and all the lights listed above turn on and off automatically.

4 DRL OFF (U.S.A.) Off

n **AUTO mode can be used when**

The power switch is in ON.

n **Daytime running light system**

- The daytime running lights illuminate using the same lights as the parking lights and illuminate brighter than the parking lights.
- To make your vehicle more visible to other drivers during daytime driving, the daytime running lights turn on automatically when all of the following conditions are met. (The daytime running lights are not designed for use at night.)
  - The hybrid system is operating
  - The parking brake is released
  - The headlight switch is in the or AUTO* position

*: When the surroundings are bright

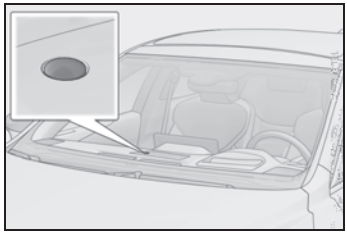
The daytime running lights remain on after they illuminate, even if the parking brake is set again.

- For the U.S.A.: Daytime running lights can be turned off by operating the headlight switch to DRL OFF position.
- Compared to turning on the headlights, the daytime running light system offers greater durability and consumes less electricity, so it can help improve electricity consumption.

n **Headlight control sensor**

The sensor may not function properly if an object is placed on the sensor, or anything that blocks the sensor is affixed to the windshield.

Doing so interferes with the sensor detecting the level of ambient light and may cause the automatic headlight system to malfunction.



n Automatic light off system

- When the headlights are on: The headlights and tail lights turn off 30 seconds after a door is opened and closed if the power switch is turned off. (The lights turn off immediately if on the key is pressed after all the doors are locked.)
- When only the tail lights are on: The tail lights turn off automatically if the power switch is turned off and the driver's door is opened.

To turn the lights on again, turn the power switch to ON, or turn the light switch to AUTO position once and then back to or position.

n Light reminder buzzer

A buzzer sounds when the power switch is turned ACC or OFF and the driver's door is opened while the lights are turned on.

n Windshield wiper linked headlight illumination

When driving during daytime with the headlight switch turned to AUTO, if the windshield wipers are used, the headlights will turn on automatically after several seconds to help enhance the visibility of your vehicle.

n 12-volt battery-saving function

In order to prevent the 12-volt battery of the vehicle from discharging, if the headlights and/or tail lights are on when the power switch is turned off the 12-volt battery saving function will operate and automatically turn off all the lights after approximately 10 minutes.

When the power switch is turned to ON, the 12-volt battery-saving function will be disabled.

When any of the following are performed, the 12-volt battery-saving function is canceled once and then reactivated. All the lights will turn off automatically 10 minutes after the 12-volt battery-saving function has been reactivated:

- When the headlight switch is operated
- When a door is opened or closed

n Welcome light illumination control

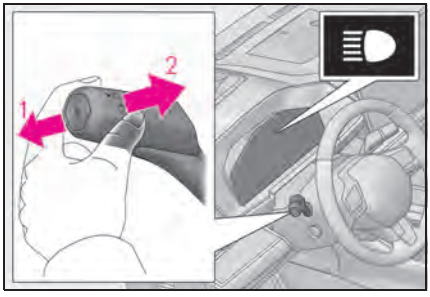
The parking lights, tail lights and license plate lights automatically turn on at night when the doors are unlocked using the entry function or wireless remote control if the light switch is in the AUTO position.

n Customization

Some functions can be customized. (→P.517)

> **NOTICE**
>
> **n To prevent 12-volt battery discharge**
>
> Do not leave the lights on longer than necessary when the hybrid system is not operating.

Turning on the high beam headlights



1 With the headlights on, push the lever away from you to turn on the high beams.

Pull the lever toward you to the center position to turn the high beams off.

2 Pull the lever toward you and release it to flash the high beams

once.

You can flash the high beams with the headlights on or off.

AHB (Automatic High Beam)

The Automatic High Beam uses a front camera located on the upper portion of the windshield to detect the brightness of the lights of vehicles ahead, streetlights, etc., and automatically changes the headlights between the high beams and low beams.

⚠ WARNING

n For safe use

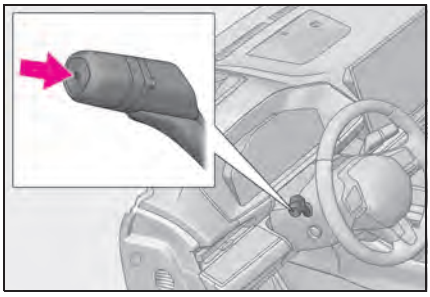
Do not overly rely on the Automatic High Beam. Always drive safely, taking care to observe your surroundings and turning the high beams on or off manually if necessary.

n To prevent unintentional operation of the Automatic High Beam

When it is necessary to disable the system: →P.198

Using the Automatic High Beam

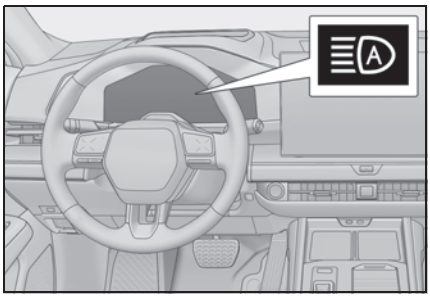
1 Press the Automatic High Beam switch.



2 Turn the headlight switch to the AUTO or position.

When the lever is in the original position,

the Automatic High Beam is activated and AHB indicator turns on.



Indicators and system operating state

The operating state of the Automatic High Beam is indicated.

Indicator	Situation
White	Automatic High Beam is on standby
Green	In control with low beam
Green	In control with high beam

n Automatic operating conditions of the high beams

l When all of the following conditions are met, the high beams will illuminate automatically:
- For Canada: The vehicle speed is approximately 19 mph (30 km/h) or more.
- Except for Canada: The vehicle speed is approximately 24 mph (39 km/h) or more.
- The area ahead of the vehicle is dark.
- There are no vehicles ahead with lights on.
- There are few streetlights or other lights on the road ahead.

l If any of the following conditions are met, the headlights will change to the low beams:
- For Canada: Vehicle speed is approximately 16 mph (25 km/h) or lower.
- Except for Canada: Vehicle speed is approximately 21 mph (34 km/h) or lower.
- The area ahead of the vehicle is not dark.
- There is a vehicle ahead with lights on.
- There are many streetlights or other lights on the road ahead.

n Front camera detection

l In the following situations, the high beams may not be automatically changed to the low beams:
- When a vehicle cuts in front of your vehicle
- When another vehicle crosses in front of the vehicle
- When vehicles ahead are repeatedly detected and then hidden due to repeated curves, road dividers or roadside trees
- When a vehicle ahead approaches from a far lane
- When a vehicle ahead is far away
- When a vehicle ahead has no lights
- When the lights of a vehicle ahead are dim
- When a vehicle ahead is reflecting strong light, such as the headlights of your vehicle
- When a vehicle ahead is facing sideways or diagonally
- When there are multiple self-luminous light sources or reflective objects around a vehicle ahead
- Situations in which the sensors and the systems may not operate properly: →P.203

l The headlights may change to the low beams if a vehicle ahead that is using fog lights without its headlights turned on is detected.

l House lights, street lights, traffic signals, and illuminated billboards or signs and other reflective objects may cause the high beams to change to the low beams, or the low beams to remain on.

l The following may change the timing at which the headlights change to the low

beams:
- The brightness of lights of vehicles ahead
- The movement and direction of vehicles ahead
- The distance between the vehicle and a vehicle ahead
- The relative speed to the preceding vehicle and speed of the vehicle
- When a vehicle ahead only has lights illuminated on one side
- When a vehicle ahead is a two-wheeled vehicle
- The condition of the road (gradient, curve, condition of the road surface, etc.)
- The number of passengers and amount of luggage

| The headlights may change between the high beams and low beams unexpectedly.

| Bicycles and other small vehicles may not be detected.

| In the following situations, the system may not be able to correctly detect the brightness of the surroundings. This may cause the low beams to remain on or the high beams to flash or dazzle pedestrians or vehicles ahead. In such a case, it is necessary to manually change between the high beams and low beams.
- When there are lights similar to headlights or tail lights in the surrounding area
- When headlights or tail lights of vehicles ahead are turned off, dirty, changing color, or not aimed properly
- When the headlights are repeatedly changing between the high beams and low beams.
- When use of the high beams is inappropriate or when the high beams may be flashing or dazzling pedestrians or other drivers.
- When the vehicle is used in an area in which vehicles travel on the opposite side of the road of the country for which the vehicle was designed, for example using a vehicle designed for right-hand traffic in a left-hand traffic area, or vice versa
- When it is necessary to disable the system: →P.198
- Situations in which the sensors and the systems may not operate properly: →P.203

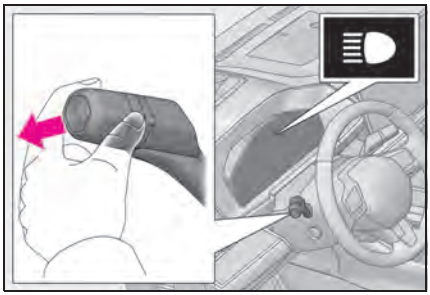
Turning the high beams on/off manually

n Changing to the high beams

1 Push the lever forward.

The high beam indicator will turn on.

Pull the lever rearward and then return it to its original position to enable the Automatic High Beam again.

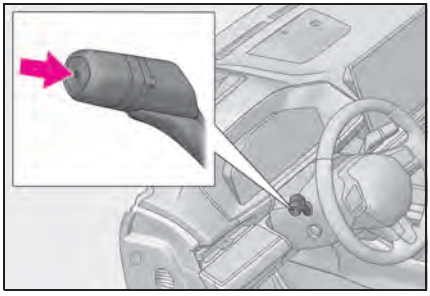


n Changing to the low beams

1 Press the Automatic High Beam switch.

The AHB indicator will turn off.

Press the switch to enable the Automatic High Beam again.



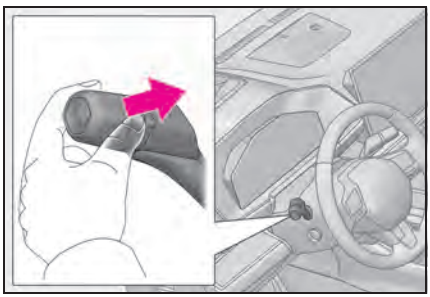
Temporarily changing to the low beams

It is recommended to switch to the low beams when use of the high beams is inappropriate or when the high beams may cause problems or distress to

other drivers or pedestrians nearby.

1 Pull the lever rearward and then return it to its original position.

The high beams will illuminate while the lever is pulled, however, after the lever is returned to its original position, the low beams will remain on for a certain amount of time. After this, the Automatic High Beam will operate.



Windshield wipers and washer

Operating the lever can switch between automatic operation and manual operation, or can use the washer.

NOTICE

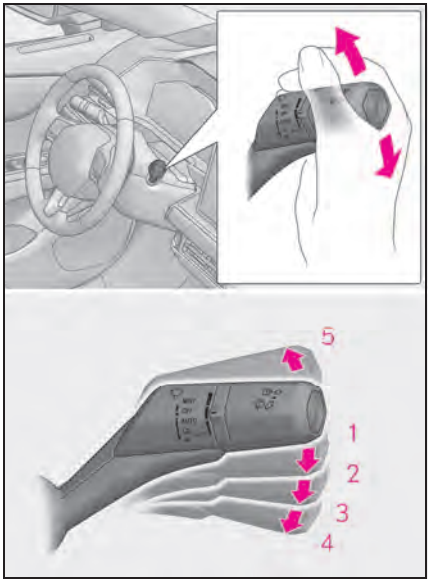
n When the windshield is dry

Do not use the wipers, as they may damage the windshield.

Operating the wiper lever

Operating the lever operates the wipers or washer as follows.

When AUTO is selected, the wipers will operate automatically when the sensor detects falling rain. The system automatically adjusts wiper timing in accordance with rain volume and vehicle speed.



1 OFF (U.S.A.) or O (Canada)
Off

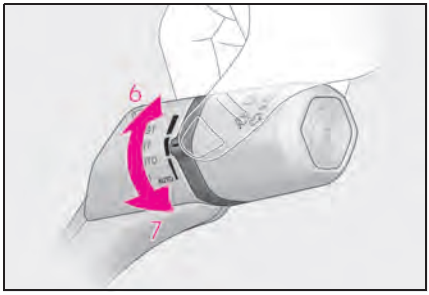
2 AUTO Rain-sensing wiper operation

3 LO (U.S.A.) or ▼ (Canada)
Low speed operation

4 HI (U.S.A.) or ▼▼ (Canada)
High speed operation

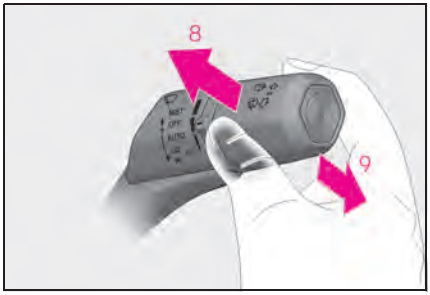
5 MIST (U.S.A.) or △ (Canada)
Temporary operation

When AUTO is selected, the sensor sensitivity can be adjusted by turning the switch ring.



6 Increases the sensitivity

7 Decreases the sensitivity



8 Washer/wiper dual operation

Pulling the lever operates the wipers and washer.

The wipers will automatically operate a couple of times after the washer squirts. (After operating several times, the wipers operate once more time after a short delay to prevent dripping. However, the dripping prevention does not operate while the vehicle is moving.)

Vehicles with headlight cleaners: When the power switch is ON and the headlights are on, if the lever is pulled, the headlight cleaners will operate once. After this, the headlight cleaners will operate every 5th time the lever is pulled.

9 Rear camera washer operation

Pushing the lever operates the rear camera washer and cleans the rear camera and

the camera for the Digital Rear-view Mirror (if equipped).

n The windshield wiper and washer can be operated when

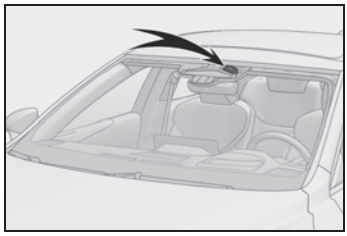
The power switch is ON.

n Effects of vehicle speed on wiper operation

With low speed windshield wiper operation selected, wiper operation will be switched from low speed to intermittent wiper operation only when the vehicle is stationary. (However, when the sensor sensitivity is adjusted to the highest level, the mode cannot be switched.)

n Raindrop sensor

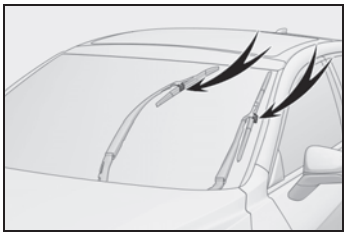
- The raindrop sensor judges the amount of raindrops.
  An optical sensor is adopted. It may not operate properly when sunlight from the rising or setting of the sun intermittently strikes the windshield, or if bugs etc. are present on the windshield.



- If the wiper switch is turned to AUTO position while the power switch is ON, the wipers will operate once to show that AUTO mode is activated.
- When AUTO is selected and the sensor detects falling rain, if the wiper sensitivity is adjusted to higher, the wiper will operate once to indicate the change of sensitivity.
- If the temperature of the raindrop sensor is 185°F (85°C) or higher, or 5°F (-15°C) or lower, automatic operation may not occur. In this case, operate the wipers in any mode other than AUTO.

n If no washer fluid sprays

Check that the washer nozzles are not blocked if there is washer fluid in the washer fluid reservoir.



n Front door opening linked windshield wiper stop function

When AUTO is selected and the windshield wipers are operating, if a front door is opened while the vehicle is stopped and the P position is selected, operation of the windshield wipers will be stopped to prevent anyone near the vehicle from being sprayed by water from the wipers. When the front door is closed, wiper operation will resume.

WARNING

n Caution regarding the use of windshield wipers in AUTO mode

The windshield wipers may operate unexpectedly if the sensor is touched or the windshield is subject to vibration in AUTO mode. Take care that your fingers or anything else do not become caught in the windshield wipers.

n Caution regarding the use of washer fluid

When it is cold, do not use the washer fluid until the windshield becomes warm. The fluid may freeze on the windshield and cause low visibility. This may lead to an accident, resulting in death or serious injury.

NOTICE

n When there is no washer fluid spray from the nozzle

Damage to the washer fluid pump may be caused if the lever is pulled toward you and held continually.

n When a nozzle becomes blocked

In this case, contact your Lexus dealer. Do not try to clear it with a pin or other object. The nozzle will be damaged.

n To prevent 12-volt battery discharge

Do not leave the wipers on longer than necessary when the hybrid system is off.

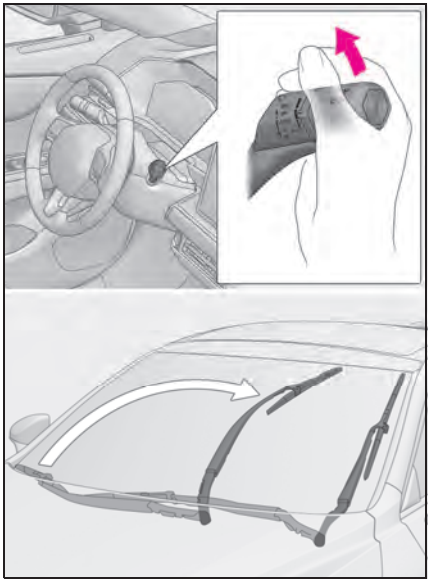
Changing the windshield wiper rest position/Lifting the windshield wipers

When the windshield wipers are not being used, they retract to below the hood. To enable the windshield wipers to be lifted when parking in cold conditions or when replacing a windshield wiper insert, change the rest position of the windshield wipers to the service position using the wiper lever.

n Raising the wipers to the service position

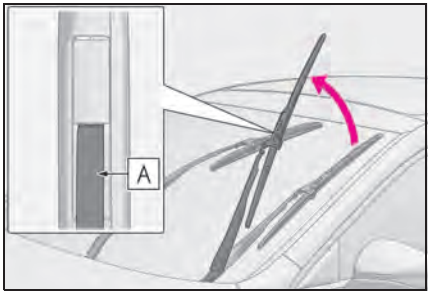
Within approximately 45 seconds of turning the power switch off, move the wiper lever to the MIST (U.S.A.) or △ (Canada) position and hold it for approximately 2 seconds or more.

The wipers will move to the service position.



n Lifting the windshield wipers

While holding the hook portion of the wiper arm, lift the windshield wiper from the windshield.



A Hook portion

n Lowering the windshield wipers to the retracted position

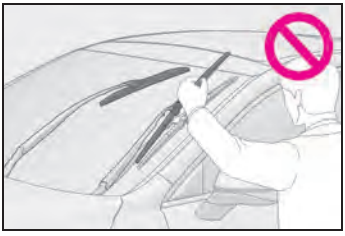
With the windshield wipers placed on the windshield, turn the power switch to ON and then move the wiper lever to an operating position. When the wiper switch is turned off, the windshield wipers will stop at the retracted position.

NOTICE

n **When lifting the windshield wipers**

l Do not lift the windshield wipers when they are in the retracted position below the hood. Otherwise, they may contact the hood, possibly resulting in damage to a windshield wiper and/or the hood.

l Do not lift a windshield wiper by the wiper blade. Otherwise, the wiper blade may be deformed.



l Do not operate the wiper lever when the windshield wipers are lifted. Otherwise, the windshield wipers may contact the hood, possibly resulting in damage to the windshield wipers and/or hood.

Opening the fuel tank cap

The fuel tank of your vehicle has a special structure, which requires a reduction in fuel tank pressure before refueling. After the opener switch has been pressed, it will take several seconds until the vehicle is ready for refueling.

Before refueling the vehicle

- Close all the doors and windows, and turn the power switch off.
- Confirm the type of fuel.

n **Fuel types**

→P.499

n **Fuel tank opening for unleaded gasoline**

To help prevent incorrect fueling, your vehicle has a fuel tank opening that only accommodates the special nozzle on unleaded fuel pumps.

n **If the malfunction indicator lamp illuminates**

The malfunction indicator lamp may illuminate erroneously if refueling is performed repeatedly when the fuel tank is nearly full.

WARNING

n **When refueling the vehicle**

Observe the following precautions while refueling the vehicle. Failure to do so may result in death or serious injury.

- After exiting the vehicle and before opening the fuel door, touch an unpainted metal surface to discharge any static electricity. It is important to discharge static electricity before refueling because sparks resulting from static electricity can cause fuel vapors to ignite while refueling.
- Always hold the grips on the fuel tank cap and turn it slowly to remove it. A whooshing sound may be heard when the fuel tank cap is loosened. Wait until the sound cannot be heard before fully removing the cap. In hot weather, pressurized fuel may spray out the filler neck and cause injury.
- Do not allow anyone that has not discharged static electricity from their body to come close to an open fuel tank.
- Do not inhale vaporized fuel. Fuel contains substances that are harmful if inhaled.
- Do not smoke while refueling the vehicle. Doing so may cause the fuel to ignite and cause a fire.
- Do not return to the vehicle or touch any person or object that is statically charged. This may cause static electricity to build up, resulting in a possible ignition hazard.

n **When refueling**

Observe the following precautions to prevent fuel overflowing from the fuel tank:

- Securely insert the fuel nozzle into the fuel filler neck.
- Stop filling the tank after the fuel nozzle automatically clicks off.
- Do not top off the fuel tank.

NOTICE

n **Refueling**

- Finish refueling within 30 minutes. If more than 30 minutes passes, the internal valve closes. In this condition, fuel may overflow during the refueling process. Press the fuel filler door opener switch again.

NOTICE

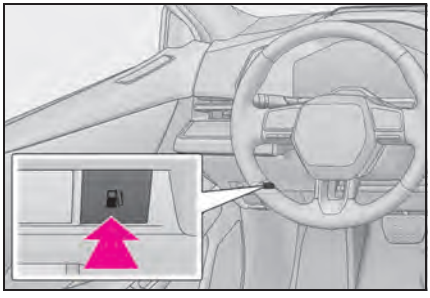
- Do not spill fuel during refueling. Doing so may damage the vehicle, such as causing the emission control system to operate abnormally or damaging fuel system components or the vehicle's painted surface.
- Make sure that the fuel filler door lock is not pushed by the fuel nozzle boot, etc. If the lock is held, the internal valve closes and fuel may overflow. To prevent it, press the fuel filler door opener switch again.



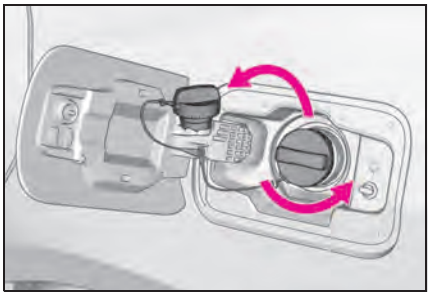
Opening the fuel tank cap

1 Press the opener switch to open the fuel filler door.

The fuel filler door will open within about 10 seconds of the switch being pressed. Before refueling is possible, a message will be shown on the multi-information display in the instrument cluster to indicate the progress of the fuel filler door opener.



2 Turn the fuel tank cap slowly and remove it, then hang it on the back of the fuel filler door.

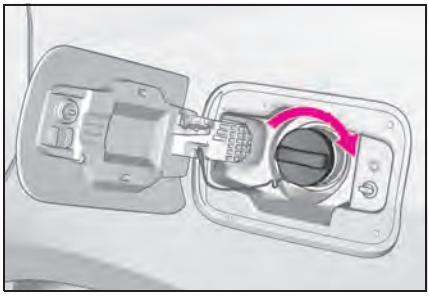


n **If the fuel filler door cannot be opened**

Consult your Lexus dealer.

Closing the fuel tank cap

After refueling, turn the fuel tank cap until you hear a click. Once the cap is released, it will turn slightly in the opposite direction.



n **When "Check Fuel Cap" is displayed on the multi-information display**

The fuel tank cap may be unfastened or loose. Turn the power switch off, check the cap and tighten it securely. If the message remains, wait a few seconds and then turn the power switch off once again.

WARNING

n When replacing the fuel tank cap

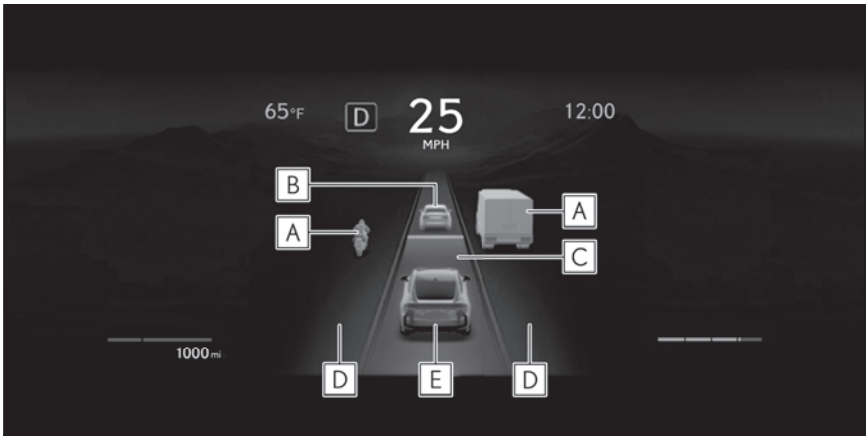
Do not use anything but a genuine Lexus fuel tank cap designed for your vehicle. Doing so may cause a fire or other incident which may result in death or serious injury.

Driving support system information

The multi-information display (→P.88) shows the status of your lane and adjacent lanes, the movement of your vehicle and the operation status of certain systems.

Driving support system information display

n **Driving support system information display screen**



The illustration is only an example and may differ from the actual display of the screen.

A Vehicles around your vehicle

B Preceding vehicle

C Your lane

D Adjacent lanes

E Your vehicle

n **Displayed system**

The operating state of the following system is displayed.

Refer to the item for each system for the display details.

● LTA (Lane Tracing Assist)

→P.218

● LCA (Lane Change Assist)*

→P.223

- LDA (Lane Departure Alert)

→P.227

- PDA (Proactive Driving Assist)

→P.235

- Dynamic radar cruise control

→P.243

- Traffic Jam Assist*

→P.260

- BSM (Blind Spot Monitor)

→P.265

*: If equipped

n **Display of surrounding conditions**

Information for adjacent lanes may not be displayed when the vehicle speed is low or depending on surrounding conditions.

WARNING

n **For safe use**

All of surrounding vehicles and conditions are not necessarily displayed on the multi-information display. Drivers should not rely solely on information on the display, and drive safely by always paying careful attention to their surroundings.

Disabled and restricted systems

The following operations may disabled the system or restricted the system on some functions.
"Some Driving Assist Systems Are Deactivated" or "Some Driving Assist Systems Have Reduced Functionality" is displayed on the multi-information display.

For systems that list an icon, the icon appears with a message.

Operations	Disabled systems	Restricted systems on some functions
Turn off the PCS (Pre-Collision System) (→P.218)	PDA (Proactive Driving Assist) (→P.235) Emergency Driving Stop System (→P.258)	LDA (Lane Departure Alert) (→P.227)
Turn off the VSC (→P.332)	LDA (Lane Departure Alert) (→P.227) PDA (Proactive Driving Assist) (→P.235) Emergency Driving Stop System (→P.258)	PCS (Pre-Collision System) (→P.208)
Turn off the TRAC (→P.332)	PDA (Proactive Driving Assist) (→P.235)	LDA (Lane Departure Alert) (→P.227)
Turn off the Driver Monitor Camera* (→P.207)	—	LTA (Lane Tracing Assist) (→P.218) Dynamic radar cruise control (→P.243)
Fold the outside rear view mirrors (→P.137)	RCTA (Rear Cross Traffic Alert) (→P.283) PKSB (Parking Support Brake)* (→P.291)	—
Open the trunk (→P.115)	RCD (Rear Camera Detection)* (→P.288) PKSB (Parking Support Brake)* (→P.291)	—
Open the side doors (→P.110)	PKSB (Parking Support Brake)* (→P.291)	—
Unfasten seat belt (→P.28)	PDA (Proactive Driving Assist) (→P.235)	—

*: If equipped

Lexus Safety System + 4.0

The Lexus Safety System + 4.0 consists of the driving assist systems and contributes to a safe and comfortable driving experience:

WARNING

n Lexus Safety System + 4.0

The Lexus Safety System + 4.0 operates under the assumption that the driver will drive safely, and is designed to help reduce the impact to the occupants in a collision and assist the driver under normal driving conditions.

As there is a limit to the degree of recognition accuracy and control performance that this system can provide, do not overly rely on this system. The driver is solely responsible for paying attention to the vehicle's surroundings and driving safely.

n For safe use

- Do not overly rely on this system. The driver is solely responsible for paying attention to the vehicle's surroundings and driving safely. This system may not operate in all situations and provided assistance is limited. Over-reliance on this system to drive the vehicle safely may lead to an accident resulting in death or serious injury.
- Do not attempt to test the operation of the system, as it may not operate properly, possibly leading to an accident.
- If attention for a driving operation becomes necessary, a warning message or warning buzzer will be operated as an alert. If a warning message is displayed on the display, follow the instructions displayed on the screen and take appropriate actions according to the surrounding conditions.
- If a system malfunction occurs, a warning message or warning buzzer will be operated as an alert. If a warning message is displayed, follow the instructions displayed on the screen. (→P.452)
- Depending on external noise, the volume of the audio system, etc. it may be difficult to hear the warning buzzer. Also, depending on the road conditions, it may be difficult to recognize the operation of the system.

n When it is necessary to disable the system

- In the following situations, make sure to disable the system.
- Failure to do so may lead to the system not operating properly, possibly leading to an accident resulting in death or serious injury.
- When the vehicle is tilted due to being overloaded or having a flat tire
- When driving at extremely high speeds
- When towing another vehicle
- When the vehicle is being transported by a truck, ship, train, etc.
- When the vehicle is raised on a lift and the tires are allowed to rotate freely
- When inspecting the vehicle using a drum tester such as a chassis dynamometer or speedometer tester, or when using an on vehicle wheel balancer
- When the vehicle is driven in a sporty manner or off-road
- When using an automatic car wash
- When a sensor is misaligned or deformed due to a strong impact being applied to the sensor or the area around the sensor

WARNING

- When accessories which obstruct a sensor or light are temporarily installed to the vehicle
- When a compact spare tire or tire chains are installed to the vehicle or an emergency tire puncture repair kit has been used
- When the tires are excessively worn or the inflation pressure of the tires is low
- When tires other than the manufacturer specified size are installed
- When the vehicle cannot be driven stably, due to a collision, malfunction, etc.

Driving assist systems

n **AHB (Automatic High Beam)**

→P.184

n **PCS (Pre-Collision System)**

→P.208

n **LTA (Lane Tracing Assist)**

→P.218

n **LDA (Lane Departure Alert)**

→P.227

n **LCA (Lane Change Assist)***

→P.223

*: If equipped

n **FCTA (Front Cross Traffic Alert)***

→P.239

*: If equipped

n **PDA (Proactive Driving Assist)**

→P.235

n **RSA (Road Sign Assist)**

→P.241

n **Dynamic radar cruise control**

→P.243

n **Cruise control**

→P.255

n **Emergency Driving Stop System**

→P.258

n **Traffic Jam Assist***

→P.260

*: If equipped

n **Driver monitor***

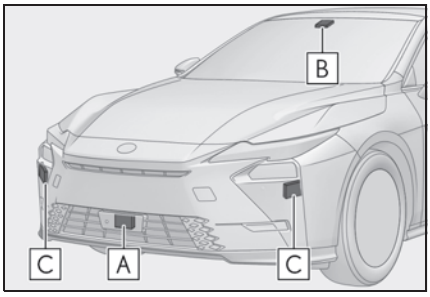
→P.206

*: If equipped

Sensors used by Lexus Safety System + 4.0

Various sensors are used to obtain the necessary information for system operation.

n **Sensors which detect the surrounding conditions**

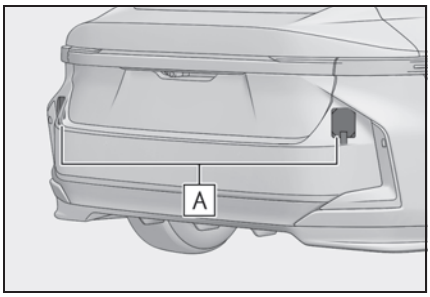


A Front radar sensor

B Front camera

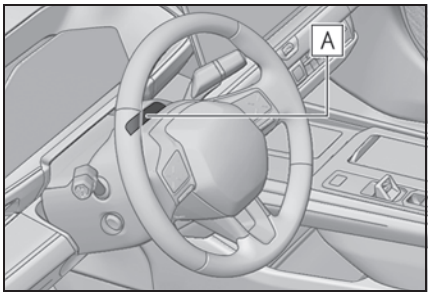
C Front side radar sensors*

*: If equipped



A Rear side radar sensors

n Sensors which detect the driver condition



A Driver monitor camera*

*: If equipped

WARNING

n To prevent malfunction of the radar sensors

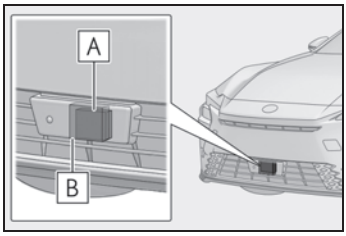
Observe the following precautions.

Failure to do so may lead to a radar sensor not operating properly, possibly leading to an accident resulting in death or serious injury.

- Keep the radar sensors and radar sensor covers clean at all times.

Clean the front of a radar sensor or the front or back of a radar sensor cover if it is dirty or covered with water droplets, snow, etc.

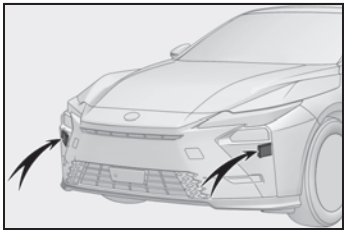
When cleaning the radar sensor and radar sensor cover, use a soft cloth to remove dirt so as to not damage them.



A Radar sensor

B Radar sensor cover

- Vehicles with front side radar sensors: Keep the surrounding area of the front side radar sensors on the front bumper clean at all times.



- Do not attach accessories, stickers (including transparent stickers), aluminum tape, etc. to a radar sensor or radar sensor cover and their surrounding area.
- Do not install accessories (bull bars, license plate covers, grill badges, etc.) or license plates that interfere with radar waves.

WARNING

- Do not subject a radar sensor or its surrounding area to impact.
  If a radar sensor, the front grille, front bumper, or rear bumper has been subjected to a impact, have the vehicle inspected by your Lexus dealer.
- Do not disassemble the radar sensors.
- Do not modify or paint the radar sensors or radar sensor cover, or replace them with anything other than Lexus genuine parts.
- In the following situations, recalibration of the radar sensors will be necessary. For details, contact your Lexus dealer.
  - When a radar sensor is removed and installed, or replaced
  - When the front bumper, the rear bumper, or the front grille has been replaced

Radar sensor cover with a heater (if equipped)

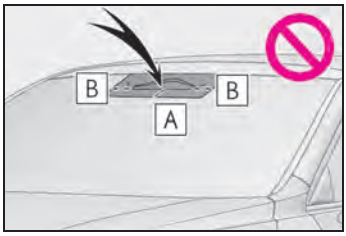
When the system determines that snow may pile up over the radar sensor cover, the heater will operate automatically. If the area around the radar sensor cover is to be touched, such as during cleaning, make sure that the radar sensor cover is cool enough to prevent burns.

To prevent malfunction of the front camera

Observe the following precautions.

Failure to do so may lead to the front camera not operating properly, possibly leading to an accident resulting in death or serious injury.

- Always keep the windshield clean.
  - If the windshield is dirty or covered with an oily film, water droplets, snow, etc., clean the windshield.
  - Even if a glass coating agent is applied to the windshield, it will still be necessary to use the windshield wipers to remove water droplets, etc. from the area of the windshield in front of the front camera.
  - If the inner side of the windshield where the front camera is installed is dirty, contact your Lexus dealer.
- Do not attach stickers (including transparent stickers) or other items to the area of the windshield in front of the front camera (shaded area in the illustration).



A Approximately 1.6 in. (4 cm)

B Approximately 1.6 in. (4 cm)

- If the part of the windshield in front of the front camera is fogged up or covered with condensation or ice, use the windshield defogger to remove the fog, condensation, or ice.
- If water droplets cannot be properly removed from the area of the windshield in front of the front camera by the windshield wipers, replace the wiper insert or wiper blade.
- Do not attach window tint to the windshield.
- Replace the windshield if it is damaged or cracked.
  If the windshield has been replaced, recalibration of the front camera will be necessary. For details, contact your Lexus dealer.
- Do not allow liquids to contact the front camera.

WARNING

- Do not allow bright lights to shine into the front camera.
- Do not damage the lens of the front camera or allow it to become dirty. When cleaning the inside of the windshield, do not allow glass cleaner to contact the lens of the front camera. Do not touch the lens of the front camera.
  If the lens of the front camera is dirty or damaged, contact your Lexus dealer.
- Do not subject the front camera to a strong impact.
- Do not change the position or orientation of the front camera or remove it.
- Do not disassemble the front camera.
- Do not modify any parts around the front camera, such as the inside rear view mirror or ceiling.
- Do not attach accessories which may obstruct the front camera to the hood, front grille, or front bumper. For details, contact your Lexus dealer.
- If a surfboard or other long object is to be mounted on the roof, make sure that it will not obstruct the front camera.
- Do not modify or change the headlights and other lights.

n Front camera installation area on the windshield

If the system determines that the windshield may be fogged up, it will automatically operate the heater to defog the part of the windshield around the front camera. When cleaning, etc., be careful not to touch the area around the front camera until the windshield has cooled sufficiently, as touching it may cause burns.

n Precautions for the driver monitor camera (if equipped)

Observe the following precautions.

Failure to do so may lead to malfunction of the driver monitor camera and the systems not operating properly, possibly leading to an accident resulting in death or serious injury.

- Do not subject the driver monitor camera or its surrounding area to strong impact.

If subjected to a strong impact, the driver monitor camera may move out of alignment and the driver may no longer be detected correctly. In this case, have the vehicle inspected by your Lexus dealer.

- Do not disassemble or modify the driver monitor camera.
- Do not attach accessories, stickers (including transparent stickers), etc. to the driver monitor camera or its surrounding area.
- Do not allow the driver monitor camera or its surrounding area to get wet.
- Do not cover the driver monitor camera or place anything in front of it.
- Keep the lens of the driver monitor camera free from damage.
- Do not touch the lens of the driver monitor camera or allow it to become dirty.

When there is dirt or fingerprints on the camera lens, clean it with a dry, soft cloth so as to not mark or damage it.

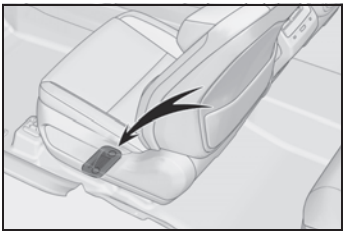
- When cleaning the lens, do not use detergents or organic solvents that may damage plastic.

n Air intake vent of LSS control unit

Observe the following precautions.

Failure to do so may lead to LSS control unit not operating properly, possibly leading to an accident resulting in death or serious injury.

WARNING



- Do not block the air intake vent.
- Do not allow water or foreign objects to enter the air intake vent.

n Precautions for use

It is necessary to enter a connected services contract, provided by Lexus, to use these functions. For details, contact your Lexus dealer.

- Dynamic radar cruise control: Extended resume time (if equipped)

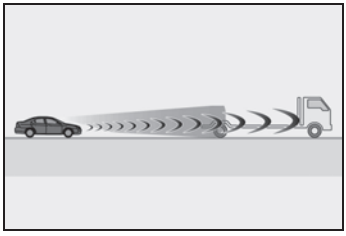
→P.245

- Traffic Jam Assist (if equipped)

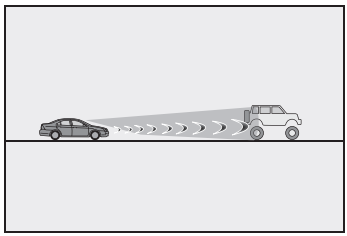
→P.260

n Situations in which the sensors and the systems may not operate properly

- When the height or inclination of the vehicle has been changed due to modifications
- When the windshield is dirty, fogged up, cracked or damaged
- When the ambient temperature is high or low
- When mud, water, snow, ice, insects, foreign matter, etc., is attached to the front of the sensor
- If a sensor is hit by a large amount of water, such as when driving on a flooded road
- When in inclement weather such as heavy rain, fog, snow, or a sandstorm
- When water, snow, dust, etc. is thrown up in front of the vehicle, or when driving through mist or smoke
- When the headlights are not illuminated while driving in the dark, such as at night or when in a tunnel
- When the lens of a headlight is dirty and illumination is weak
- When the headlights are misaligned
- When a headlight is malfunctioning
- When the headlights of another vehicle, sunlight, or reflected light shines directly into the front camera
- When the brightness of the surrounding area changes suddenly
- When driving near a TV tower, broadcasting station, electric power plant, radar equipped vehicles, etc., or other location where strong radio waves or electrical noise may be present
- When a wiper blade is blocking the front camera
- When driving on a truss bridge or other location with many steel structures.
- When in a location or near objects which strongly reflect radio waves, such as the following:
  - Tunnels
  - Gravel roads
  - Rutted, snow-covered roads
  - Walls
  - Large trucks
  - Manhole covers
  - Guardrail
  - Metal plates
- When near a step or protrusion
- When a detectable vehicle is narrow, such as a small mobility vehicle
- When a detectable vehicle has a small front or rear end, such as an unloaded truck
- When a detectable vehicle has a low front or rear end, such as a low bed trailer



- When a detectable vehicle has extremely high ground clearance



- When a detectable vehicle is carrying a load which protrudes from its cargo area
- When a detectable vehicle has little exposed metal, such as a vehicle which is partially covered with cloth, etc.
- When a detectable vehicle is irregularly shaped, such as a tractor, sidecar, etc.
- When the distance between the vehicle and a detectable vehicle has become extremely short
- When a detectable vehicle is at an angle
- When snow, mud, etc. is attached to a detectable vehicle
- When driving on the following kinds of roads:
  - Roads with sharp curves or winding roads
  - Roads with changes in grade, such as sudden inclines or declines
  - Roads which is sloped to the left or right
  - Roads with deep ruts
  - Roads which are rough and unmaintained
  - Roads which frequently undulate or are bumpy
- When the steering wheel is being operated frequently or suddenly
- When the vehicle is not in a constant position within a lane
- When parts related to this system, the brakes, etc. are cold or extremely hot, wet, etc.
- When the wheels are misaligned
- When driving on slick road surfaces, such as when it is covered with ice, snow, gravel, etc.
- When the course of the vehicle differs from the shape of a curve
- When the vehicle speed is excessively high when entering a curve
- When entering/exiting a parking lot, garage, car elevator, etc.
- When driving in a parking lot
- When driving through an area where there are obstructions which may contact your vehicle, such as tall grass, tree branches, a curtain, etc.
- When driving in strong wind

Situations in which the lane may not be detected

- When the lane is extremely wide or narrow
- Immediately after changing lanes or passing through an intersection
- When driving in a temporary lane or lane regulated by construction
- When there are structures, patterns, shadows which are similar to lane lines in the surrounding
- When there are multiple white lines for a lane line
- When the lane lines are not clear or driving on a wet road surface
- When a lane line is on a curb
- When driving on a bright, reflective road surface, such as concrete

Situations in which some or all of the functions of the system cannot operate

- When a malfunction is detected in this system or a related system, such as the brakes, steering, etc.
- When the VSC, TRAC, or other safety related system is operating
- When the VSC, TRAC, or other safety related system is off

Changes in brake operation sound and pedal response

- When the brakes have been operated, brake operation sounds may be heard and the brake pedal response may change, but this does not indicate a malfunction.
- When the system is operating, the brake pedal may feel stiffer than expected or

sink. In either situation the brake pedal can be depressed further. Further depress the brake pedal as necessary.

n Situations in which the driver monitor camera may not operate properly (if equipped)

In situations such as the following, the driver monitor camera may not be able to detect the driver's face, and the function may not operate properly.

- When the inside of the vehicle is hot, such as after the vehicle has been parked in the sun
- When a very bright light, such as the sun or the headlights of following vehicle, shines onto the driver monitor camera
- When the brightness inside the vehicle changes frequently due to the shadows of surrounding structures, etc.
- When a very bright light, such as the sun or the headlights of an oncoming vehicle, is shining onto the driver's face
- When light, either inside or outside of the vehicle, is being reflected from the lenses of eyeglasses or sunglasses
- When there are multiple faces in the detection range of the driver monitor camera, such as when a front or rear passenger is leaning toward the driver's seat
- When the driver's face is outside of the detection range of the driver monitor camera, such as when leaned forward or when their head is outside of the window
- When the driver monitor camera is being blocked by the steering wheel, a hand holding the steering wheel, an arm, etc.
- When the driver is wearing a hat
- When the driver is wearing an eyepatch
- When the driver is wearing eyeglasses or sunglasses that do not easily transmit infrared rays
- When the driver is wearing contact lenses
- When the driver is wearing a face mask
- When the driver is laughing or the driver's eyes are only slightly open
- When the driver's eyes, nose, mouth, or shape of their face is blocked
- When the driver is wearing makeup which makes it difficult to detect their eyes, nose, mouth, or shape of their face
- When the driver's eyes are blocked by the frame of eyeglasses, sunglasses, hair, etc.
- When there is a device inside the vehicle that radiates near infrared rays, such as a non-genuine driver monitoring system.

n Software Update

- The Data Communication Module (DCM) can be used to perform software updates to improve system performance and change functions.
- Before using this system, be sure to read the updated details.
- The functions may be partially limited while software update status is "Activate".

For details, refer to the "MULTIMEDIA OWNER'S MANUAL".

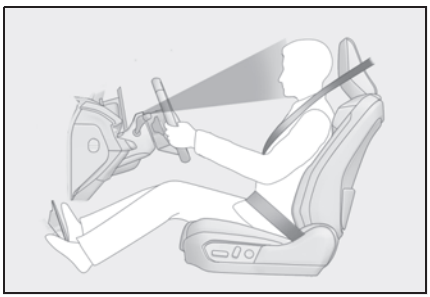
Driver monitor*

*: If equipped

Functions that use the driver monitor camera

During controlled driving, the driver monitor camera detects the position and direction the driver is facing, and whether their eyes are opened or closed, etc. Through this, the system determines if the driver is checking their surroundings and if the driver can perform driving operations.

In order to operate properly, the driver monitor camera requires an unobstructed view of the driver's face. If the steering column or seat position is either too high or too low, or if any other condition is present that obstructs the driver monitor camera's view of the driver's face, some driving support systems may not operate properly, or a warning message may be displayed.



n Warning function

In situations such as the following, a buzzer will sound and a message will be displayed to warn the driver.

- When the system determines that the driver is not paying attention to the road or their eyes are closed
- When the driver's face cannot be detected or the system determines that the driver has poor driving posture
- When the system determines that the driver shows signs of drowsiness.

When the position of the steering wheel/driver's seat is too high or too low, the driver monitor camera may not be able to recognize the whole face of the driver which can limit feature functionality and possibly trigger an alarm. Adjust the steering wheel/seat position to achieve a proper seating position where the whole meter is visible. Confirm proper seat belt routing, head restraint positioning, and appropriate distance from the steering wheel and frontal airbag as described in this manual. If the alarm continues even after making the recommended adjustments, contact your Lexus dealer.

n Face identification

As a function of the My Settings, the driver monitor camera is used as a face authentication device to identify individuals. (→P.149)

n Traffic Jam Assist (if equipped)

→P.260

n Collaboration with other driving assist systems

Some functions of the following driving assist systems are controlled based on

the driver's condition as detected by the driver monitor camera.

- PCS (Pre-Collision System) (→P.218)
- LDA (Lane Departure Alert) (→P.228)
- Dynamic radar cruise control (→P.250)

WARNING

n **For safe use**

l The warning function is not designed to prevent the driver from driving carelessly or having a poor driving posture. Pay careful attention to the surrounding conditions in order to ensure safe driving.

l The warning function cannot reduce drowsiness. If you feel unable to concentrate or drowsy, take a break and sleep as necessary in order to ensure safe driving.

n **Warning function**

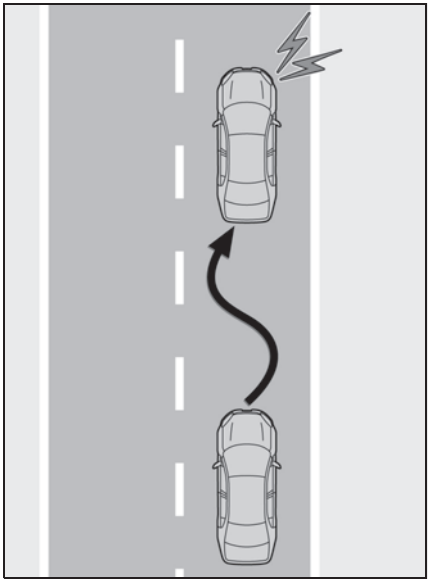
These functions may not operate when the vehicle speed is low.

n **Situations in which the driver monitor camera may not operate properly**

→P.205

Driver break suggestion function

If the vehicle is swaying, a message will be displayed and a buzzer will sound to urge the driver to take a break.



n **Driver break suggestion function**



This function is operable when all of the following conditions are met:

l The vehicle speed is approximately 32 mph (50 km/h) or more.

Depending on the condition of the vehicle and road surface, the driver break suggestion function may not operate.

Changing Driver Monitor setting

The settings of Driver Monitor can be changed through customize settings. (→P.520)

If Driver Monitor Camera setting is "OFF", the camera monitoring stops,

and all functions that use the driver monitor camera (→P.206) are disabled.

If Warning sensitivity setting is "OFF", the warning function (→P.206) is disabled but the camera monitoring continues for other functions.

PCS (Pre-collision system)

The pre-collision system uses sensors to detect objects (→P.209) in the path of the vehicle. When the system determines that the possibility of a frontal collision with a detectable object is high, a warning operates to urge the driver to take evasive action and the potential brake pressure is increased to help the driver avoid the collision. If the system determines that the possibility of a collision is extremely high, the brakes are automatically applied to help avoid the collision or help reduce the impact of the collision.

⚠ WARNING

n **For safe use**

l Driving safely is solely the responsibility of the driver. Pay careful attention to the surrounding conditions in order to ensure safe driving.
Never use the pre-collision system in place of normal braking operations. This system cannot help avoid or reduce the impact of a collision in every situation. Over-reliance on this system to drive the vehicle safely may lead to an accident resulting in death or serious injury.

l Although the pre-collision system is designed to help avoid or help reduce the impact of a collision, its effectiveness may change according to various conditions. Therefore, it may not always be able to achieve the same level of performance.
Read the following items carefully. Do not overly rely on this system and always drive carefully.

l For safe use: →P.198

WARNING

n **When to disable the pre-collision system**

l When it is necessary to disable the system: →P.198

Detectable objects

The system can detect the following as detectable objects. (Detectable objects differ depending on the function.)

- Vehicles
- Bicycles*
- Pedestrians
- Motorcycles*
- Walls

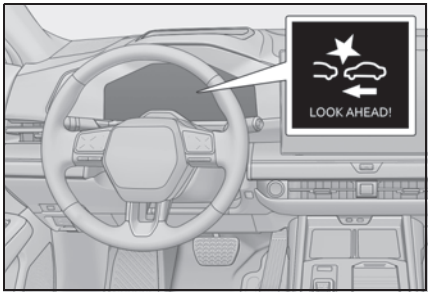
*: Detected as a detectable object when being ridden.

System functions

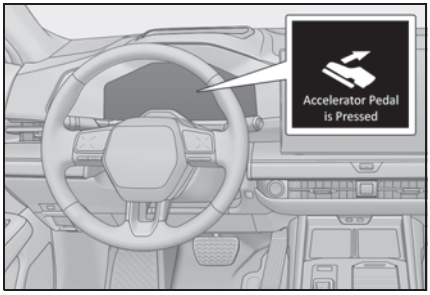
n Pre-collision warning

When the system determines that the possibility of a collision is high, a buzzer will sound and an icon and warning message will be displayed on the multi-information display to urge the driver to take evasive action.

If the detectable object is a vehicle, there may be cases where moderate braking will be performed with the warning.



If the system determines that the accelerator pedal is strongly depressed, the following icon and message will be displayed on the multi-information display.



n Pre-collision brake assist

If the system determines that the possibility of a collision is high and the brake operation by the driver is insufficient, the braking power will be increased.

n Pre-collision brake control

If the system determines that the possibility of a collision is extremely high, the brakes are automatically applied to help avoid the collision or reduce the impact of the collision.

n Emergency steering assist

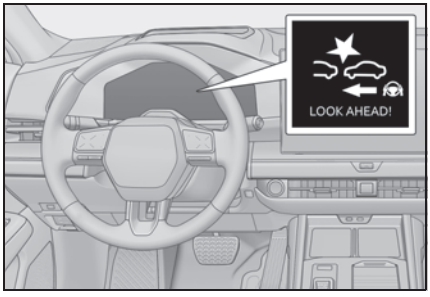
If the system determines that the following conditions are met, assistance will be provided to help enhance vehicle stability and prevent lane depar-

ture. During assistance, in addition to the pre-collision warning, an icon will be displayed on the multi-information display.

- The possibility of a collision is high
- There is sufficient space within the lane to perform evasive steering maneuvers
- The driver is operating the steering wheel

Vehicles with active steering function: The brakes and steering are controlled to help avoid a collision or reduce the impact of a collision, regardless of the evasive steering maneuvers performed by the driver.

During assistance, the pre-collision warning will operate and a message will be displayed to warn the driver.

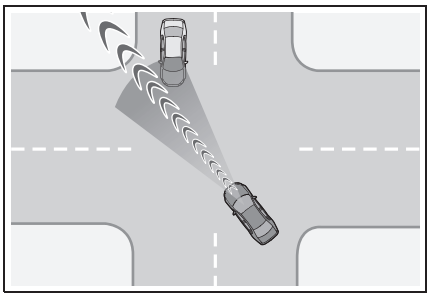


n Intersection collision avoidance support (left/right turn)

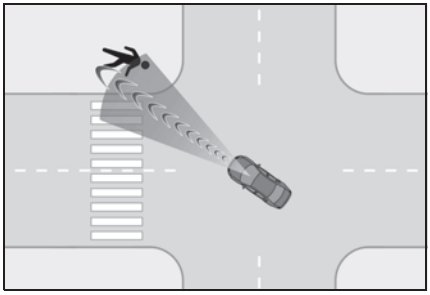
In situations such as the following, if the system determines that the possibility of a collision is high, the pre-collision warning and pre-collision braking will operate.

Depending on the intersection, assistance may not operate correctly.

- When turning left/right at an intersection and crossing the path of an oncoming vehicle/motorcycle



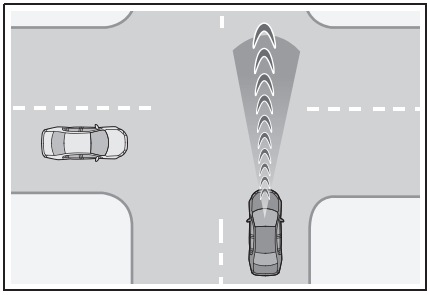
- When turning left/right and a pedestrian or bicycle is detected



n Intersection collision avoidance support (crossing vehicles)

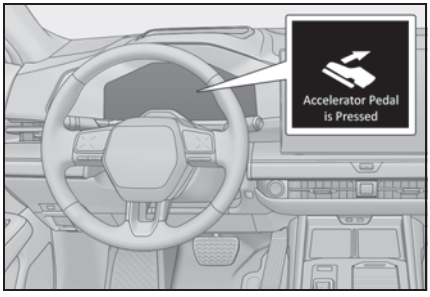
At an intersection, etc., if the system determines that the possibility of a collision with an approaching vehicle or motorcycle is high, the pre-collision warning and pre-collision braking will operate.

Depending on the intersection, assistance may not operate correctly.



n Acceleration Suppression at Low Speed

When driving at a low speed, if the accelerator pedal is strongly depressed and the system determines that there is a possibility of a collision, hybrid system output will be restrained or the brakes will be applied weakly to restrict acceleration. During operation, a buzzer will sound and an icon and message will be displayed on the multi-information display.



WARNING

n Pre-collision braking

- When the pre-collision braking function is operating, a large amount of braking force will be applied.
- The pre-collision braking function is not designed to hold the vehicle stopped. If the vehicle is stopped by pre-collision brake control, the driver should operate the brakes immediately as necessary.
- The pre-collision braking function may not operate if certain operations are performed by the driver. If the accelerator pedal is being depressed strongly or the steering wheel is being turned, the system may determine that the driver is taking evasive action and possibly prevent the pre-collision braking function from operating.
- If the brake pedal is being depressed, the system may determine that the driver is taking evasive action and possibly delay the operation timing of the pre-collision brake control.

n Acceleration Suppression at Low Speed

If the steering wheel is being turned, the system may determine that the driver is taking evasive action and possibly prevent the Acceleration Suppression at Low Speed function from operating or possibly causing its operation to be canceled.

n Emergency steering assist

- The emergency steering assist will be canceled when the system determines that lane departure prevention control has completed.
- Depending on operations performed by the driver, emergency steering assist may not operate or operation may be canceled.
  - If the accelerator pedal is depressed strongly, the steering wheel is turned heavily, the brake pedal is depressed, or the turn signal lever is operated, the system may determine that the driver is taking evasive action and the emergency steering assist may not operate.
  - While the emergency steering assist is operating, if the accelerator pedal is depressed strongly, the steering wheel is turned heavily, or the brake pedal is depressed, the system may determine that the driver is taking evasive action and emergency steering assist operation may be canceled.

WARNING

- While the emergency steering assist is operating, if the steering wheel is held or turned in the opposite direction of system operation, emergency steering assist operation will be canceled.

n Operating conditions of each function of the pre-collision system

The pre-collision system is enabled and the system determines that the possibility of a frontal collision with a detected object is high.

However, the system will not operate in the following situations:

- When the vehicle has not been driven a certain amount after a terminal of the 12-volt battery has been disconnected and reconnected
- When the shift position is in R
- When driving on a curve or turning left or right while the VSC OFF indicator is illuminated (the pre-collision warning function will be operational)

The following are the operational speeds and cancelation conditions of each function:

- Pre-collision warning

Detectable objects	Vehicle speed	Relative speed between your vehicle and object
Preceding vehicles, stopped vehicles	Approximately 3 to 110 mph (5 to 180 km/h)	Approximately 3 to 110 mph (5 to 180 km/h)
Oncoming vehicles	Approximately 20 to 110 mph (30 to 180 km/h)	Approximately 50 to 130 mph (80 to 220 km/h)
Bicycles	Approximately 3 to 110 mph (5 to 180 km/h)	Approximately 3 to 55 mph (5 to 90 km/h)
Pedestrians	Approximately 3 to 50 mph (5 to 80 km/h)	Approximately 3 to 55 mph (5 to 90 km/h)
Preceding motorcycles, stopped motorcycles	Approximately 3 to 110 mph (5 to 180 km/h)	Approximately 3 to 55 mph (5 to 90 km/h)
Oncoming motorcycles	Approximately 20 to 110 mph (30 to 180 km/h)	Approximately 20 to 110 mph (30 to 180 km/h)

While the pre-collision warning is operating, if the steering wheel is operated heavily or suddenly, the pre-collision warning may be cancelled.

- Pre-collision brake assist

Detectable objects	Vehicle speed	Relative speed between your vehicle and object
Preceding vehicles, stopped vehicles	Approximately 20 to 110 mph (30 to 180 km/h)	Approximately 7 to 110 mph (10 to 180 km/h)
Bicycles	Approximately 20 to 110 mph (30 to 180 km/h)	Approximately 20 to 55 mph (30 to 90 km/h)
Pedestrians	Approximately 20 to 50 mph (30 to 80 km/h)	Approximately 20 to 55 mph (30 to 90 km/h)
Preceding motorcycles, stopped motorcycles	Approximately 20 to 110 mph (30 to 180 km/h)	Approximately 7 to 55 mph (10 to 90 km/h)

l Pre-collision braking

Detectable objects	Vehicle speed	Relative speed between your vehicle and object
Preceding vehicles, stopped vehicles	Approximately 3 to 110 mph (5 to 180 km/h)	Approximately 3 to 110 mph (5 to 180 km/h)
Oncoming vehicles	Approximately 20 to 110 mph (30 to 180 km/h)	Approximately 50 to 130 mph (80 to 220 km/h)
Bicycles	Approximately 3 to 110 mph (5 to 180 km/h)	Approximately 3 to 55 mph (5 to 90 km/h)
Pedestrians	Approximately 3 to 50 mph (5 to 80 km/h)	Approximately 3 to 55 mph (5 to 90 km/h)
Preceding motorcycles, stopped motorcycles	Approximately 3 to 110 mph (5 to 180 km/h)	Approximately 3 to 55 mph (5 to 90 km/h)
Oncoming motorcycles	Approximately 20 to 110 mph (30 to 180 km/h)	Approximately 20 to 110 mph (30 to 180 km/h)

If either of the following occur while the pre-collision braking function is operating, it will be canceled:

- The accelerator pedal is strongly depressed
- The steering wheel is operated heavily or suddenly

l Emergency steering assist

The emergency steering assist will not operate when the turn signal lights are flashing.

The emergency steering assist will not operate when the VSC OFF indicator is illuminated.

Detectable objects	Vehicle speed	Relative speed between your vehicle and object
Preceding vehicles, stopped vehicles, bicycles, pedestrians, motorcycles	Approximately 25 to 50 mph (40 to 80 km/h) Active steering function (if equipped): * to 50 mph (* to 80 km/h)	Approximately 25 to 50 mph (40 to 80 km/h) Active steering function (if equipped): * to 50 mph (* to 80 km/h)

*: Minimum vehicle speed: Vehicle speed at which evasion using pre-collision brake control is difficult

While the emergency steering assist is operating, if any of the following are performed, emergency steering assist operation may be cancelled:

- The accelerator pedal is strongly depressed
- The steering wheel is operated heavily or suddenly
- The brake pedal is depressed

| Intersection collision avoidance support (left/right turn)

The intersection collision avoidance support (for left/right turning vehicles) will not operate when the turn signal lights are not flashing.

Detectable objects	Vehicle speed	Oncoming vehicle speed
Oncoming vehicles	Approximately 3 to 25 mph (5 to 40 km/h)	Approximately 6 to 45 mph (10 to 75 km/h)
Pedestrians	Approximately 3 to 20 mph (5 to 30 km/h)	—
Bicycles	Approximately 3 to 20 mph (5 to 30 km/h)	—
Oncoming motorcycles	Approximately 3 to 25 mph (5 to 40 km/h)	Approximately 6 to 45 mph (10 to 75 km/h)

| Intersection collision avoidance support (crossing vehicles)

▶ Vehicles without front side radars

Detectable objects	Vehicle speed	Crossing vehicle speed
Vehicles, Motorcycles (side)	Approximately 3 to 50 mph (5 to 80 km/h)	• Your vehicle speed or less • Approximately 43 mph or less (70 km/h or less)

When driving at approximately 43 mph (70 km/h) or more, this system will only operate when the speed of the other vehicle is approximately 43 mph (70 km/h) or less.

The system operates only when the crossing vehicle speed is same as or less than the vehicle speed.

▶ Vehicles with front side radars

Detectable objects	Vehicle speed	Crossing vehicle speed
Vehicles, Motorcycles (side)	Approximately 3 to 50 mph (5 to 80 km/h)	Approximately 50 mph or less (80 km/h or less)

l Acceleration Suppression at Low Speed

The Acceleration Suppression at Low Speed function will not operate when the turn signal lights are flashing.

Detectable objects	Vehicle speed	Relative speed between your vehicle and object
Preceding vehicles, stopped vehicles, Pedestrians, Bicycles, Wall	Approximately 0 to 9 mph (0 to 15 km/h)	Approximately 0 to 9 mph (0 to 15 km/h)

While the Acceleration Suppression at Low Speed function is operating, if any of the following are performed, the Acceleration Suppression at Low Speed function operation will be cancelled:

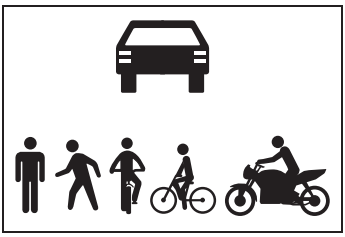
- The accelerator pedal is released.
- The steering wheel is operated heavily or suddenly

n **Detection of detectable objects**

Objects are detected based on their size, shape, and movement.

Depending on the ambient brightness, movement, posture and direction of a detectable object, it may not be detected and the system may not operate properly.

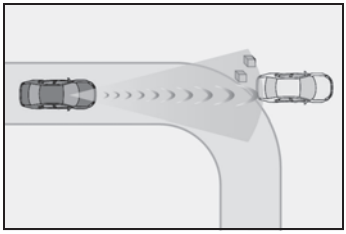
The system detects shapes, such as the following, as detectable objects.



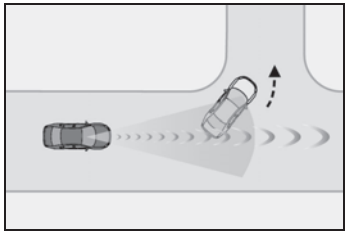
n **Situations in which the system may operate even though the possibility of a collision is not high**

l In certain situations, such as the following, the system may determine that the possibility of a collision is high and operate:

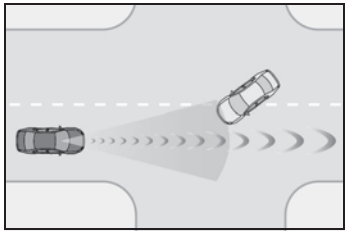
- When passing a detectable object
- When changing lanes while overtaking a detectable object
- When suddenly approaching a detectable object
- When approaching a detectable object or other object on the roadside, such as guardrails, utility poles, trees, walls, etc.
- When there is a detectable object or other object by the roadside at the entrance/exit of a curve



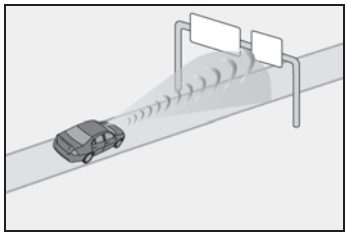
- When there are patterns or a painting ahead of the vehicle that may be mistaken for a detectable object
- When passing a detectable object that is changing lanes or turning left/right



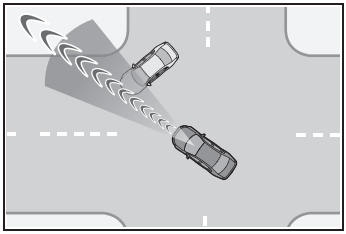
- When passing a detectable object which is stopped to make a left/right turn



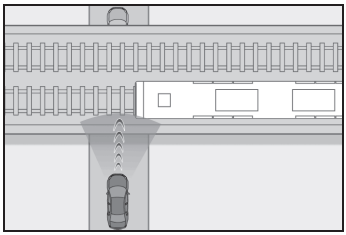
- When a detectable object stops immediately before entering the path of the vehicle
- When passing through a location with a structure above the road (traffic sign, billboard, etc.)



- When approaching an electric toll gate barrier, parking lot barrier, or other barrier that opens and closes
- When turning left/right and an oncoming vehicle, oncoming motorcycle, pedestrian or bicycle crosses in front of the vehicle
- When attempting to turn left/right in front of an oncoming vehicle, oncoming motorcycle, pedestrian or bicycle
- When turning left/right and an oncoming vehicle, oncoming motorcycle, pedestrian or bicycle stops or changes course immediately before entering the path of the vehicle
- When turning left/right and an oncoming vehicle/motorcycle turns left/right in front of the vehicle



- When the steering wheel is operated toward the path of an oncoming vehicle
- When there is an object moving above or under the road

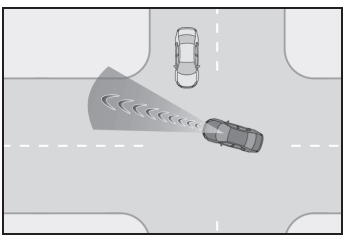


n Situations in which the system may not operate properly

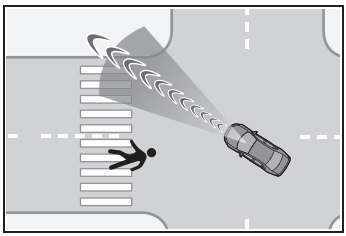
l In certain situations, such as the following, a detectable object may not be detected by the front sensors, and the system may not operate properly:

- When a detectable object is approaching your vehicle
- When your vehicle or a detectable object is wandering
- When a detectable object makes an abrupt maneuver (such as sudden swerving, acceleration or deceleration)
- When suddenly approaching a detectable object
- When the detectable object is near a wall, fence, guardrail, manhole cover, steel plate on the road surface, or another vehicle
- When there is a structure above a detectable object
- When part of a detectable object is hidden by another object (large luggage, umbrella, guardrail, etc.)
- When multiple detectable objects are overlapping
- When a bright light, such as the sun, is reflecting off of a detectable object
- When a detectable object is white and looks extremely bright
- When the color or brightness of a detect-

able object causes it to blend in with its surroundings
- When a detectable object cuts in front of or suddenly emerges in front of your vehicle
- When approaching a vehicle which is diagonal
- If a bicycle is a child sized bicycle, is carrying a large load, is carrying an extra passenger, is carrying a forward leaning rider, or has an unusual shape (bicycles equipped with a child seat, tandem bicycles, etc.)
- If a pedestrian or bicycle is shorter than approximately 3.2 ft. (1 m) or taller than approximately 6.5 ft. (2 m).
- When the silhouette of a pedestrian or bicycle is unclear (such as when they are wearing a raincoat, long skirt, etc.)
- When a pedestrian is bending forward or squatting
- When a pedestrian or bicycle is moving at high speed
- When a pedestrian is pushing a stroller, wheelchair, bicycle or other vehicle
- When a detectable object blends in with the surrounding area, such as when it is dim (at dawn or dusk) or dark (at night or in a tunnel)
- When the vehicle has not been driven for a certain amount of time after the hybrid system was started
- While turning left/right or a few seconds after turning left/right
- While driving around a curve and a few seconds after driving around a curve
- When turning left/right and an oncoming vehicle/motorcycle is driving in a lane 3 or more lanes from the vehicle
- When turning left/right and the direction of the vehicle differs greatly from the direction traffic flows in the oncoming lane



- When turning left/right and approaching a pedestrian or bicycle which was traveling in the same direction as the vehicle and continues straight
- When turning left/right, a pedestrian or bicycle behind the vehicle comes in front of it as if it overtakes the vehicle



- When at an intersection, the approaching crossing vehicle is long in overall length, such as a large truck, towing trailer, etc.
- If a vehicle is approaching from the left or right of the front of your vehicle diagonally
- When the crossing vehicle crosses the vehicle from far away
- When there is an object between your vehicle and an approaching vehicle
- When several vehicles are approaching with little space between them

In addition to the preceding, in certain situations, such as the following, the emergency steering assist may not operate properly:
- When a detectable object is too close to the vehicle
- When there is insufficient space to perform evasive steering maneuvers or an obstruction exists in the evasion direction
- When there is an oncoming vehicle

In addition to the preceding, in certain situations, such as the following, walls may not be detected as a target object and the Acceleration Suppression at Low Speed function may not operate properly:
- When scenery behind the wall is visible, such as a glass door, grid fence, etc.
- When the wall is slanted or low
- When the wall is narrow, such as a pole, etc.
- When the wall is made of plants, such as a hedge, etc.
- When the road, etc. is reflected on the wall
- When the vehicle is approaching the wall at an angle

Changing the pre-collision setting

- The pre-collision system can be enabled/disabled through a customize setting. (→P.518)

The system is enabled each time the power switch is turned to ON.

- When the system is disabled, the PCS warning light will illuminate and a message will be displayed on the multi-information display.
- Vehicles with a driver monitor camera: When the system determines that the driver is not facing forward, the pre-collision warning will operate earlier than usual.

LTA (Lane Tracing Assist)

LTA functions

- When driving on a road with clear lane lines with the dynamic radar cruise control operating, lane lines and preceding and surrounding vehicles are detected using the front camera and radar sensor, and the steering wheel is operated to maintain the vehicle's lane position.

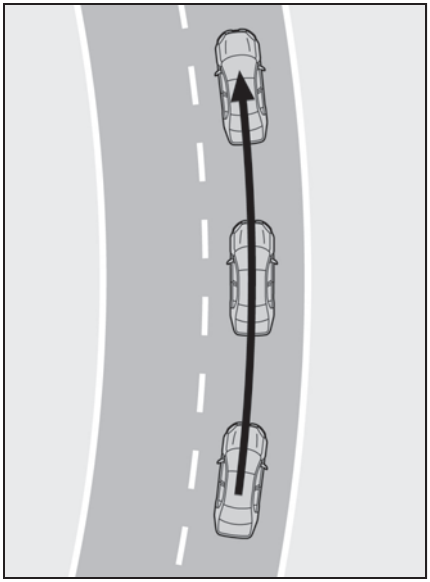
Use this function only on highways and expressways.

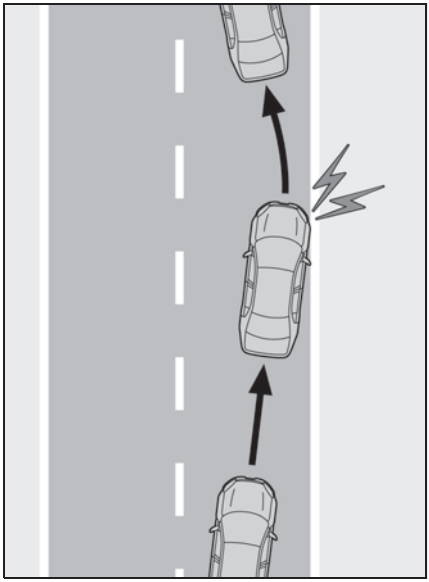
If the dynamic radar cruise control is not operating, the function will not operate.

In situations where the lane lines are difficult to see or are not visible, such as when in a traffic jam, support will be provided using the path of preceding and surrounding vehicles.

If the system determines that the steering wheel has not been operated for a certain amount of time or the steering wheel is not being firmly gripped, the driver will be alerted and this function will be temporarily canceled.

If the steering wheel is firmly gripped, the function will begin operating again.





- When the function is operating, if the vehicle is likely to depart from its lane, the driver will be alerted via a display and buzzer.

When the buzzer sounds, check the area around the vehicle and carefully operate the steering wheel to move the vehicle back to the center of the lane.

WARNING

n Before using the LTA system

- Do not overly rely on the LTA system. The LTA system is not a system which provides automated assistance in driving and it is not a system which reduces the amount of attention necessary for safe driving. The driver is solely responsible for paying attention to their surroundings and operating the steering wheel as necessary to ensure safety. Also, the driver is responsible for taking adequate breaks when fatigued, such as when driving for a long time.
- Failure to perform appropriate driving operations and pay careful attention may lead to an accident.
- When not using the LTA system, turn it off using the LTA switch.

n When turning off LTA

- When it is necessary to disable the system: →P.198

n Operating conditions of function

This function is operable when all of the fol-

lowing conditions are met:

- The LTA system detects lane lines or the path of preceding or surrounding vehicles.
- The dynamic radar cruise control is operating.
- The lane width is approximately 10 to 13 ft. (3 to 4 m).
- The turn signal lever is not being operated.
- The vehicle is not being driven around a sharp curve.
- The vehicle is not accelerating or decelerating more than a certain amount.
- The steering wheel is not being turned with a certain amount of steering force or more.
- The hands off steering wheel warning (→P.220) is not operating.
- The vehicle is being driven in the center of a lane.

n Temporary cancelation of functions

- When the operating conditions are no longer met, a function may be temporarily canceled. However, when the operation conditions are met again, operation of the function will automatically be restored. (→P.219)
- If the operating conditions of a function are no longer met while the function is operating, a buzzer may sound to indicate that the function has been temporarily canceled.
- The steering assist operation of the function can be overridden by the steering wheel operation of the driver.

n Hands off steering wheel warning operation

- When the system determines that the driver has removed their hands from the steering wheel, a warning message urging the driver to hold the steering wheel and the symbol shown in the illustration are displayed on the multi-information display. If the driver continues to keep their hands off of the steering wheel, the function is temporarily canceled.



- When the system detects a steering wheel operation, the warning stops. Always keep your hands on the steering wheel when using this system, regardless of warnings.

n Situations in which the hands off steering wheel warning may not operate properly

- The warning may not operate normally depending on the vehicle condition, the operating status of the steering wheel, and the road surface condition.
- Vehicles with LCA: The warning may not operate in the following situations even if the driver has removed their hands from the steering wheel.
  - When an object other than the driver's hand is touching the steering wheel
  - When an object, arm, etc. is near a large portion of the steering wheel
- Steering wheel operations may not be detected correctly and the warning may operate in the following situations.
  - When the driver's hand is rested lightly on the steering wheel while driving
  - When a steering wheel cover is installed*
  - When the driver is wearing gloves*
  - When foreign matter is attached to the steering wheel*
  - When the driver is gripping the wood trim, seam of the leather, spokes, or other part of the steering wheel that does not have sensors*

*: Vehicles with LCA

n Lane departure warning during LTA operation

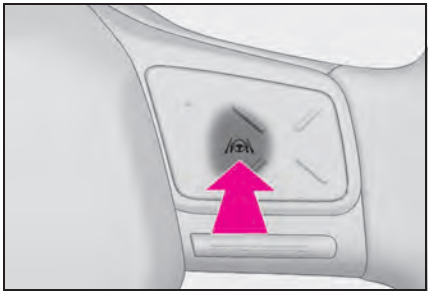
- A warning is issued if the vehicle departs from the lane during LTA operation regardless of the LDA setting.
- If a steering wheel operation equivalent

to changing lanes is detected, the system will not determine this to be lane departure and it will not issue a warning.

Enabling/disabling the system

The LTA will change between ON/OFF each time the LTA switch is pressed.

When the LTA is ON, the LTA indicator will illuminate.

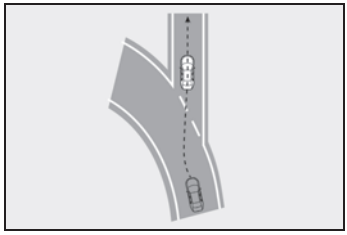


WARNING

n Situations in which the functions may not operate properly

In the following situations, the functions may not operate properly and the vehicle may depart from its lane. Do not overly rely on these functions. The driver is solely responsible for paying attention to their surroundings and operating the steering wheel as necessary to ensure safety.

- When a preceding or surrounding vehicle changes lanes or changes course (Your vehicle may follow the preceding or surrounding vehicle and also change lanes or changes course)



- When a preceding or surrounding vehicle is swaying (Your vehicle may sway accordingly and depart from the lane)
- When a preceding or surrounding vehicle departs from a lane (Your vehicle may follow the preceding or surrounding vehicle and also depart from the lane)
- When a preceding or surrounding vehicle is being driven extremely close to the left/right lane line (Your vehicle may follow the preceding or surrounding vehicle accordingly and depart from the lane)
- When there are moving objects or structures in the surrounding area (Depending on the position of the moving object or structure relative to your vehicle, your vehicle may sway)
- When the vehicle is struck by a crosswind or the turbulence of other nearby vehicles
- Situations in which the sensors and the systems may not operate properly: →P.203
- Situations in which the lane may not be detected: →P.204

Operation display of steering wheel operation support

The operating state of the LTA system is indicated.

Indicator	Lane display	Situation
		
White	Gray	LTA is on standby
Green	Green	LTA is operating

LCA (Lane Change Assist)*

*: If equipped

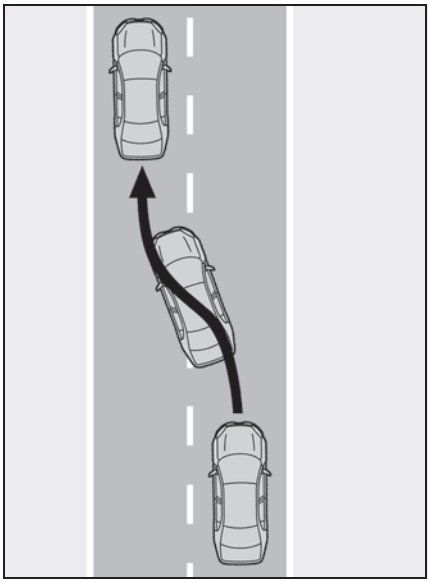
LCA functions

This function is linked to the LTA and provides assistance in performing lane changes through steering wheel operations.

Use this function only on highways and expressways.

The steering assist operation can be overridden by the steering wheel operation of the driver.

The lane change assist function is not designed to operate when changing lanes at a junction.



WARNING

n Before using the LCA system

l Do not overly rely on the LCA system.

The LCA system is not a system which provides automated assistance in driving and it is not a system which reduces the need for checking an adjacent lane for other vehicles, approaching vehicles, etc. when changing lanes. The driver is solely responsible for paying attention to their surroundings and operating the steering wheel as necessary to ensure safety.

l If LCA is canceled, vehicle may continue running while straddling lanes. The driver has responsibility to correct the course of the vehicle appropriately.

l Failure to perform appropriate driving operations and pay careful attention may lead to an accident.

n Situations in which the LCA should not be used

l When not on a highways or expressways.

l When lane change should not be performed (oncoming lanes, road shoulders, lanes that are restricted due to construction or other reasons, lanes where pedestrians and bicycles may enter, etc.).

l When driving on a one lane road

l When there is no broken white line between the current lane and the lane to be changed to

l The driver shall not use LCA when atypical lane markers (faded/worn lane markers, traverse or special road markings, Botts' Dots, etc.) are visible.

l When it is necessary to disable the system: →P.198

l Situations in which some or all of the functions of the system cannot operate: →P.204

WARNING

n **Situations in which the LCA may not operate properly**

- Situations in which the sensors and the systems may not operate properly: →P.203
- Situations in which the lane may not be detected: →P.204

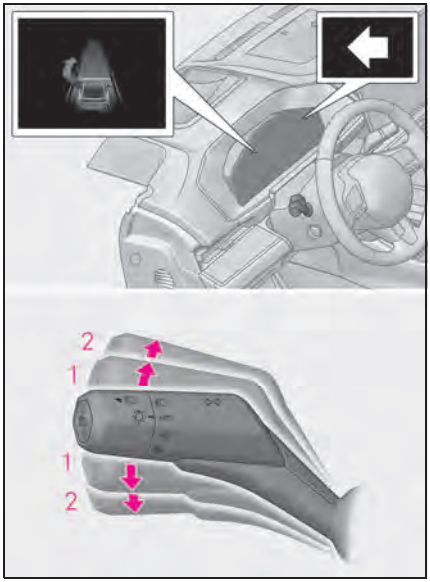
Operating the LCA

Check that the road conditions are suitable for a safe lane change.

When the LCA indicator is illuminated in white and the turn signal lever is moved to the first position, the lane change direction is displayed and the system operates.

When the lane change is complete, the turn signal light automatically turns off and the LTA operates again.

When changing lanes by moving the turn signal lever to the first position without using the LCA, turn the customize setting of the LCA off.



1 First position: LCA is operational

2 Second position: LCA is not operational

n **Operating conditions of function**

This function is operable when all of the following conditions are met:

- The lane change assist function is enabled by a customize setting.
- The dynamic radar cruise control and the LTA is operating.
- The LCA indicator (white) is illuminated.
- The vehicle speed is between approximately 45 and 90 mph (75 and 140 km/h).
- The steering wheel is not being turned with a large force.
- The vehicle is not accelerating or decelerating more than a certain amount.
- The hands off steering wheel warning (→P.220) is not operating.
- The driver monitor warning* (→P.206) is not operating.
- The system detects a broken white line on the side which the lane change is to be performed.

- The vehicle is being driven in the center of a lane.
- The vehicle is not being driven around a sharp curve.
- There are no vehicles or structures in the destination lane.
- There are no approaching vehicles near the vehicle.

*: If equipped

n Cancelation of functions

LCA may be canceled due to various factors, including the following conditions. In these cases, a message may be displayed and the buzzer may sound to indicate that the function has been canceled.

- When the operating conditions (→P.224) are no longer met
- When the system can no longer detect lane lines
- When the turn signal lever is operated to the second position (→P.224)
- When the turn signal lever is operated in the opposite direction of the lane change
- When the system detects operation of the steering wheel or brake pedal by the driver.

If the system detects that a vehicle is quickly approaching in the lane toward which the turn signal is operated a buzzer will sound and a message will be displayed to alert the driver. At the same time the steering wheel may be slightly operated to help keep the vehicle away from the approaching vehicle.

n Hands off steering wheel warning operation

When the system determines the driver is not holding the steering wheel, a message urging the driver to grip the steering wheel and the icon shown in the illustration will be displayed on the multi-information display to warn the driver. If the system detects that the steering wheel is held, the warning will be canceled. When using the system, make sure to grip the steering wheel firmly, regardless of whether the warning is operating or not.



n Situations in which the hands off steering wheel warning may not operate properly

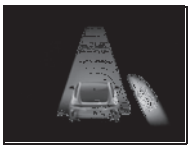
- Depending on the condition of the vehicle, handle control condition and road surface, the warning function may not operate.
- In the following situations, the system may not be able to detect when the driver's hands are off the steering wheel.
  - When a steering wheel cover is installed
  - When the driver is wearing gloves
  - When foreign matter is attached to the steering wheel
  - When the driver is gripping the wood trim, seam of the leather, spokes, or other part of the steering wheel that does not have sensors
- In the following situations, the hands off steering wheel warning may not operate and the LCA function may continue operating even though the driver's hands are off the steering wheel:
  - When something other than a hand is contacting the steering wheel
  - When a wide object or arms are held across the steering wheel

Enabling/disabling the system

LCA can be enabled/disabled through a customize setting. (→P.518)

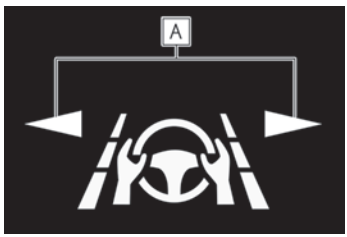
Displays and system operation

The operating state of the LCA system is indicated.

Indicator 	LCA display	Situation
White	No indication	LCA is available if operating conditions (→P.224) are met.
Green	 Green arrow and white line	LCA is operating
White		Approaching vehicle detected while LCA is operating

n LCA indicator

The LCA indicator is displayed next to the LTA indicator.



A LCA indicator

LDA (Lane Departure Alert)

When the vehicle deviates or is likely to deviate from its lane or course*, the system alerts the driver and assists with some steering operations to avoid the deviation.

When a certain object such as a pedestrian is detected on the road or the side of the road, assistance with some brake and steering operations is provided to help prevent the vehicle from approaching too close to a detected object.

*: Boundary between the asphalt and grass, soil, etc., or structures, such as a curb, guardrail, etc.

WARNING

n **For safe use**

l Driving safely is solely the responsibility of the driver.

Pay careful attention to the surrounding conditions in order to ensure safe driving.

l LDA is neither an automated driving system nor a system that completely prevents accidents, but a system that assists driving.

l Over-reliance on this system to drive the vehicle safely may lead to an accident resulting in death or serious injury.

Read the following items carefully. Do not overly rely on this system and always drive carefully.

l For safe use: →P.198

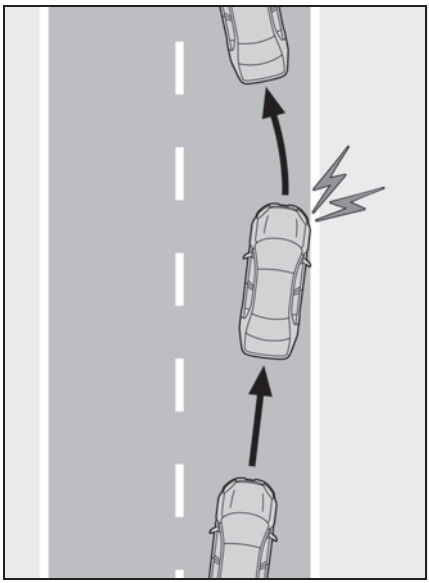
n **When turning off LDA**

l When it is necessary to disable the system: →P.198

Basic functions

n **Lane departure alert function**

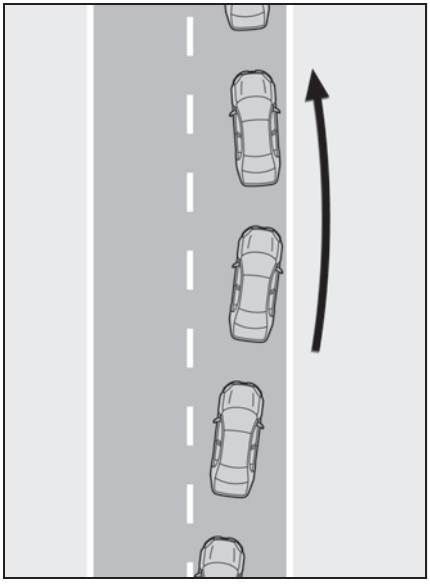
When the system detects that a vehicle is deviating from its lane or course, it alerts the driver with Vibration, Audible, or Vibration and Audible in addition to a display indication.



n **Lane departure prevention function**

When the system determines that the vehicle is likely to deviate from its lane or course, it provides assistance through steering operations to help avoid deviation from the lane or course.

If the system determines that the steering wheel has not been operated for a certain amount of time or the steering wheel is not being firmly gripped, a warning message may be displayed and a warning buzzer may sound to alert the driver.



n Operating conditions of the lane departure alert function and the lane departure prevention function

The followings are the operating vehicle speeds.

- The vehicle speed is approximately 30 mph (50 km/h) or more.

Operation may be possible when the vehicle speed is approximately 25 mph (40 km/h) or more if vehicles, motorcycles, bicycles, or pedestrians are detected near the lane.

Vehicles with a driver monitor camera: When the system determines that the driver's attention is impaired, operation may be possible when the vehicle speed is approximately 25 mph (40 km/h) or more.

If a curb, guardrail, or other structure is detected, operation may be possible when the vehicle speed is approximately 22 mph (35 km/h) or more.

The lane departure alert function and the lane departure prevention function will not operate in the following situations:

- When LDA is OFF
- When the system can't recognizes a lane or course (When recognized on only one side, the system will operate only for the recognized side.)
- When VSC is turned off
- When the shift position is in R
- When the pre-collision system operates the brake or steering wheel

In the following situations, the lane departure alert function and the lane departure prevention function may not be activated.

When the operating conditions are no longer met during operation, the operation may be temporarily canceled.

- When driving on a narrow lane or course
- When driving on a sharp curve
- During sudden braking or acceleration
- When the turn signal lights are flashing in the same direction as the vehicle's deviation direction.
- If the system determines that the vehicle may collide with a vehicle in an adjacent lane, the lane departure alert function and the lane departure prevention function will operate even if the turn signal lights are operating.
- When the steering wheel has been operated with more than a certain amount of force
- When a vehicle is unstable
- When the system determines that the driver intentionally deviates from the lane or course. For example, when the driver avoids pedestrians or parked vehicles

n Operation of the lane departure alert function and the lane departure prevention function

- The lane departure prevention function can be overridden by the steering operation of the driver.
- Vehicles with a driver monitor camera: Depending on the driver condition, the lane departure alert function and the lane departure prevention function changes the timing of operation.
- Depending on the vehicle speed, road

conditions, etc., the lane departure alert function and the lane departure prevention function may not be noticed.

n **Hands off steering wheel warning operation**

In the following situations, a message urging the driver to operate the steering wheel and an icon will be displayed and a buzzer will sound to warn the driver. When using the system, make sure to grip the steering wheel firmly, regardless of whether the warning is operating or not.



- When the system determines that the driver is not securely holding the steering wheel, or the steering wheel is not being operated when the steering assist operation of the lane departure prevention function is operating
- The length of time that the warning buzzer operates will become longer as the frequency of the steering assist operating increases. If the system judges that the steering wheel has been operated, the warning buzzer will stop.

WARNING

n **Situations in which the lane departure alert function and the lane departure prevention function may not operate properly**

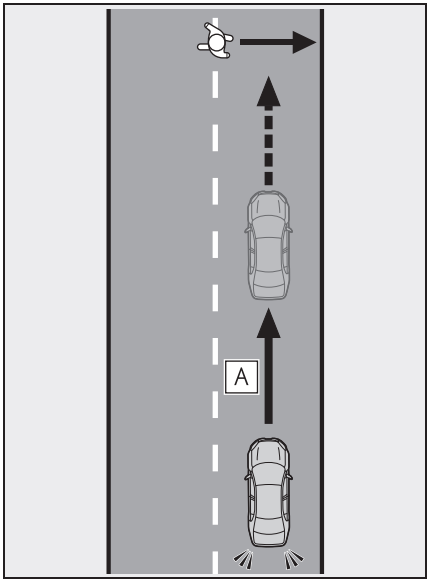
In the following situations, the system may not operate properly and the vehicle may deviate from its lane or course. Do not overly rely on these functions. The driver is solely responsible for paying attention to their surroundings and operating the steering wheel as necessary to ensure safety.

- When the boundary between the asphalt and grass, soil, etc., or structures, such as a curb, guardrail, etc. is not clear or continuous
- When the vehicle is struck by a crosswind or the turbulence of other nearby vehicles
- Situations in which the lane may not be detected: →P.204
- Situations in which the sensors and the systems may not operate properly: →P.203
- Situations in which some or all of the functions of the system cannot operate: →P.204

Obstacles Anticipation Assist (OAA)

- When a certain object such as a pedestrian* is detected crossing the road, assistance with some brake operations is provided in order to reduce the possibility of a collision, in addition to a display indication.

*: Pedestrians, bicycles (Detected as a detectable object when being ridden.)

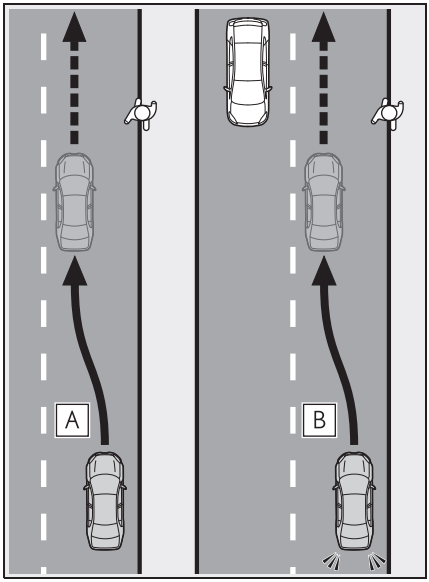


A Deceleration assist

- When a certain object such as a pedestrian* is detected on the side of the road, assistance with some brake and steering operations is provided to help prevent the vehicle from approaching too close to a detected object.

Assistance with steering operations is provided within a range that the vehicle will not deviate from its current lane.

*: Pedestrians, parked vehicles, bicycles (Detected as a detectable object when being ridden.)



A Steering assist

B Deceleration assist and Steering assist

n Operating conditions of Obstacles Anticipation Assist

The followings are the operating vehicle speeds.

- Detectable object crossing the road assistance operates when the vehicle speed is between approximately 20 to 35 mph (30 to 60 km/h)
- Detectable object on the side of the road assistance operates when the vehicle speed is between approximately 20 to 35 mph (30 to 60 km/h)

Obstacles Anticipation Assist will not operate in the following situations:

- When the dynamic radar cruise control or cruise control is operating
- When the pre-collision system is turned off
- When P, R or N shift position is selected

In the following situations, Obstacles Anticipation Assist will stop assisting with the braking operation.

- When the vehicle speed is less than approximately 9 mph (15 km/h)
- When a certain vehicle speed has been reached, as judged by the system, according to the surrounding conditions

In the following situations, Obstacles Anticipation Assist may not be activated.

When the operating conditions are no longer met during operation, the operation may be temporarily canceled.

- When the brake control or output restriction control of a driving support system operates
- When the system determines that a detected object has moved away from the vehicle
- When the brake pedal has been depressed
- When the accelerator pedal has been depressed
- When the steering wheel has been operated with more than a certain amount of force
- When the left or right turn signal lights are flashing

WARNING

n Situations in which Obstacles Anticipation Assist may not operate properly

In the following situations, the system may not operate properly.

- When a detectable object stops immediately before entering the path of the vehicle
- When passing extremely close to a detectable object behind a guardrail, fence, etc.
- When changing lanes while overtaking a detectable object
- When passing a detectable object that is changing lanes or turning left/right
- When there are objects (guardrails, power poles, trees, walls, fences, poles, traffic cones, mailboxes, etc.) in the surrounding area
- When there are patterns or a painting ahead of the vehicle that may be mistaken for a detectable object
- When passing through a place with a low structure above the road (tunnel with a low ceiling, traffic sign, signboard, etc.)
- When driving on snowy, icy, or rutted roads
- When a detectable object is approaching your vehicle
- When your vehicle or a detectable object is wandering
- When the movement of a detectable object changes (change in direction, sudden acceleration or deceleration, etc.)
- When suddenly approaching a detectable object
- When there is a structure above a detectable object
- When part of a detectable object is hidden by another object (large luggage, umbrella, guardrail, etc.)
- When multiple detectable objects are overlapping
- When a bright light, such as the sun or headlights of another vehicle, is reflecting off of the detectable object
- When the detectable object is white and looks extremely bright
- When the color or brightness of the detectable object causes it to blend in with its surroundings
- When a detectable object cuts in front of or emerges from beside a vehicle

WARNING

- When approaching a vehicle ahead which is perpendicular, at an angle to the vehicle, or is facing the vehicle
- If a parked vehicle is perpendicular or at an angle to the vehicle
- When a bicycle is a child sized, is carrying a large load, is carrying an extra passenger, or has an unusual shape (bicycles equipped with a child seat, tandem bicycles, etc.)
- When a pedestrian or bicyclist is shorter than approximately 3.2 ft. (1 m) or taller than approximately 6.5 ft. (2 m)
- When the silhouette of a pedestrian or bicyclist is unclear (such as when they are wearing a raincoat, long skirt, etc.)
- When a pedestrian or bicyclist is bending forward or squatting
- When a pedestrian or bicyclist is moving at high speed
- When a pedestrian is pushing a stroller, wheelchair, bicycle or other vehicle
- When a detectable object blends in with the surrounding area, such as when it is dim (at dawn or dusk) or dark (at night, in a tunnel, etc.)
- When the lane width is 13.1 ft. (4 m) or more
- When the lane width is 8.2 ft. (2.5 m) or less
- When the vehicle has not been driven for a certain amount of time after the hybrid system was started
- While turning left or right or a few seconds after turning left or right
- While changing lanes or a few seconds after changing lanes
- When entering a curve, driving around a curve and a few seconds after driving around a curve
- Situations in which the lane may not be detected: →P.204
- Situations in which the sensors and the systems may not operate properly: →P.203
- Situations in which some or all of the functions of the system cannot operate: →P.204

Changing LDA settings

The settings of LDA can be changed through customize settings. (→P.518)

Vehicles with a driver monitor camera: When the system determines that the driver is tired, the lane departure alert function and the lane departure prevention function will operate at the “Earlier” timing, regardless of the customized setting.

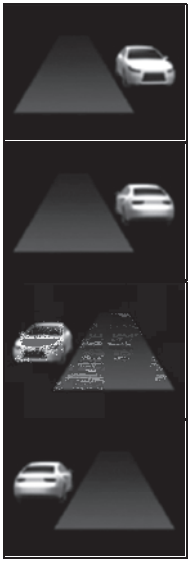
Displays and system operation

The lane departure alert function and the lane departure prevention function will show the following indicator and the operating display on the display depending on the situation.

Indicator	Operation display	Situation
 White	Not illuminated	• LDA is turned OFF
Not illuminated	Not illuminated	• LDA is turned ON • LDA can not be activated
 White	Not illuminated	• LDA is turned ON • LDA can be activated
 Red	 Red	• LDA is turned ON • The lane departure alert function and/or the lane departure prevention function is operating for the side which the operation display is lighting.

Obstacles Anticipation Assist will show the following indicator lights and icons on the display depending on the situation.

Some icons cannot be displayed unless the display is changed to the driving safety support function information screen.

Icon	Meaning
	A pedestrian or a bicycle has been detected as crossing the road or on the side of the road and brake or steering assistance is operating
	A vehicle has been detected on the side of the road and brake or steering assistance is operating

PDA (Proactive driving assist)

When a detectable object (→P.236) is detected, the proactive driving assist supports the brake and steering operations.

WARNING

n For safe use

Driving safely is solely the responsibility of the driver.

- The proactive driving assist is designed to provide some assistance for braking and steering operations depending on the situation to help reduce driver operating load. However, the scope of this assistance is limited.

The driver should perform brake and steering operations as necessary. Read the following items carefully. Do not overly rely on the proactive driving assist and always drive carefully. (→P.237)

- The proactive driving assist is not a system which reduces the amount of attention necessary for safe driving. Even if the system is operating correctly, the surrounding conditions as recognized by the driver and detected by the system may differ. It is necessary for the driver to pay attention, assess risks, and ensure safety. Over-reliance on this system to drive the vehicle safely may lead to an accident resulting in death or serious injury.
- The proactive driving assist is not a system which allows for inattentive driving and is not a system which assists in poor visibility conditions. The driver is solely responsible for paying attention to their surroundings and driving safely.

n When turning off proactive driving assist

- Situations in which the sensors and the systems may not operate properly: →P.203
- When it is necessary to disable the system: →P.198

System operating conditions and detectable objects

According to the driving conditions, the operation and detectable objects of the proactive driving assist will change as follows.

Function	Conditions	Operation	Detectable objects
Steering Assist (SA)	Lane is detected	The system anticipates the driver's operation and supports the operation of the steering wheel.	None
Deceleration Assist (DA)	A preceding vehicle or an adjacent vehicle cutting in front of the vehicle is detected	The vehicle is gently decelerated so that the vehicle-to-vehicle distance will not be excessively short.	• Preceding vehicles • Motorcycles
	A curve is detected ahead of the vehicle	The vehicle is gently decelerated if the vehicle speed is determined to be too high for the curve ahead.	None

n Vehicle speeds at which the system can operate

l Steering assistance within a lane

Approximately 5 to 80 mph (10 to 140 km/h)

l Deceleration assistance for preceding vehicle

Approximately 15 to 80 mph (20 to 140 km/h)

l Deceleration assistance for curve

Approximately 15 to 80 mph (20 to 140 km/h)

n Situations in which system operation will be canceled

l In the following situations, system operation will be canceled:

- When the dynamic radar cruise control or cruise control is operating
- When the pre-collision system is off
- When the P, R or N shift position is selected
- The driver's seat belt is unfastened

l In the following situations, the brake operation assist will be canceled:

- Approximately 9 mph (15 km/h) or less
- When a certain vehicle speed has been reached, as judged by the system, according to the surrounding conditions

l In the following situations, system operation may be canceled:

- When the brake control or output restriction control of a driving support system operates

(For example: Pre-Collision System, Drive-Start Control)

- When the system determines that a detected object has moved away from the vehicle
- When lane lines can no longer be detected
- When the brake pedal has been depressed
- When the accelerator pedal has been depressed
- When the steering wheel has been oper-

ated with more than a certain amount of force
- When the turn signal lever is operated to the left/right turn position

WARNING

n Situations in which the system may not operate properly

- Situations in which the lane may not be detected: →P.204
- When a detectable object stops immediately before entering the path of the vehicle
- When changing lanes while overtaking a detectable object
- When passing a detectable object that is changing lanes or turning left/right
- When there are objects (guardrails, power poles, trees, walls, fences, poles, traffic cones, mailboxes, etc.) in the surrounding area
- When there are patterns or a painting ahead of the vehicle that may be mistaken for a detectable object
- When passing through a place with a low structure above the road (tunnel with a low ceiling, traffic sign, signboard, etc.)
- When driving on snowy, icy, or rutted roads
- When a detectable object is approaching your vehicle
- When your vehicle or a detectable object is wandering
- When the movement of a detectable object changes (change in direction, sudden acceleration or deceleration, etc.)
- When suddenly approaching a detectable object
- When a preceding vehicle or motorcycle is not directly in front of your vehicle
- When there is a structure above a detectable object
- When a detectable object cuts in front of a vehicle
- When approaching a vehicle ahead which is perpendicular or at an angle to the vehicle, or is facing the vehicle
- If a parked vehicle is perpendicular or at an angle to the vehicle
- When the vehicle has not been driven for a certain amount of time after the hybrid system was started
- While turning left or right or a few seconds after turning left or right
- While changing lanes or a few seconds after changing lanes
- When entering a curve, driving around a curve and a few seconds after driving around a curve

Changing proactive driving assist settings

- The proactive driving assist can be enabled/disabled through a customize setting. (→P.519)
- The settings of the proactive driving assist can be changed through customize settings. (→P.519)

System operation display

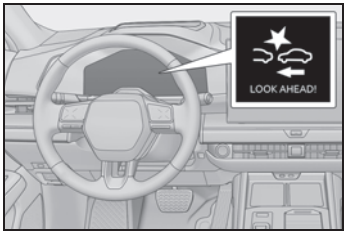
Depending on the situation, the following operations will be displayed.

Some icons cannot be displayed unless the display is changed to the driving safety support function information screen.

Display	Operation
	Steering assistance is being performed (The brightness increases next to the vehicle during control operation.)
	Deceleration assistance for preceding vehicle is being performed
	Notification to urge maintaining an appropriate vehicle-to-vehicle distance
	Deceleration assistance for curve is being performed

n Notification after preceding vehicle deceleration assistance has ended

After preceding vehicle deceleration assistance has ended, if the driver does not operate the brake pedal or accelerator pedal and the vehicle approaches the preceding vehicle, the following message will be displayed and a buzzer will sound to urge the driver to decelerate. If the system determines that the driver is operating the brake pedal or accelerator pedal, the notification will be canceled.



FCTA (Front Cross Traffic Alert)*

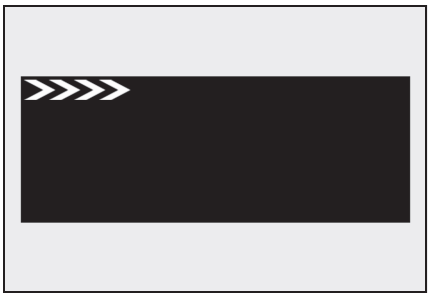
*: If equipped

When approaching an intersection, etc., at a low speed, vehicles approaching from the left and right of the front of the vehicle can be detected and the driver informed of these vehicles.

FCTA system control

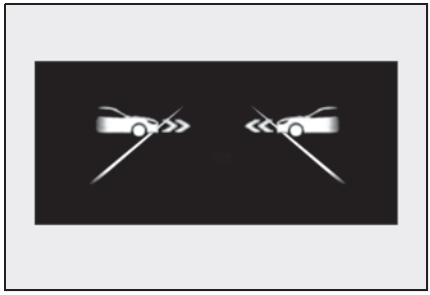
- When the system detects a vehicle approaching from the left or right in front of your vehicle when approaching an intersection, a notification will be displayed.

• Head-up display



- When the system determines that your vehicle may be about to enter an intersection even though a vehicle is approaching from the left or right in front of your vehicle, a buzzer will sound and a message will be displayed to urge you to depress the brake pedal.

• Multi-information display



WARNING

n For safe use

Driving safely is solely the responsibility of the driver. Pay careful attention to the surrounding conditions in order to ensure safe driving. The FCTA system is a supplementary system that informs the driver of vehicles approaching from the left and right of the front of the vehicle.

Over-reliance on this system may lead to an accident resulting in death or serious injury. The details of the warning display may differ from the actual traffic conditions. Although the warning display will stop being displayed after a certain amount of time, this does not necessarily indicate that there are no longer any vehicles or pedestrians around your vehicle.

n FCTA system operating conditions

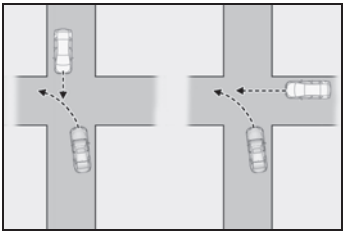
The system will operate when all of the following conditions are met:

- A shift position other than P or R is selected
- The vehicle speed is approximately 10 mph (15 km/h) or less
- A vehicle is approaching from the left or right in front of your vehicle at a speed between approximately 7 to 37 mph (10 to 60 km/h)
- There are no vehicles in front of your vehicle
- The accelerator pedal is not being strongly depressed
- The brake pedal is not being strongly depressed

n Situations in which the system may operate even though no vehicles are approaching

In certain situations, such as the following, the system may operate even though no vehicles are approaching:

- When approaching objects on the roadside, such as guardrails, traffic signs, utility poles, street lights, trees, tall grass, walls, etc.
- When passing an object on the side of the road, such as a parked vehicle
- When a vehicle or pedestrian is approaching from the left or right in front of your vehicle in the distance
- When a vehicle or pedestrian is moving within a parking spot, etc., next to the lane your vehicle is in
- When a pedestrian or bicyclist is approaching on a sidewalk
- When a vehicle or pedestrian is moving away from your vehicle
- When an approaching vehicle is decelerating or stops
- When an approaching vehicle makes a left/right turn immediately in front of your vehicle
- When a pedestrian is approaching your vehicle
- When an oncoming vehicle makes a right/left turn
- When your vehicle enters an intersection before a vehicle approaching from the left or right in front of your vehicle
- When stopped at traffic light and a vehicle approaches from the left or right in front of your vehicle
- When making a left/right turn in front of an approaching vehicle

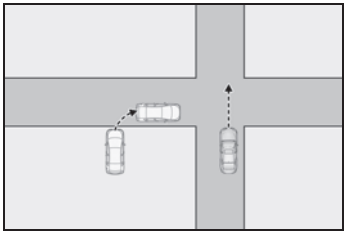


- When an oncoming vehicle approaches and passes
- When being overtaken by another vehicle
- When driving next to another vehicle or a pedestrian
- When a vehicle or pedestrian approaches the side of your vehicle

n Situations in which the system may not operate properly

In situations such as the following, a vehicle may not be detected by a front side radar sensor and the system may not operate properly:

- If an approaching vehicle moves suddenly (sudden steering, acceleration, deceleration, etc.)



- If a vehicle is approaching from the left or right of the front of your vehicle diagonally
- When a vehicle is approaching from the left or right in front of your vehicle in the distance
- When there is an object between your vehicle and an approaching vehicle
- When several vehicles are approaching with little space between them

Changing FCTA settings

The FCTA can be enabled/disabled through the customize setting.
(→P.519)

RSA (Road Sign Assist)

The RSA system detects specific road signs using the front camera and/or navigation system (when speed limit information is available) and notifies the driver via displays and buzzers.

⚠ WARNING

n For safe use

- Driving safely is solely the responsibility of the driver. Pay careful attention to the surrounding conditions in order to ensure safe driving.
- The RSA assists the driver by providing road sign information, but it is not a replacement for the driver's own vision and awareness.

n Situations in which the RSA should not be used

- When it is necessary to disable the system: →P.198

n Situations in which the system may not operate properly

- Situations in which the sensors may not operate properly: →P.203

Display Function

- When a traffic sign is detected, the sign will be displayed on the display.
- Multiple signs can be displayed.

Depending on other functions, displayed status may be limited.

RSA and other functions (such as the navigation system) may display different sign information.

n Operating conditions of the display function

Signs will be displayed when the following conditions are met:

- The system has detected a sign

Signs will be disappear when the following conditions are met:

- When the vehicle has traveled a certain distance after passing the sign
- When the system determines that the road being driven on has changed, such as after a left or right turn

n Situations in which the display function may not operate properly

In the following situations, the RSA system may not operate properly and may not detect signs or may display the incorrect sign.

- When a sign is dirty, faded, tilted or bent
- When there is a reflected light or shadow on a traffic sign
- When the contrast of an electronic sign is low
- When all or part of a sign is hidden by a tree, utility pole, etc.
- When there are trees, utility poles, buildings, or signboards behind a traffic sign
- When it is difficult to recognize a traffic sign by the front camera due to sunlight, reflected light, or the headlights of another vehicle
- When it is difficult to recognize a traffic sign by the front camera due to bad weather such as heavy rain, snow, fog, sandstorms, blizzards, etc.
- When a sign is detected by the front camera for a short amount of time (such as when a nearby sign suddenly becomes visible while turning left or right)
- When the driving state (turning, changing lanes, etc.) is judged incorrectly
- When a sign is immediately after a freeway junction or in an adjacent lane just before merging
- When a traffic sign is located far from the vehicle

- When an object similar to the system compatible traffic sign is detected (such as signs, electric signs, signboards, buildings, preceding vehicles with stickers, or directory signs with numbers)
- When a sign for a frontage road is within detection range of the front camera
- When driving around a roundabout
- When a traffic sign for other vehicles such as signs for large vehicles is detected
- When a sign has a supplemental sign (end point, day of week, time of day, etc.)
- When there is a sign within a traffic restricted area, such as a roadworks area
- When there are non-standard or recently introduced signs
- When the navigation system map data is out of date
- When the navigation system cannot be used

Caution function

In the following situations, the RSA system will output a caution to notify the driver.

- If the vehicle speed exceeds the speed warning threshold of the speed limit sign displayed on the display, the sign display will flash and a buzzer will sound.
- When the RSA system detects a no-entry sign (do not enter sign) and determines that the vehicle has entered a no-entry area, the no-entry sign (do not enter sign) displayed on the display will flash and a buzzer will sound.

n Operating conditions of the caution function

- Speed limit caution function

This function will operate when all of the following conditions are met:
- A speed limit sign is recognized by the system
- The vehicle speed exceeds the displayed speed limit by a certain amount

- No entry caution function

This function will operate when all of the following conditions are met:
- Two or more no entry signs are recognized by the system simultaneously
- The vehicle is passing between no entry signs recognized by the system

Types of road signs supported

- The following types of objects can be displayed.

	Speed limit
	
	Do Not Enter
	Stop

Changing the RSA settings

The settings of the RSA can be changed through customize settings. (→P.519)

Dynamic radar cruise control

This dynamic radar cruise control detects the presence of vehicles ahead, determines the current vehicle-to-vehicle distance, and operates to maintain a suitable distance from the vehicle ahead. The desired vehicle-to-vehicle distance can be set by operating the vehicle-to-vehicle distance switch.

Use the dynamic radar cruise control only on highways and expressways.

WARNING

n For safe use

l Driving safely is solely the responsibility of the driver. Do not overly rely on this system, and pay careful attention to the surrounding conditions in order to ensure safe driving.

l The dynamic radar cruise control provides driving assistance to reduce the driver's burden. However, there are limitations to the assistance provided.

Read the following items carefully. Do not overly rely on this system and always drive carefully.

- Conditions under which the system may not operate correctly: →P.249

l Set the speed appropriately according to the speed limit, traffic flow, road conditions, weather conditions, etc. The driver is responsible for confirming the set speed.

l Even if the system is operating correctly, the condition of a preceding vehicle as recognized by the driver and detected by the system may differ. Therefore, it is necessary for the driver to pay attention, assess risks, and ensure safety. Over-reliance on this system to drive the vehicle safely may lead to an accident resulting in death or serious injury.

n Dynamic radar cruise control system warning messages and buzzers

For safe use: →P.198

n Precautions for the driving assist systems

Observe the following precautions, as there are limitations to the assistance provided by the system. Over-reliance on this system may lead to an accident resulting in death or serious injury.

l Details of support provided for the driver's vision

The dynamic radar cruise control is only intended to help the driver in determining the distance between the driver's own vehicle and a designated preceding vehicle. It is not a system which allows for careless or inattentive driving, and is not a system which assists in poor visibility conditions.

The driver must pay attention to their surroundings, even when the vehicle stops.

l Details of support provided for the driver's judgement

The dynamic radar cruise control determines whether the distance between the driver's own vehicle and a designated preceding vehicle is within a set range. It is not capable of making any other type of judgement. Therefore, it is absolutely necessary for the driver to remain vigilant and to determine whether or not there is a possibility of danger.

WARNING

- Details of support provided for the driver's operation

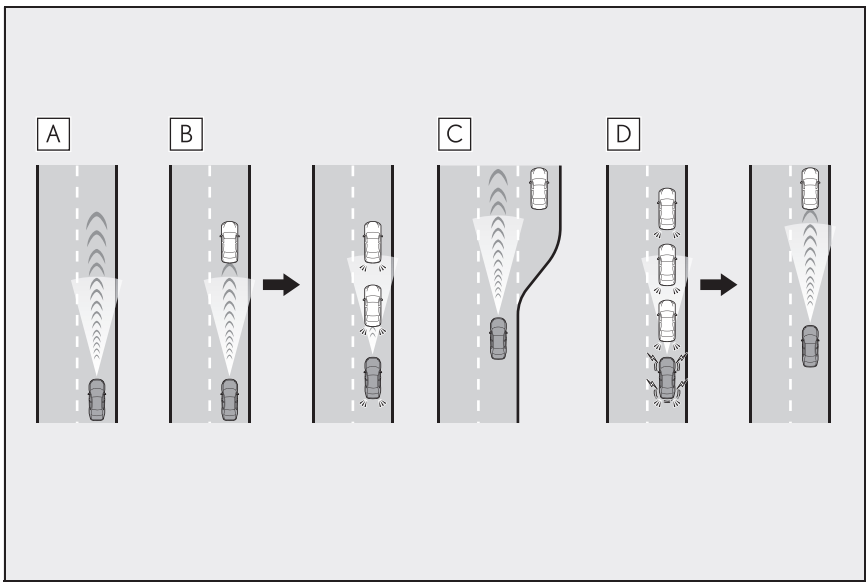
The dynamic radar cruise control does not include functions which will prevent or avoid collisions with vehicles ahead of your vehicle. Therefore, if there is ever any possibility of danger, the driver must take immediate and direct control of the vehicle and act appropriately in order to ensure safety.

Situations in which the dynamic radar cruise control should not be used

Do not use the dynamic radar cruise control in the following situations. As the system will not be able to provide appropriate control, using it may lead to an accident resulting in death or serious injury.

- Roads where there are pedestrians, cyclists, etc.
- When driving on a highway or expressway entrance or exit
- When the approach warning sounds frequently
- When a passenger or driver is getting in or out of the driver's own vehicle
- Situations in which the sensors and the systems may not operate properly: →P.203
- When it is necessary to disable the system: →P.198

Basic functions



A Constant speed cruising:
When there are no vehicles ahead

The vehicle drives at the speed set by the driver.

If the set vehicle speed is exceeded while driving down a hill, the set vehicle speed display will blink and a buzzer will sound.

B Deceleration and follow-up cruising:
When a preceding vehicle driving slower than the set vehicle speed is detected

When a vehicle is detected driving ahead of your vehicle, the vehicle automatically decelerates and if a greater reduction in vehicle speed is necessary, the brakes are applied (the stop lights will come on at this time). The vehicle is controlled to maintain the vehicle-to-vehicle distance set by the driver, in accordance with changes in the speed of the preceding vehicle. If vehicle deceleration is not sufficient and the vehicle approaches the vehicle ahead, the approach warning will sound.

C Acceleration:
When there are no longer any preceding vehicles driving slower than the set vehicle speed

The vehicle accelerates until the set vehicle speed is reached and then resumes constant speed cruising.

D Starting off:

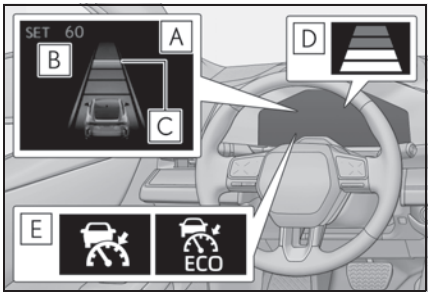
If a preceding vehicle stops, the vehicle will also stop (controlled stop). After the preceding vehicle starts off, operating the "+" switch/"RES" switch/"-" switch upward or depressing

the accelerator pedal will resume follow-up cruising (start off operation). If a start off operation is not performed, the controlled stop will continue.

Vehicles with Traffic Jam Assist: While driving on a highway or expressway, if a preceding vehicle stops, your vehicle will stop accordingly. On some highways and expressways, if the system determines that the preceding vehicle starts off within approximately 3 minutes of stopping, a buzzer will sound and a message will be displayed on the multi-information display to notify the driver, and your vehicle will start off accordingly following the preceding vehicle. (Extended resume time)

System components

n Meter display



A Multi-information display

B Set vehicle speed

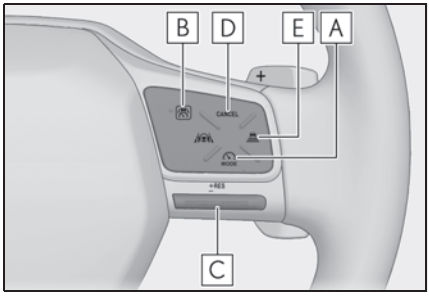
C Vehicle-to-vehicle distance

Moves forward and backward according to the vehicle speed and distance setting.

D Vehicle-to-vehicle distance indicator

E Dynamic radar cruise control indicator/Dynamic radar cruise control eco run mode indicator

n Switches



A Driving assist mode select switch

B Driving assist switch

C "+" switch/"RES" switch/"-" switch

D Cancel switch

E Vehicle-to-vehicle distance switch

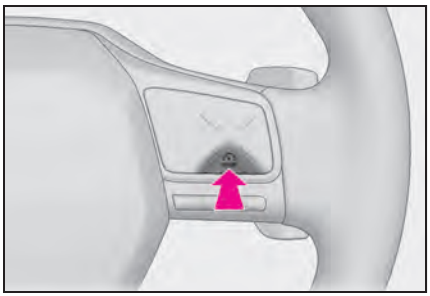
Using the dynamic radar cruise control

Setting the vehicle speed

1 Press the driving assist mode select switch to select Adaptive cruise control Mode.

The dynamic radar cruise control indicator

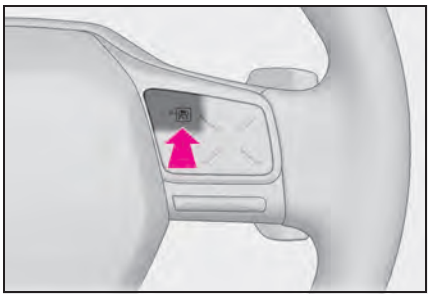
will illuminate.



2 Using the accelerator pedal, accelerate or decelerate to the desired vehicle speed (approximately 20 mph [30 km/h] or more), and press the driving assist switch to set the set vehicle speed.

The set vehicle speed will be displayed on the multi-information display.

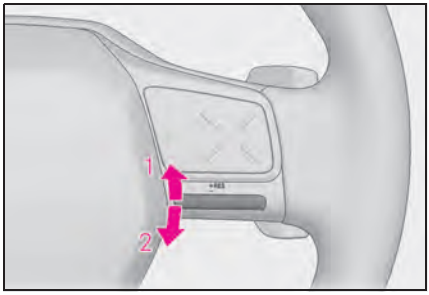
The vehicle speed at the moment the switch is released will be the set vehicle speed.



Adjusting the set vehicle speed

- Adjusting the set vehicle speed using the switches

To change the set vehicle speed, operate the "+" switch/"RES" switch/"-" switch until the desired speed is displayed.



1 Increase set vehicle speed

2 Decrease set vehicle speed

Short operation adjustment: Operate the switch

Long operation adjustment: Operate and hold the switch until the desired set vehicle speed is reached.

The set vehicle speed will increase or decrease as follows:

▶ Except for Canada

Short operation adjustment: Increases or decreases by 1 mph (1.6 km/h) each time the switch is operated

Long operation adjustment: Increases or decreases in 1 mph (1.6 km/h) increments continuously while the switch is operated and held

▶ For Canada

Short operation adjustment: By 1 mph (1.6 km/h) or 1 km/h (0.6 mph) each time the switch is operated

Long operation adjustment: Increases or decreases in 5 mph (8 km/h) or 5 km/h (3.1 mph) increments continuously while the switch is operated and held

- Increasing the set vehicle speed using the accelerator pedal

1 Depress the accelerator pedal to accelerate the vehicle to the desired vehicle speed.

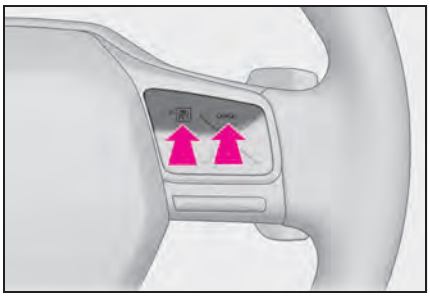
2 Operate the "+" switch/"RES" switch/"-" switch upward.

Canceling/resuming control

1 Press the cancel switch or driving assist switch to cancel control.

Control will also be canceled if the brake pedal is depressed.

(If the vehicle has been stopped by system control, depressing the brake pedal will not cancel control.)



2 Operate the "+" switch/"RES" switch/"-" switch upward to resume control.

Changing the vehicle-to-vehicle distance

Each time the switch is pressed, the vehicle-to-vehicle distance setting will change as follows:

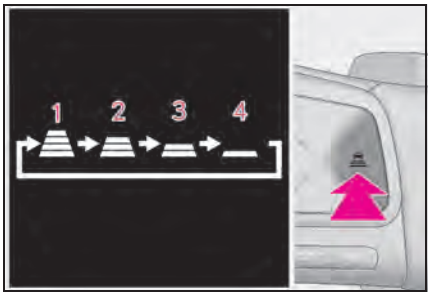


Illustration Number	Vehicle-to-vehicle distance	Approximate Distance (Vehicle Speed: 60 mph [100 km/h])
1	Extra long	Approximately 200 ft. (60 m)
2	Long	Approximately 145 ft. (45 m)
3	Medium	Approximately 100 ft. (30 m)
4	Short	Approximately 85 ft. (25 m)

The actual vehicle-to-vehicle distance varies in accordance with the vehicle speed. Also, when the vehicle is stopped by system control, it will be stopped at a certain distance from the preceding vehicle, depending on the situation, regardless of the setting.

n Operating conditions

- The D shift position is selected.
- The desired set speed can be set when the vehicle speed is approximately 20 mph (30 km/h) or more.
- If the vehicle speed is set while driving at below approximately 20 mph (30 km/h), the set vehicle speed will be approximately 20 mph (30 km/h).
- If the vehicle speed is set while driving at a speed that exceeds the system's upper limit, the set vehicle speed will be the system's upper limit.

n Accelerating after setting the vehicle speed

As with normal driving, acceleration can be performed by depressing the accelerator pedal. After accelerating, the vehicle will return to the set vehicle speed. However, while in Adaptive cruise control mode, the vehicle speed may decrease to below the set vehicle speed in order to maintain the distance from the preceding vehicle.

n When the vehicle is stopped by system control during follow-up cruising

- When the "+" switch/"RES" switch/"-" switch is operated upward while the vehicle is stopped by system control, if the preceding vehicle starts off within approximately 3 seconds, follow-up cruising will resume.
- If the preceding vehicle starts off within approximately 3 seconds of the vehicle being stopped by system control, follow-up cruising will resume.

n Automatic cancellation of Adaptive cruise control mode

In the following situations, Adaptive cruise control mode will be canceled automatically:

- When the brake control or output restriction control of a driving support system operates
- When the parking brake has been operated
- When the driver's seat belt is unfastened while driving
- When the Pre-Collision System is disabled
- When the vehicle is stopped by system control on a steep incline
- When any of the following are detected while the vehicle is stopped by system control:
  - The driver's seat belt is unfastened
  - The driver's door is opened
  - Approximately 3 minutes have elapsed since the vehicle was stopped (The parking brake may be actived automatically.)
- Vehicles with Traffic Jam Assist: When the navigation system cannot be used
- Situations in which some or all of the functions of the system cannot operate: →P.204

n Dynamic radar cruise control system warning messages and buzzers

For safe use: →P.198

n "Cruise Control Unavailable See Owner's Manual" is shown on the multi-information display.

Dynamic radar cruise control is disabled.

A message is displayed when the driving assist switch is pushed repeatedly. Press the driving assist switch quickly and firmly.

n Preceding vehicles that the sensor may not detect correctly

In the following situations, depending on the conditions, if the system cannot provide sufficient deceleration or acceleration is necessary, operate the brake pedal or accelerator pedal.

As the sensor may not be able to correctly detect these types of vehicles, the approach warning (→P.251) may not operate.

- When a vehicle cuts in front of your vehicle or changes lanes away from your vehicle extremely slowly or quickly
- When changing lanes
- When a preceding vehicle is driving at a low speed
- When a vehicle is stopped in the same lane as the vehicle
- When a motorcycle is traveling in the same lane as the vehicle

n Conditions under which the system may not operate correctly

In the following situations, operate the brake pedal (or accelerator pedal, depending on the situation) as necessary.

As the sensor may not be able to correctly detect a vehicle, the system may not operate properly.

- When a preceding vehicle brakes suddenly
- When changing lanes at low speeds, such as in a traffic jam

n Deceleration for motorcycle and pedestrian

When motorcycle or pedestrian is detected, the system may decelerate.

If the vehicle approaches motorcycle or pedestrian without deceleration sufficiently, an approaching warning may sound.

n Conditions for extended resume time (Vehicles with Traffic Jam Assist)

Extended resume time is activated when all of the following conditions are satisfied:

- The vehicle is driving on a vehicle-only road, such as an expressway.
- There is a preceding vehicle and the system is able to detect it.
- No vehicle interruptions occur.
- The preceding vehicle has not been replaced.
- Parking Assist-Sensor and Front side radar sensors are not detecting the object in front of you.
- The driver monitor camera has not been turned off.
- The driver monitor camera judges that the driver is looking forward.
- The steering wheel has not been operated.
- The brake pedal has not been operated.

n Switching the driving assist mode

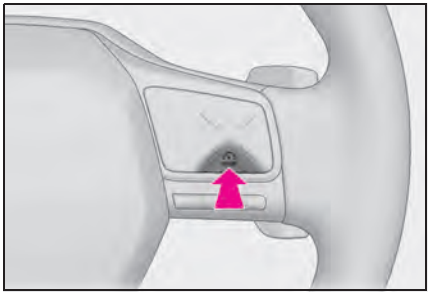
It is possible to switch between Adaptive cruise control mode and Adaptive cruise control eco run mode while the driving assist mode is active.

Dynamic radar cruise control eco run mode

The acceleration suppression and the air drag reduction effect display assist in eco-driving (driving that considers the environment).

n Using the dynamic radar cruise control eco run mode

Press the driving assist mode select switch to select Adaptive cruise control eco run mode.



The Dynamic radar cruise control eco run mode indicator will illuminate.



The methods for setting the speed, changing the set speed and vehicle-to-vehicle distance, and canceling or restoring the control are the same as for Adaptive cruise control mode. (→P.246)

The basic functions in Adaptive cruise control mode operate the same as those in Adaptive cruise control eco run mode. (→P.245)

n Acceleration suppression

Acceleration is reduced according to the conditions to assist eco driving.

n Air drag reduction effect display

The air drag reduction effect that the vehicle obtains from the preceding vehicle is displayed on the meter in 5 levels (effect 0 to 4).

By following a leading vehicle with a high air drag reduction effect, it becomes easier to eco-driving.



● Effect 0 display

Effect 0 is displayed under the following conditions.

- When the vehicle speed is low
- When there is no preceding vehicle
- When the air drag reduction effect of the preceding vehicle is low
- When the accelerator pedal is being operated
- When an approach warning has been issued

● Effect 1 - 4 display

When the vehicle speed reaches approximately 40 mph (60 km/h) or more, the display of effect 1 to 4 starts, which is calculated based on the size of the preceding vehicle and the vehicle-to-vehicle distance.

Approach warning

In situations where the vehicle approaches a preceding vehicle and the system cannot provide sufficient deceleration, such as if a vehicle cuts in front of the vehicle, a warning display will flash and a buzzer will sound to alert the driver. Depress the brake pedal to ensure appropriate vehicle-to-vehicle distance.

n Warnings may not occur when

In the following situations, the warning may not operate even though the vehicle-to-vehicle distance is short.

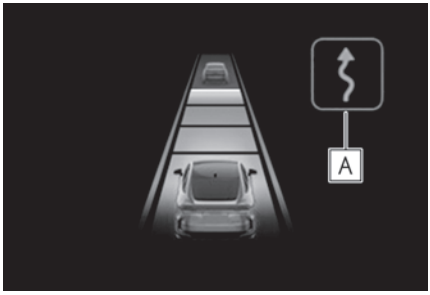
- When the preceding vehicle is traveling at the same speed or faster than your vehicle
- When the preceding vehicle is traveling at an extremely low speed
- Immediately after the vehicle speed has been set
- When the accelerator pedal is depressed

Curve speed reduction function

When a curve is detected, the vehicle speed will begin being reduced. When the curve ends, the vehicle speed reduction will end.

Depending on the situation, the vehicle speed will then return to the set vehicle speed.

In situations where vehicle-to-vehicle distance control needs to operate, such as when a preceding vehicle cuts in front of your vehicle, the curve speed reduction function will be canceled.



A Curve speed reduction control display

n **Situations in which the curve speed reduction function may not operate**

In situations such as the following, the curve speed reduction function may not operate:

- When the vehicle is being driven around a gentle curve
- When the accelerator pedal is being depressed
- When the vehicle is being driven around an extremely short curve

Driver Monitor support function (if equipped)

While a warning of the driver monitor is being displayed, the vehicle acceleration will be restrained.

When the warning of the driver monitor disappears, the restrained acceleration control will end.

Support for lane change

If your vehicle is being driven at approximately 50 mph (80 km/h) or more and a lane change to the passing lane is performed, when the turn signal lever is operated and the lane is changed, the vehicle will accelerate up to the set speed to assist in overtaking.

The system's recognition of which lane is the passing lane may be based solely on the location of the steering wheel in the vehicle (left-hand drive/right-hand drive). If the vehicle is driven in a location where the passing lane is on the opposite side of that where the vehicle was originally sold, the vehicle may accelerate when the turn signal lever is operated away from the passing lane. (e.g. The vehicle was manufactured to be driven on roads for right-hand drive vehicles [that overtake on the right], but is being used on roads for left-hand drive vehicles [that overtake on the left]. In this case, the vehicle may accelerate when the turn signal lever is operated to the right.)

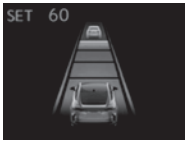
If your vehicle is being driven at approximately 50 mph (80 km/h) or more and the lane is changed to that with a vehicle traveling slower than your vehicle, when the turn signal lever is operated the vehicle will gradually decelerate to assist in changing lanes.

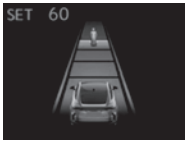
Changing Dynamic radar cruise control settings

- The settings of Dynamic radar cruise control can be changed through customize settings. (→P.520)

Display and system operation state

The operating state of Dynamic radar cruise control is indicated.

Indicator		Multi-information display		Situation
Adaptive cruise control mode 	Adaptive cruise control eco run mode 			
Distance 	Distance 			
White	White		Blank	Dynamic radar cruise control being OFF
Green	Green		Vehicle-to-vehicle distance setting: Green Set vehicle speed: Green	Constant speed cruising
Green	Green		Vehicle-to-vehicle distance setting: Green Set vehicle speed: Green Control target: White	Follow-up cruising
Green	Green		Vehicle-to-vehicle distance setting: Red Set vehicle speed: Green Control target: Red flashing	Approach warning
Green	Green		Vehicle-to-vehicle distance setting: Gray Set vehicle speed: White Control target: Gray	Accelerating with the accelerator pedal

Indicator		Multi-information display		Situation
Adaptive cruise control mode 	Adaptive cruise control eco run mode 			
Distance 	Distance 			
Green	Green		Set vehicle speed: Emphasized display	Set vehicle speed being exceeded
Green	Green		Vehicle-to-vehicledis-tance setting: Gray Set vehicle speed: White Control target: Gray	Vehicle in controlled stop
Green	Green		Control target : Red	Pedestrian display

- The type of object displayed may change depending on the recognition status.
- There may be differences between the head-up display (if equipped) and the Multi-information display.
- When the approach warning is displayed, the road surface may also flash depending on the selected meter display type.

Cruise control

The vehicle can be driven at a set speed even if the accelerator pedal is not depressed.

Use the cruise control only on highways and expressways.

WARNING

n For safe use

- Driving safely is solely the responsibility of the driver. Therefore, do not overly rely on this system. The driver is solely responsible for paying attention to the vehicle's surroundings and driving safely.
- Set the speed appropriately according to the speed limit, traffic flow, road conditions, weather conditions, etc. The driver is responsible for confirming the set speed.

n Situations in which cruise control should not be used

Do not use the cruise control in the following situations. As the system will not be able to provide appropriate control, using it may lead to an accident resulting in death or serious injury.

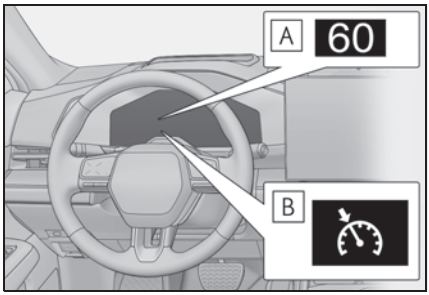
- On roads with sharp bends
- On winding roads
- On slippery roads, such as those covered with rain, ice or snow
- On steep downhills, or where there are sudden changes between sharp up and down gradients

Vehicle speed may exceed the set speed when driving down a steep hill.

- When it is necessary to disable the system: →P.198

System Components

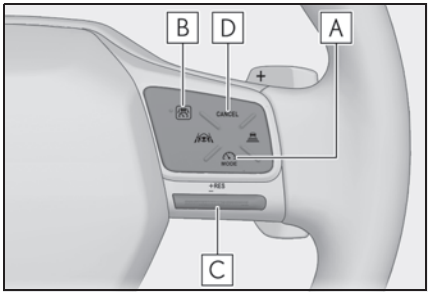
n Meter display



A Set vehicle speed

B Cruise control indicator

n Switches



A Driving assist mode select switch

B Driving assist switch

C "+" switch/"RES" switch/"-" switch

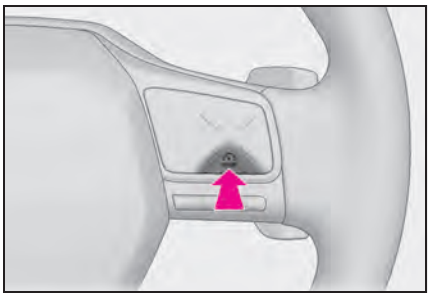
D Cancel switch

Using the cruise control

Setting the vehicle speed

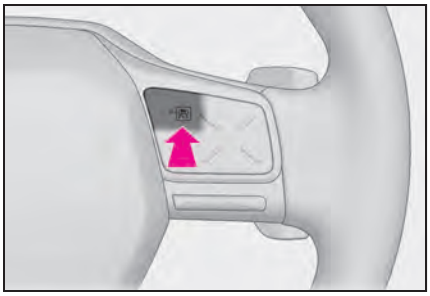
1 Press the driving assist mode select switch to select Cruise control mode.

The cruise control indicator will illuminate.



2 Using the accelerator pedal, accelerate to the desired vehicle speed (approximately 20 mph [30 km/h] or more), and press the driving assist switch to set the set vehicle speed.

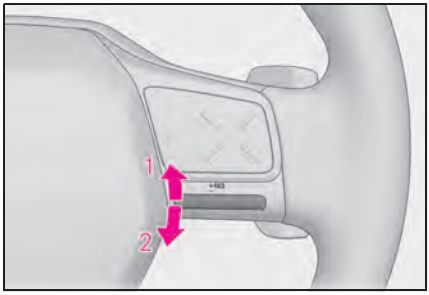
The vehicle speed at the moment the switch is released will be the set vehicle speed.



Adjusting the set vehicle speed

● Adjusting the set vehicle speed using the switches

To change the set vehicle speed, operate the "+" switch/"RES" switch/"-" switch until the desired speed is displayed.



1 Increase set vehicle speed

2 Decrease set vehicle speed

The set vehicle speed will increase or decrease as follows:

Fine adjustment: By 1 mph (1.6 km/h) or 1 km/h (0.6 mph) each time the switch is operated

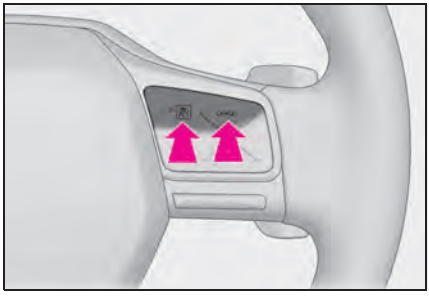
Large adjustment: Increases continuously while the switch is operated and held

● Increasing the set vehicle speed using the accelerator pedal

1 Depress the accelerator pedal to accelerate the vehicle to the desired vehicle speed.

2 Operate the "+" switch/"RES" switch/"-" switch upward.

Canceling/resuming control



1 Press the cancel switch or driving assist switch to cancel control.

Control will also be canceled if the brake

pedal is depressed.

2 Operate the "+" switch/"RES" switch/"-" switch upward.

n Automatic cancellation of the cruise control

In the following situations, the cruise control will be canceled automatically:

- When the vehicle speed drops approximately 10 mph (16 km/h) or more below the set vehicle speed
- When the vehicle speed drops below approximately 20 mph (30 km/h)
- When the brake control or output restriction control of a driving support system operates
- When the parking brake has been operated
- When the driver's seat belt is unfastened
- Situations in which some or all of the functions of the system cannot operate: →P.204

n Switching the driving assist mode

The driving assist mode cannot be switched when the Cruise Control Mode is active. To switch to another driving assist mode, it is necessary to deactivate the Cruise Control Mode first.

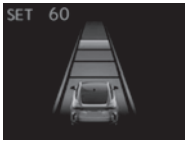
n "Cruise Control Unavailable See Owner's Manual" is shown on the multi-information display.

Cruise control is disabled.

A message is displayed when the driving assist switch is pushed repeatedly. Press the driving assist switch quickly and firmly.

Display and system operation state

The operating state of cruise control is indicated.

Indicator 	Multi-information display		Situation
White		Blank	Cruise control being OFF
Green		Set vehicle speed: Green	Constant speed cruising
Green		Set vehicle speed: Emphasized display	Set vehicle speed being exceeded

Emergency Driving Stop System

The emergency driving stop system is a system which automatically decelerates and stops the vehicle within its lane if the driver becomes unable to continue driving the vehicle, such as if they have suffered a medical emergency, etc.

During LTA (Lane Tracing Assist) operates, if the system does not detect driving operations, such as if the driver is not holding the steering wheel, and determines the driver is not responsive, the vehicle will be decelerated and stopped within its current lane to help avoid a collision or reduce the impact of a collision.

The vehicle will also decelerate/stop during the Traffic Jam Assist operates, when no driver's response to the vehicle's warning to hold the steering wheel is detected. (if equipped)

WARNING

n For safe use

- Driving safely is solely the responsibility of the driver. Pay careful attention to the surrounding conditions in order to ensure safe driving. The emergency driving stop system is designed to provide support in an emergency where it is difficult for the driver to continue driving, such as if they have had a medical emergency. It is not designed to support driving while drowsy or in poor physical health, or inattentive driving.
- Although the emergency driving stop system is designed to decelerate the vehicle within its lane to help avoid or help reduce the impact of a collision if the system determines that it is difficult for the driver to continue driving, its effectiveness may change according to various conditions. Therefore, it may not always be able to achieve the same level of performance. Also, if the operating conditions are not met, this function will not operate.
- After the emergency driving stop system operates, if driving becomes possible again, immediately begin driving again or, if necessary, park the vehicle on the shoulder of the road and set a warning reflector and flare to warn other drivers of your stopped vehicle.
- After this system operates, passengers should attend to the driver as necessary and take appropriate hazard prevention measures, such as moving to a place where safety can be ensured, such as the shoulder of the road or behind a guardrail.
- This system detects the condition of the driver through the operation of the steering wheel. This system may operate if the driver is aware but intentionally and continuously does not operate the vehicle. Also, the system may not operate if it cannot determine that the driver is not responsive, such as if they are leaning on the steering wheel.

Summary of the system

Operation of this system is separated into 3 control states. Through control state warning phase, the system determines if the driver is aware and responsive while outputting a warning and controlling the vehicle speed. If the system determines the driver is not responsive, it will operate in control state “deceleration stop phase” and

"stop hold phase" and decelerate and stop the vehicle. It will then operate continuously in "stop hold phase".

n **Operating conditions**

This system operates when all of the following conditions are met:

- When LTA and dynamic radar cruise control are activated

Or during the Traffic Jam Assist operates (if equipped)

- When the vehicle speed is approximately 22 mph (35 km/h) or more

During the Traffic Jam Assist operates, the system may operate at below 22mph (35km/h) (if equipped)

n **Operation cancelation conditions**

In the following situations, system operation will be canceled:

- When driver operation is detected (emergency flasher switch is operated, the steering wheel and the pedal [brake pedal or accelerator pedal] are operated.)
- When the shift position is set to P while in the stop hold phase
- When the parking brake is operated while in the stop hold phase
- When the brake pedal is operated and the parking brake is canceled while in the stop hold phase
- When the power switch has been turned to OFF

n **Accelerator pedal operation while the system is active**

Acceleration cannot be performed by operating the accelerator pedal while the system is active.

n **LTA and dynamic radar cruise control when operation is canceled**

When emergency driving stop system operation is canceled, LTA and dynamic radar cruise control are canceled.

Warning phase

After entering the warning phase, a buzzer will sound in short intervals and a message will be displayed to warn the driver, and the vehicle will slowly decelerate. If driving operations such as the steering wheel and pedal operation are not performed within a certain amount of time, the system will determine that the driver is not responsive and enter the deceleration stop phase.

When the vehicle is decelerating, the brake lights may illuminate, depending on the road conditions, etc.

Deceleration stop phase

After the system determines that the driver is not responsive, it warns the driver by continuously sounding a buzzer and displaying a message, and then decelerates the vehicle to a stop. After the vehicle comes to a stop, the system will enter the stop hold phase.

Stop hold phase

After the vehicle is stopped, the parking brake will be applied automatically. After entering the stop hold phase, the buzzer will continue sounding continuously, and the emergency flashers (hazard lights) will flash to warn other drivers of the emergency. Additionally, emergency rescue and assistance requests for the driver will be made automatically through the Safety Connect services (only for subscribers).

After the vehicle is stopped, the shift

position is automatically changed to P. After entering the stop hold phase, the buzzer will continue sounding continuously, and the emergency flashers (hazard lights) will flash to warn other drivers of the emergency. Additionally, emergency rescue and assistance requests for the driver will be made automatically through the Safety Connect services (only for subscribers).

n **Automatic connection to Safety Connect services**

After automatically connecting to Safety Connect services, if there is no response from inside the vehicle to a call from the operator, emergency services or the police will be notified for rescue and assistance.

n **Restricted functions after the operation is canceled**

After shifting to the deceleration stop phase, the following functions will not be available until the hybrid system is re-started even though the emergency driving stop system is canceled:

- LTA
- LCA (if equipped)
- Traffic Jam Assist (if equipped)

WARNING

n **Automatic Connection to Safety Connect**

An automatic connection to Safety Connect services is only performed when the user is in the Safety Connect communication area and has a Safety Connect contract. If you are outside the Safety Connect communication area, do not have a Safety Connect contract, or if the contract has not been renewed, the connection will not be made, and no notifications will be sent to the police or emergency services. Please confirm your communication area and your Safety Connect contract in advance before using the system.

Traffic Jam Assist*

*: If equipped

Traffic Jam Assist is a system which, through confirmation of the conditions by the driver, provides lane keeping and vehicle-to-vehicle distance maintenance on some highways and expressways. Also, in an emergency, the system can decelerate and stop, to help avoid a collision or help reduce the impact of a collision.

n **Precautions for use**

→P.203

Sensors used for Traffic Jam Assist

- Sensors which detect the surrounding conditions (→P.199)
- Sensors which detect the driver condition (→P.200)

n **Situations in which some or all of the functions of the system cannot operate**

→P.204

n **Changes in brake operation sound and pedal response**

→P.204

n **Situations in which the driver monitor camera may not operate properly**

→P.205

Emergency Driving Stop System

→P.258

Extended resume time of Dynamic radar cruise control

→P.250

Traffic Jam Assist Function

Traffic Jam Assist function, through confirmation of the conditions by the driver, provides lane keeping and vehicle-to-vehicle distance maintenance on some highways and expressways.



The traffic jam assist function operates when all the following conditions are met. The driver's hands can be hands off the steering wheel while the system is in operation.

- The dynamic radar cruise control is in operation
- LTA is in operation
- The operating conditions of Traffic Jam Assist are met (→P.262)

Before using Traffic Jam Assist function, familiarize yourself with the content of the dynamic radar cruise control and the LTA.

The driver should assume responsibility for vehicle operations when entering a location such as a service area/parking area, interchange, or toll booth, or when changing lanes.

Driver monitor camera recording

When the operation of Traffic Jam Assist is started, the following message will be displayed:

"Allow Driver Monitor Camera Recording?"

When recording is approved, the system records images of the area around the driver in certain crash or near crash-like situations, such as an SRS airbag being deployed or the vehicle hitting an object on the road. (→P.7)

WARNING

n For safe use

- Traffic Jam Assist function is not an automated driving system. Driving safely is solely the responsibility of the driver. Do not overly rely on this system, and pay careful attention to the surrounding conditions in order to ensure safe driving.
- The steering assist of this system is designed to operate only for slow steering operations during a traffic jam. While this function is operating, the lane deviation control function of LDA will not operate. If, for some reason, the vehicle is about to deviate the lane, it is the driver's responsibility to drive properly.
- Even if Traffic Jam Assist is operating properly, the surrounding conditions as recognized by the driver and detected by the system may differ. Therefore, it is necessary for the driver to pay attention, assess risks, and ensure safety. Over-reliance on this system to drive the vehicle safely may lead to an accident resulting in death or serious injury.

WARNING

- In certain situations, a message urging the driver to hold the steering wheel may be displayed by Traffic Jam Assist function. In this case, hold the steering wheel and drive the vehicle manually to ensure safety.
- Traffic Jam Assist function cannot detect the following objects. Operate the steering wheel, accelerator pedal, or brake pedal as necessary to avoid a collision. As the function will not be able to provide appropriate control, using it may lead to an accident resulting in death or serious injury.
  - Fallen objects on road
  - Vehicles outside the lane (such as on the shoulder of the road)
  - Roads with depressions, potholes, cracks, or other damage
  - Animals
  - Extremely close vehicles or vehicles that cut in suddenly

n Situations in which Traffic Jam Assist Function should not be used

Do not use Traffic Jam Assist Function in situations such as the following. As the system will not be able to provide appropriate control, using it may lead to an accident resulting in death or serious injury.

- When it is necessary to disable the system

→P.198

- Situations in which the sensors may not operate properly

→P.203

- Situations in which the lane may not be detected

→P.204

n Situations in which the function may not operate properly

In situations such as the following, Traffic Jam Assist function may not operate properly. Manually operate the vehicle as necessary.

- When a vehicle cuts in front of your vehicle
- When driving in low visibility conditions
- When the vehicle posture is changing
- When the traction on the road surface differs greatly between the left and right side tires
- The map data has not been updated properly.
- When there is a construction zone nearby.

n To prevent malfunction of the radar sensors

→P.200

n To prevent malfunction of the front camera

→P.201

n Front camera installation area on the windshield

→P.202

n Precautions for the driver monitor camera

→P.202

n Operating conditions of the function

This function is operable when all of the following conditions are met:

- The system detects lane lines and the path of preceding or surrounding vehicles.
- The dynamic radar cruise control and LTA are operating.
- The turn signal lever is not being operated.

- The vehicle is not being driven around a sharp curve.
- The vehicle is being driven in the center of a lane.
- The driver monitor camera is detecting that the driver is facing forward.
- The vehicle is driving in traffic jam on a highway or expressway. (Excluding temporary sections where the central dividing strip is separated by poles, expressways without a central dividing strip, or when there is a construction zone nearby.)
- When the vehicle speed is approximately 25 mph (40 km/h) or less. (under some conditions, such as the start of a traffic jam, this function may be operational at approximately 20 mph (30 km/h) or less.)
- When the driver's door is closed.
- Customized setting of Traffic Jam Assist is set to on.
- Functions and components composing the system are in proper condition.
- Customized setting of Driver Monitor Camera is set to on.
- When there are no vehicles traveling at high speeds nearby.
- When the accelerator pedal is not being operated.

Temporary cancelation of the function

- When the operating conditions are no longer met, a function may be temporarily canceled. However, when the operation conditions are met again, operation of the function will automatically be restored.
- If the operating conditions of a function are no longer met while the function is operating, a buzzer sound or display may indicate that the function has been temporarily canceled. If no driver's responses to the indication are detected, the driver emergency stop assist function may operate. For types of display and action to be taken, see the page mentioned below. (→P.264)
- In the following situations, the ability to detect steering operations may be reduced or may not be detectable.
  - When a steering wheel cover is installed
  - When the driver is wearing gloves
  - When foreign matter is attached to the steering wheel
  - When the driver is gripping the wood trim, seam of the leather, spokes, or other part of the steering wheel that does not have sensors

Driving operations during controlled driving

- The steering and acceleration/deceleration control by the system can be adjusted by the driver's operations of the steering wheel, accelerator pedal, and brake pedal.

Changing Traffic Jam Assist settings

The settings of the Traffic Jam Assist can be changed through the customize settings. (→P.520)

Displays and system operation

The following displays indicate the operating status of the Traffic Jam Assist function:

Display		Status	Action to be taken
Icon	Message		
	"Take Control of Steering Wheel"	Traffic Jam Assist function has ended	Operate the steering wheel.
	"Take Control of the Driving Assist Unavailable"	Operation of either or both of dynamic radar cruise control/LTA ended	Manually perform driving operations immediately.
	—	Indicates the driving actions are necessary to cope with cut-in or other behavior of surrounding vehicles	The driver must perform driving operations in accordance with the surrounding environment.
	"Traffic Jam Assist Unavailable Driver Monitor Camera OFF"	Traffic Jam Assist function cannot start because driver monitor camera is set to OFF	Set the driver monitor camera to ON.
	—	Indicates that the recording function of the driver monitor camera is operational(Blinking of this icon indicates that recording is undergoing, and constant illumination indicates ready for recording.)	—

BSM (Blind Spot Monitor)

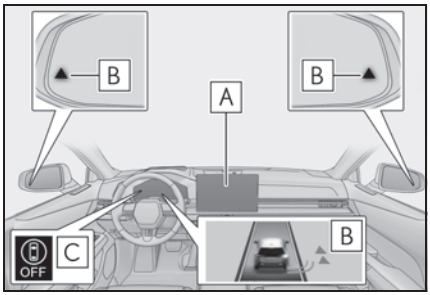
The Blind Spot Monitor is a system that uses radar sensors installed on the inner side of the bumper to assist drivers in confirming safety when changing lanes or turning left or right.

WARNING

n Cautions regarding the use of the system

- The driver is solely responsible for safe driving. Always drive safely, taking care to observe your surroundings.
- The Blind Spot Monitor is a supplementary function which alerts the driver that a vehicle is in a blind spot of the outside rear view mirrors or is approaching rapidly from behind into a blind spot. Do not overly rely on the Blind Spot Monitor. As the function cannot judge if it is safe to change lanes, over reliance could lead to an accident resulting in death or serious injury.
  As the system may not function correctly under certain conditions, the driver's own visual confirmation of safety is necessary.

System components



A Center display

Turning the Blind Spot Monitor on/off.

B Outside rear view mirror indicators and meter display

When a vehicle is detected in a blind spot of the outside rear view mirrors or approaching rapidly from behind into a blind spot, the outside rear view mirror indicator (→P.80) on the detected side will illuminate. If the turn signal lever is operated toward the detected side, the outside rear view mirror indicator will flash, a buzzer will sound, and an icon will be displayed on the meter.(→P.80)

C Driving assist OFF indicator

Illuminates when the Blind Spot Monitor is turned off. At this time, a message will be displayed on the multi-information display.

n Outside rear view mirror indicator visibility

In strong sunlight, the outside rear view mirror indicator may be difficult to see.

n Buzzer

If the volume setting of the audio system is high or the surrounding area is loud, it may be difficult to hear the buzzer.

n Customization

Some functions can be customized. (→P.521)

WARNING

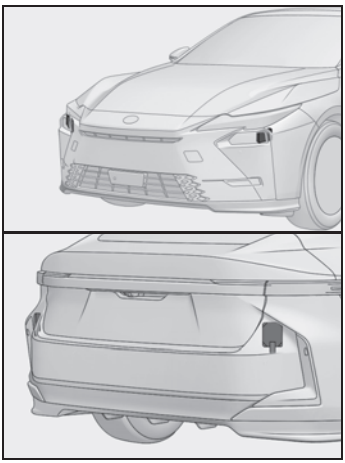
n To ensure the system can operate properly

Blind Spot Monitor sensors are installed behind the left and right sides of the bumper respectively. Observe the following to ensure the Blind Spot Monitor can operate correctly.

WARNING

- Keep the sensors and the surrounding areas on the bumper clean at all times.

If a sensor or its surrounding area on the bumper is dirty or covered with snow, the Blind Spot Monitor may not operate and a warning message will be displayed. In this situation, clear off the dirt or snow and drive the vehicle with the operation conditions of the BSM function (→P.268) satisfied for approximately 10 minutes. If the warning message does not disappear, have the vehicle inspected by your Lexus dealer.



- Do not attach accessories, stickers (including transparent stickers), aluminum tape, etc. to a sensor or its surrounding area on the bumper.
- Do not paint the surrounding area of a sensor on the bumper.
- Do not subject a sensor or its surrounding area on the bumper to a strong impact.
  If a sensor is moved even slightly off position, the system may malfunction and vehicles may not be detected correctly.
  In the following situations, have your vehicle inspected by your Lexus dealer.
  - A sensor or its surrounding area is subject to a strong impact.
  - If a sensor or its surrounding area on the bumper is scratched or dented, or become partially disconnected.
- Do not disassemble the sensor.
- Do not modify the sensor or surrounding area on the bumper.
- If a sensor or the bumper needs to be removed/installed or replaced, contact your Lexus dealer.
- The sensors are likely to be affected by paint on the bumper. If the bumper is not repaired correctly, the Blind Spot Monitor may not operate with a warning message displayed. If any paint repair is needed, contact your Lexus dealer.

Turning the Blind Spot Monitor on/off

The Blind Spot Monitor can be enabled/disabled through a customize setting. (→P.521)

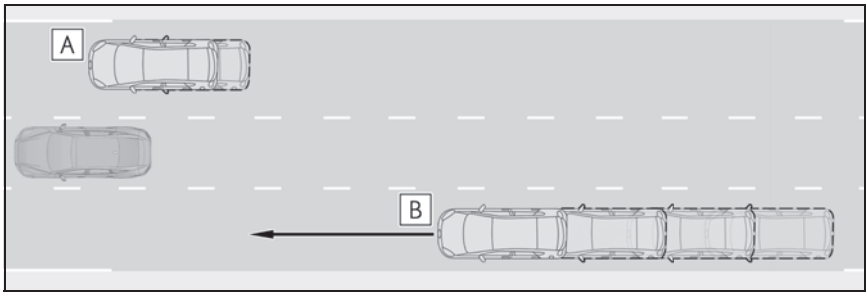
When the Blind Spot Monitor is off, the driving assist OFF indicator (→P.80) will illuminate and a message will be displayed on the multi-information display.

Each time the power switch is turned to ON, the Blind Spot Monitor is enabled.

Blind Spot Monitor operation

n Objects that can be detected while driving

The Blind Spot Monitor uses radar sensors to detect the following vehicles traveling in adjacent lanes and advises the driver of the presence of such vehicles via the indicators on the outside rear view mirrors.

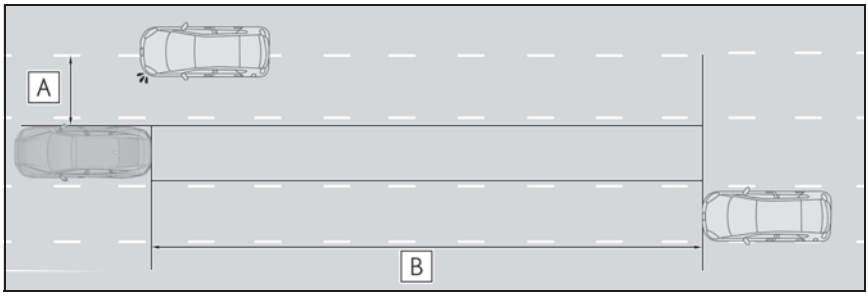


A Vehicles or bicycles that are traveling in areas that are not visible using the outside rear view mirrors (the blind spots)

B Vehicles or bicycles that are approaching rapidly from behind in areas that are not visible using the outside rear view mirrors (the blind spots)

n Detection range while driving

The areas that vehicles can be detected in are outlined below.



The range of each detection area is:

A Up to approximately 11.5 ft. (3.5 m) from either side of the vehicle*1

B Up to approximately 230 ft. (70 m) from the vehicle rear*2

*1: The start of detection may be later than normal for two-wheeled vehicles (such as bicycles and motorcycles) that are overtaking the vehicle at a very close distance to the side.

*2: The greater the difference in speed between your vehicle and the detected vehicle is, the farther away the vehicle will be detected, causing the outside rear view mirror indicator to illuminate or flash.

n The Blind Spot Monitor linked function

The LDA (Lane Departure Alert) has a function that uses information of detected vehicles driving in an adjacent lane. For details about the function and its operating conditions, P.227

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n The Blind Spot Monitor is operational when

The Blind Spot Monitor is operational when all of the following conditions are met:

- The power switch is in ON.
- The Blind Spot Monitor is on.
- The shift position is in a position other than R.
- The vehicle speed is more than 0 mph (0 km/h).

n The Blind Spot Monitor will detect a vehicle when

The Blind Spot Monitor will detect a vehicle or bicycle present in the detection area in the following situations:

- A vehicle in an adjacent lane overtakes your vehicle.
- You overtake a vehicle in an adjacent lane slowly.
- Another vehicle enters the detection area when it changes lanes.

n Situations in which the Blind Spot Monitor cannot detect vehicles

The Blind Spot Monitor cannot detect the following vehicles or objects other than bicycles:

- Pedestrians, etc.*
- Vehicles traveling in the opposite direction
- Guardrails, walls, signs, parked vehicles and similar stationary objects*
- Following vehicles that are in the same lane*
- Vehicles traveling 2 lanes away from your vehicle*
- Vehicles which are being overtaken rapidly by your vehicle*

*: Depending on the conditions, detection of a vehicle and/or object may occur.

n Conditions in which a buzzer may not sound

In situations such as the following, while the turn signal lever is being operated, the indicator will flash but a buzzer may not sound.

- When a second vehicle is detected while the turn signal lever is being held
- When overtaking a vehicle in the adjacent lane at a much higher speed than it*

*: Depending on the situations, a buzzer may sound.

n Conditions under which the system may not function correctly

- The Blind Spot Monitor may not detect vehicles correctly in the following situations:
  - When driving at extremely high speeds
  - The speed of the other vehicle is extremely slow
  - When the sensor is misaligned due to a strong impact to the sensor or its surrounding area
  - When mud, snow, ice, a sticker, etc., is covering the sensor or surrounding area on the bumper
  - When driving on a wet road surface, such as in a puddle, while in inclement weather, such as heavy rain, snow, fog, etc.
  - When multiple vehicles are approaching with only a small gap between each vehicle
  - When the distance between your vehicle and a following vehicle is short
  - When there is a significant difference in speed between your vehicle and the vehicle that enters the detection area
  - When the difference in speed between your vehicle and another vehicle is changing
  - When a vehicle enters a detection area traveling at about the same speed as your vehicle
  - As your vehicle starts from a stop, a vehicle remains in the detection area
  - When driving up and down consecutive

steep inclines, such as hills, dips in the road, etc.
- When turning the steering wheel a large amount, such as driving on roads with sharp bends or consecutive curves
- When driving on uneven surfaces
- When vehicle lanes are wide, or when driving on the edge of a lane, and the vehicle in an adjacent lane is far away from your vehicle
- When an accessory (such as a bicycle carrier) is installed to the rear of the vehicle
- When there is a significant difference in height between your vehicle and the vehicle that enters the detection area
- Immediately after the Blind Spot Monitor is turned on
- When towing with the vehicle

l Particularly in the following situations, the system may operate unnecessarily:
- When turning left or right at an intersection that has multiple dedicated left turn lanes or right turn lanes
- When a following vehicle approaches in a position offset laterally from the rear of the vehicle
- When the sensor is misaligned due to a strong impact to the sensor or its surrounding area
- When the distance between your vehicle and a guardrail, wall, etc. that enters the detection area is short
- When driving up and down consecutive steep inclines, such as hills, dips in the road, etc.
- When vehicle lanes are narrow, or when driving on the edge of a lane, and a vehicle traveling in a lane other than the adjacent lanes enters the detection area
- When driving on roads with sharp bends, consecutive curves, or uneven surfaces
- When the tires are slipping or spinning
- When the distance between your vehicle and a following vehicle is short
- When an accessory (such as a bicycle carrier) is installed to the rear of the vehicle
- When towing with the vehicle

Safe Exit Assist

The safe exit assist (with door opening control) is a system that uses rear side radar sensors installed on the inner side of the rear bumper to help occupants judge if an approaching vehicle or bicycle may collide with a door when exiting or cancel opening of a door, to help reduce the possibility of a collision.

⚠ WARNING

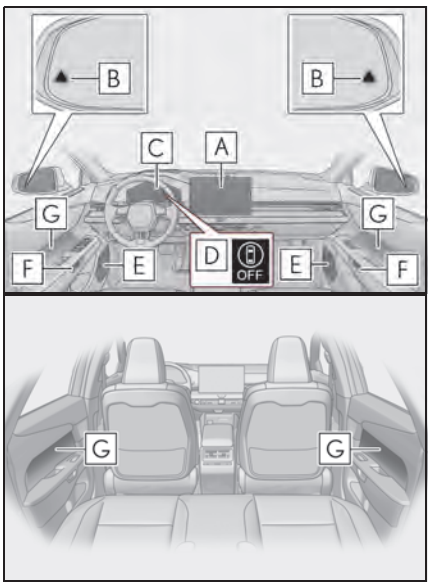
n **Cautions regarding the use of the system**

l The driver is solely responsible for safe driving. Always drive safely, taking care to observe your surroundings.

l The safe exit assist is a supplementary system that, when the vehicle is stopped, informs occupants of the existence of approaching vehicles and bicycles. As this system alone cannot be used to judge safety, over-reliance on this system may lead to an accident resulting in death or serious injury.

In certain situations, this system may not function to its fullest extent. Therefore it is necessary for the occupants to visually check for safety directly and using the mirrors.

System components



A Center display

Turning the safe exit assist on/off.

B Outside rear view mirror indicators

When a vehicle or bicycle which may collide with a door (other than the trunk) when opened is detected, the outside rear view mirror indicator (→P.80) on the detected side will illuminate. If the door on the detected side is open, or opening of the door is canceled, the outside rear view mirror indicator will blink.

C Multi-information display

If collision with a door is likely and the door is opened or opening of the door is canceled, the door will be displayed on the multi-information display. Also, if a door is opened when an outside rear view mirror indicator is illuminated, a buzzer will sound as a warning.

After the power switch is turned off, a message may be displayed on the multi-information display when the safe exit assist operation conditions are no longer met.

(This may not be displayed if all the doors were locked from outside the vehicle.)

D Driving assist OFF indicator

Illuminates when the safe exit assist is turned off. At this time, a message will be displayed on the multi-information display.

E Speakers

When the outside rear view mirror indicator blinks, the driver is informed through voice guidance that the system has operated. After the notification through voice guidance is made, no more voice guidance notifications will be made again until the door is fully closed.

F Door opener switch (manual release handle)

If a door opener switch is operated to open a door while the outside rear view mirror indicator on that side is illuminated and the system determines that the possibility of the door or an exiting occupant colliding with a vehicle or bicycle is high, opening of the door will be canceled.

G Door Illumination

When a vehicle or bicycle which may collide with a door (other than the trunk) when opened is detected, the door Illumination (red) on the detected side will illuminate. If the door on the detected side is open, or opening of the door is canceled, the door Illumination (red) will blink.

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n **Outside rear view mirror indicator visibility**

In strong sunlight, the outside rear view mirror indicator may be difficult to see.

n **Buzzer**

If the volume setting of the audio system is high or the surrounding area is loud, it may be difficult to hear the buzzer.

n Voice notifications

In the following situations, voice notifications will not be output:

- When it is estimated that no occupants are on board*
- After opening a door and entering the vehicle, until the hybrid system is started
- When 3 minutes or more have elapsed since the hybrid system was stopped
- When the language setting of the center display has been set to a language that does not support voice notifications
- When all of the doors have been locked from outside the vehicle
- When a door remains open for 1 minute or more after the hybrid system is stopped
- When the ACC mode (→P.517) has been enabled through a customize setting on the center display and the hybrid system has been stopped
- When the parking assist volume setting on the center display has been set to off

*: For each seating position, judgment is made based on the opening and closing of a door, before driving for ingress and after driving for egress.

n Opening of a door can be canceled when

Opening of a door can be canceled only when the inside door opener switch is pushed in. Opening of a door will not be able to be canceled when the outside door opener switch is used.

n Door illumination notifications

- Notifications may not be visible, depending on the door illumination customization function (→P.525) or surrounding environment, etc.
- When the power switch is ON, the seat belt of the front right seat fastened, and the door of the rear right seat is locked, the door illuminate. (The same control also applies to the left side.)

n Customization

- Some functions can be customized. (→P.521)
- The door illumination warning can be turned on or off in the customization settings. (→P.525)

WARNING

n To ensure the system can operate properly

→P.265

Turning the safe exit assist system ON/OFF

The safe exit assist system can be enabled/disabled through a customize setting. (→P.521)

When the safe exit assist is off, the driving assist OFF indicator will illuminate and a message will be displayed on the multi-information display.

Each time the power switch is turned to ON, the safe exit assist is enabled.*

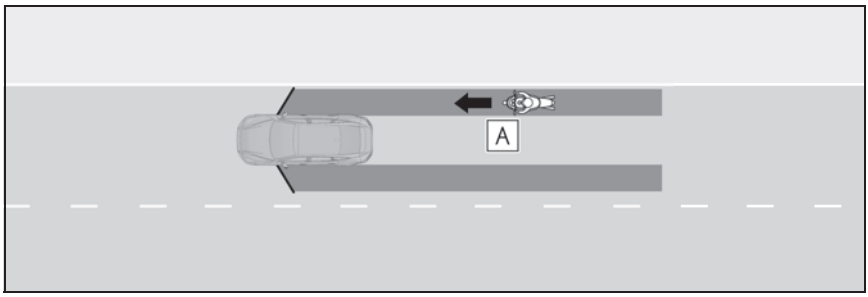
*: When the power switch is turned off and then to ON immediately after that, the safe exit assist may not be enabled.

Safe exit assist operation

n Objects that can be detected by the safe exit assist

When the safe exit assist detects the following vehicles or bicycles behind your vehicle using a rear side radar sensor, the occupants of the vehicle are informed

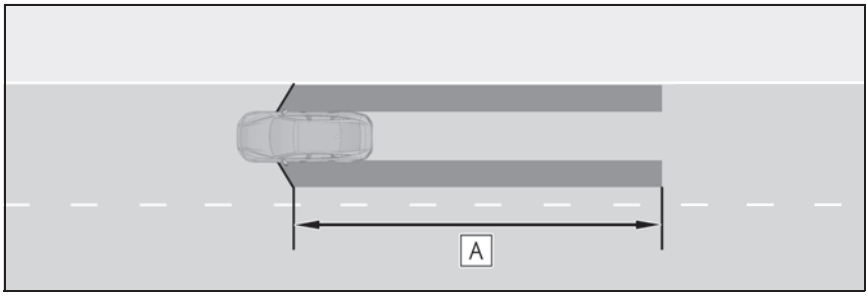
through an outside rear view mirror indicator, door Illumination (red), buzzer, multi-information display, and voice notification.



A Vehicle or bicycle which has a high possibility of colliding with a door when opened

n The safe exit assist detection areas

The areas that vehicles can be detected in are outlined below.



A Approximately 145 ft. (45 m) rearward from the front door*

*: The faster a vehicle or bicycle is approaching, the distance at which an outside rear view mirror indicator and door Illumination (red) will illuminate or blink will become further.

n The safe exit assist is operational when

The safe exit assist is operational when all of the following conditions are met:

- When the power switch is ON, less than 3 minutes have elapsed since the hybrid system was off, or less than 3 minutes have elapsed since a door was opened and someone has entered the vehicle (the time which operation is possible may be extended if a door is opened and closed)
- Safe exit assist is on
- The vehicle is stopped.

n The safe exit assist will detect a vehicle when

The safe exit assist will detect a vehicle present in the detection area in the following situations:

- When the vehicle is stopped and a vehicle or bicycle, which is traveling parallel to the vehicle, is approaching within the area that a door opens

n Conditions under which the system will not detect a vehicle

- Safe exit assist does not detect the following objects, vehicles, and bicycles:
  - Vehicles or bicycles which are approach-

ing slowly*
- Vehicles or bicycles which are determined to have a low possibility of colliding with a door when opened*
- Vehicles or bicycles which are approaching from directly behind*
- Vehicles or bicycles which are approaching from the front*
- Guardrails, walls, signs, parked vehicles, and other stationary objects*
- Pedestrians, animals, etc.*

*: Depending on the conditions, detection of a vehicle and/or object may occur.

In situations such as the following, safe exit assist will not operate:
- When 3 minutes or more have elapsed since the hybrid system off (the time which operation is possible may be extended if a door is opened and closed)
- When your vehicle is not completely stopped

n Opening the doors when opening is canceled by the system

Perform the following operation to open a door.

After the approaching vehicle or bicycle passes or changes direction, check the surrounding area and press the inside door opener switch again. Perform the following only in an emergency, etc., to open a door while the warning is operating, after checking the safety of the area around your vehicle.
- Press and hold an inside door opener switch for approximately 3 seconds or more
- Press an inside door opener switch quickly 3 times or more
- Pull a manual release handle

n Conditions under which the system may not function correctly

The safe exit assist may not detect vehicles correctly in the following situations:
- When the sensor is misaligned due to a strong impact to the sensor or its surrounding area
- When mud, snow, ice, a sticker, etc. is covering the sensor or surrounding area on the rear bumper
- When the vehicle is stopped on a wet road surface, such as in a puddle, while in inclement weather, such as heavy rain, snow, fog, etc.
- When a vehicle or bicycle approaches from behind a nearby parked vehicle
- When an approaching vehicle or bicycle suddenly changes direction
- Immediately after a vehicle or bicycle starts moving
- When the trunk is open
- When a bicycle carrier, ramp, or other accessory is installed to the back of the vehicle
- When a parked vehicle, wall, sign, person or other stationary object is behind the vehicle
- When the vehicle is stopped at an angle to the road
- When a vehicle is traveling near an approaching vehicle or bicycle
- When an approaching vehicle or bicycle is traveling along a stationary object, such a wall or sign
- When an approaching vehicle or bicycle is traveling on a metal cover (grating), such as those used for drainage ditches
- When a vehicle or bicycle is approaching at high speed
- When towing with the vehicle
- When stopped on a steep slope
- When stopped on a curve or at the exit of a curve

Instances of the safe exit assist unnecessarily detecting a vehicle and/or object may increase in the following situations:
- When the sensor is misaligned due to a strong impact to the sensor or its surrounding area
- When a vehicle or bicycle approaches your vehicle from directly behind in an offset position
- When the vehicle is stopped at an angle to the road
- When a vehicle or bicycle approaches from behind a parked vehicle at an angle
- When a parked vehicle, wall, sign, person or other stationary object is behind the vehicle
- When an approaching vehicle or bicycle suddenly changes direction
- When an approaching vehicle or bicycle is traveling along a stationary object, such a wall or sign

- When the trunk is open
- When a bicycle carrier, ramp, or other accessory is installed to the back of the vehicle
- When a vehicle or bicycle is approaching at high speed
- When towing with the vehicle
- When stopped on a steep slope
- When stopped on a curve or at the exit of a curve
- When a vehicle or bicycle approaches from behind a vehicle stopped in an adjacent lane

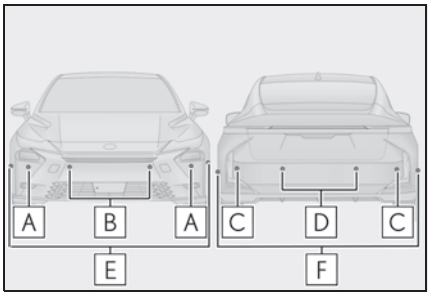
Parking Assist-Sensor*

*: If equipped

The Parking Assist-Sensor function detects the approximate distance from the vehicle and an object such as a wall using ultrasonic sensors and informs the driver with the center display distance display and buzzer.

System components

n **Type of sensors**



A Front corner sensors

B Front center sensors

C Rear corner sensors

D Rear center sensors

E Front side sensors (vehicles with Advanced Park)

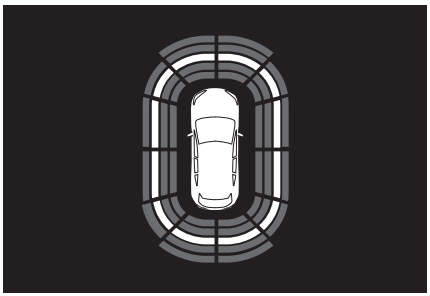
F Rear side sensors (vehicles with Advanced Park)

n **Display**

When the sensors detect an object, such as a wall, a graphic is shown on the center display depending on the position and distance to the object.

The illustration is an example for expla-

nation and may differ depending on the specifications.



n Parking Assist-Sensor detection indicator*

When the sensors detect an object, Parking Assist-Sensor detection indicator illuminates.

*: If equipped

n How to check the presence of Parking Assist-Sensor detection indicator

On vehicles with the Parking Assist-Sensor detection indicator, the Parking Assist-Sensor OFF indicator (→P.275) will turn off when the shift position is changed to R while the Parking Assist-Sensor is disabled.

Turning the Parking Assist-Sensor function ON/OFF

The Parking Assist-Sensor function can be enabled/disabled through a customize setting. (→P.521)

When the Parking Assist-Sensor function is disabled, the Parking Assist-Sensor OFF indicator (→P.79) illuminates on the multi-information display.

If the system switches to OFF (disabled) and the Parking Assist-Sensor is stopped, the Parking Assist-Sensor will not be re-enabled until ON (enabled) is selected again from the customize setting (→P.521).

(It remains off even if the power switch is turned to ON again after the power switch has been turned off.)

Vehicles with the Parking Assist-Sensor detection indicator: The system will automatically turn on (enabled) and the Parking Assist-Sensor OFF indicator will turn off if the shift position is changed to R.

When the shift position is R, the Parking Assist-Sensor cannot be turned on or off.

The setting of Parking Assist-Sensor itself will not change.

⚠ WARNING

n Cautions regarding the use of the system

There is a limit to the degree of recognition accuracy and control performance that this system can provide, do not overly rely on this system. The driver is always responsible for paying attention to the vehicle's surroundings and driving safely.

n To ensure the system can operate properly

Make sure to observe the following precautions. The system may not operate properly and may lead to an unexpected accident. When these precautions cannot be observed, turn the system off.

- Do not damage the sensors, and always keep them clean.
- Do not attach a sticker or install a component, such as a backlit license plate (especially fluorescent type), fog lights, fender pole or wireless antenna near a radar sensor.

WARNING

- Do not subject the surrounding area of the sensor to a strong impact. If subjected to an impact, have the vehicle inspected by your Lexus dealer. If the front or rear bumper needs to be removed/installed or replaced, contact your Lexus dealer. If a sensor or the bumper needs to be removed/installed or replaced, contact your Lexus dealer.
- Do not modify, disassemble or paint the sensors.
- Do not attach a license plate cover.
- Keep your tires properly inflated.
- Do not install a suspension other than a genuine suspension.

Notes when washing the vehicle

- When using a high pressure washer to wash the vehicle, do not spray the sensors directly, as doing so may cause a sensor to malfunction.
- When using steam to clean the vehicle, do not direct steam too close to the sensors, as doing so may cause a sensor to malfunction.

After recharging/reconnecting the 12-volt battery

The system needs to be initialized. Since initialization is performed automatically while driving, continue driving for a while.

The system can be operated when

- The power switch is in ON.
- The Parking Assist-Sensor is on.
- The vehicle speed is less than about 6 mph (10 km/h).
- Front corner sensors:
  - The shift position is in a position other than P.
- Front center sensors:
  - The shift position is in a position other than P or R.
- Rear corner and rear center sensors:
  - The shift position is in R.
- Side sensors: (vehicles with Advanced Park)
  - The vehicle is moving about 23.0 ft. (7 m) after the hybrid system was started.
  - The vehicle is moving about 23.0 ft. (7 m) after the shift position was changed from R to D.
  - The shift position is in R.
  - The center display is displayed.
  - The front or rear sensor detects a stationary object.
- Vehicles with the Parking Assist-Sensor detection indicator: Even when the Parking Assist-Sensor is turned off (disabled), if the shift position is changed to R, the system will automatically turn on (enabled) and the Parking Assist-Sensor OFF indicator will turn off.
  The setting of the Parking Assist-Sensor itself will not change.

Sensor detection information

- The sensor's detection areas are limited to the areas around the vehicle's front and rear bumpers.
- Certain vehicle conditions and the surrounding environment may affect the ability of a sensor to correctly detect an object.
- Objects may not be detected if they are too close to the sensor.
- There will be a short delay between object detection and display. Even at low speeds, there is a possibility that the object will come within the sensor's detection areas before the display is shown and the warning beep sounds.
- It might be difficult to hear the buzzer due to the volume of the audio system or air flow noise of the air conditioning system.
- It may be difficult to hear the sound of this system due to the buzzers of other systems.
- If the meter malfunctions, the buzzer may not sound.

Objects which the system may not be properly detected

The shape of the object may prevent the

sensor from detecting it. Pay particular attention to the following objects:

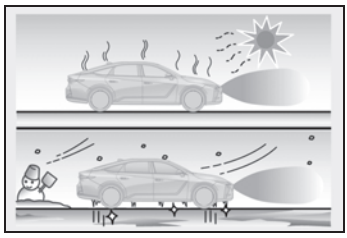
- Wires, fences, ropes, etc.
- Cotton, snow and other materials that absorb sound waves
- Sharply-angled objects
- Low objects
- Tall objects with upper sections projecting outwards in the direction of your vehicle

People may not be detected if they are wearing certain types of clothing.

n Situations in which the system may not operate properly

Certain vehicle conditions and the surrounding environment may affect the ability of a sensor to correctly detect objects. Particular instances where this may occur are listed below.

- There is dirt, snow, water drops or ice on a sensor. (Cleaning the sensors will resolve this problem.)
- A sensor is frozen. (Thawing the area will resolve this problem.)
  In especially cold weather, if a sensor is frozen the sensor display may be displayed abnormally, or objects, such as a wall, may not be detected.
- When a sensor or the area around a sensor is extremely hot or cold.

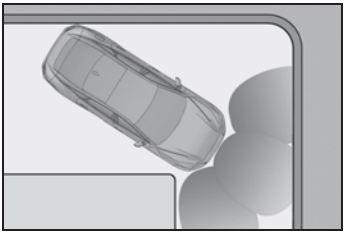


- On an extremely bumpy road, on an incline, on gravel, or on grass.
- When vehicle horns, vehicle detectors, motorcycle engines, air brakes of large vehicles, the clearance sonar of other vehicles or other devices which produce ultrasonic waves are near the vehicle
- A sensor is coated with a sheet of spray or heavy rain
- If objects draw too close to the sensor.
- When a pedestrian is wearing clothing that does not reflect ultrasonic waves (ex. skirts with gathers or frills).
- When the vehicle is approaching while turning.
- When objects that are not perpendicular to the ground, not perpendicular to the vehicle traveling direction, uneven, or waving are in the detection range.
- When strong winds are blowing
- When driving in inclement weather such as fog, snow or a sandstorm
- When an object that cannot be detected is between the vehicle and a detected object
- If an object such as a vehicle, motorcycle, bicycle or pedestrian cuts in front of the vehicle or runs out from the side of the vehicle
- If the orientation of a sensor has been changed due to a collision or other impact
- When equipment such as a towing eyelet, transport hook, bumper protector, bumper trim, bicycle carrier or snow-removal device (snow plow) is installed near the sensor
- If the front of the vehicle is raised or lowered due to the carried load
- If the vehicle cannot be driven in a stable manner, such as when the vehicle has been in an accident or is malfunctioning
- When tire chains, compact spare tire or an emergency tire puncture repair kit are used
- When towing with the vehicle

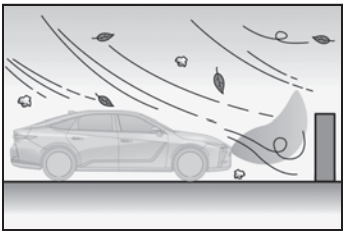
n Situations in which the system may operate even if there is no possibility of a collision

In some situations, such as the following, the system may operate even though there is no possibility of a collision.

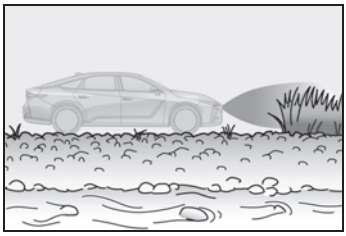
- When driving on a narrow road



- When driving toward a banner, flag, low-hanging branch or boom barrier (such as those used at railroad crossings, toll gates and parking lots)
- When there is a rut or hole in the surface of the road
- When driving on a metal cover (grating), such as those used for drainage ditches
- When driving up or down a steep slope
- If a sensor is hit by a large amount of water, such as when driving on a flooded road
- There is dirt, snow, water drops or ice on a sensor. (Cleaning the sensors will resolve this problem.)
- A sensor is coated with a sheet of spray or heavy rain
- When driving in inclement weather such as fog, snow or a sandstorm
- When strong winds are blowing



- When vehicle horns, vehicle detectors, motorcycle engines, air brakes of large vehicles, the clearance sonar of other vehicles or other devices which produce ultrasonic waves are near the vehicle
- If the front of the vehicle is raised or lowered due to the carried load
- If the orientation of a sensor has been changed due to a collision or other impact
- The vehicle is approaching a tall or curved curb
- Driving close to columns (H-shaped steel beams, etc.) in multi-story parking garages, construction sites, etc.
- If the vehicle cannot be driven in a stable manner, such as when the vehicle has been in an accident or is malfunctioning
- On an extremely bumpy road, on an incline, on gravel, or on grass

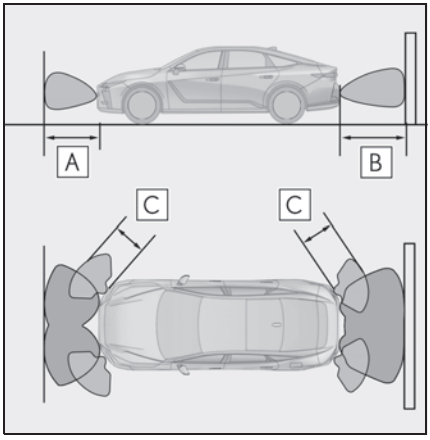


- When tire chains, compact spare tire or an emergency tire puncture repair kit are used
- When towing with the vehicle

Sensor detection display, object distance

n Detection range of the sensors

▶ Vehicles without Advanced Park



A Approximately 3.3 ft. (100 cm)

B Approximately 4.9 ft. (150 cm)

C Approximately 2.0 ft. (60 cm)

The diagram shows the detection range of the sensors. Note that the sensors cannot detect objects that are extremely close to the vehicle.

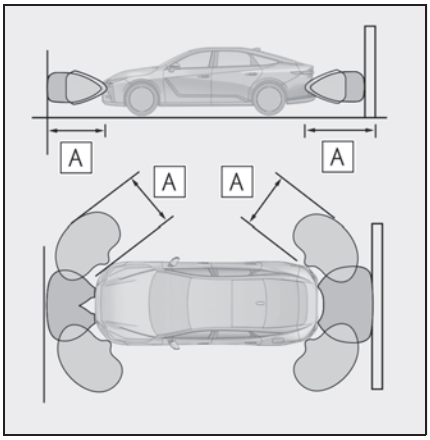
The range of the sensors may change depending on the shape of the object, etc.

A Approximately 6.6 ft (200 cm)

The diagram shows the detection range of the sensors. Note that the sensors cannot detect objects that are extremely close to the vehicle.

The range of the sensors may change depending on the shape of the object, etc.

▶ Vehicles with Advanced Park



n **The distance and buzzer**

▶ Vehicles without Advanced Park

Approximate distance to obstacle	Buzzer
Front center sensor: Approximately 3.3 ft. (100 cm) to 2.0 ft. (60 cm)* Rear center sensor: Approximately 4.9 ft. (150 cm) to 2.0 ft. (60 cm)*	Slow
Approximately 2.0 ft. (60 cm) to 1.5 ft. (45 cm)*	Medium
Approximately 1.5 ft. (45 cm) to 1.0 ft. (30 cm)*	Fast
Approximately less than 1.0 ft. (30 cm)	Continuous

*: Automatic buzzer mute function is enabled. (→P.280)

▶ Vehicles with Advanced Park

Approximate distance to obstacle	Buzzer
Front center sensor: Approximately 6.6 ft. (200 cm) to 3.3 ft. (100 cm) Rear center sensor: Approximately 6.6 ft. (200 cm) to 4.9 ft. (150 cm) Corner sensor: Approximately 6.6 ft. (200 cm) to 2.0 ft. (60 cm)	Does not sound (Display only)
Front center sensor: Approximately 3.3 ft. (100 cm) to 2.0 ft. (60 cm)* Rear center sensor: Approximately 4.9 ft. (150 cm) to 2.0 ft. (60 cm)*	Slow
Front/Rear center sensor and Corner sensor: Approximately 2.0 ft. (60 cm) to 1.5 ft. (45 cm)*	Medium
Front/Rear center sensor and Corner sensor: Approximately 1.5 ft. (45 cm) to 1.0 ft. (30 cm)*	Fast
Approximately less than 1.0 ft. (30 cm)	Continuous

*: Automatic buzzer mute function is enabled. (→P.280)

n Parking Assist-Sensor buzzer

A buzzer sounds when the sensors are operating.

- The buzzer beeps faster as the vehicle approaches a static object. When the vehicle comes within the approximately 1.0 ft. (30 cm) of the object, the buzzer will sound continuously.
- When 2 or more sensors simultaneously detect a static object, the buzzer sounds for the nearest object.
- After an intermittent buzzer begins sounding, if the distance between the vehicle and the detected static

object does not become shorter, the buzzer will be muted automatically. (automatic buzzer mute function)

- If the RCTA or RCD is activated at the same time, the buzzer will sound with priority for objects determined by the system to have high risk of causing a collision.

n **Adjusting the buzzer volume**

The buzzer volume of the Parking Assist-Sensor, RCTA and RCD can all be changed at once from the customize settings. (→P.510)

n **Muting a buzzer**

When the temporary mute switch is displayed on the center display, this switch can be pressed to temporarily mute the buzzer.

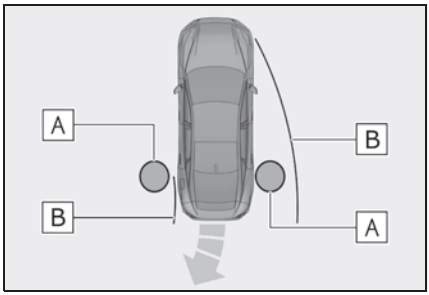
Select the switch to mute a buzzer of the Parking Assist-Sensor, RCTA and RCD all together.

Select the switch again to cancel.

l Mute will be automatically canceled in the following situations:
- When the shift position is changed.
- When the vehicle speed exceeds a certain speed.
- When the power switch is turned off.

Parking Assist-Sensor object warning function (vehicles with Advanced Park)

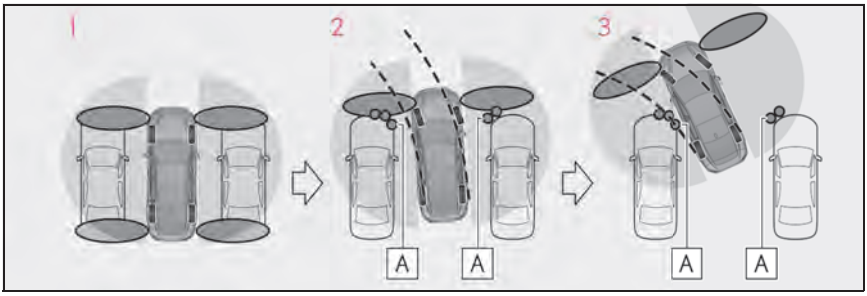
The object warning function informs the driver of the existence of objects along the side of the vehicle, using a display and buzzer, if the objects are within the estimated path of the vehicle.



A Object

B Calculated vehicle route

When the vehicle is moving, the side sensors or side cameras can detect objects. While the vehicle is moving, if a detected object can no longer be detected by the side sensors or side cameras, the location of the object relative to the vehicle is estimated. If the object is determined to be in the estimated path of the vehicle, the object warning function will operate.



A Object detected by side sensors or side cameras

1 The vehicle is stopped and objects along the sides of the vehicle are not

detected.

2 Objects are detected as the vehicle is moving.

3 Even though the objects are outside of the detection area of the side sensors or side cameras, a warning is displayed and a buzzer sounds.

n **Object warning function operating conditions**

- After the hybrid system has been started, the vehicle has moved 23.0 ft. (7 m) or less.
- After the D shift position has been selected, the vehicle has moved 23.0 ft. (7 m) or less.
- The R shift position is selected.
- The center display is displayed.
- The front or rear sensor detects a stationary object.
- When the driver, passenger, and rear doors are completely closed.

n **Detection of objects along the sides of the vehicle**

- Objects along the sides of the vehicle are not instantaneously detected. The location of objects in relation to the vehicle is estimated after they are first detected by the front or rear side sensors, or side cameras. Therefore, after the power switch is changed to ON, even if an object is along the side of the vehicle, it may not be detected until the vehicle has been driven a small amount and the side sensors or side cameras completely scan the areas along the sides of the vehicle.
- If a vehicle, person, animal, etc., is detected by a side sensors or side cameras, but then leaves the detection area of the side sensors or side cameras, the system will assume the object has not moved.

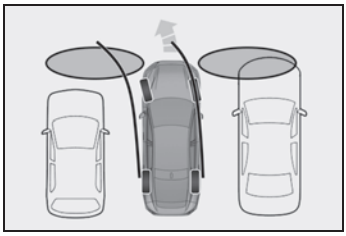
WARNING

n **Side sensors and side cameras**

In situations such as the following, the function may not operate correctly, possibly leading to an accident. Proceed carefully.

- When starting off shortly after the power switch is turned to ON and a small vehicle or other object which cannot be detected by a front side sensor is next to the vehicle.

In the situation shown in the following illustration, even if the vehicle starts off, the vehicle on the left will not be detected and the object warning function will not operate.



- When an object or person is in a position which cannot be detected by the side sensors or side cameras.
- When a vehicle, person, or other object approaches the side of the vehicle after the side sensors have completed scanning the areas along the sides of the vehicle.
- When the outside rear view mirrors are folded.
- If the 12-volt battery was discharged or has been removed and installed, fold and extend the outside rear view mirrors.
- When the driver, passenger, or rear door is opened.

RCTA (Rear Cross Traffic Alert) function

When the vehicle is backing up, the RCTA (Rear Cross Traffic Alert) function can detect vehicles or bicycles in the detection area behind the vehicle. If a vehicle or bicycle is detected, the outside rear view mirror indicators will blink, a buzzer will sound, and an icon will be displayed on the center display to inform the driver of the vehicle or bicycle.

WARNING

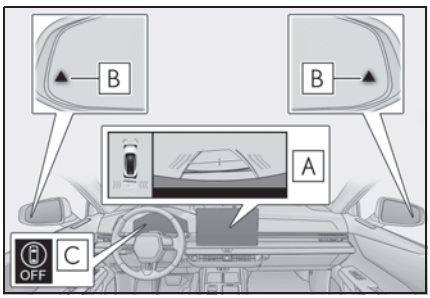
n Cautions regarding the use of the system

The driver is solely responsible for safe driving. Always drive safely, taking care to observe your surroundings. The RCTA function is only a supplementary function which alerts the driver that a vehicle or bicycle is approaching from the right or left at the rear of the vehicle. As the RCTA function may not function correctly under certain conditions, the driver's own visual confirmation of safety is necessary. Over reliance on this function may lead to an accident resulting death or serious injury.

n To ensure the system can operate properly

→P.265

System components



A Center display

If a vehicle or bicycle approaching from the right or left at the rear of the vehicle is detected, the RCTA icon (→P.284) for the detected side will be displayed on the center display. This illustration* shows an example of a vehicle or bicycle approaching from both sides of the vehicle.

*: Depending on the equipped options, the bird's-eye view of the vehicle may not be displayed or displays may not appear on the center display.

B Outside rear view mirror indicators

If a vehicle or bicycle is detected as approaching from the left or right behind the vehicle, outside rear view mirror indicators (→P.80) on the side of the approaching vehicle or bicycle will blink and a buzzer will sound.

C Driving assist OFF indicator

Illuminates when the RCTA is turned off. At this time, a message will be displayed on the multi-information display.

Turning the RCTA function on/off

The RCTA can be enabled/disabled through a customize setting. (→P.522)

When the RCTA function is off, the

Driving assist OFF indicator (→P.80) will illuminate and a message will be displayed on the multi-information display. Each time the power switch is turned to ON, the RCTA function is enabled.

n **Outside rear view mirror indicator visibility**

In strong sunlight, the outside rear view mirror indicator may be difficult to see.

n **Hearing the RCTA buzzer**

The RCTA buzzer may be difficult to hear over loud noises, such as if the audio system volume is high.

n **Rear side radar sensors**

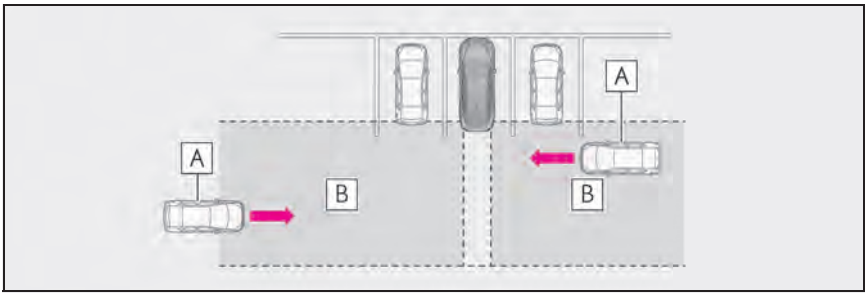
→P.265

RCTA function

n Operation of the RCTA function

The RCTA function uses rear side radar sensors to detect vehicles or bicycles approaching from the right or left at the rear of the vehicle and alerts the driver of the presence of such vehicles or bicycles by flashing the outside rear view mirror indicators, sounding a buzzer*, and an icon displayed on the center display.

*: The buzzer does not sound when the vehicle is stopped.



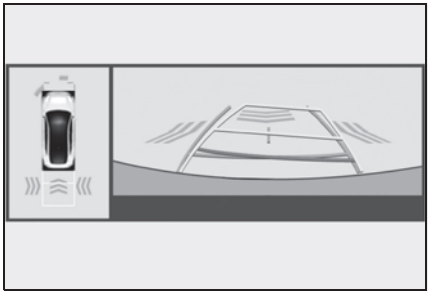
A Approaching vehicles or bicycles

B Detection areas of approaching vehicles or bicycles

n RCTA icon display

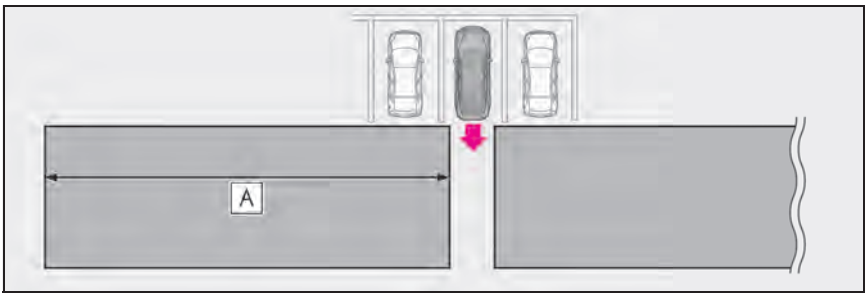
When a vehicle or bicycle approaching from the right or left at the rear of the vehicle is detected, the following will be displayed on the center display.

Example: Vehicles or bicycles are approaching from both sides of the vehicle



n RCTA function detection areas

The areas that vehicles or bicycles can be detected in are outlined below.



The buzzer can alert the driver of faster vehicles or bicycles approaching from farther away.

Example:

Approaching vehicle or bicycle speed	A Approximate alert distance
34 mph (56 km/h) (fast)	98 ft. (30 m)
5 mph (8 km/h) (slow)	13 ft. (4 m)

n After recharging/reconnecting the 12-volt battery

The system needs to be initialized. Since initialization is performed automatically while driving, continue driving for a while.

n The RCTA function is operational when

The RCTA function operates when all of the following conditions are met:

- The power switch is in ON.
- The RCTA function is on.
- The shift position is in R.
- The vehicle speed is less than approximately 9 mph (15 km/h).
- The approaching vehicle speed is between approximately 5 mph (8 km/h) and 34 mph (56 km/h).
- The outside rear view mirrors are not retracted.

n Setting the buzzer volume

The buzzer volume of the RCTA, Parking Assist-Sensor and RCD can be adjusted all together through a customize setting. (→P.522)

n Muting a buzzer temporarily

When an object is detected, the temporary mute switch is displayed on the center display. Select the switch to mute the buzzer of the Parking Assist-Sensor, RCTA, and RCD all together.

Select the switch again to cancel.

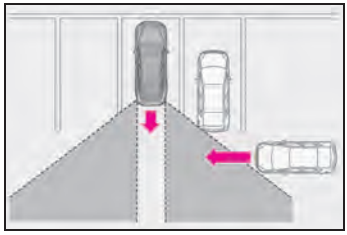
Mute will be canceled automatically in the following situations:

- When the shift position is changed.
- When the vehicle speed exceeds a certain speed.
- When there is a malfunction in a sensor or the system is temporarily unavailable.
- When the operating function is disabled manually.
- When the power switch is turned off.

n Conditions under which the system will not detect a vehicle or bicycle

The RCTA function is not designed to detect the following objects:

- Vehicles or bicycles approaching from directly behind
- Vehicles or bicycles that the sensors cannot detect due to obstructions



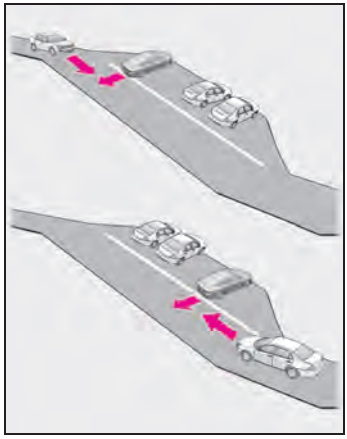
- Guardrails, walls, signs, parked vehicles and similar stationary objects*
- Small motorcycles, pedestrians, etc.*
- Vehicles or bicycles moving away from your vehicle
- Vehicles or bicycles approaching from the parking spaces next to your vehicle*
- The distance between the sensor and approaching vehicle or bicycle gets too close

*: Depending on the conditions, detection of a vehicle and/or object may occur.

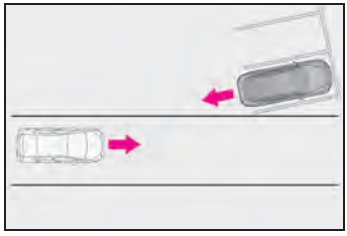
n Situations in which the system may not operate properly

The RCTA function may not detect vehicles or bicycles correctly in the following situations:

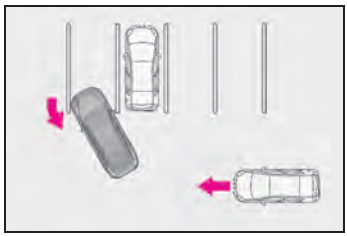
- When the sensor is misaligned due to a strong impact to the sensor or its surrounding area
- When mud, snow, ice, a sticker, etc., is covering the sensor or surrounding area on the rear bumper
- When driving on a wet road surface, such as in a puddle, while in inclement weather, such as heavy rain, snow, fog, etc.
- When multiple vehicles or bicycles are approaching with only a small gap between each vehicle or bicycle
- When a vehicle or bicycle is approaching at high speed
- When equipment that may obstruct a sensor is installed, such as a towing eyelet, bumper protector (an additional trim strip, etc.), bicycle carrier, or snow plow
- When backing up on a slope with a sharp change in grade



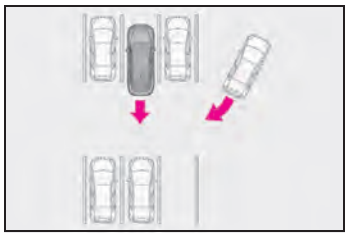
- When backing out of a sharp angle parking spot



- Immediately after the RCTA function is turned on
- Immediately after the hybrid system is started with the RCTA function on
- When the sensors cannot detect a vehicle or bicycle due to obstructions
- When towing with the vehicle
- When there is a significant difference in height between your vehicle and the vehicle or bicycle that enters the detection area
- When a sensor or the area around a sensor is extremely hot or cold
- If the suspension has been modified or tires of a size other than specified are installed
- If the front of the vehicle is raised or lowered due to the carried load
- When turning while backing up



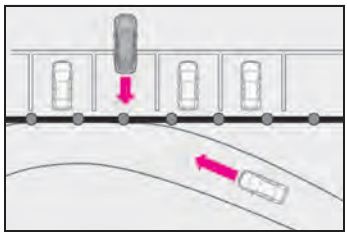
- When a vehicle or bicycle turns into the detection area



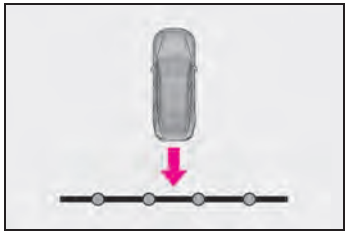
n **Situations in which the system may operate even if there is no possibility of a collision**

Instances of the RCTA function unnecessarily detecting a vehicle and/or object may increase in the following situations:

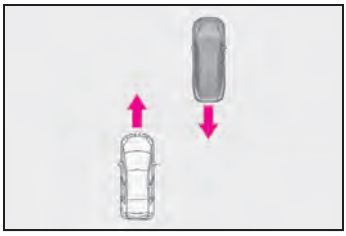
- When the parking space faces a street and vehicles are being driven on the street



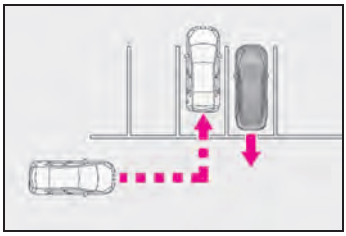
- When the distance between your vehicle and metal objects, such as a guardrail, wall, sign, or parked vehicle, which may reflect electrical waves toward the rear of the vehicle, is short



- When equipment that may obstruct a sensor is installed, such as a towing eyelet, bumper protector (an additional trim strip, etc.), bicycle carrier, or snow plow
- When a vehicle or bicycle passes by the side of your vehicle



- When a detected vehicle turns while approaching the vehicle



- When there are spinning objects near your vehicle such as the fan of an air conditioning unit
- When water is splashed or sprayed toward the rear bumper, such as from a sprinkler
- Moving objects (flags, exhaust fumes, large rain droplets or snowflakes, rain water on the road surface, etc.)
- When the distance between your vehicle and a guardrail, wall, etc., that enters the detection area is short
- Gratings and gutters
- When a sensor or the area around a sensor is extremely hot or cold
- If the suspension has been modified or tires of a size other than specified are installed
- If the front of the vehicle is raised or lowered due to the carried load
- When towing with the vehicle

RCD (Rear Camera Detection)*

*: If equipped

When the vehicle is backing up, the rear camera detection function can detect pedestrians in the detection area behind the vehicle. If a pedestrian is detected, a buzzer will sound and an icon will be displayed on the center display to inform the driver of the pedestrian.

WARNING

n Cautions regarding the use of the system

The recognition and control capabilities for this system are limited.

The driver should always drive safely by always being responsible without over relying on the system and have a understanding of the surrounding situations.

n To ensure the system can operate properly

Observe the following, otherwise there is the danger that could lead to an accident.

- Always clean the camera without damaging it.
- Do not install market parts (such as Illuminated license plate, fog lamps, etc.) in the camera vicinity.
- Do not subject the camera vicinity to strong impacts. If the vicinity is subjected to a strong impact, have the vehicle inspected by your Lexus dealer.
- Do not disassemble, remodel or paint the camera.
- Do not attach accessories or stickers to the camera.
- Do not install market protection parts (bumper trim, etc.) to the rear bumper.
- Maintain suitable tire air pressure.
- Make sure the trunk is completely closed.

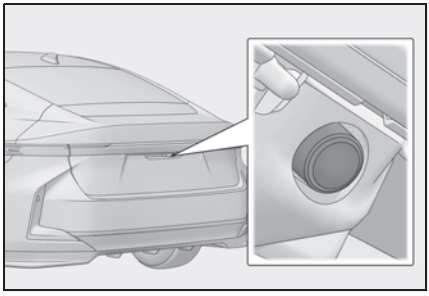
n When to disable the RCD function

In the following situations, disable the system. The RCD function may not operate properly, possibly leading to an accident.

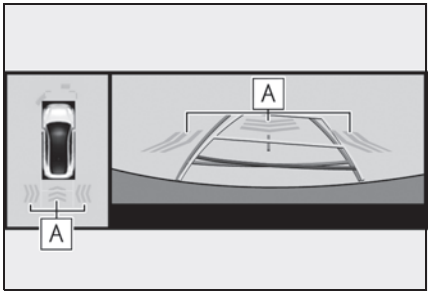
- The contents mentioned above are not observed.
- Suspensions other than the genuine parts are installed.

System component

Location of the rear camera



RCD display



A Pedestrian detection icon

Displayed automatically when a pedestrian

is detected behind the vehicle.

Turning the RCD function on/off

The RCD function can be enabled/disabled through a customize setting. (→P.522)

When the RCD function is disabled, the Driving assist OFF indicator (→P.80) illuminates, and a message is displayed on the multi-information display.

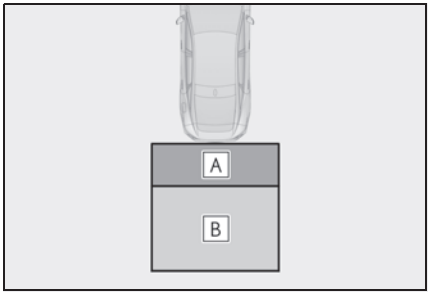
Each time the power switch is turned off then changed to ON, the RCD function will be enabled automatically.

When a pedestrian is detected

If a pedestrian is in the area behind the vehicle or if the rear camera detected that a pedestrian is approaching the vehicle from behind, the system urges caution from the driver by sounding the buzzer and displaying the detection of a pedestrian on the center display as follows:

- If a pedestrian is detected in area A or B
  Buzzer: Sounds 3 times*
  Pedestrian detection icon: Blinks
- When a pedestrian approaches are A
  Buzzer: Sounds repeatedly*
  Pedestrian detection icon: Blinks

*: The buzzer does not sound when the vehicle is stationary.



n After recharging/reconnecting the 12-volt battery

The system needs to be initialized. Since initialization is performed automatically while driving, continue driving for a while.

n The rear camera detection function is operational when

- The power switch is in ON.
- RCD function is on.
- The shift position is in R.
- Advanced Park (if equipped) is not operating

n Setting the buzzer volume

The buzzer volume of the Parking Assist-Sensor, RCTA and RCD can all be changed at once from the customize settings. (→P.522)

n Muting a buzzer temporarily

When an object is detected, the temporary mute switch is displayed on the center display.

Select the switch to mute a buzzer of the Parking Assist-Sensor, RCTA and RCD all together.

Select the switch again to cancel.

Mute will be automatically canceled in the following situations:

- When the shift position is changed.
- When the vehicle speed exceeds a certain speed.
- When there is a malfunction in a sensor or the system is temporarily unavailable.
- When the operating function is disabled manually.

l When the power switch is turned off.

n **Situations in which the system may not operate properly**

l Some pedestrians, such as the following, may not be detected by the rear camera detection function, preventing the function from operating properly:

- Pedestrians who are bending forward or squatting
- Pedestrians who are lying down
- Pedestrians who are running
- Pedestrians who suddenly appear from the shadow of the vehicle or a building
- Pedestrians who are riding moving objects such as a bicycle or skateboard
- Pedestrians wearing oversized clothing such as a rain coat, long skirt, etc., making their silhouette obscure
- Pedestrians whose body is partially hidden by an object, such as a cart or umbrella
- Pedestrians which are obscured by darkness, such as at night

l In some situations, such as the following, pedestrians may not be detected by the rear camera detection function, preventing the function from operating properly:

- When backing up in inclement weather (rain, snow, fog, etc.)
- The lens is dirty (by dirt or snow-melting agent, etc.) or scratched
- When a very bright light, such as the sun, or the headlights of another vehicle, shines directly into the rear camera
- When backing up in a place where the surrounding brightness changes suddenly, such as at the entrance or exit of a garage or underground parking lot
- When backing up in a dim environment such as during dusk or in an underground parking lot
- When the camera position and direction are deviated
- When a towing hook is attached
- When water droplets are flowing on the camera lens
- When the vehicle height is extremely changed (nose up, nose down, etc.)
- When tire chains or an emergency tire puncture repair kit are used
- When the suspension has been lowered or tires that have a different size than the genuine tires are installed
- When an aftermarket part (backlit license plate, fog light, etc.) is installed near the rear camera
- If a bumper protector, such as an additional trim strip, is installed to the rear bumper
- When towing with the vehicle

n **Situations in which the system may operate unexpectedly**

l Even though there are no pedestrians in the detection area, some objects, such as the following, may be detected, possibly causing the rear camera detection function to operate.

- Three dimensional objects, such as a pole, traffic cone, fence, or parked vehicle
- Moving objects, such as a car or motorcycle
- Objects moving toward your vehicle when backing up, such as flags or puddles (or airborne matter, such as smoke, steam, rain, or snow)
- Cobblestone or gravel roads, tram rails, road repairs, white lines, pedestrian crossings or fallen leaves on the road
- Metal covers (gratings), such as those used for drainage ditches
- Objects reflected in a puddle or on a wet road surface
- Shadows on the road

l In some situations, such as the following, the rear camera detection function may operate even though there are no pedestrians in the detection area.

- When backing up toward the roadside or a bump on the road
- When backing up toward an incline/decline
- When the vehicle height is extremely changed (nose up, nose down, etc.)
- When an aftermarket part (backlit license plate, fog light, etc.) is installed near the rear camera
- If a bumper protector, such as an additional trim strip, is installed to the rear bumper
- If the orientation of the rear camera has been changed due to a collision or other impact, or removal and installation
- If a towing eyelet is installed to the rear of the vehicle
- When water is flowing over the rear cam-

era lens
- The lens is dirty (by dirt or snow-melting agent, etc.)
- If there is a flashing light in the detection area, such as the emergency flashers of another vehicle
- When tire chains or an emergency tire puncture repair kit are used
- When towing with the vehicle

Situations in which the rear camera detection function may be difficult to notice
- The buzzer may be difficult to hear if the surrounding area is noisy or the audio system volume is high.
- If the temperature in the cabin is extremely high or low, the center display may not operate correctly.

PKSB (Parking Support Brake)*

*: If equipped

The PKSB (Parking Support Brake) is a system that issues warnings and performs brake control to help reduce collision damage with operation targets that were detected when traveling at a low speed such as when parking.

PKSB (Parking Support Brake) system

The system has detected the following as operation targets. (The operation targets vary depending on the function.)

- Parking Support Brake function (static objects front and rear of the vehicle):

→P.295

- Parking Support Brake function (moving vehicles rear of the vehicle):

→P.299

- Parking Support Brake function (pedestrians rear of the vehicle):

→P.301

- Parking Support Brake function (static objects around the vehicle) (vehicles with the Advanced Park):

→P.295

WARNING

n Cautions regarding the use of the system

Do not overly rely on the system, as doing so may lead to an accident. Always drive while checking the safety of the surroundings of the vehicle.

Depending on the vehicle and road conditions, weather, etc., the system may not operate.

The detection capabilities of sensors and radars are limited. Always drive while checking the safety of the surroundings of the vehicle.

- The driver is solely responsible for safe driving. Always drive carefully, taking care to observe your surroundings. The Parking Support Brake system is designed to provide support to lessen the severity of collisions. However, it may not operate in some situations.
- The Parking Support Brake system is not designed to stop the vehicle completely. Additionally, even if the system has stopped the vehicle, it is necessary to depress the brake pedal immediately as brake control will be canceled after approximately 2 seconds.
- It is extremely dangerous to check the system operations by intentionally driving the vehicle into the direction of a wall, etc. Never attempt such actions.

n When to disable the Parking Support Brake

In the following situations, disable the Parking Support Brake as the system may operate even though there is no possibility of a collision.

- When inspecting the vehicle using a chassis roller, chassis dynamo or free roller
- When loading the vehicle onto a boat, truck or other transport vessel
- If the suspension has been modified or tires of a size other than specified are installed
- If the front of the vehicle is raised or lowered due to the carried load
- When equipment such as a towing hook, transport hook, bumper protector, bumper trim, bicycle carrier or snow-removal device (snow plow) is installed near the sensor
- When using automatic car washing devices
- If the vehicle cannot be driven in a stable manner, such as when the vehicle has been in an accident or is malfunctioning
- When the vehicle is driven in a sporty manner or off-road
- When the tires are not properly inflated
- When the tires are very worn
- When tire chains, a compact spare tire or an emergency tire puncture repair kit are used.
- When towing with the vehicle

n Precautions for the suspension

Do not modify the suspension of the vehicle. If the height or tilt of the vehicle is changed, the sensors may not be able to detect detectable objects and the system may not operate correctly, possibly leading to an accident.

Enabling/Disabling the Parking Support Brake

The Parking Support Brake function can be enabled/disabled through a customize setting. (→P.523)

When the PKSB (Parking Support Brake) is disabled, the PKSB OFF indi-

cator (→P.80) illuminates, and a message is displayed on the multi-information display.

If the PKSB (Parking Support Brake) is switched to OFF (disabled), the system will not be re-enabled until ON (enabled) is selected again from the customize setting (→P.523).

(It remains off even if the power switch is turned to ON again after the power switch has been turned off.)

Display and buzzer for hybrid system output restriction control and brake control

If the hybrid system output restriction control or brake control operates, a buzzer will sound and a message that indicates limited acceleration or prompts the driver to brake will be displayed on the center display and multi-information display, to alert the driver.

Depending on the situation, output restriction control operates to either limit acceleration or restrict output as much as possible.

- Hybrid system output restriction control is operating (acceleration restriction)

Acceleration greater than a certain amount is restricted by the system.

Center display: No warning displayed

Message example on the multi-information display: "Object Detected Acceleration Reduced"

PKSB OFF indicator: Not illuminated

Buzzer: Does not sound

- Hybrid system output restriction control is operating (output restricted as much as possible)

The system has determined that stronger-than-normal brake operation is necessary.

Message example on the center display (vehicles with a panoramic view monitor or parking assist monitor with RCD [Rear Camera Detection]): "BRAKE!"

Message example on the multi-information display: "BRAKE!"

PKSB OFF indicator: Not illuminated

Buzzer: Continuous long beep

- Brake control is operating

The system determined that emergency braking is necessary.

Message example on the center display (vehicles with a panoramic view monitor or parking assist monitor with RCD [Rear Camera Detection]): "BRAKE!"

Message example on the multi-information display: "BRAKE!"

PKSB OFF indicator: Not illuminated

Buzzer: Continuous long beep

- Vehicle stopped by system operation

The vehicle has been stopped by brake control operation.

Message example on the center display (vehicles with a panoramic view monitor or parking assist monitor with RCD [Rear Camera Detection]): "Switch to Brake"

Message example on the multi-information display: "Accelerator Pedal is Pressed Press Brake Pedal", "Press Brake Pedal"

PKSB OFF indicator: Illuminated

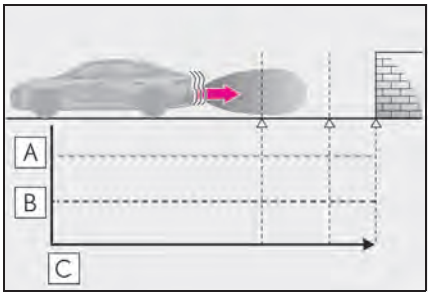
Buzzer: Continuous long beep

System overview

If the Parking Support Brake determines that a collision with a detected object or pedestrian is possible, the hybrid system output will be restricted to restrain any increase in the vehicle speed. (Hybrid system output restriction control: See figure 2 below.)

Additionally, if the accelerator pedal continues to be depressed, the brakes will be applied automatically to reduce the vehicle speed. (Brake control: See figure 3.)

- Figure 1: When the PKSB (Parking Support Brake) is not operating

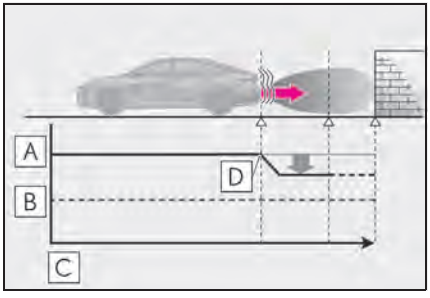


A Hybrid system output

B Braking force

C Time

- Figure 2: When hybrid system output restriction control operates



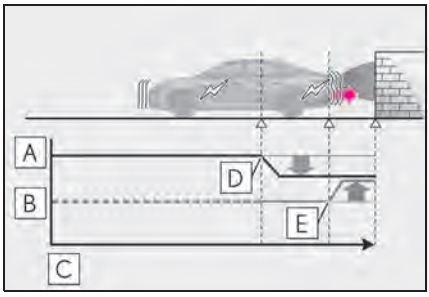
A Hybrid system output

B Braking force

C Time

D Hybrid system output restriction control begins operating (System determines that possibility of collision with detected object is high)

- Figure 3: When hybrid system output restriction control and brake control operates



A Hybrid system output

B Braking force

C Time

D Hybrid system output restriction control begins operating (System determines that possibility of collision with detected object is high)

E Brake control begins operating (System determines that possibility of collision with detected object is extremely high)

n After recharging/reconnecting the 12-volt battery

The system needs to be initialized. Since initialization is performed automatically while driving, continue driving for a while.

n If the Parking Support Brake has operated

If the vehicle is stopped due to operation of the Parking Support Brake, the Parking Support Brake will be disabled and the PKSB OFF indicator will illuminate.

In addition, even when the PKSB (Parking Support Brake) operates, the brake control is canceled after approximately 2 seconds to start off.

Furthermore, the brake control also can be canceled by depressing the brake pedal. Depressing the accelerator pedal again after that allows the vehicle to start off.

n Re-enabling the Parking Support Brake

To re-enable the Parking Support Brake when it is disabled due to operation of the PKSB (Parking Support Brake), either enable the system again, or turn the power switch off and then back to ON.

Additionally, if any of the following conditions are met, the system will be re-enabled automatically and the PKSB OFF indicator will turn off (→P.80):

- The P shift position is selected
- Drive with no operation targets in the traveling direction of the vehicle
- Change the traveling direction of the vehicle

n Buzzer

Regardless of whether the Parking Assist-Sensor is enabled or not (→P.275), if the PKSB (Parking Support Brake) system is enabled (→P.292), the buzzer will sound to notify the driver of the approximate distance to the object when the brake control and the hybrid system output restriction control are operated.

Parking Support Brake function (static objects front and rear of the vehicle/static objects around the vehicle)*

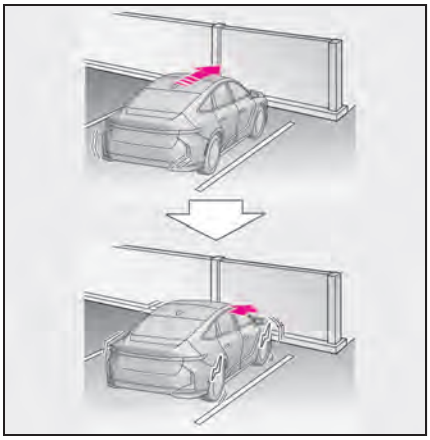
*: If equipped

If the sensors detect a static object, such as a wall, in the traveling direction of the vehicle and the system determines that a collision may occur due to the vehicle suddenly moving forward due to an accidental accelerator pedal operation, the vehicle moving the unintended direction due to the wrong shift position being selected, or while parking or traveling at low speeds, the system will operate to lessen the impact with the detected static object and reduce the resulting damage.

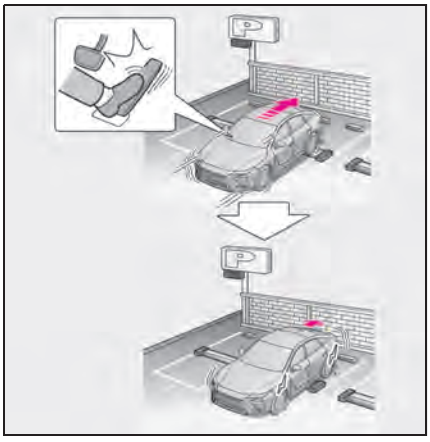
Examples of function operation (static objects front and rear of the vehicle)

This function will operate in situations such as the following if an object is detected in the traveling direction of the vehicle.

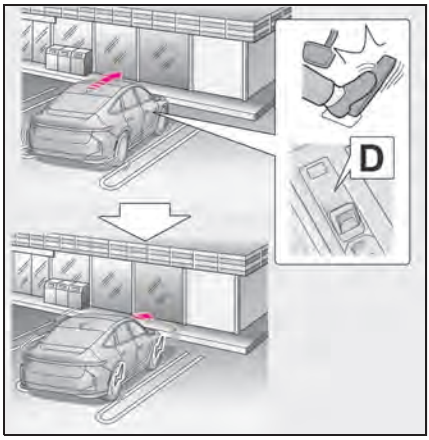
n When traveling at a low speed and the brake pedal is not depressed, or is depressed late



n When the accelerator pedal is depressed excessively



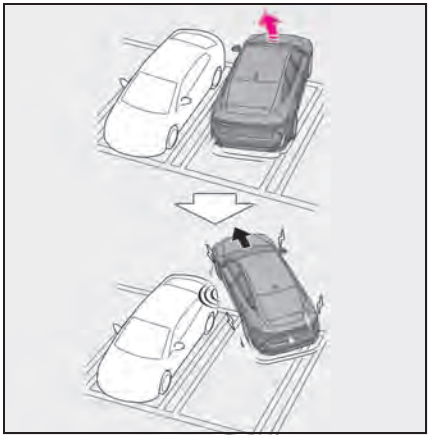
n When the vehicle moves forward due to the incorrect shift position being selected



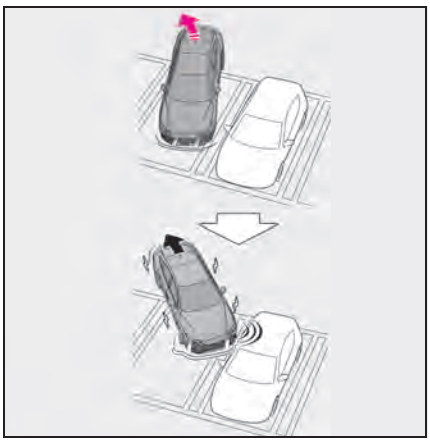
Examples of function operation (static objects around the vehicle) (Vehicles with Advanced Park)

The system will operate in the following situations when a stationary object is detected in the surrounding area.

n When moving forward and a collision with a stationary object on the inner side of a turn is likely



n When reversing and a collision with a stationary object on the outer side of a turn is likely



Types of sensors

→P.274

WARNING

n To ensure the system can operate properly

→P.275

n If the Parking Support Brake function operates unnecessarily, such as at a railroad crossing

→P.295

n Notes when washing the vehicle

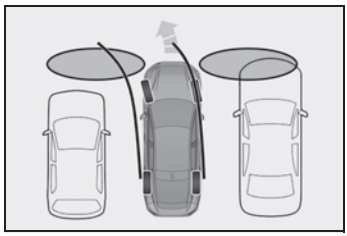
→P.276

n Side sensors and side cameras (vehicles with Advanced Park)

In situations such as the following, Parking Support Brake function (static objects around the vehicle) may not operate correctly, possibly leading to an accident. Proceed carefully.

- When starting off shortly after the power switch is turned to ON and a small vehicle or other object which cannot be detected by a front side sensor is next to the vehicle.

In the situation shown in the following illustration, even if the vehicle starts off, the vehicle on the left will not be detected and the object warning function will not operate.



- When an object or person is in a position which cannot be detected by the side sensors or side cameras.
- When a vehicle, person, or other object approaches the side of the vehicle after the side sensors have completed scanning the areas along the sides of the vehicle.
- When the outside rear view mirrors are folded.
- If the 12-volt battery was discharged or has been removed and installed, fold and extend the outside rear view mirrors.
- When the driver, passenger and rear doors are opened.

n The Parking Support Brake function (static objects front and rear of the vehicle) will operate when

The function will operate when the PKSB OFF indicator is not illuminated (→P.80) and all of the following conditions are met:

- Hybrid system output restriction control
- The Parking Support Brake is enabled.
- The vehicle speed is approximately 9 mph (15 km/h) or less.

- There is a static object in the traveling direction of the vehicle and approximately 6 to 13 ft. (2 to 4 m) away.
- The Parking Support Brake determines that a stronger-than-normal brake operation is necessary to avoid a collision.

l Brake control

- Hybrid system output restriction control is operating.
- The Parking Support Brake determines that an immediate brake operation is necessary to avoid a collision.

n **The Parking Support Brake function (static objects around the vehicle) will operate when (vehicles with Advanced Park)**

This function is operable when any of the following conditions is met in addition to the operating conditions for static objects in front and rear of the vehicle.

l After the hybrid system has been started, the vehicle has moved approximately 23.0 ft. (7 m) or less

l The R shift position is selected

l After the shift position has been changed from R to D, the vehicle has moved approximately 23.0 ft. (7 m) or less

l When the driver, passenger, and rear doors are completely closed

l When the outside rear view mirrors are not folded

n **The Parking Support Brake function (static objects front and rear of the vehicle/static objects around the vehicle) will stop operating when (vehicles with Advanced Park)**

The function will stop operating if any of the following conditions are met:

l Hybrid system output restriction control

- The Parking Support Brake is disabled.
- The system determines that the collision has become avoidable with normal brake operation.
- The static object is no longer approximately 6 to 13 ft. (2 to 4 m) away from the vehicle or in the traveling direction of the vehicle.

l Brake control

- The Parking Support Brake is disabled.
- Approximately 2 seconds have elapsed since the vehicle was stopped by brake control.
- The brake pedal is depressed after the vehicle is stopped by brake control.
- The static object is no longer approximately 6 to 13 ft. (2 to 4 m) away from the vehicle or in the traveling direction of the vehicle.

n **Detection range of the Parking Support Brake function (static objects front and rear of the vehicle/static objects around the vehicle) (vehicles with Advanced Park)**

The detection range of the Parking Support Brake function (static objects front and rear of the vehicle/static objects around the vehicle) differs from the detection range of the Parking Assist-Sensor (→P.278). Therefore, even if the Parking Assist-Sensor detects an object and provides a warning, the Parking Support Brake function (static objects front and rear of the vehicle/static objects around the vehicle) may not start operating.

n **Situations in which the system may not operate properly**

→P.277

n **Situations in which the system may operate even if there is no possibility of a collision**

→P.277

n **Situations in which the system may operate even though there is no possibility of a collision (static objects around the vehicle) (vehicles with Advanced Park)**

In addition to the operating conditions for stationary objects in front and rear the vehicle (→P.297), the system may operate when moving closer to the side, such as during parallel parking (→P.317).

n **Detection of objects along the sides of the vehicle (static objects around the vehicle) (vehicles with Advanced Park)**

l Objects along the sides of the vehicle are not instantaneously detected. The location of objects in relation to the vehicle is estimated after they are first detected by

the front or rear side sensors, or side cameras. Therefore, after the power switch is changed to ON, even if an object is along the side of the vehicle, it may not be detected until the vehicle has been driven a small amount and the side sensors or side cameras completely scan the areas along the sides of the vehicle.

- If a vehicle, person, animal, etc., is detected by a side sensors or side cameras, but then leaves the detection area of the side sensors or side cameras, the system will assume the object has not moved.

Parking Support Brake function (moving vehicles rear of the vehicle)*

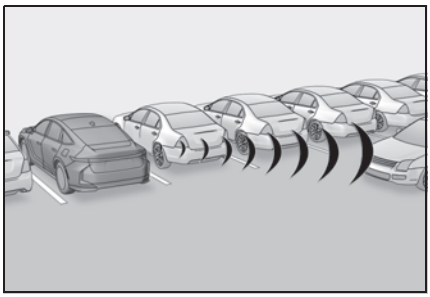
*: If equipped

If a rear side radar sensor detects a vehicle or bicycle approaching from the right or left at the rear of the vehicle and the system determines that the possibility of a collision is high, this function will perform brake control to reduce the likelihood of an impact with the approaching vehicle or bicycle.

Examples of the function operation

This function will operate in situations such as the following if a vehicle or bicycle is detected in the traveling direction of the vehicle.

- **When reversing, a vehicle or bicycle is approaching and the brake pedal is not depressed, or is depressed late**



Types of sensors

→P.265

WARNING

n To ensure the system can operate properly

→P.265

n If the Parking Support Brake function (moving vehicles rear of the vehicle) operates unnecessarily

Depress the brake pedal immediately after the Parking Support Brake function (moving vehicles rear of the vehicle) operates. (Operation of the function is canceled by depressing the brake pedal.)

n The Parking Support Brake function (moving vehicles rear of the vehicle) will operate when

The function will operate when the PKSB OFF indicator is not illuminated (→P.80) and all of the following conditions are met:

l Hybrid system output restriction control
- The Parking Support Brake is enabled.
- The vehicle speed is approximately 9 mph (15 km/h) or less.
- Vehicles or bicycles are approaching from the right or left at the rear of the vehicle at a traveling speed of approximately 5 mph (8 km/h) or more.
- The shift position is in R.
- The Parking Support Brake determines that a stronger than normal brake operation is necessary to avoid a collision with an approaching vehicle or bicycle from the rear side.

l Brake control
- Hybrid system output restriction control is operating.
- The Parking Support Brake determined that an emergency brake operation was necessary to avoid a collision with a vehicle or bicycle approaching from the rear side.

n The Parking Support Brake function (moving vehicles rear of the vehicle) will stop operating when

The function will stop operating if any of the following conditions are met:

l Hybrid system output restriction control
- The Parking Support Brake is disabled.
- The collision becomes avoidable with normal brake operation.
- A vehicle or bicycle is no longer approaching from the right or left at the rear of the vehicle.

l Brake control
- The Parking Support Brake is disabled.
- Approximately 2 seconds have elapsed since the vehicle was stopped by brake control.
- The brake pedal is depressed after the vehicle is stopped by brake control.

n Situations in which the system may not operate properly

→P.286

n Situations in which the system may operate even if there is no possibility of a collision

→P.287

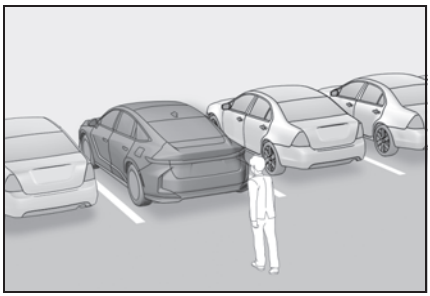
Parking Support Brake function (pedestrians rear of the vehicle)*

*: If equipped

If the rear camera sensor detects a pedestrian behind the vehicle while backing up and the system determines that the possibility of colliding with the detected pedestrian is high, a buzzer will sound. If the system determines that the possibility of colliding with the detected pedestrian is extremely high, the brakes will be applied automatically to help reduce the impact of the collision.

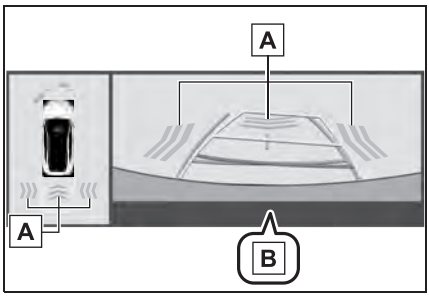
Examples of system operation

The system operates when an approaching pedestrian is detected behind the vehicle while backing up, and when the brake pedal is not depressed or is depressed late.



Screen display of pedestrians rear of the vehicle

Displays a message to prompt the driver to brake when a pedestrian is detected in the detection area behind the vehicle.



A Pedestrian detection icon

B Example: "BRAKE!"

WARNING

n If the Parking Support Brake function (pedestrians rear of the vehicle) operates unnecessarily

Depress the brake pedal immediately after the Parking Support Brake function (pedestrians rear of the vehicle) operates. (Operation of the function is canceled by depressing the brake pedal.)

n Correct use of the Parking Support Brake function (pedestrians rear of the vehicle)

→P.288

n The Parking Support Brake function (pedestrians rear of the vehicle) will operate when

The function will operate when the PKSB OFF indicator is not illuminated (→P.80) and all of the following conditions are met:

- Hybrid system output restriction control
- The Parking Support Brake is enabled.
- The vehicle speed is 9 mph (15 km/h) or less.
- The shift position is in R.
- When a pedestrian is to the rear of the vehicle
- The PKSB (Parking Support Brake) determines that a stronger-than-normal-brake operation is necessary to avoid a collision.

l Brake control
- Hybrid system output restriction control is operating.
- The Parking Support Brake determines that an emergency brake operation is necessary to avoid a collision with a pedestrian.

n **The Parking Support Brake function (pedestrians rear of the vehicle) will stop operating when**

The function will stop operating if any of the following conditions are met:

l Hybrid system output restriction control
- The Parking Support Brake is disabled.
- The collision becomes avoidable with normal brake operation.
- The pedestrian is no longer detected behind your vehicle.

l Brake control
- The Parking Support Brake is disabled.
- Approximately 2 seconds have elapsed since the vehicle was stopped by brake control.
- The brake pedal is depressed after the vehicle is stopped by brake control.

n **Re-enabling the Parking Support Brake function (pedestrians rear of the vehicle)**

→P.295

n **Detection area of the Parking Support Brake function (pedestrians rear of the vehicle)**

The detection area of the Parking Support Brake function (pedestrians rear of the vehicle) differs from the detection area of the RCD function (→P.289). Therefore, even if the RCD function detects a pedestrian and provides an alert, the Parking Support Brake function (pedestrians rear of the vehicle) may not start operating.

n **Situations in which the system may not operate properly**

→P.290

n **Situations in which the system may operate unexpectedly**

→P.290

Lexus Teammate Advanced Park*

*: If equipped

Function description

The Advanced Park is a system which assists in a safe and smooth parking or exiting from a parking space by displaying the blind spots around the vehicle and the target parking spot through a bird's eye view, delivering operation guidance through displays and buzzer operation, and changing the shift position, operating the steering wheel, accelerator pedal, and brake pedal.

Additionally, the panoramic view monitor* can display the area in front, behind, and from above the vehicle, helping confirm the condition of the area around the vehicle.

The turn signal lights will blink automatically when the parking assistance starts until the vehicle reaches the target parking spot, to notify people around the vehicle that parking is being performed.

Depending on the condition of the road surface or the vehicle, the distance between the vehicle and a parking space, etc., it may not be possible to assist in parking in the target space.

Only use Advanced Park in accordance with all local road traffic laws and regulations.

*: For details on the panoramic view monitor refer to "MULTIMEDIA OWNER'S MANUAL".

n Remote control function (if equipped)

Remote control function is a system which assists in parking or exiting from a parking space selected on the center display by allowing changing the shift position, operating the steering wheel, accelerator pedal, and brake pedal from outside of the vehicle via a smartphone.

The turn signal lights will blink automatically when the parking assistance, except that for moving the vehicle forward and backward, starts until the vehicle reaches the target parking spot, to notify people around the vehicle that parking is being performed.

Preparation before using: →P.324

Functions

n Perpendicular parking (forward/reverse) function

Assistance is provided from the position the vehicle is stopped near the target parking space until the vehicle is in the parking space. (→P.313)

n Perpendicular exiting (forward/reverse) function

Assistance is provided from the parked position until the vehicle is in a position where you can easily exit from the parking space. (→P.315)

n Parallel parking function

Assistance is provided from the position the vehicle is stopped near the target parking space until the vehicle is in the parking space. (→P.317)

n Parallel exiting function

Assistance is provided from the parked position until the vehicle is in a position where you can easily exit from the parking space. (→P.319)

n Remote control function (if equipped)

By operating a smartphone, assistance in parking or exiting from a nearby target parking space, confirmed on the screen of the smartphone, is provided from outside of the vehicle. (→P.321)

n Trademarks

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Toyota Motor Corporation is under license. Other trademarks and trade names are those of their respective owners.

WARNING

n Cautions regarding the use of Advanced Park, including Remote control function

The recognition and control capabilities for this system are limited. The driver should always drive safety by always being responsible without over relying on the system and have an understanding of the surrounding situations.

- As with a normal vehicle, take care to observe your surroundings while the vehicle is moving.
- Always pay attention to the vehicle's surroundings while the system is operating and depress the brake pedal as necessary to slow or stop the vehicle.

If Remote control function is in operation, stop operating the dedicated smartphone app of Remote control function (hereafter, dedicated app) and stop the vehicle.

WARNING

- When parking, make sure that the vehicle can be parked in the target parking space before beginning operation.
- Depending on the condition of the road surface or the vehicle, the distance between the vehicle and a parking space, etc., it may not be possible to detect a parking space or the system may not be able to provide assistance to the point the vehicle is fully parked.
- Note that if you release your foot from the brake pedal before pressing the start button, assistance will not start and the vehicle may move.
- This system will guide the vehicle to appropriate positions for changing the direction of travel, however, if you feel that the vehicle is approaching too close to an adjacent parked vehicle at any time, depress the brake pedal and change the shift position. However, if this is performed, the number of times the vehicle changes direction may increase, and the vehicle may be parked at an angle.
- As certain objects or materials, such as the following, may not be detected, make sure to check the safety of the area around your vehicle and depress the brake pedal to stop the vehicle if it may collide with an object.

If Remote control function is in operation, stop operating the dedicated app and stop the vehicle.

- Thin objects (wires, fences, ropes, poles, etc.) or objects that appear like thin from a certain angle of approach (signs, bicycles, etc.)
- Materials that absorb sound waves (cotton, snow, etc.)
- Sharp-edged objects (block walls/columns, wall corners, etc.)
- Objects in lower places (curb stones/blocks, stairs, parking blocks, etc.)
- Tall objects with upper sections that protrude outward (beams, etc.)
- Objects which are not perpendicular to the ground
- Objects to which the vehicle is approaching diagonally
- When the surrounding area is dark, such as at night

- Even if there is an object in the target parking space, it may not be detected and assistance may be performed.
- If it is likely that your vehicle will collide with a nearby vehicle, object, or person, or go over the top of a parking block, depress the brake pedal to stop the vehicle and press the Advanced Park main switch to disable the system.

If Remote control function is in operation, stop operating the dedicated app and stop the vehicle.

- Never use only the center display to view the area behind the vehicle. The image displayed may differ than the actual situation. Using only the screen when backing up may lead to an accident, such as a collision with another vehicle. When backing up, make sure to look directly or use the mirrors to check the safety of the area around your vehicle, especially behind the vehicle.
- When the ambient temperature is extremely low, the screen may appear dark or the displayed image may become unclear. Also, as moving objects may appear distorted or may not be able to be seen on the screen, make sure to directly check the safety of the area around your vehicle.

WARNING

- In the following situations, while the vehicle is stopped and held by Advanced Park, it may be canceled and the vehicle may start moving. Immediately depress the brake pedal. Failure to do so may lead to an accident.

If Remote control function is in operation, stop operating the dedicated app and stop the vehicle.

- When the driver's door is opened
- When operations instructed by the system are not performed within a certain amount of time
- When the brake pedal is depressed and the vehicle is stopped for a certain amount of time
- When the system malfunctions

- As the steering wheel will turn while this system is operating, pay attention to the following.

- Be careful so that a necktie, scarf, or arm does not get caught. Keep your upper body away from the steering wheel. Also, keep children away from the steering wheel.
- Long fingernails may be caught and when the steering wheel is rotating, leading to injury.
- In an emergency, depress the brake pedal to stop the vehicle, and then press the Advanced Park main switch to disable the system.

If Remote control function is in operation, stop operating the dedicated app and stop the vehicle.

- Do not allow anyone to put their hands outside of a window while this system is operating.

n To ensure correct operation of the Advanced Park

Observe the following precautions. Failing to do so may result in the vehicle being unable to be driven safely and possibly cause an accident.

- Do not use this system in situations such as the following:

- When in areas other than common parking spaces
- When the surface of the parking space is sand or gravel and is not clearly defined with parking space lines
- When the parking space is not level, such as on a slope, or having differences in height, holes, or gutters
- Mechanical parking system
- Parking lot with a device which raises to contact the bottom of the vehicle
- When the road surface is frozen, slick, or covered with snow
- When it is extremely hot and the asphalt is melting
- When there are objects around the vehicle
- When there is an object between your vehicle and the target parking spot or within the target parking spot (within the displayed blue box)
- When in high pedestrian or vehicle traffic areas
- When the parking space is in a location that is difficult to park in (too narrow for your vehicle, etc.)
- When images are unclear due to dirt or snow attached to the camera lens, light being shined into the camera or shadows
- When tire chains or a compact spare tire is installed to the vehicle

WARNING

- When the doors or back door are not completely closed
- When the outside rear view mirrors are folded.
- When an arm is held outside of a window
- In inclement weather such as heavy rain or snow

l Make sure to use only standard sized tires, such as those that were installed to the vehicle when it was shipped from the factory. Otherwise, Advanced Park may not operate properly. Also, when the tires have been replaced, the displayed position of the lines or box displayed on the screen may become incorrect. When replacing the tires, contact your Lexus dealer.

l In situations such as the following, it may not be possible for the system to provide assistance to a registered parking spot or to operate correctly:

- When the tires are extremely worn or the tire inflation pressure is low
- When carrying a heavy load
- When the vehicle is tilted due to the carried load
- When a heater is installed in the surface of the parking space (road surface freeze prevention heater)
- When the wheels are misaligned, such after a wheel has been subjected to a strong impact
- When a pedestrian or passing vehicle is detected during assistance
- When a device, such as a towing hook, bumper protector, bumper trim, bicycle carrier, snow plow, etc., is installed
- When something is incorrectly detected as a parking line (light, reflections from a building, difference in height on the parking surface, a gutter, painted road lines, redrawn lines, etc.)

If the vehicle deviates greatly from the set parking space in any situation other than the above, have the vehicle inspected by your Lexus dealer.

n When using Remote control function

l Remote control function is a function of the Advanced Park system. When using Remote control function on public roads, be sure to follow all local road traffic laws and regulations.

l Remote control function can only be used after agreeing to the disclaimer of the dedicated app.

l Remote control function can only perform some driving operations. It should only be operated by a driver with a valid driving license. While using the dedicated app, carry electronic key. While operating, do not stare at the dedicated app screen, and pay attention to the vehicle's surroundings. In an emergency, cancel the Remote control function operation and stop the vehicle.

l As with a normal vehicle, take care to observe the area around the vehicle while the vehicle is moving.

l Always pay attention to the vehicle's surroundings while the system is operating.

l Make sure that the hood is closed before operating the system.

l Remote control function is a system which assists in remote parking or exiting operations using a smartphone. When using Remote control function, the driver must carry the electronic key and smartphone and confirm the safety of the area around the vehicle.

WARNING

- While using Remote control function, the vehicle can be stopped by stop operating the smartphone. The vehicle can also be stopped by executing a stop operation of the dedicated app, unlocking the doors using the electronic key, or opening a door.
- If it seems like your vehicle may contact an obstruction, etc., stop operating the smartphone and cancel Remote control function if necessary.
- Regardless of the manner of smartphone operation, system operation will only be performed at a fixed speed.
- Never drive the vehicle while staring at the smartphone screen.
- When driving, make sure to directly check the safety of the area around your vehicle.
- Do not use Remote control function when passengers or pets are in the vehicle.
- In an emergency, the system can be canceled by operating a switch on the electronic key or by opening a door.
- To use Remote control function, it is necessary to have a smartphone and the most up-to-date dedicated app.

Download the dedicated app from the app store.

- When registering the vehicle to the dedicated app, disconnect any other apps which are connected to the vehicle.
- To enable Remote control function, make sure to disable the Apple CarPlay/Android Auto™ connection.

• Apple CarPlay is a trademark of Apple Inc., registered in the U.S. and other countries.

• Android Auto™ is a trademark of Google LLC.

- When parking, make sure that the vehicle can be parked in the target parking space before beginning operation.
- Only use Remote control function on level road surfaces which are not slick. Do not use Remote control function for parking spaces on a downward or upward slope.
- While Remote control function is operating, if a malfunction or system limitation is detected, the following will occur automatically:

• Remote control function will be canceled

• The vehicle will stop

• The shift position will change to P and the parking brake will be engaged

• The power switch will turn off (for some malfunctions, the power switch will not turn off or cannot be turned off. Enter the vehicle and take corrective action according to the message displayed on the smartphone.)

• The doors will remain locked

- When starting Remote control function, unlock the doors with wireless remote control by electronic key.
- When Remote control function is operating, the driver should remain within 19.7 ft. (6 m) of the vehicle. Even if the driver is within approximately 19.7 ft. (6 m). If the driver becomes more than a certain distance away. Remote control function will be suspended and a message will be displayed on the smartphone. Remote control function operation can be resumed by approaching the vehicle.

WARNING

- When Remote control function is operating, the headlights will be turned on automatically.
- If system operation is canceled due to a malfunction, the emergency flashers will flash. The emergency flashers will turn off if any of the following conditions are met:
  - A door is opened
  - 3 minutes have elapsed since the emergency flashers began flashing
- Remote control function can only be started when the following conditions are met:
  - When the hybrid system is starting, after assist mode is selected
  - When the power switch is off

NOTICE

Precautions for use Advanced Park

If the 12-volt battery was discharged or has been removed and installed, fold and extend the outside rear view mirrors.

When using Remote control function

- Check the battery charge level of the smartphone before using Remote control function. If the battery of the smartphone dies while operating Remote control function, assist will be suspended. Also, if the battery charge level of the smartphone is 20% or less when attempting to start Remote control function, Remote control function will not be started.
- Enable Bluetooth® of the smartphone before using Remote control function. Remote control function cannot be used when Bluetooth® connection is disabled.
- Do not disable the Bluetooth® of the smartphone or disconnect from the multi-media system while using Remote control function. If the vehicle cannot be connected to via Bluetooth®, Remote control function cannot be used.
- While using Remote control function, if a call is received, etc., and another app is opened, Remote control function will be suspended. Assist can be resumed if the dedicated app is reopened within 3 minutes. If 3 minutes or more elapse, assist will be canceled.
- While using Remote control function, if the home button or power button of the smartphone is pressed and the screen is locked, Remote control function will be suspended. Assist can be resumed if the dedicated app is reopened within 3 minutes. If 3 minutes or more elapse, assist will be canceled.
- Do not force close the dedicated app while Remote control function is being used. If the app is force closed, assist will be canceled.
- When the ambient temperature is low, it may take time for the system to start, due to 12-volt battery charging.
- If the 12-volt battery voltage drops, assistance will be canceled.
- When using Remote control function on a slope, the vehicle speed will be slower and the distance that the vehicle will approach objects will become longer than when on a level road surface.
- If a system temporary failure occurs, after the vehicle is stopped by the electronic parking brake or the shift position being changed to P, the power switch may turn off and the system may be canceled. In this case, have the vehicle inspected by your Lexus dealer.

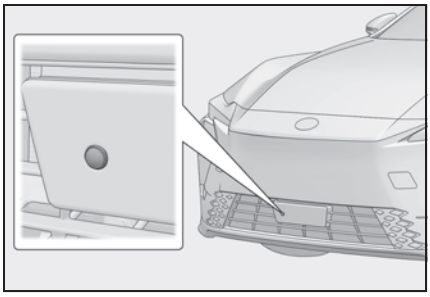
NOTICE

- If a system malfunction occurs, assistance may be temporarily suspended. If the system returns to normal, operation can be resumed. Follow the content on the smartphone screen to resume operation.
- If the hybrid system has been started using a remote start, the remote control function may not operate properly.
- After Remote control function completes, the parking brake will be engaged as per regulations. As the parking brake may freeze and not be able to be released, avoid using Remote control function in extremely cold areas. Also, if the parking brake freezes, it may make a noise when it is released. However, this does not indicate a malfunction.
- Do not use Remote control function when the electronic key battery is depleted.

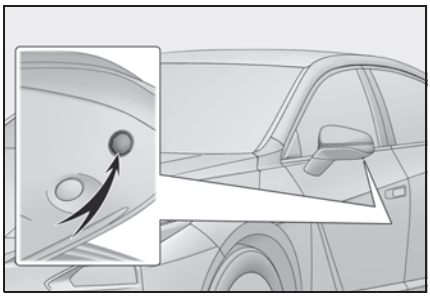
Types of cameras and sensors used for the Advanced Park

Cameras and sensors are used to detect parked vehicles, making it easier to identify parking spaces.

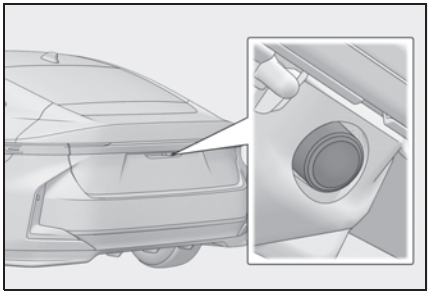
▶ Front camera



▶ Side cameras



▶ Rear camera



▶ Sensors

→P.274

n Camera images

As special cameras are used, the colors in displayed images may differ from the actual color.

n Precautions for use

For details on the following, refer to “Panoramic view monitor (Vehicles equipped with Lexus Teammate Advanced Park)” in the “MULTIMEDIA OWNER’S MANUAL”.

- Displayable range of the screens
- Cameras
- Differences between displayed images and the actual road
- Differences between displayed images and the actual objects

n Detection range of the cameras and sensors

- If a parked vehicle is behind the target

parking space and the distance between it and the vehicle becomes far, it may no longer be able to be detected. Depending on shape or condition of a parked vehicle, the detection range may become short or the vehicle may not be detected.

- Objects other than parked vehicles, such as columns, walls, etc., may not be detected. Also, if they are detected, they may cause the target parking space to be misaligned.

Situations in which parking space lines may not be recognized properly

- In situations such as the following, parking space lines on the road surface may not be detected:
  - When the parking space does not use lines (parking space boundaries are marked with rope, blocks, etc.)
  - When the parking space lines are faded or dirty, making them unclear
  - When the road surface is bright, such as concrete, and the contrast between it and the white parking space lines is small
  - When the parking space lines are any color other than yellow or white
  - When the area surrounding the parking space is dark, such as at night, in an underground parking lot, parking garage, etc.
  - When it is raining or has rained and the road surface is wet and reflective or there are puddles
  - When the sun is shining directly into a camera, such as in the early morning or evening
  - When the parking space is covered with snow or de-icing agent
  - When there marks from repairs or other marks on the road surface, or there is a traffic bollard, or other object on the road surface
  - When the color or brightness of the road surface is uneven
  - When a camera has been splashed by hot or cold water and the lens has fogged up
  - When the appearance of the parking space is affected by the shadow of the vehicle or trees
  - When a camera lens is scratched, dirty or covered with water droplets
- In situations such as the following, the target parking space may not be recognized correctly:
  - When there marks from repairs or other marks on the road surface, or there is a parking block, traffic bollard, or other object on the road surface
  - When it is raining or has rained and the road surface is wet and reflective or there are puddles
  - When the area around the vehicle is dark or backlit
  - When the color or brightness of the road surface is uneven
  - When the parking space is on a slope
  - When there are diagonal lines (access aisle) near the parking space
  - When the appearance of the parking space is affected by the shadow of a parked vehicle (such as shadows from the grille, side step, etc.)
  - When accessories which obstruct the view of the camera are installed
  - When the parking space lines are faded or dirty, making them unclear
  - When the appearance of the parking space is affected by the shadow of the vehicle or trees

Sensor detection information

→P.276

Objects which the sensor may not be properly detected

→P.276

Situations in which the sensor may not operate properly

→P.277

Situations in which parking assistance may not operate even if there is no possibility of a collision

→P.277

WARNING

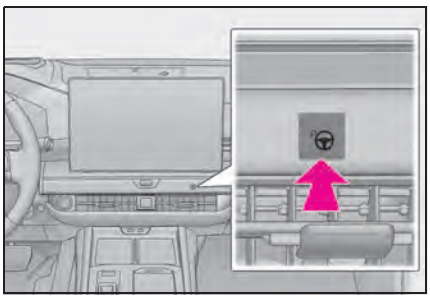
n Precautions for the cameras and sensors

- Due to the characteristics of the camera lens, the position of and distance to people and objects displayed on the screen may differ from the actual situation. For details, refer to "MULTIMEDIA OWNER'S MANUAL".
- Make sure to observe the precautions for using the Parking Assist-Sensor, otherwise a sensor may not operate correctly, possibly leading to an accident. (→P.274)
- In situations such as the following, the sensors may not operate correctly, possibly leading to an accident. Proceed carefully.
  - When there is a parked vehicle next to the target parking space, if the displayed target parking space is far from the actual target parking space, a sensor may be misaligned. Have the vehicle inspected by your Lexus dealer.
  - Do not install any accessories near the detection area of the sensors.

Turning the Advanced Park system on/off

1 Press the Advanced Park main switch.

If the switch is pressed while assistance is being performed, the assistance will be canceled.



n Operating conditions of the Advanced Park

Assistance will begin when all of the following conditions are met:

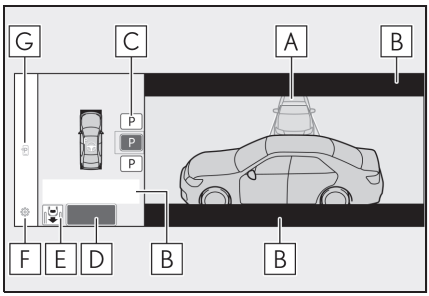
- The brake pedal is depressed
- The vehicle is stopped
- The driver's seat belt is fastened
- The steering wheel is not being operated
- The accelerator pedal is not depressed
- All of the doors and the back door are closed
- The outside rear view mirrors have not been electronically folded
- The parking brake is not engaged
- The dynamic radar cruise control are not operating
- ABS, VSC, TRAC, PCS and PKSB are not operating
- The vehicle is not towing a trailer or another vehicle
- The vehicle is not on a steep slope
- The VSC and TRAC are not turned off

If assistance cannot be started, check the message displayed on the center display. (→P.328)

Advanced Park guidance screens

Guidance screens are displayed on the center display.

▶ Guidance screen (When assistance starts)



A Target parking space box (blue)

B Advice display

C Parking type change button

If multiple buttons are displayed, depending on the condition of the button its function differs as follows.

P or P : Change the target to another parking space.

P or P : Select the current target parking space.

: Select to change to the parallel parking function

: Change the perpendicular parking (forward/reverse) function

D "Start" button

Select to start parking assistance.

E Perpendicular parking direction change button

Select to change between the parking (forward) function and parking (reverse) function.

: Change the perpendicular parking (forward) function

: Change the perpendicular parking (reverse) function

F Customize setting button

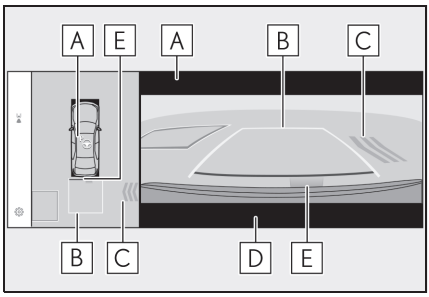
Select to display the Advanced Park setting screen. (→P.327)

G Remote control function start button*

Select to start parking assistance operation on the smartphone display.

*: If equipped

▶ Guidance screen (When reversing)



A Operation icon

Displayed when the Advanced Park is operating.

B Guide lines (yellow and red)

Display points from the center of the edge of the front or rear bumper to the target stopping position (yellow)* and approximately 1 ft. (0.3 m) (red) from the vehicle.

C Moving object warning icon

D Emergency support brake control operation display

"Brake" is displayed.

E Parking Assist-Sensor display →P.274

*: The yellow lateral line is not displayed when the target stopping position is approximately 8.2 ft. (2.5 m) or more away from the vehicle.

n **Parking Assist-Sensor pop-up display**

Regardless of whether the Parking Assist-Sensor is off or on (→P.274), if an object is detected by the Parking Assist-Sensor when the Advanced Park is operating, the Parking assist-sensor pop-up display will automatically be displayed over the guidance display.

n **Brake control operation when Advanced Park is operating**

While the Advanced Park is operating, if the system determines that the possibility of

collision with detected moving or stationary object is high, the hybrid system output restriction control and brake control will operate.

If brake control operates, Advanced Park operation will be suspended and a message will be displayed on the multi-information display.

n **Buzzer**

Depending on surrounding sounds or sounds from other systems, it may be difficult to hear the buzzer of this system.

n **If a black screen is displayed on the center display when the Advanced Park is operating**

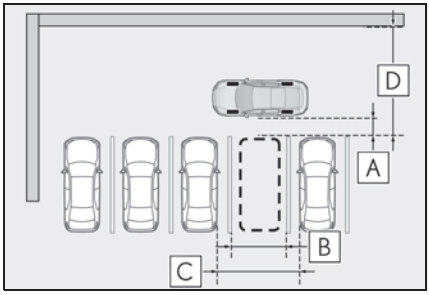
The system is being affected by radio waves or may be malfunctioning. If a radio antenna is installed near a camera, move it to a location as far from the cameras as possible. If a radio antenna is not installed near a camera, and the screen does not return to normal after turning the power switch off and then starting the hybrid system again, have the vehicle inspected by your Lexus dealer.

Perpendicular parking (forward/reverse) function

The perpendicular parking (forward/reverse) function can be used if the target parking space can be detected when the vehicle is stopped close and perpendicular to the center of the parking space. Also, depending on the condition of the parking space, etc., if it is necessary to change the direction of travel of the vehicle, the shift position can be changed by assistance control.

Parking using the perpendicular parking (forward/reverse) function

1 Stop the vehicle at a position close and perpendicular to the center of the target parking space.



A Approximately 3.3 ft. (1 m)*

B With parking space lines: Approximately 8.2 ft. (2.5 m)*

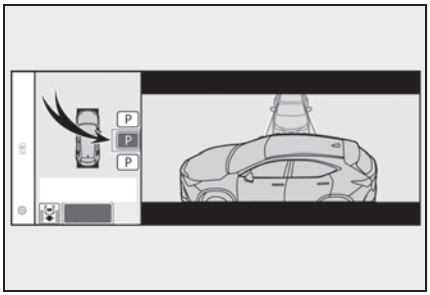
C With adjacent parked vehicles: Approximately 9.8 ft. (3 m) or more*

D Perpendicular parking (reverse): Approximately 18.0 ft. (5.5 m) or more*
Perpendicular parking (forward): Approximately 24.6 ft. (7.5 m) or more*

*: This is a reference measurement for detection of a parking space. Depending on the surrounding environment, detection may not be possible.

2 Press the Advanced Park main switch. (→P.311)

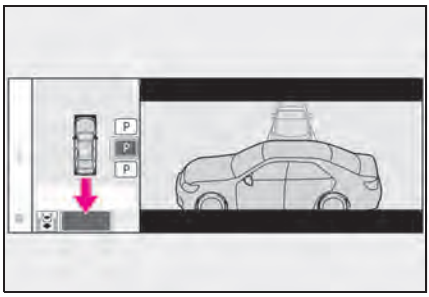
3 Check that a possible parking space is displayed on the center display.



- If a space which your vehicle can be parked is detected, a target parking space box will be displayed.
- If it is possible to parallel park in the space, select the parking space, and then select (P) to change to the parallel parking function.
- If it is possible to change the direction which a parking space is entered, select the parking space, and then select or change the direction.
- Depending on the surrounding environment, it may not be possible to use this function. According to the information displayed on the center display, use the function on another parking space.

4 Select "Start" button.

A buzzer will sound, an operation message will be displayed on the multi-information display, and assistance will begin operating.



- When the brake pedal is released, "Moving Forward...", "Backing Up..." will be displayed and the vehicle will begin moving forward/reverse.
- To cancel assistance, press the Advanced Park main switch.

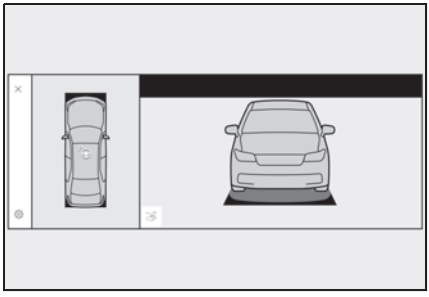
If assistance is canceled, "Advanced Park Cancel" will be displayed.

If you feel that the vehicle is approaching close to a surrounding vehicle, object, person, or gutter: →P.315

5 Perform operations as indicated by the advice displays until the vehicle stops in the target parking space.

When the vehicle stops, "Advanced Park Finished" will be displayed and parking assistance will end.

If you select on the center display, the vehicle displayed on the parking assist completion screen will rotate.



n **If you feel that the vehicle is approaching close to a surrounding vehicle, object, person, or gutter**

Depress the brake pedal to stop the vehicle and then change the shift position to change the direction of travel of the vehicle. At this time, assist will be suspended. However, if the "Start" button is selected, assist will resume and the vehicle will move in the direction corresponding to the selected shift position.

n **When the brakes have been operated**

When the brakes have been operated, brake operation sound may be heard. This does not indicate a malfunction.

NOTICE

n **When using the perpendicular parking (forward/reverse) function**

- Make sure that there are no obstructions within the yellow guide lines and between the vehicle and target parking spot. If there are any obstructions between the vehicle and the target parking space, or between the yellow guide lines, cancel the function.
- As the target parking space will not be able to be set correctly if the surface of the parking space is on a slope or has differences in height, the vehicle may stray from the target parking space or be slanted. Therefore, do not use the function for this kind of parking spot.
- When parking in a narrow parking space, the vehicle may closely approach an adjacent parked vehicle. If a collision seems likely, depress the brake pedal to stop the vehicle.
- If a detected parked vehicle is narrow or parked extremely close to the curb, the position at which assistance will park the vehicle will also be close to the curb. If it seems likely the vehicle will collide with something or drive off of the road, depress the brake pedal to stop the vehicle, and then press the Advance Park main switch to disable the system.

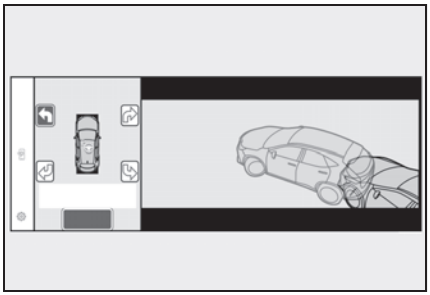
Advanced Park perpendicular exiting (forward/reverse) function

When exiting from a perpendicular parking space, if the system determines that exit is possible the perpendicular exiting (forward/reverse) function can be used. Also, depending on the surrounding environment, if it is necessary to change the direction of travel of the vehicle, the shift position can be changed by assistance control.

Leaving a parking space using the perpendicular exiting (forward/reverse) function

1 With the brake pedal depressed and P shift position selected, press the Advanced Park main switch. (→P.311)

2 Check that the exit direction selection screen is displayed on the center display.

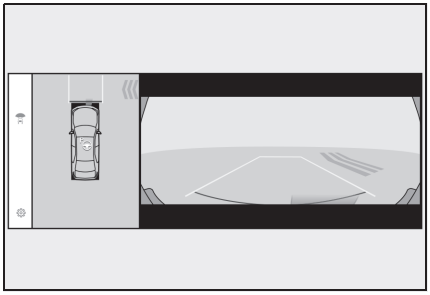


3 Select an arrow on the center display to select the direction you wish to exit.

If the turn signal lever is operated, only exit to the left or right can be selected.

4 Depress the brake pedal and select "Start" button.

A buzzer will sound, an operation message will be displayed on the multi-information display, and assistance will begin operating.



To cancel assistance, press the Advanced Park main switch.

If assistance is canceled, "Advanced Park Cancel" will be displayed.

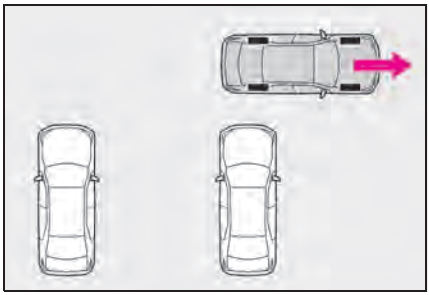
If you feel that the vehicle is approaching close to a surrounding vehicle, object, person, or gutter: →P.315

5 Perform operations as indicated by the advice displays until the vehicle is in a position where exit is possible.

When the vehicle reaches a position where exit is possible, "You can exit by moving the steering wheel" will be displayed. If the steering wheel is operated, "Advanced Park Finished" will be displayed and assistance will end.

As assistance will end while the vehicle is moving, grip the steering wheel and drive forward.

If the steering wheel is not operated, the vehicle will stop at the exit position. Assistance can be ended by depressing the accelerator pedal or brake pedal.



n **If you feel that the vehicle is approaching close to a surrounding vehicle, object, person, or gutter**

→P.315

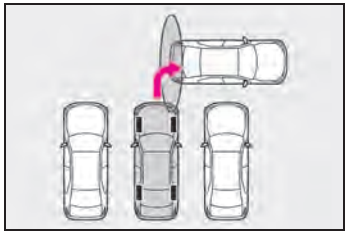
n **Perpendicular exiting (forward/reverse) function**

Do not use perpendicular exiting (forward/reverse) function in any situation other than when exiting a perpendicular parking spot. If assistance is started unintentionally, depress the brake pedal and stop the vehicle, then press the Advanced Park main switch to cancel assistance.

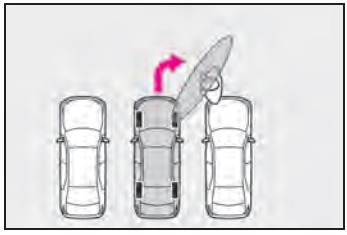
n **Situations in which the perpendicular exiting (forward/reverse) function will not operate**

In situations such as the following, the perpendicular exiting (forward/reverse) function will not operate:

- When a vehicle which is waiting to park is in the exit direction



l When a wall, column, or person is detected as near a front or rear center or corner sensor



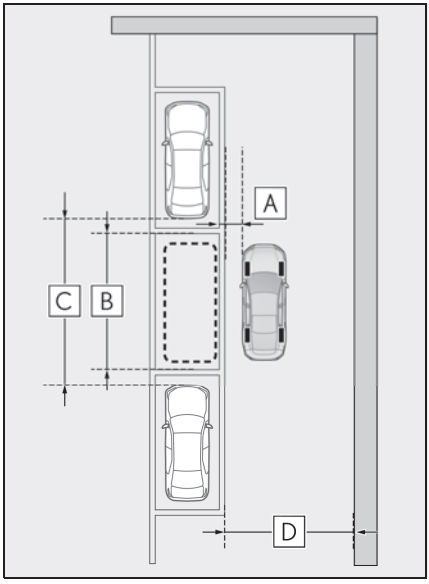
n **When the brakes have been operated**
→P.315

Advanced Park parallel parking function

The parallel parking function can be used if the target parking space can be detected when the vehicle is stopped close and aligned with the center of the parking space. Also, depending on the condition of the parking space, etc., if it is necessary to change the direction of travel of the vehicle, the shift position can be changed by assistance control.

Parking using the parallel parking function

1 Stop the vehicle with it aligned near the center of the target parking space.



A Approximately 3.3 ft. (1 m)*

B With parking space lines: Approximately 19.7 ft. (6 m)*

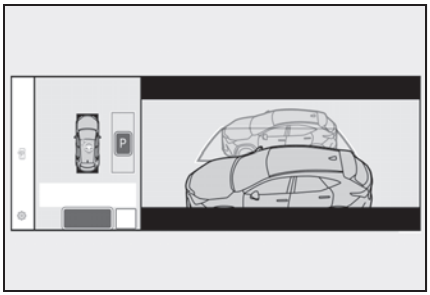
C With parked vehicles: Approximately 23.0 ft. (7 m) or more*

D Approximately 14.8 ft. (4.5 m) or more*

*: This is a reference measurement for detection of a parking space. Depending on the surrounding environment, detection may not be possible.

2 Press the Advanced Park main switch. (→P.311)

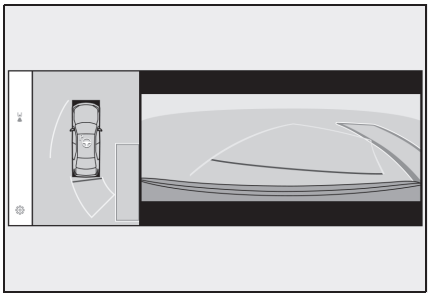
3 Check that a possible parking space is displayed on the center display.



- If a space which your vehicle can be parked is detected, a target parking space box will be displayed.
- If it is possible to perpendicular parking (forward/reverse) in the space, select the parking space, and then select to change to the perpendicular parking (forward/reverse) function.
- Depending on the surrounding environment, it may not be possible to use this function. According to the information displayed on the center display, use the function on another parking space.

4 Select "Start" button.

A buzzer will sound, an operation message will be displayed on the multi-information display, and assistance will begin operating.



- When the brake pedal is released, "Moving Forward..." will be displayed and the vehicle will begin moving forward.
- To cancel assistance, press the Advanced Park main switch.

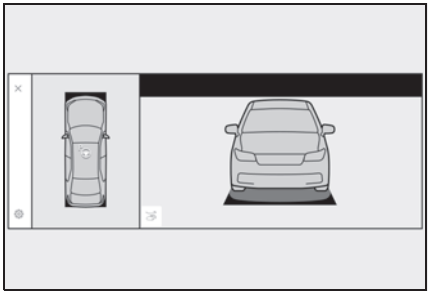
If assistance is canceled, "Advanced Park Cancel" will be displayed.

If you feel that the vehicle is approaching close to a surrounding vehicle, object, person, or gutter: →P.315

5 Perform operations as indicated by the advice displays until the vehicle stops in the target parking space.

When the vehicle stops, "Advanced Park Finished" will be displayed and parking assistance will end.

If you select on the center display, the vehicle displayed on the parking assist completion screen will rotate.

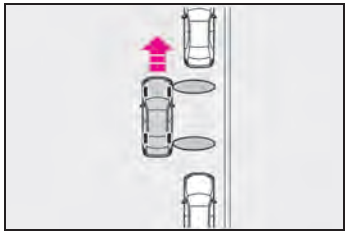


n **If you feel that the vehicle is approaching close to a surrounding vehicle, object, person, or gutter**

→P.315

n **If "No available parking space" is displayed**

Even if the vehicle is stopped parallel to a parking space, an adjacent parked vehicle may not be detected. In this case, if the vehicle is moved to a position that a parked vehicle can be detected, assistance can be started.



n **When the brakes have been operated**

→P.315

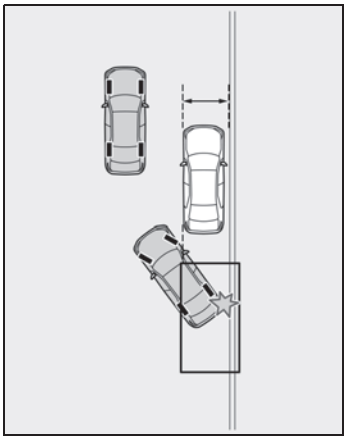
NOTICE

n **When using the parallel parking function**

l Make sure that there are no obstructions within the yellow guide lines and between the vehicle and target parking spot. If any obstructions are detected within the yellow guide lines or between the vehicle and the target parking space, the parallel parking function will be cancelled or suspended.

l As the target parking space will not be able to be set correctly if the surface of the parking space is on a slope or has differences in height, the vehicle may stray from the target parking space or be slanted. Therefore, do not use the parallel parking function for this kind of parking spot.

l If an adjacent parked vehicle is narrow or parked extremely close to the curb, the position at which assistance will park the vehicle will also be close to the curb. If it seems likely the vehicle will collide with the curb or drive off of the road, depress the brake pedal to stop the vehicle, and then press the Advanced Park main switch to disable the system.



l If there is a wall or other barrier on the inner side of the parking space, the vehicle may stop at a position slightly outside of the set target parking space.

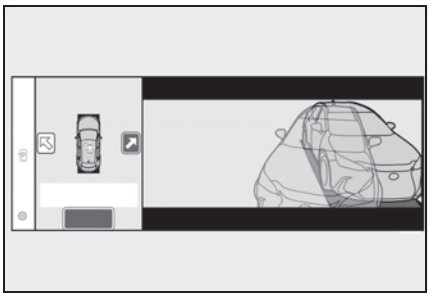
Advanced Park parallel exiting function

When exiting from a parallel parking space, if the system determines that exit is possible the parallel exiting function can be used. Also, depending on the surrounding environment, if it is necessary to change the direction of travel of the vehicle, the shift position can be changed by assistance control.

Leaving a parking space using the parallel exiting function

1 With the brake pedal depressed and P shift position selected, press the Advanced Park main switch. (→P.311)

2 Check that the exit direction selection screen is displayed on the center display.



3 Select an arrow on the center display to select the direction you wish to exit.

If the turn signal lever is operated, only exit to the left or right can be selected.

4 Depress the brake pedal and select "Start" button.

A buzzer will sound, an operation message will be displayed on the multi-information display, and assistance will begin operating.

To cancel assistance, press the Advanced Park main switch.

If assistance is canceled, "Advanced Park Cancel" will be displayed.

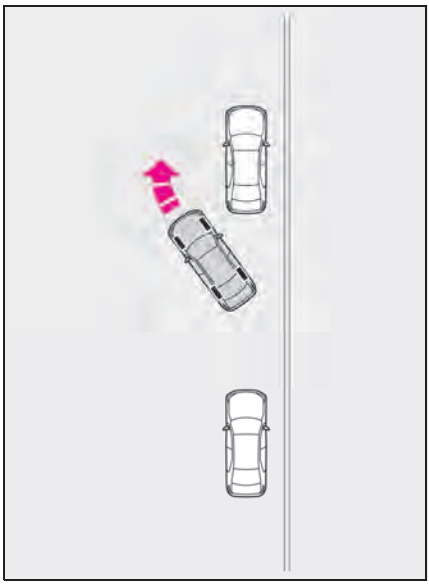
If you feel that the vehicle is approaching close to a surrounding vehicle, object, person, or gutter: →P.315

5 Perform operations as indicated by the advice displays until the vehicle is in a position where exit is possible.

When the vehicle reaches a position where exit is possible, "You can exit by moving the steering wheel" will be displayed. If the steering wheel is operated, "Advanced Park Finished" will be displayed and assistance will end.

As assistance will end while the vehicle is moving, grip the steering wheel and drive forward.

If the steering wheel is not operated, the vehicle will stop at the exit position. Assistance can be ended by depressing the accelerator pedal or brake pedal.



n If you feel that the vehicle is approaching close to a surrounding vehicle, object, person, or gutter

→P.315

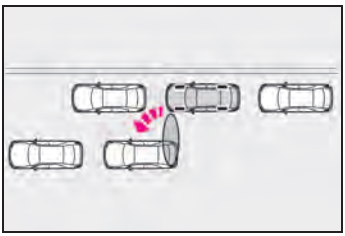
n Parallel exiting function

Do not use parallel exiting function in any situation other than when exiting a parallel parking spot. If assistance is started unintentionally, depress the brake pedal and stop the vehicle, then press the Advanced Park main switch to cancel assistance.

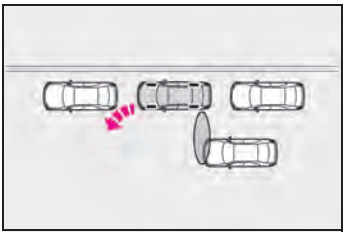
n Situations in which the parallel exiting function will not operate

In situations such as the following, the parallel exiting function will not operate:

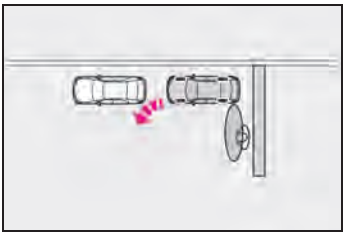
- When vehicles waiting at a traffic signal in the exit direction



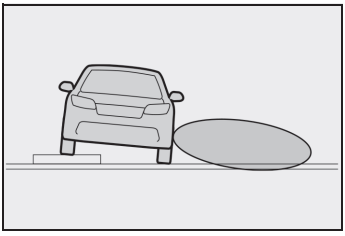
- When a vehicle is stopped in the area behind where the vehicle will exit



- When a wall, column, or person is detected as near a front or rear side sensor



- When the vehicle has been parked on a curb and a side sensor detects the road surface



- When a vehicle is not parked in front of the vehicle
- When there is excessive space between the front of the vehicle and a parked vehicle

n **When the brakes have been operated**
→P.315

Remote control function (if equipped)

A smartphone can be used to remotely operate the parking functions and exit functions. Also, assistance can be provided to remotely move the vehicle forward or backward into a garage, etc.

Parking using Remote control function

A smartphone can be used to remotely operate the parking function if the target parking space can be detected when the vehicle is stopped close and perpendicular to the center of the parking space. Also, depending on the condition of the parking space, etc., if it is necessary to change the direction of travel of the vehicle, the shift position can be changed by assistance control.

1. Stop the vehicle with it aligned near the center of the target parking space. (→P.313, 317)
2. Press the Advanced Park main switch. (→P.311)
3. Check that a possible parking space is displayed on the center display. (→P.313, 317)
4. Select and then select “Perpendicular/parallel”.
5. Select “OK” button.
6. Exit the vehicle while carrying the electronic key and smartphone, and then start the dedicated app.

If there is an obstruction in the path of the vehicle, move it before parking the vehicle. An obstruction can also be moved after exit the vehicle.

7 From outside of the vehicle, confirm the parking space on the screen of the smartphone and then execute a start operation.

Start operation of Remote control function while standing approximately 1.6 ft. (50 cm) or more from the vehicle and out of the path of the vehicle.

8 Checking the safety of the area around the vehicle, operate the screen of the smartphone.

While continuously operating the operation area, the vehicle will move and parking assistance will be performed.

If operation of the screen of the smartphone is stopped, assistance can be suspended and the vehicle can be stopped.

When the operation of the screen of the smartphone is resumed to move the vehicle, the vehicle will be locked automatically before moving.

9 When the parking space is reached, after the vehicle is stopped by the parking brake, the shift position will be changed to P, the power switch will be turned off, and the doors will be locked.

A completion screen will be displayed on the smartphone.

n **The parking function can be used even if obstructions exist if**

- When using the parking functions at a parking space made of white lines, even if an obstruction exists in the parking space, the space can be set as the target parking space. This allows for assistance to continue after setting a parking space from inside the vehicle and then exiting the vehicle to move an obstruction, such as a traffic cone placed in a handicapped parking space.
- When perpendicular parking using Advanced Park, 3 parking spaces on each side of the vehicle (up to 6 total) can be detected. However, when using Remote control function, only 1 parking space on each side of the vehicle can be detected.

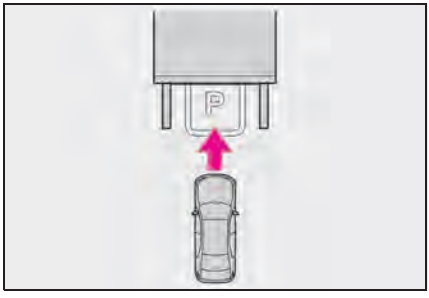
n **When the brakes have been operated**

→P.315

Moving the vehicle forward and backward using Remote control function

After the vehicle is stopped, assistance can be provided to move the vehicle into a garage, etc., by using the forward and backward movement function.

1 Stop the vehicle at the location you would like to start assistance.



2 Press the Advanced Park main switch. (→P.311)

3 Select and then select “Forward/reverse”.

4 Adjust as necessary using direction keys then select “OK” button.

5 Exit the vehicle while carrying the electronic key and smartphone, and then start the dedicated app.

6 From outside of the vehicle, confirm the direction of travel on the screen of the smartphone and then execute a start operation.

Start operation of Remote control function while standing approximately 1.6 ft. (50 cm) or more from the vehicle and out of the path of the vehicle.

7 Checking the safety of the area around the vehicle, operate the screen of the smartphone.

While continuously operating the operation area, the vehicle will move and forward and reverse movement assistance will be performed.

Standing next to the vehicle and moving together with the vehicle makes it less likely that assistance will be suspended.

If operation of the screen of the smartphone is stopped, assistance can be suspended and the vehicle can be stopped.

While assistance is being performed, it can be stopped part way or the direction of travel of the vehicle can be changed.

8 Execute a power-off operation of the vehicle on the screen of the smartphone.

The power switch will then turn OFF and the doors will lock automatically.

n **Changing the direction of travel**

While assistance is being performed, the direction of travel of the vehicle can be changed by the forward and reverse movement function.

When there is a wall behind the vehicle, etc., by executing a change in the direction of travel on the screen of the smartphone, the vehicle can be slightly moved forward to allow loading of items and then moved back to its original position.

n **When the brakes have been operated**

→P.315

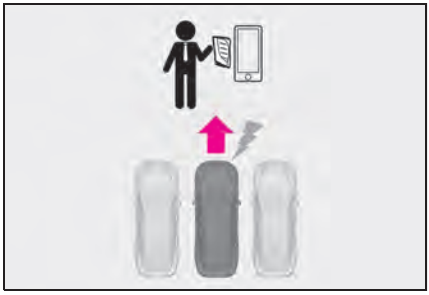
Exiting using Remote control function

Assistance can be provided to exit from a perpendicular or parallel parking space when the power switch OFF.

When forward and backward movement is selected, the maximum distance the vehicle can move is 23.0 ft. (7 m) from the starting point and possible to change the direction of travel.

1 While near the parked vehicle, start the dedicated app.

If the dedicated app cannot connect to the vehicle, use the electronic key to unlock the doors.



2 Execute a start operation on the screen of the smartphone.

The power switch will change to ON.

3 Check that a possible exit direction is displayed, select the exit direction.

4 Checking the safety of the area around the vehicle, operate the screen of the smartphone.

While continuously operating the operation area, the vehicle will move and departure assistance will be performed.

Standing next to the vehicle and moving together with the vehicle makes it less likely that assistance will be suspended.

If operation of the screen of the smartphone is stopped, assistance can be suspended and the vehicle can be stopped.

While assistance is being performed, it can be stopped part way or the direction of travel of the vehicle can be changed.

5 Move the vehicle to the position where assistance ends and enter the vehicle while carrying the electronic key.

To stop assistance part way, stop operating the smartphone or enter the vehicle.

n **When the brakes have been operated**

→P.315

Preparation before using Remote control function

n Preparation before using

Make sure to perform the following before using Remote control function:

1 Download the dedicated app from the app store.

2 Turn the power switch to ON and register the smartphone as a Bluetooth® device to the multimedia system.

For details on registering a Bluetooth® device, refer to the "MULTIMEDIA OWNER'S MANUAL".

3 Start the dedicated app and register the vehicle.

4 The registered vehicle will be displayed on the screen of the smartphone. Select the vehicle.

The name and image of the vehicle can be changed on the new vehicle registration screen.

Vehicles can be added through the menu screen.

n Remote control function on/off

1 Select and then select "Advanced Park" on the center display.

2 Select "Remote Park" to turn it on/off. (The default setting is on.)

3 Press the Advanced Park main switch. (→P.311)

If the switch is pressed while assistance is being performed, the assistance will be canceled.

4 Select the button displayed on the center display.

NOTICE

n **Remote control function**

- When using Remote control function, make sure carry an electronic key in your pocket, etc.
- If an electronic key is held together with a smartphone, etc., the electronic key may not be able to be detected.
- Vehicles with a Digital Key: Remote control function cannot be used when carrying only a Digital Key. The driver should always carry the electronic key.
- When entering the vehicle after using Remote control function, make sure that the electronic key is brought into the vehicle and all of the doors are closed.

Vehicles with a power easy access system: After entering the vehicle and ending Remote control function operation, the seat return function will operate when the driver's seat seat belt is fastened or the brake pedal is depressed.

NOTICE

- If the power switch is turned off when Remote control function operation has finished or been canceled, the doors will be locked automatically. However, if a door is open, it may not be locked. Check the vehicle condition after Remote control function operation has finished.
- When the doors are locked after Remote control function operation has finished or been canceled, an alarm may sound if someone is detected inside the vehicle.

Situations in which the function may not operate correctly

- When the functions of the smart access system with push button start may not operate correctly: →P.122
- When the vehicle is near fluorescent lights
- Radio wave interference: →P.124

Electronic key battery consumption

- When Remote control function is being used, the electronic key battery will be used as the electronic key will continuously send and receive radio waves.
- If the electronic key battery is depleted: →P.427

Situations in which the sensors may not operate properly

→P.277

- When using Remote control function, visibility of the area around the vehicle may be limited. Make sure to check the following when using Remote control function:
  - The vehicle and area around the vehicle are clearly visible
  - There are no people, animals, or objects in the path of the vehicle
  - An appropriate distance from the vehicle can be maintained and the safety of yourself and others can be ensured
  - Caution for the area around the vehicle is always maintained and there is no potential for danger
  - You can cancel Remote control function immediately if necessary

Advanced Park cancelation/suspension

Assistance will be canceled when

In situations such as the following, Advanced Park operation will be canceled. Firmly hold the steering wheel and depress the brake pedal to stop the vehicle.

As system operation has been canceled, begin the operation again or continue parking manually, using the steering wheel.

- The Advanced Park main switch is pushed
- The shift position has been changed to P
- The parking brake is engaged
- A door or the back door is opened
- The driver's seat belt is unfastened
- The outside rear view mirrors are folded
- The TRAC or VSC is turned off
- The TRAC, VSC or ABS operates
- The vehicle is towing a trailer or another vehicle
- The power switch is pressed

- The system determines assistance cannot be continued in the current parking environment
- The system malfunctions
- While the vehicle was stopped, "Cancel" was selected on the center display

n **Assistance will be suspended when**

In situations such as the following, Advanced Park operation will be suspended.

Assistance can be started again by following the directions displayed on the center display.

Also, when assistance is suspended, if the shift position is changed twice with the brake pedal depressed, assistance will be canceled in that shift position.

However, if assistance is suspended by changing the shift position, assistance will be canceled if the shift position is changed once.

- The steering wheel is operated
- The accelerator pedal is depressed
- The shift position has been changed
- A moving object or stationary object that may collide with your vehicle has been detected, resulting in the operation of the hybrid system output control/braking control.

n **Remote control function assistance will be canceled when**

In situations such as the following, Remote control function operation will be canceled.

As system operation has been canceled, while carrying an electronic key, enter the vehicle and park the vehicle manually, using the steering wheel.

- When a condition for stopping Advanced Park assistance is met, with the exception suspension due to a door being opened or the driver's seat seat belt being released
- When 5 minutes have elapsed since Remote control function operation was started
- When 3 minutes have elapsed since any operation was performed
- When 30 seconds have elapsed with the vehicle not being able to be driven, even though the screen of the smartphone is being operated to drive the vehicle
- When a power-off operation of the vehicle is executed on the screen of the smartphone
- When the dedicated app is force closed
- When the vehicle is on a steep slope
- When an electronic key is detected inside the vehicle while Remote control function operation is suspended
- When the ambient temperature is 14°F (-10°C) or less

n **Remote control function assistance will be suspended when**

In situations such as the following, assistance will be suspended.

- When the Bluetooth® communica-

tion between the smartphone and multimedia system get lost

- When an operation on the smartphone is suspended
- When the dedicated app is pushed to the background (a call is received, the home button is pressed, etc.)
- When electronic key does not detected
- When there is an obstruction in the movement direction of the vehicle
- When the vehicle is operated while it is being driven by assistance
- When the smart key is operated while it is being driven by assistance
- When the door is unlocked while it is being driven by assistance
- When a door is opened while the vehicle is being driven

Changing the Advanced Park settings

Press the Advanced Park main switch, and select  on the center display, and then select "Advanced Park".

n **Remote Park (if equipped)**

Remote control function can be turned on/off.

n **Speed profile**

The vehicle speed for when assistance is performed can be set.

n **Obstacle detection range**

The distance from which obstacles will be avoided while assistance is being performed can be set.

n **Preferred parking method**

The preferred parking direction displayed when at a parking space which perpendicular (forward/reverse) or parallel parking is possible can be set.

n **Preferred parking direction**

The preferred parking direction displayed when it is possible to pull perpendicular forward or reverse into a parking space can be selected.

n **Preferred exit direction (perpendicular)**

The preferred exit direction displayed when it is possible to pull forward or reverse to the left or right out of a parking space can be selected.

n **Preferred exit direction (parallel)**

The preferred exit direction displayed when it is possible to exit to the left or right from a parallel parking space can be selected.

n **Camera view when parking**

The display angle of the camera image when using the perpendicular parking (forward/reverse) function or parallel parking function can be set.

n **Camera view when exiting**

The display angle of the camera image when using the perpendicular exiting (forward/reverse) function or parallel parking exit function can be set.

n **Parking path adjustment**

The course for when parking assistance is operating can be adjusted

inward or outward.

If the tires are worn, the path of vehicle may be offset from the center of the parking space. In this case, use this setting to adjust the parking course.

n **Road width adjustment**

When parking assistance is started, the amount of lateral movement while the vehicle is moving forward can be adjusted.

n **Park position adjustment (forward)**

The position at which perpendicular parking (forward) is completed can be adjusted.

n **Park position adjustment (reverse)**

The position at which perpendicular parking (reverse) is completed can be adjusted.

n **Rear accessory setting**

If an accessory, such as a trailer hitch, has been installed to the rear of the vehicle, the length of the rear of the vehicle can be adjusted to help avoid colliding with objects to the rear of the vehicle.

NOTICE

- Take care when using the park position adjustment (forward) or park position adjustment (reverse) for adjusting because the vehicle may collide with parking blocks, curb stones, or other low objects.
- If it is likely that your vehicle will collide with a nearby vehicle/object, parking block, curb stone, etc., depress the brake pedal to stop the vehicle and press the Advanced Park main switch to disable the system.

Changing the dedicated app settings

n **Parking Assist-Sensor warning sound ON/OFF (Smartphone setting)**

The warning sounds of the Parking Assist-Sensor from the dedicated app can be enabled/disabled.

n **Parking Assist-Sensor warning sound volume adjustment (Smartphone setting)**

The volume of the warning sounds of the Parking Assist-Sensor can be adjusted from the dedicated app.

Advanced Park displayed messages

The operating state, assistance operation, etc. of the Advanced Park is displayed on the center display. If a message is displayed, respond according to the content displayed.

n **If "No available parking space" is displayed**

Move the vehicle to a location where a parking space or parking lines can be detected.

n **If "Unavailable in current condition" is displayed**

Move the vehicle to another location and use the system.

n **If "Not enough space to exit" is displayed**

The parallel parking exit function cannot be used due to a situation such as the distance between your vehicle and vehicles parked in front of and behind your vehicle being short, the existence of an object in the exit direction, etc.

Check the conditions of the area around your vehicle and exit from the parking space manually.

n **If "Cannot control speed" is displayed**

The system judged that it cannot adjust the speed of the vehicle when using the system in an area with a slope or step and assistance was canceled.

Use the system in a level location.

n **If "Obstacle detected" is displayed**

As a moving object or stationary object that may collide with your vehicle has been detected, the hybrid system output control/braking control operates to suspend Advanced Park assistance.

Check the condition of the surrounding area. To resume assistance, select the "Start" button on the center display.

Driving Mode Select switch

The driving modes can be selected to suit driving condition.

Selecting a drive mode

1 Select  on the center display.

2 Select "Drive Performance".

3 Select driving mode.



1 Normal mode

Provides an optimal balance of fuel economy, quietness, and dynamic performance. Suitable for city driving.

2 Eco drive mode

Helps the driver accelerate in an eco-friendly manner and improve fuel economy through moderate throttle characteristics and by controlling the operation of the air conditioning system (heating/cooling).

When the Eco drive mode is selected, Eco drive mode indicator comes on.

3 Sport mode

Controls the hybrid system to provide

quick, powerful acceleration. This mode also changes the steering feel, making it suitable for when agile driving response is desired, such as when driving on roads with many curves.

When the Sport mode is selected, Sport mode indicator will comes on.

4 Custom mode

Allows you to drive with the power train, steering and air conditioning system functions set to your preferred settings. (→P.524)

When the Custom mode is selected, Custom mode indicator comes on.

---

n **When a driving mode other than normal mode is selected (AWD vehicles)**

The AWD control switches to that suitable for the selected driving mode.

n **Operation of the air conditioning system in Eco drive mode**

Eco drive mode controls the heating/cooling operations and fan speed of the air conditioning system to enhance fuel efficiency. To improve air conditioning performance, perform the following operations:

- Adjust the fan speed (→P.344)
- Turn off Eco drive mode

n **Automatic deactivation of sport mode and custom mode**

If the power switch is turned off after driving in sport mode or custom mode, the drive mode will be changed to normal mode.

Normal mode and Eco drive mode will not be canceled automatically until another driving mode is selected, even if the power switch is turned off.

n **Display of the multi-information display according to selected driving mode**

According to the driving mode selected, the gauges displayed on the multi-information display may change.

n **Customization**

Some functions can be customized. (→P.524)

Driving assist systems

To keep driving safety and performance, the following systems operate automatically in response to various driving situations. Be aware, however, that these systems are supplementary and should not be relied upon too heavily when operating the vehicle.

Summary of the driving assist systems

n **ECB (Electronically Controlled Brake System)**

The electronically controlled system generates braking force corresponding to the brake operation

n **ABS (Anti-lock Brake System)**

Helps to prevent wheel lock when the brakes are applied suddenly, or if the brakes are applied while driving on a slippery road surface

n **Brake assist**

Generates an increased level of braking force after the brake pedal is depressed when the system detects a panic stop situation

n **VSC (Vehicle Stability Control)**

Helps the driver to control skidding when swerving suddenly or turning on slippery road surfaces.

n **Enhanced VSC (Enhanced Vehicle Stability Control)**

Provides cooperative control of the ABS, TRAC, VSC and EPS.

Helps to maintain directional stability when swerving on slippery road surfaces by controlling steering performance.

n **TRAC (Traction Control)**

Helps to maintain drive power and prevent the drive wheels from spinning when starting the vehicle or accelerating on slippery roads

n **Active Cornering Assist (ACA)**

Helps to prevent the vehicle from drifting to the outer side by performing inner wheel brake control when attempting to accelerate while turning

n **Hill-start assist control**

Helps to reduce the backward movement of the vehicle when starting on an uphill

n **EPS (Electric Power Steering)**

Employs an electric motor to reduce the amount of effort needed to turn the steering wheel

n **The Secondary Collision Brake**

When the SRS airbag sensor detects a collision and the system operates, the brakes and brake lights are automatically controlled to reduce the vehicle speed and help reduce the possibility of further damage due to a secondary collision.

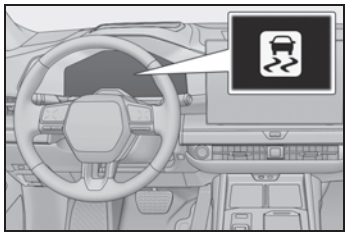
n **Vehicle Braking Posture Control [Yaw and Roll Control]**

Helps to suppress sudden changes in vehicle roll posture and cornering behavior and keep comfortable posture by performing front outer wheel

and rear inner wheel brake control when cornering.

n When the TRAC/VSC/ABS systems are operating

The slip indicator light will flash while the TRAC/VSC/ABS systems are operating.



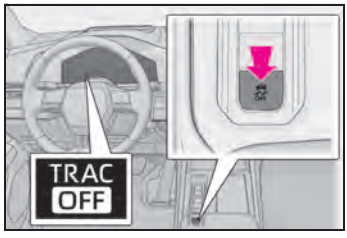
n Disabling the TRAC system

If the vehicle gets stuck in mud, dirt or snow, the TRAC system may reduce power from the hybrid system to the wheels. Pressing the OFF switch to turn the system off may make it easier for you to rock the vehicle in order to free it.

To turn the TRAC system off, quickly press and release the OFF switch.

The "TRAC OFF" indicator light will come on.

Press the OFF switch again to turn the system back on.



n Turning off both TRAC and VSC systems

To turn the TRAC and VSC systems off, press and hold the OFF switch for more than 3 seconds while the vehicle is stopped.

The "TRAC OFF" indicator light and the VSC OFF indicator light will come on.

Press the OFF switch again to turn the system back on.

n When the "TRAC OFF" indicator light comes on even if OFF has not been pressed

TRAC is temporary deactivated. If the indicator light continues to remain on, contact your Lexus dealer.

n Operating conditions of hill-start assist control

When all of the following conditions are met, the hill-start assist control will operate:

- The shift position is in the D position or other forward shift position when starting off forward on an uphill incline, or the shift position is in the R position when starting off in reverse on an uphill incline.
- The vehicle is stopped.
- The accelerator pedal is not depressed.
- The parking brake is not engaged.
- Power switch is turned to ON.

n Automatic system cancelation of hill-start assist control

The hill-start assist control will turn off in any of the following situations:

- The shift position is in other than forward shift position such as D position, when starting off forward on an uphill incline, or the shift position is in other than R position when starting off in reverse on an uphill incline.
- The accelerator pedal is depressed.
- The brake pedal is depressed and the parking brake is engaged.
- A maximum of 2 seconds have elapsed after the brake pedal is released.
- Power switch is turned to OFF.

n Sounds and vibrations caused by the ABS, brake assist, VSC, TRAC and hill-start assist control systems

- A sound may be heard from the engine compartment when the brake pedal is depressed repeatedly, when the hybrid system is started or just after the vehicle begins to move. This sound does not indi-

cate that a malfunction has occurred in any of these systems.

- Any of the following conditions may occur when the above systems are operating. None of these indicates that a malfunction has occurred.
  - Vibrations may be felt through the vehicle body and steering.
  - A motor sound may be heard also after the vehicle comes to a stop.

ECB operating sound

ECB operating sound may be heard in the following cases, but it does not indicate that a malfunction has occurred.

- Operating sound heard from the engine compartment when the brake pedal is operated.
- Motor sound of the brake system heard from the front part of the vehicle when the driver's door is opened.
- Operating sound heard from the engine compartment when one or two minutes passed after the stop of the hybrid system.

Active Cornering Assist operation sounds and vibrations

When the Active Cornering Assist is operated, operation sounds and vibrations may be generated from the brake system, but this is not a malfunction.

Automatic reactivation of TRAC and VSC systems

After turning the TRAC and VSC systems off, the systems will be automatically re-enabled in the following situations:

- When the power switch is turned off
- If only the TRAC system is turned off, the TRAC will turn on when vehicle speed increases

If both the TRAC and VSC systems are turned off, automatic re-enabling will not occur when vehicle speed increases.

Operating conditions of Active Cornering Assist

The system operates when the following occurs.

- TRAC/VSC can operate
- The driver is attempting to accelerate while turning
- The system detects that the vehicle is drifting to the outer side
- The brake pedal is released

Reduced effectiveness of the EPS system

The effectiveness of the EPS system is reduced to prevent the system from overheating when there is frequent steering input over an extended period of time. The steering wheel may feel heavy as a result. Should this occur, refrain from excessive steering input or stop the vehicle and turn the hybrid system off. The EPS system should return to normal within 10 minutes.

Secondary Collision Brake operating conditions

The system operates when the SRS airbag sensor detects a collision while the vehicle is in motion.

However, the system does not operate when the components are damaged.

Secondary Collision Brake automatic cancellation

The system is automatically canceled in any of the following situations.

- The vehicle speed drops to approximately 0 mph (0 km/h)
- A certain amount of time elapses during operation
- The accelerator pedal is depressed a large amount

Operating conditions of Vehicle Braking Posture Control [Yaw and Roll Control]

The system operates when the following occurs.

- The vehicle speed is approximately 25 mph (40 km/h) or more
- The brake pedal is released
- When the system detects steering operation over a certain level
- When the slip indicator light is not on or flashing (does not operate during vehicle stabilization control such as ABS, VSC,

TRAC, etc.)

n **System release conditions**

l TRAC/VSC cannot operate

l The brake pedal is depressed (does not operate even during automatic braking such as Radar Cruise Control)

WARNING

n **The ABS does not operate effectively when**

l The limits of tire gripping performance have been exceeded (such as excessively worn tires on a snow covered road).

l The vehicle hydroplanes while driving at high speed on wet or slick roads.

n **Stopping distance when the ABS is operating may exceed that of normal conditions**

The ABS is not designed to shorten the vehicle's stopping distance. Always maintain a safe distance from the vehicle in front of you, especially in the following situations:

l When driving on dirt, gravel or snow-covered roads

l When driving with tire chains

l When driving over bumps in the road

l When driving over roads with potholes or uneven surfaces

n **TRAC/VSC may not operate effectively when**

Directional control and power may not be achievable while driving on slippery road surfaces, even if the TRAC/VSC system is operating.

Drive the vehicle carefully in conditions where stability and power may be lost.

n **Active Cornering Assist does not operate effectively when**

l Do not overly rely on Active Cornering Assist. Active Cornering Assist may not operate effectively when accelerating down slopes or driving on slippery road surfaces.

l When Active Cornering Assist frequently operates, Active Cornering Assist may temporarily stop operating to ensure proper operation of the brakes, TRAC and VSC.

n **Hill-start assist control does not operate effectively when**

l Do not overly rely on hill-start assist control. Hill-start assist control may not operate effectively on steep inclines and roads covered with ice.

l Unlike the parking brake, hill-start assist control is not intended to hold the vehicle stationary for an extended period of time. Do not attempt to use hill-start assist control to hold the vehicle on an incline, as doing so may lead to an accident.

n **When the TRAC/ABS/VSC is activated**

The slip indicator light flashes. Always drive carefully. Reckless driving may cause an accident. Exercise particular care when the indicator light flashes.

n **When the TRAC/VSC systems are turned off**

Be especially careful and drive at a speed appropriate to the road conditions. As these are the systems to help ensure vehicle stability and driving force, do not turn the TRAC/VSC systems off unless necessary.

WARNING

n Replacing tires

Make sure that all tires are of the specified size, brand, tread pattern and total load capacity. In addition, make sure that the tires are inflated to the recommended tire inflation pressure level.

The ABS, TRAC and VSC systems will not function correctly if different tires are installed on the vehicle.

Contact your Lexus dealer for further information when replacing tires or wheels.

n Handling of tires and the suspension

Using tires with any kind of problem or modifying the suspension will affect the driving assist systems, and may cause a system to malfunction.

n Secondary Collision Brake

Do not rely solely upon the Secondary Collision Brake. This system is designed to help reduce the possibility of further damage due to a secondary collision, however, that effect changes according to various conditions. Overly relying on the system may result in death or serious injury.

Hybrid Electric Vehicle driving tips

For economical and ecological driving, pay attention to the following points:

Using Eco drive mode

When using Eco drive mode, the torque corresponding to the accelerator pedal depression amount can be generated more smoothly than it is in normal conditions. In addition, the operation of the air conditioning system (heating/cooling) will be minimized, improving the fuel economy. (→P.329)

Use of Hybrid System Indicator

The Eco-friendly driving is possible by keeping the bar display of Hybrid System Indicator within Eco area. (→P.85)

Changing the shift position

Shift the shift position to D when stopped at a traffic light, or driving in heavy traffic etc. Shift the shift position to P when parking. When using the N position, there is no positive effect on fuel consumption. In the N position, the gasoline engine operates but electricity cannot be generated. Also, when using the air conditioning system, etc., the hybrid battery (traction battery) power is consumed.

Accelerator pedal/brake pedal operation

- Drive your vehicle smoothly. Avoid abrupt acceleration and deceleration. Gradual acceleration and deceleration will make more effective use of the electric motor (traction motor) without having to use gasoline engine power.
- Avoid repeated acceleration. Repeated acceleration consumes hybrid battery (traction battery) power, resulting in poor fuel consumption. Battery power can be restored by driving with the accelerator pedal slightly released.

When braking

Make sure to operate the brakes gently and in a timely manner. A greater amount of electrical energy can be regenerated when slowing down.

Delays

Repeated acceleration and deceleration, as well as long waits at traffic lights, will lead to bad fuel economy. Check traffic reports before leaving and avoid delays as much as possible. When driving in a traffic jam, gently release the brake pedal to allow the vehicle to move forward slightly while avoiding overuse of the accelerator pedal. Doing so can help control excessive gasoline consumption.

Highway driving

Control and maintain the vehicle at a constant speed. Before stopping at a toll booth or similar, allow plenty of time to release the accelerator and gently apply the brakes. A greater amount of electrical energy can be regenerated when slowing down.

Air conditioning

Use the air conditioning only when necessary. Doing so can help reduce excessive gasoline consumption.
In summer: When the ambient temperature is high, use the recirculated air mode. Doing so will help to reduce the burden on the air conditioning system and reduce fuel consumption as well.
In winter: Because the gasoline engine will not automatically cut out until it and the interior of the vehicle are warm, it will consume fuel. Also, fuel consumption can be improved by avoiding overuse of the heater.

Checking tire inflation pressure

Make sure to check the tire inflation pressure frequently. Improper tire inflation pressure can cause poor fuel economy.
Also, as snow tires can cause large amounts of friction, their use on dry roads can lead to poor fuel economy. Use tires that are appropriate for the season.

Luggage

Carrying heavy luggage will lead to poor fuel economy. Avoid carrying unnecessary luggage. Installing a large roof rack will also cause poor fuel economy.

Warming up before driving

Since the gasoline engine starts up and cuts out automatically when cold, warming up the engine is unnecessary. Moreover, frequently driving short distances will cause the engine to repeatedly warm up, which can lead to excess fuel consumption.

Winter driving tips

Carry out the necessary preparations and inspections before driving the vehicle in winter. Always drive the vehicle in a manner appropriate to the prevailing weather conditions.

Preparation for winter

- Use fluids that are appropriate to the prevailing outside temperatures.
  - Engine oil
  - Engine coolant/power control unit coolant
  - Washer fluid
- Have a service technician inspect the condition of the 12-volt battery.
- Have the vehicle fitted with four snow tires or purchase a set of tire chains for the front tires.

Ensure that all tires are the specified size and brand, and that chains match the size of the tires.

WARNING

n Driving with snow tires

Observe the following precautions to reduce the risk of accidents.

Failure to do so may result in a loss of vehicle control and cause death or serious injury.

- Use tires of the specified size.
- Maintain the recommended level of air pressure.
- Do not drive in excess of 75 mph (120 km/h), regardless of the type of snow tires being used.
- Use snow tires on all, not just some wheels.

n Driving with tire chains

Observe the following precautions to reduce the risk of accidents.

Failure to do so may result in the vehicle being unable to be driven safely, and may cause death or serious injury.

- Do not drive in excess of the speed limit specified for the tire chains being used, or 30 mph (50 km/h), whichever is lower.
- Avoid driving on bumpy road surfaces or over potholes.
- Avoid sudden acceleration, abrupt steering, sudden braking and shifting operations that cause sudden engine braking.
- Slow down sufficiently before entering a curve to ensure that vehicle control is maintained.
- Do not use LTA (Lane Tracing Assist) system.
- Do not use LDA (Lane Departure Alert) system.

NOTICE

n Repairing or replacing snow tires

Request repairs or replacement of snow tires from Lexus dealers or legitimate tire retailers.

This is because the removal and attachment of snow tires affects the operation of the tire pressure warning valves and transmitters.

Before driving the vehicle

Perform the following according to the driving conditions:

- Do not try to forcibly open a window or move a wiper that is frozen. Pour

warm water over the frozen area to melt the ice. Wipe away the water immediately to prevent it from freezing.

- To ensure proper operation of the climate control system fan, remove any snow that has accumulated on the air inlet vents in front of the windshield.
- Check for and remove any excess ice or snow that may have accumulated on the exterior lights, outside rear view mirrors, windows, vehicle's roof, chassis, around the tires or on the brakes.
- Remove any snow or mud from the bottom of your shoes before getting in the vehicle.

n **To protect the windshield wipers**

→P.187

When driving the vehicle

Accelerate the vehicle slowly, keep a safe distance between you and the vehicle ahead, and drive at a reduced speed suitable to road conditions.

When parking the vehicle

- Turn automatic mode of the parking brake off. Otherwise, the parking brake may freeze and not be able to be released automatically.

Also, avoid using the following as the parking brake may operate automatically, even if automatic mode is off.

- Brake hold system
- Remote parking function (if equipped)

- Park the vehicle and shift the shift position to P without setting the parking brake. The parking brake may freeze up, preventing it from being released. If the vehicle is parked without setting the parking brake, make sure to block the wheels. Failure to do so may be dangerous because it may cause the vehicle to move unexpectedly, possibly leading to an accident.
- If the vehicle is parked without setting the parking brake, confirm that the shift position cannot be moved out of P.
- If the vehicle is left parked with the brakes damp in cold temperatures, there is a possibility of the brakes freezing.

n **Linked mirror function when reversing**

When used in cold weather during reverse driving, the door mirror could be frozen and may not automatically point the mirror surface downward. In this event, remove any ice and snow from the mirror surface.

WARNING

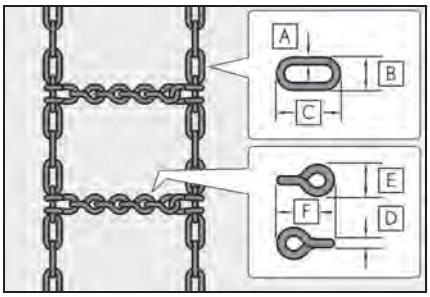
n **When parking the vehicle**

When parking the vehicle without applying the parking brake, make sure to chock the wheels. If you do not chock the wheels, the vehicle may move unexpectedly, possibly resulting in an accident.

Selecting tire chains

Use the correct tire chain size when mounting the tire chains.
Chain size is regulated for each tire

size.



A Side chain (0.12 in. [3 mm] in diameter)

B Side chain (0.39 in. [10 mm] in width)

C Side chain (1.18 in. [30 mm] in length)

D Cross chain (0.16 in. [4 mm] in diameter)

E Cross chain (0.55 in. [14 mm] in diameter)

F Cross chain (0.98 in. [25 mm] in diameter)

Regulations on the use of tire chains

Regulations regarding the use of tire chains vary depending on location and type of road. Always check local regulations before installing chains.

n Tire chain installation

Observe the following precautions when installing and removing chains:

- Install and remove tire chains in a safe location.
- Install tire chains on the front tires. Do not install tire chains on the rear tires.
- Install tire chains on front tires as tightly as possible. Retighten chains after driving 1/4 - 1/2 mile (0.5 - 1.0 km).
- Install tire chains following the instructions provided with the tire chains.

NOTICE

n Fitting tire chains

The tire pressure warning valves and transmitters may not function correctly when tire chains are fitted.

Windshield wipers

To enable the windshield wipers to be lifted when heavy snow or icy conditions are expected, change the rest position of the windshield wipers from the retracted position below the hood to the service position using the wiper lever. (→P.190)

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5-5. Using the other interior features

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Lexus Climate Concierge

The seat heaters, seat ventilators, heated steering wheel and radiant heaters (if equipped) are each automatically controlled according to the set temperature of the air conditioning system, the outside and cabin temperature, etc. Lexus Climate Concierge allows a comfortable condition to be maintained without adjusting each system.

Turning on Lexus Climate Concierge

When "Climate Concierge" is set to (enabled) on the option control screen (→P.343), Lexus Climate Concierge can be used by using the air conditioning in the automatic mode (→P.348).

The air conditioning, seat heaters, seat ventilators, heated steering wheel and radiant heaters operate in automatic mode.

Even if any of these systems are operated manually, automatic mode will continue to operate for functions other than the operated functions.

Operation of each system

n **Automatic air conditioning system (→P.343)**

The temperature can be adjusted individually for the driver seat and passenger seat.

n **Seat heaters and ventilators (→P.351)**

Heating or ventilation is automatically selected according to the set temperature of the air conditioning system, the outside temperature, etc. Also, heating and ventilation may turn off.

The seat heater and ventilator of the front passenger seat operate in automatic mode if a passenger is detected.

n **Heated steering wheel (→P.351)**

Heated steering wheel operates automatically according to the set temperature of the air conditioning system, the outside temperature, etc.

n **Radiant heaters (→P.351)**

Radiant heaters operates automatically according to the set temperature of the air conditioning system, the outside temperature, etc.

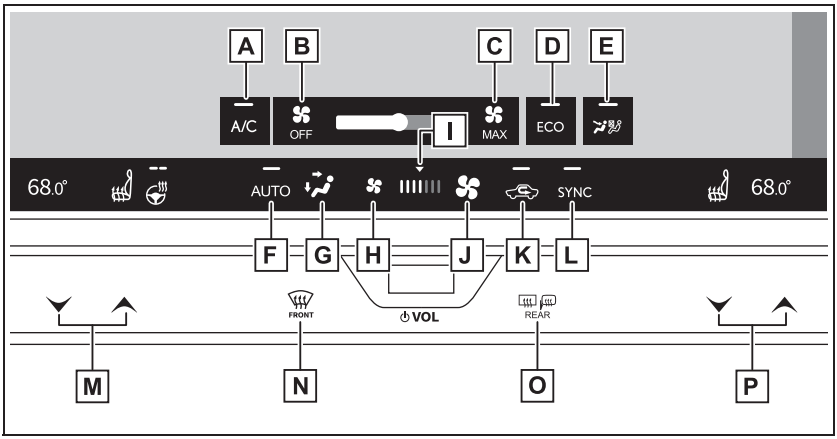
n **Seat heater/ventilator operation**

When automatic mode is selected using the seat heater/ventilator switch, passenger detection is not performed.

Automatic air conditioning system

When the "AUTO" switch is on, the air outlets and fan speed will automatically be changed according to the set temperature.

Air conditioning controls



A "A/C" switch

B "OFF" switch

C "MAX" switch

D Eco air conditioning mode switch

E Front seat concentrated airflow mode (S-FLOW) switch

F "AUTO" switch

G Airflow mode control switch

H Fan speed decreases switch

I Option screen switch

J Fan speed increases switch

K Outside/recirculated air mode switch

L "SYNC" switch

M Left-hand side temperature control switch

N Windshield defogger switch

O Rear window and outside rear view mirror defoggers switch

P Right-hand side temperature control switch

n Adjusting the temperature

To turn on the "SYNC" mode, select the "SYNC" switch.

The "SYNC" switch can be used to adjust the temperature for the driver's and passenger's side. To enter individual mode, operate the passenger's side temperature control switch or select the "SYNC" switch again. When the "SYNC" mode is on, the indicator on the "SYNC" switch illuminates.

Touch and slide the icon or press the "+" "-" switch of the temperature display on the control screen can also adjust the temperature setting.

n Setting the fan speed

To increase the fan speed, select the fan speed increase switch or slide the icon of the fan speed adjustment switch right.

To decrease the fan speed, select the fan speed decrease switch or slide the icon of the fan speed adjustment switch left.

Select the "OFF" switch to turns off the fan.

The fan can also be stopped by sliding the icon of the fan speed adjustment switch to the leftmost position.

Select the "MAX" switch to turns the fan speed to max.

The fan can also be quickly increase the fan speed by sliding the icon of the fan speed adjustment switch to the rightmost position.

n Changing the air flow mode

Select the airflow mode control switch.

The airflow mode changes when the switch is selected.

The air outlets and air volume changes according to the selected air flow mode.

: Air flows to the upper body

: Air flows to the upper body and feet

: Air flows to the feet

: Air flows to the feet and the windshield defogger operates

n Switching between outside air and recirculated air modes

Temporarily changing the air mode to recirculated air mode is recommended to prevent dirty air from entering the vehicle, such as when in a tunnel or heavy traffic, and to help cool the interior when the outside air temperature is high.

Select the outside/recirculatedair mode switch.

The air mode changes between outside air mode and recirculated air mode each time the switch is selected. When recirculated air mode is selected, the indicator will illuminate.

The air mode may change automatically depending on the temperature setting, temperature inside the vehicle, vehicle outside air (exhaust gas) etc.

n Set cooling and dehumidification function

Select the "A/C" switch.

When the function is on, the indicator illuminates on the "A/C" switch.

n Eco air conditioning mode

The air conditioning is controlled with low fuel consumption prioritized such as reducing fan speed, etc.

Select the eco air conditioning mode switch.

When the eco air conditioning mode is on, the indicator illuminates on the eco air conditioning mode switch.

n Defogging the windshield

Defoggers are used to defog the windshield and front side windows.

Press the windshield defogger switch.

Set the outside/recirculated air mode switch to outside air mode if the recirculated air mode is used. (It may switch automatically.)

To defog the windshield and the side windows early, turn the air flow and temperature up.

To return to the previous mode, press the windshield defogger switch again when the windshield is defogged.

When the windshield defogger switch is on, the indicator illuminates on the windshield defogger switch.

n Defogging the rear window and outside rear view mirrors

Defoggers are used to defog the rear window and to remove raindrops, dew and frost from the outside rear view mirrors.

Press the rear window and outside rear view mirror defoggers switch.

The defoggers will automatically turn off after 15 minutes.

When the rear window and outside rear view mirror defoggers switch is on, the indicator illuminates on the rear window defoggers switch.

n Windshield wiper de-icer (if equipped)

This feature is used to prevent ice from building up on the windshield and wiper blades.

1 Select the option screen switch.

2 Select the Windshield wiper de-icer switch.

Vehicles with windshield wiper de-icer: The windshield wiper de-icer will automatically turn off after a period of time.

WARNING

n To prevent burns

Vehicles with windshield wiper de-icer: Do not touch the glass at lower part of the windshield or to the side of the front pillars when the windshield wiper de-icer is on.

n Fogging up of the windows

The windows will easily fog up when the humidity in the vehicle is high. Turning "A/C" on will dehumidify the air from the outlets and defog the windshield effectively.

- If you turn "A/C" off, the windows may fog up more easily.
- The windows may fog up if the recirculated air mode is used.

n When driving on dusty roads

Close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended

that the air intake mode be set to outside air mode and the fan speed to any setting except off.

n **When the outside temperature exceeds 75°F (24°C) and the air conditioning system is on**

l In order to reduce the air conditioning power consumption, the air conditioning system may switch to recirculated air mode automatically. This may also reduce fuel consumption.

l Recirculated air mode is selected as a default mode when the power switch is turned to ON.

l It is possible to switch to outside air mode at any time by pressing the outside/recirculated air mode switch.

n **Operation of the air conditioning system in Eco drive mode**

In Eco drive mode, the air conditioning system is controlled as follows to prioritize fuel efficiency:

l Engine speed and compressor operation controlled to restrict heating/cooling capacity

l Fan speed restricted when automatic mode is selected

l To improve air conditioning performance, perform the following operations:
- Adjust the fan speed
- Turn off Eco drive mode (→P.329)
- Turn off eco air conditioning mode (→P.343)

l When the driving mode is set to Eco driving mode, the Eco air conditioning mode will be turned on automatically. Even in this case, the Eco air conditioning mode can be turned off by selecting the Eco air conditioning mode switch.

n **When the outside temperature falls to nearly 32°F (0°C)**

The dehumidification function may not operate even when "A/C" is selected.

n **Ventilation and air conditioning odors**

l To let fresh air in, set the air conditioning system to the outside air mode.

l During use, various odors from inside and outside the vehicle may enter into and accumulate in the air conditioning system. This may then cause odor to be emitted from the vents.

l To reduce potential odors from occurring:
- It is recommended that the air conditioning system be set to outside air mode prior to turning the vehicle off.
- The start timing of the blower may be delayed for a short period of time immediately after the air conditioning system is started in automatic mode.

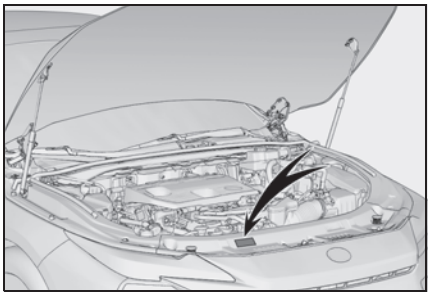
l When parking, the system automatically switches to fresh air intake mode to encourage better air circulation throughout the vehicle, helping to reduce odors that occur when starting the vehicle.

n **Air conditioning filter**

→P.422

n **Air conditioning system refrigerant**

l A label regarding the refrigerant of the air conditioning system is attached to the hood at the location shown in the following illustration.



l The meaning of each symbol on the label are as follows:

	Caution
	Air conditioning system
	Air conditioning system lubricant type

	Requires registered technician to service air conditioning system
	Flammable refrigerant

WARNING

n To prevent the windshield from fogging up

Do not use the windshield defogger switch during cool air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield can cause the outer surface of the windshield to fog up, blocking your vision.

n When the outside rear view mirror defoggers are operating

Do not touch the rear view mirror surfaces when the outside rear view mirror defoggers are operating, as the surface of the mirrors will become extremely hot and may cause burns.

NOTICE

n To prevent 12-volt battery discharge

Do not leave the air conditioning system on longer than necessary when the hybrid system is off.

n When repairing/replacing parts of the air conditioning system

Have repair/replacement performed by your Lexus dealer. When a part of the air conditioning system, such as the evaporator, is to be replaced, it must be replaced with a new one.

Using automatic mode

1 Select the "AUTO" switch.

The air conditioning system automatically switches between outside air and recirculated air modes.

The dehumidification function begins to operate. Air outlets and fan speed are automatically adjusted according to the temperatures etting and humidity.

2 Adjust the temperature setting.

3 To stop the operation, select the "OFF" switch.

If the fan speed setting or air flow modes are operated, the automatic mode indicator goes off. However, automatic mode for functions other than that operated is maintained.

n Using automatic mode

Fan speed is adjusted automatically according to the temperature setting and the ambient conditions.

Therefore, the fan may stop for a while until warm or cool air is ready to flow immediately after the "AUTO" switch is selected.

Cool air may blow around the upper body even when the heater is on due to sunlight.

n Windshield fog detection function

When automatic mode is set, the humidity sensor detects fog on the windshield and controls the air conditioning system to prevent fog.

n Automatic mode for air intake control

In automatic mode, the system detects exhaust gas and other pollutants and automatically switches between outside air and recirculated air modes.

When the dehumidification function is off, and the fan is operating, turning automatic mode on will activate the dehumidification function. The next time the dehumidification function is turned off, the automatic mode for switching between outside air and recirculated air modes is canceled.

Air conditioning control screen

n Air conditioning control screen

▶ Main menu screen

1 Select in the main menu on the center display.

2 Select "Climate Control" on the sub menu.

3 Select any screen.

▶ Air conditioning control option screen (→P.343)

Turns each function on/off

Each time the switch is touched, the function turns on/off.

When the function is on, the indicator on the switch illuminates.

- "SYNC": "SYNC" mode (→P.344)
- "A/C": Cooling and dehumidification function (→P.345)
- "ECO": "ECO" mode (→P.345)
- : Front seat concentrated airflowmode (S-FLOW) (→P.348)
- : Windshield wiper de-icer (if equipped) (→P.345)

▶ Option control screen

The functions can be switched (on) and (off).

- "Climate Concierge" (→P.342)
- S-FLOW (→P.343)
- Windshield wiper de-icer (if equipped) (→P.345)

n Customization

Some functions can be customized. (Customizable features: →P.524)

n Eco air conditioning mode

When Eco drive mode is selected using the Driving Mode Select switch, eco air conditioning mode turns on.

When a drive mode other than Eco drive mode is selected, eco air conditioning mode may turn off.

Front seat concentrated airflow mode (S-FLOW)

This function automatically controls the air conditioning airflow so that priority is given to the front seats. Unnecessary air conditioning is suppressed, contributing to increased fuel efficiency.

Front seat concentrated airflow mode operates in the following situations.

- No passengers are detected in the rear seats
- The windshield defogger is not operating

While operating, the illuminates.

n Manually turning front seat concentrated airflow mode on/off

In front seat concentrated airflow mode, directing airflow to the front seats only and to all seats can be switched via switch operation. When the mode has been switched manually, automatic airflow control stops operating.

Select on the air conditioning option screen and switch the airflow.

- Indicator illuminated: Airflow to the

front seats only

● Indicator off: Airflow to all the seats

n **Operation of automatic airflow control**

l In order to maintain a comfortable interior, airflow may be directed to seats without passengers immediately after the hybrid system is started and at other times depending on the outside temperature.

l After the hybrid system is started, if passengers move around inside or enter/exit the vehicle, the system cannot accurately detect the presence of passengers and automatic airflow control will not operate.

n **Operation of manual airflow control**

Even if the function is manually switched to directing airflow to only the front seats, when a rear seat is occupied, it may automatically direct airflow to all seats.

n **To return to automatic airflow control**

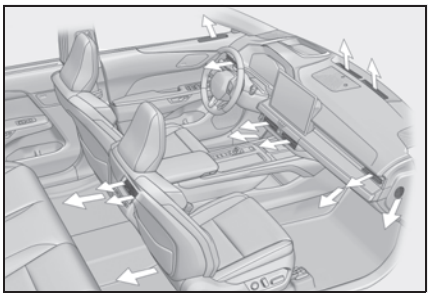
1 With the indicator off, turn the power switch off.

2 After 60 minutes or more elapse, turn the power switch to ON.

Air outlet layout and operations

n **Location of air outlets**

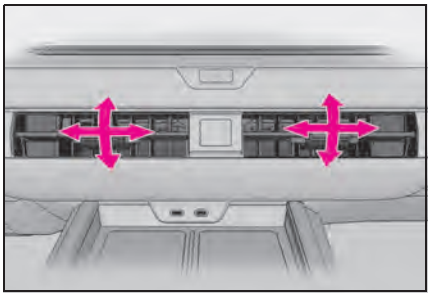
The air outlets and air volume changes according to the selected air flow mode.



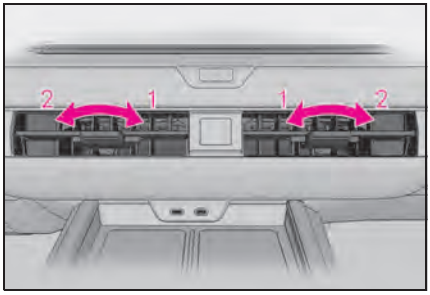
n **Adjusting the air flow direction and opening/closing the air outlets**

To adjust the position of and opening and closing the air outlets, perform the following operations:

▶ Front center



Direct air flow to the left or right, up or down

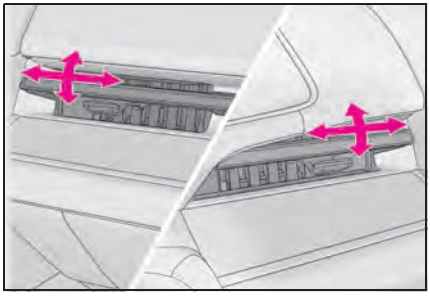


Turn the knob to open or close the vent

1 Close the outlet

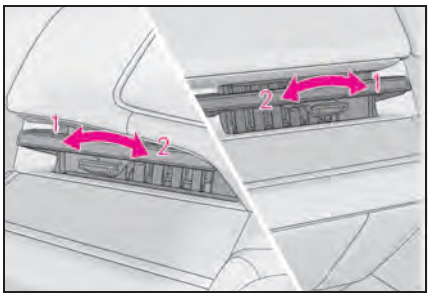
2 Open the outlet

▶ Front side



Direct air flow to the left or right, up or

down

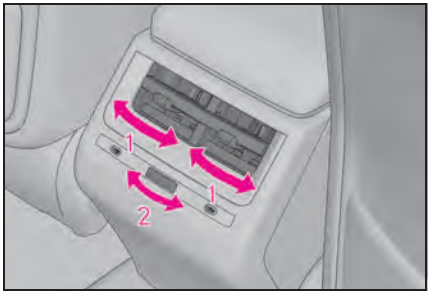


Turn the knob to open or close the vent

1 Close the outlet

2 Open the outlet

▶ Rear



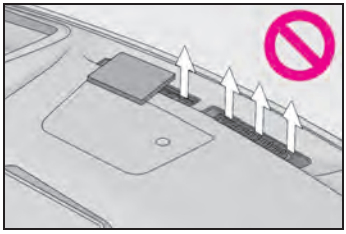
1 Direct air flow to the left or right

2 Turn the knob to open or close the vent

WARNING

n To prevent the windshield defogger from operating improperly

Do not place anything on the instrument panel which may cover the air outlets. Otherwise, air flow may be obstructed, preventing the windshield defoggers from defogging.



Heated steering wheel/seat heaters/seat ventilators/radiant heaters*

*: If equipped

● Heated steering wheel

Warms up the grip of the steering wheel

● Seat heaters/radiant heaters

Warm up the seat upholstery and leg area of the front seat occupant

● Seat ventilators

Maintain good air flow on the seat upholstery by sucking air into the seats

The heated steering wheel/seat heaters/seat ventilators/radiant heaters can be operated using the switches and control screen on the center display (→P.343).

WARNING

n To prevent minor burn injuries

Care should be taken if anyone in the following categories comes in contact with the steering wheel or seats when the heater is on:

- Babies, small children, the elderly, the sick and the physically challenged
- Persons with sensitive skin
- Persons who are fatigued
- Persons who have taken alcohol or drugs that induce sleep (sleeping drugs, cold remedies, etc.)

NOTICE

n To prevent damage to the seat heaters and seat ventilators

Do not put heavy objects that have an uneven surface on the seat and do not stick sharp objects (needles, nails, etc.) into the seat.

n To prevent 12-volt battery discharge

Do not use the functions when the hybrid system is off.

Heated steering wheel

Select  on the center display.

Each time the switch is pressed, the operation condition changes as follows.

AUTO (lit) → Hi (2 segments lit) → Lo (1 segment lit) → Off

The level indicator (red) lights up during operation. "AUTO" indicator lights up during automatic operation.

n Operation condition

The power switch is in ON.

n Customization

The temperature setting of the heated steering wheel can be set through on the center display. (→P.510)

Seat heaters/radiant heaters (if equipped)

Vehicles without radiant heaters:

Select  or  on the center display.

Vehicles with radiant heaters: Select  or  on the center display.

Each time the switch is selected, the operation condition changes as follows.

AUTO (lit) → Hi (3 segments lit) →

Mid (2 segments lit) → Lo (1 segment lit) → Off

The level indicator (red) lights up during operation. "AUTO" indicator lights up during automatic operation.

n **Operation condition**

The power switch is in ON.

n **Customization**

The temperature setting of the seat heaters can be set through on the center display. (→P.510)

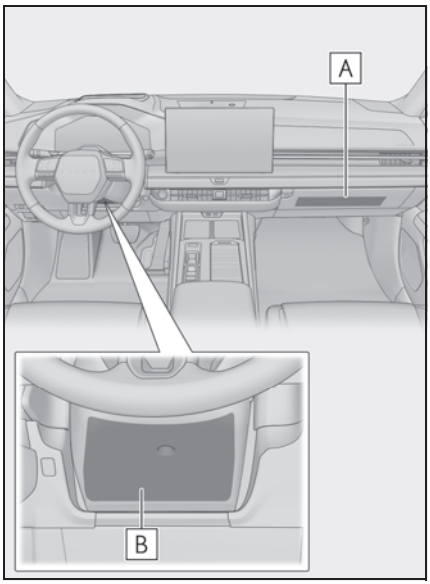
n **Operating conditions of radiant heaters**

The power switch is in ON and seat belt is fastened.

n **The radiant heater can be used when**

- The power may be turned off automatically be continually touching the heater section. In that case, turn the radiant heater switch on the center display again.
- It may take some time for the heater temperature to rise.

n **Position of the radiant heaters**



A Front passenger's side radiant heater

B Driver's side radiant heater

WARNING

n **To prevent overheating and minor burn injuries**

Observe the following precautions when using a seat heater/radiant heater:

- Do not cover the seat with a blanket or cushion when using the seat heater.
- Do not use seat heater more than necessary.

n **Use while driving**

Do not touch the radiant heater or hold your hand or foot over it by releasing a hand from the handle or a foot from the pedal.

Doing so may cause the driver to mishandle the vehicle and cause an accident, resulting in death or serious injury.

Seat ventilators

Select or on the center display.

Each time the switch is selected, the operation condition changes as follows.

AUTO → Hi (3 segments lit) → Mid (2 segments lit) → Lo (1 segment lit) → Off

The level indicator (blue) lights up during operation. "AUTO" indicator lights up during automatic operation.

n **Operation condition**

The power switch is in ON.

n **Customization**

The temperature setting of the seat ventilators can be set through on the center display. (→P.510)

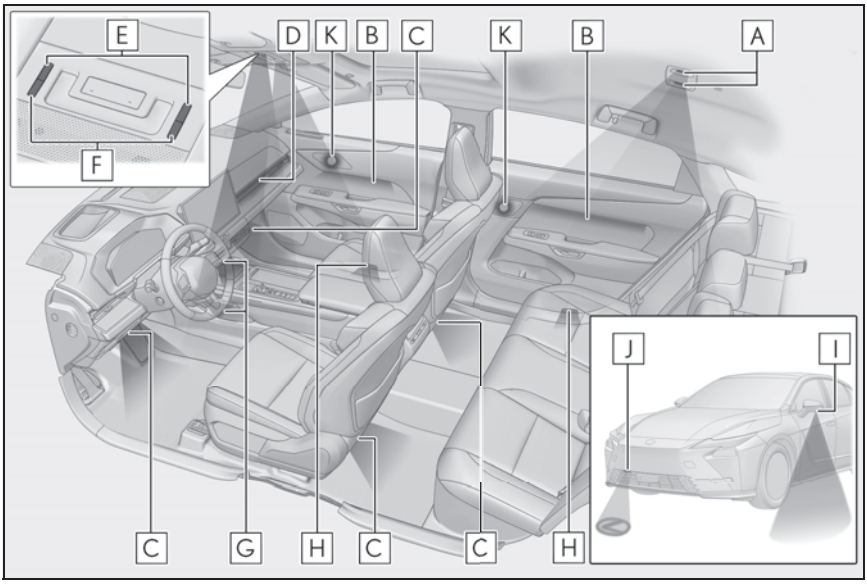
n **Air conditioning system-linked control mode**

When the seat ventilator fan speed level is Hi (when "AUTO" is selected), the seat ven-

tilator fan speed becomes higher according to the fan speed of the air conditioning system.

Interior lights list

Location of the interior lights



A Rear personal lights (→P.355)

B Door trim ornament lights*

C Footwell lights*

D Instrument panel ornament light*

E Personal lights (→P.355)

F Interior lights (→P.355)

G Center console light*

H Door courtesy lights

I Outer foot lights

J Front Projection Illumination (if equipped)

K Door speaker illumination* (if equipped)

*: The illumination color can also be changed. (→P.525)

n **Illuminated entry system**

The lights automatically turn on/off according to the power switch mode, the presence of the electronic key, whether the doors are locked/unlocked, and whether the doors are open/closed. Also, the brightness of the lights is automatically adjusted linked with

the shift operation.

n **To prevent the 12-volt battery from being discharged**

If the interior lights remain on when the power switch is turned off, the lights will go off automatically after 10 minutes.

n **When interior lights or personal lights do not respond as normal**

- When water, dirt, etc., have adhered to the lens surface
- When operated with a wet hand
- When wearing gloves, etc.

n **Automatic illumination of the interior lights**

If any of the SRS airbags deploy (inflate) or in the event of a strong rear impact, the interior lights will turn on automatically.

The interior lights will turn off automatically after approximately 20 minutes. The interior lights can be turned off manually. However, in order to help prevent further collisions, it is recommended that they be left on until safety can be ensured. (The interior lights may not turn on automatically depending on the force of the impact and conditions of the collision.)

n **Customization**

Some functions can be customized. (Customizable features: →P.525)

NOTICE

n **To prevent 12-volt battery discharge**

Do not leave the lights on longer than necessary when the hybrid system is off.

n **Removing light lenses**

Never remove the lens for the interior lights and personal lights. Otherwise, the lights will be damaged. If a lens needs to be removed, contact your Lexus dealer.

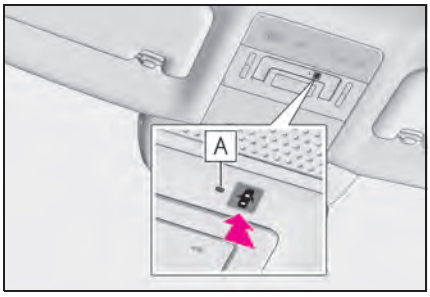
Operating the interior lights

n **Turning the door position on**

Press the door-linked interior light and personal light switch

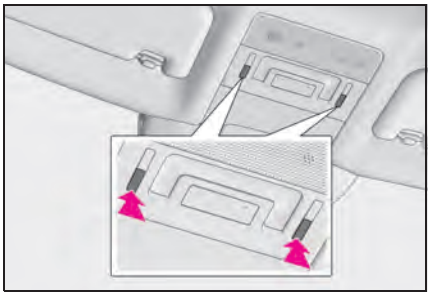
The lights are turned on and off according to whether the doors are opened/closed.

When the door position is on, the indicator A illuminates.



n **Turning the lights on/off**

Turns the lights on/off (touch the light)



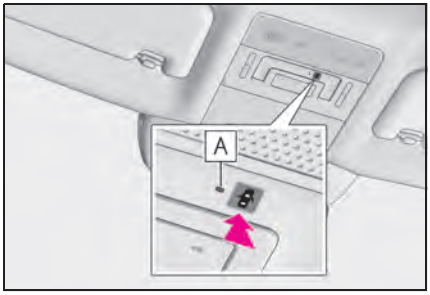
Operating the personal lights

n **Turning the door position on**

Press the door-linked interior light and personal light switch

The lights are turned on and off according to whether the doors are opened/closed.

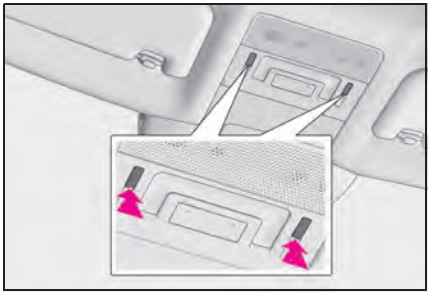
When the door position is on, the indicator A illuminates.



n **Turning the lights on/off**

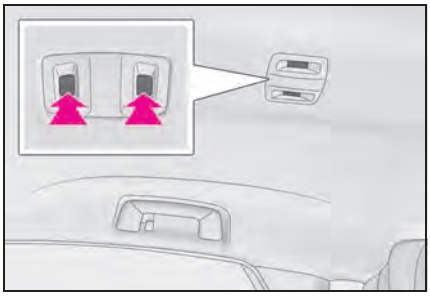
▶ Front

Turns the lights on/off (touch the light)



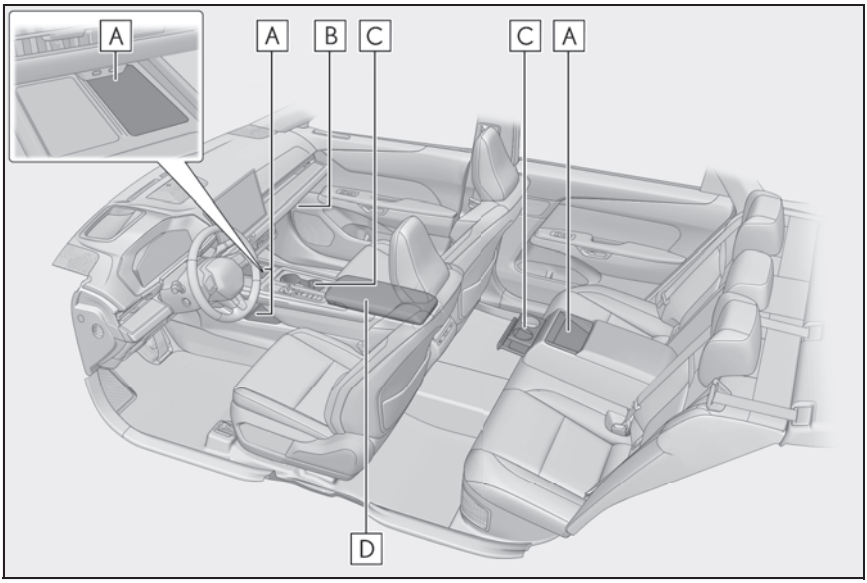
▶ Rear

Turns the lights on/off (touch the light)



List of storage features

Location of the storage features



A Open trays (→P.359)

B Glove box (→P.358)

C Cup holders (→P.358)

D Console box (→P.358)

⚠ WARNING

n Items that should not be left in the vehicle

Do not leave glasses, lighters or spray cans in the storage spaces, as this may cause the following when cabin temperature becomes high:

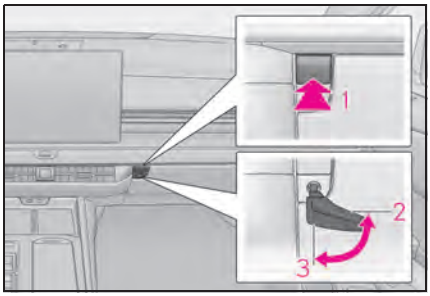
- Glasses may be deformed by heat or cracked if they come into contact with other stored items.
- Lighters or spray cans may explode. If they come into contact with other stored items, the lighter may catch fire or the spray can may release gas, causing a fire hazard.

n When the storage compartments are not in use

When driving or when the storage compartments are not in use, keep the lids closed.

In the event of sudden braking or sudden swerving, an accident may occur due to an occupant being struck by an open lid or the items stored inside.

Glove box



1 Open (press the glove box opener)
2 Unlock with the mechanical key
3 Lock with the mechanical key

n **Glove box light**

The glove box light turns on when the tail lights are on.

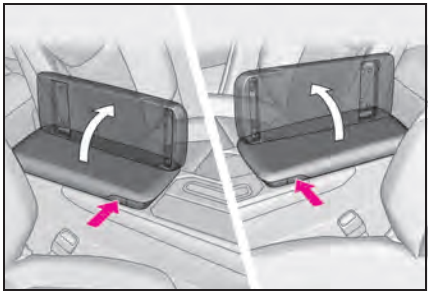
n **Trunk opener main switch**

→P.119

Console box

Press a button to open the console box.

The console box can be opened from either side.



n **Console box light**

The console box light turns on when the tail lights are on.

WARNING

n **Caution while driving**

Keep the console box closed.

Injuries may result in the event of an accident or sudden braking.

NOTICE

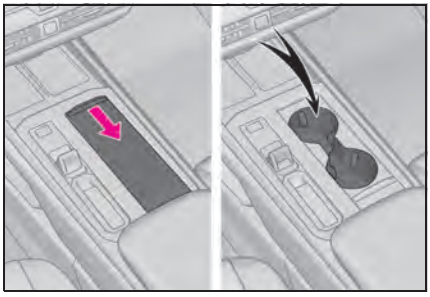
n **To prevent damage to the console box**

When the console box is open, do not apply excessive force in the direction that it was opened.

Cup holders

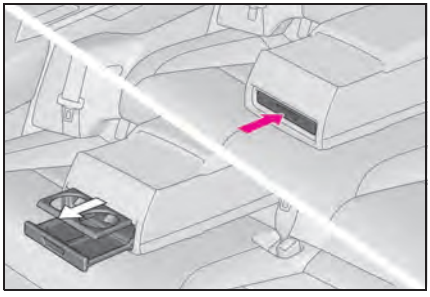
▶ Front

Open the lid.



▶ Rear

Pull the armrest down then push in the cup holder trim to extend the cup holders.



n When stowing the rear cup holders

Stow the cup holder with the armrest down. The cup holder cannot be stowed if the armrest is not down.

WARNING

n Items unsuitable for the cup holder

Do not place anything other than cups or beverage cans in the cup holders. Even when the lid is closed, items must not be stored in the cup holders.

Other items may be thrown out of the holder in the event of an accident or sudden braking, causing injury. If possible, cover hot drinks to prevent burns.

n When not in use

Keep the cup holders closed. Injuries may result in the event of an accident or sudden braking

n Precautions to be observed while the vehicle is being driven

Do not place anything on the cup holder lid.
While driving, items placed on the lid may fly out and interfere with pedal operation or distract the driver, possibly leading to an accident which could result in serious injury or death.

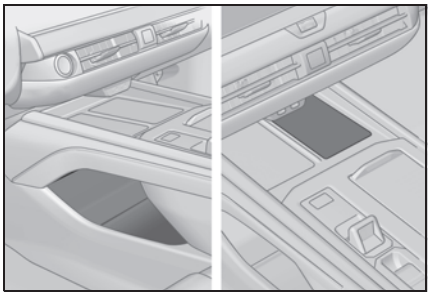
NOTICE

n To prevent damage to the cup holder

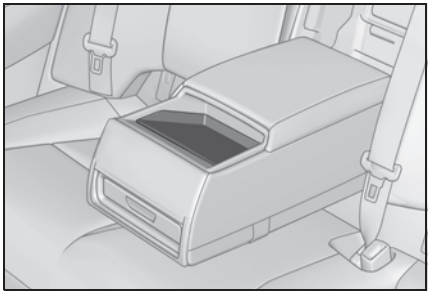
Stow the rear cup holder before stowing the armrest.

Open trays

▶ Front



▶ Rear



WARNING

n Items unsuitable for the open tray

Observe the following precautions when putting items in the open tray. Failure to do so may cause items to be thrown out of the tray in the event of sudden braking or steering. In these cases, the items may interfere with pedal operation or cause driver distraction, resulting in an accident.

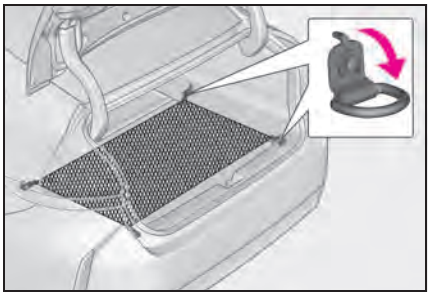
- Do not store items in the tray that can easily shift or roll out.
- Do not stack items in the tray higher than the tray's edge.
- Do not put items in the tray that may protrude over the tray's edge.

Trunk features

Cargo hooks

Raise the hooks when needed.

The cargo hooks are provided for securing loose items.

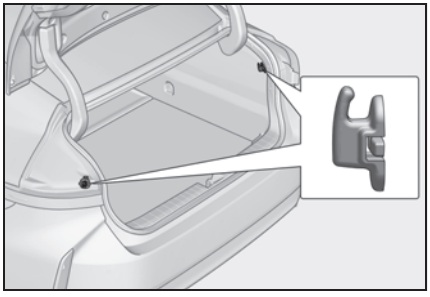


WARNING

n When the cargo hooks are not in use

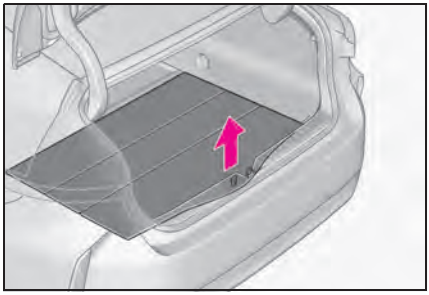
To avoid injury, always return the cargo hooks to their stowed positions when not in use.

Grocery bag hooks

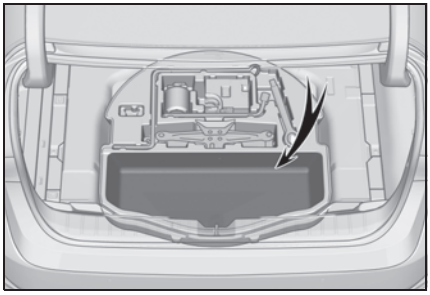


Luggage mat

Pull the strap upwards to lift the luggage mat.

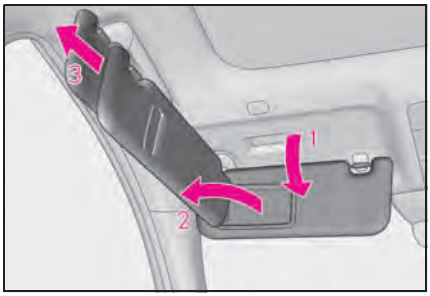


Luggage under tray



Other interior features

Sun visors



1 To set the visor in the forward position, flip it down.

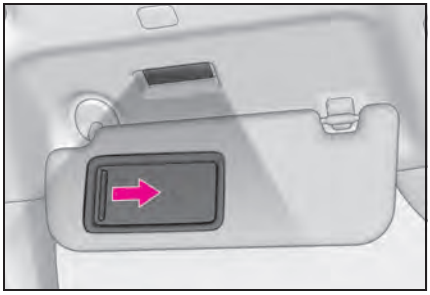
2 To set the visor in the side position, flip down, unhook, and swing it to the side.

3 To use the side extender, place the visor in the side position, then slide it backward.

Vanity mirrors

Slide the cover to open.

The light turns on when the cover is opened.



NOTICE

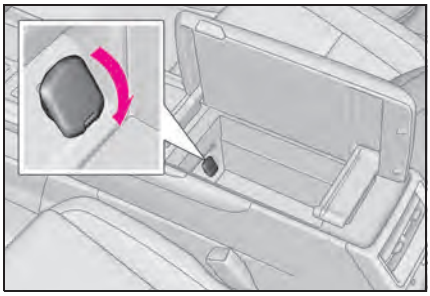
n To prevent 12-volt battery discharge

Do not leave the lights on longer than necessary when the hybrid system is off.

Power outlets

Please use as a power supply for electronic goods that use less than 12 VDC/10 A (power consumption of 120 W).

Open the lid.



n The power outlet can be used when

The power switch is in ACC or ON, or the multimedia system is on.

n When stopping the hybrid system

Disconnect electrical devices with charging functions, such as mobile battery packs.

If such devices are left connected, the hybrid system may not stop normally.

NOTICE

n When the power outlet is not in use

To avoid damaging the power outlet, close the power outlet lid when the power outlet is not in use. Foreign objects or liquids that enter the power outlet may cause a short circuit.

n To prevent 12-volt battery discharge

Do not use the power outlet longer than necessary when the hybrid system is off.

USB Type-C charging ports

The USB Type-C charging ports are used to supply 3 A of electricity at 15 V (45 W) or 20 V (60 W)* to external

devices.

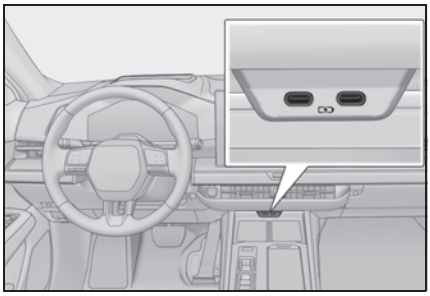
The USB Type-C charging ports are for charging only. They are not designed for data transfer or other purposes.

Depending on the external device, it may not charge properly. Refer to the manual included with the device before using a USB Type-C charging port.

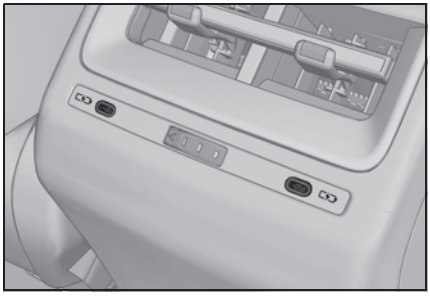
*: 60 W is the sum of power via the 2 charging ports. Therefore, in order to use 60 W via a single port, the other charging port must be unconnected.

n Using the USB Type-C charging ports

▶ Front (20 V [60 W])



▶ Rear (15 V [45 W])



n The USB Type-C charging ports can be used when

The power switch is in ACC or ON, or the multimedia system is on.

n Situations in which the USB Type-C charging ports may not operate correctly

- If a device which consumes more than 3 A at 15 V (45 W) or 20 V (60 W) is connected
- If a device designed to communicate with a personal computer, such as a USB memory device, is connected
- If the connected external device is turned off (depending on device)
- If the temperature inside the vehicle is high, such as after the vehicle has been parked in the sun

n About connected external devices

Depending on the connected external device, charging may occasionally be suspended and then start again. This is not a malfunction.

NOTICE

n To prevent damage to the USB Type-C charging ports

- Do not insert foreign objects into the ports.
- Do not spill water or other liquids into the ports.
- Do not apply excessive force to or impact the USB Type-C charging ports.
- Do not disassemble or modify the USB Type-C charging ports.

n To prevent damage to external devices

- Do not leave external devices in the vehicle. The temperature inside the vehicle may become high, resulting in damage to an external device.
- Do not push down on or apply unnecessary force to an external device or the cable of an external device while it is connected.

NOTICE

n To prevent 12-volt battery discharge

Do not use the USB Type-C charging ports for a long period of time with the hybrid system stopped.

Wireless charger

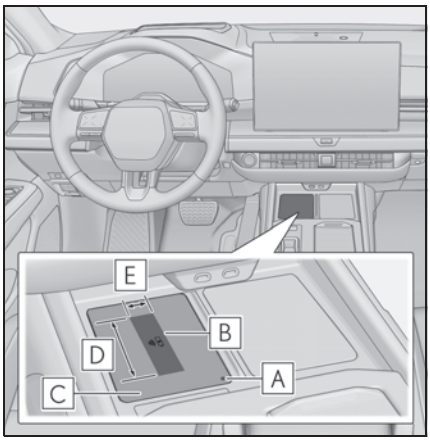
A portable device can be charged by just placing Qi standard wireless charge compatible portable devices according to the Wireless Power Consortium, such as smartphones and mobile batteries, etc., on the charge area.

This function cannot be used with portable devices that are larger than the charging tray. Also, depending on the portable device, it may not operate as normal. Please read the operation manual for portable devices to be used.

n The "Qi" logo

The Qi logo is a trademark of the Wireless Power Consortium. Qi ID: 14561

n Name for all parts



A Operation indicator light

B Charge area*

C Charging tray

D Approximately 3.9 in. (10 cm)

E Approximately 1.0 in. (2.5 cm)

*: Portable devices and wireless chargers contain charging coils.
The charging coil in the wireless charger can be moved within the charge area near the center of the charging tray. If the charging coil inside a portable device is detected in the charge area, the charging coil inside the wireless charger will move toward it and start charging. If the charging coil inside a portable device moves outside of the charge area, charging will automatically stop.
If 2 or more portable devices are placed on the charging tray, their charging coils may not be properly detected and they may not be charged.

n Using the wireless charger

Place the portable device on the charging tray

Place the charging side of the portable

device down with the center of the device in the center of the charge area.

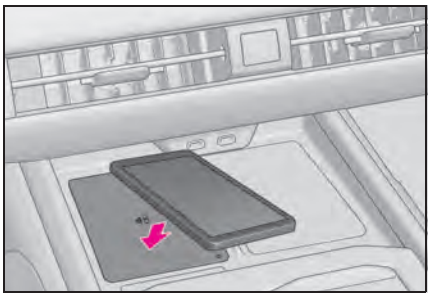
Depending on the portable device, the charging coil may not be located in the center of the device. In this case, place the portable device so that its charging coil is in the center of the charge area.

When charging, the operation indicator light (orange) comes on.

If charging is not occurring, try placing the portable device as close to the center of the charging area as possible.

If charging is not performed, the operation indicator light will slowly illuminate in green and orange alternatively and a sound of charging coil operation may be heard repeatedly.

When charging is complete, the operation indicator light (green) comes on.



n **Recharging function**

- When charging is complete and after a fixed time in the charge suspension state, charging restarts.
- If a portable device is moved significantly within the charging area, the charging coil may disconnect and charging may temporarily be stopped. However, if a charging coil is detected within the charging area, the charging coil inside the wireless charger will move near the other coil and charging will resume. Place the mobile device near the center of the charging area again.

n **Rapid charging function**

- The following portable devices support rapid charging.
  - Portable devices compliant with WPC Ver. 1.3.3 and compatible with rapid charging
  - iPhone's with an iOS version that supports 7.5 W charging (iPhone 8 and later models)
  - Portable devices compatible with Galaxy original rapid charging standard.
- When a portable device that supports rapid charging is charged, charging automatically switches to the rapid charging function.

n **Lighting conditions of operation indicator light**

Operation indicator light	Conditions
Turning off	When power for Multimedia is off or the power switch is off
Green (comes on)	On Standby (unable to charge state)*1
	On Standby (charging possible state)*2
	When charging is complete*3

Operation indicator light	Conditions
Orange (comes on)	Charging
Orange flashes twice and then comes on	Charging frequency switching

*1: The condition for the smart access system with push-button start to detect the key is established.

*2: Charging power will not be output during standby. A metallic object will not be heated, if it is placed on the wireless charger in this state.

*3: Depending on the portable device, there are cases where the operation indicator light will continue being lit up orange even after the charging is complete.

n When the wireless charger does not operate properly

When the wireless charger does not operate properly, handle the probable cause based on the following tables.

Operation indicator light	Suspected causes/Handling method
Orange (flashing repeatedly once every second)	**Vehicle to wireless charger communication failure** → **If the hybrid system is operating, stop and then restart the hybrid system.** If the power switch is in ACC, start the hybrid system. (→P.163)
Green (flashing repeatedly once every second)	**Wireless charger system communication failure** → **If the hybrid system is operating, stop and then restart the hybrid system.** If the power switch is in ACC, start the hybrid system. (→P.163)

Operation indicator light	Suspected causes/Handling method
Green (comes on)	The smart access system with push-button start is detecting the key. → Wait until electronic key detection has completed.
	Foreign substance detection: (1) There was a metal foreign object in the charging area before charging, and the foreign object detection function worked. → Remove any foreign objects that are in the charging area. (2) Charging stopped when wearing a case with a Qi2 or MagSafe metal ring → Remove the case.
	Portable device misaligned / distanced from charging surface: The center of charging coil in the portable device moved outside of the charging area, or lens convex is large, or case is thick so the abnormal heating prevention function operated → Remove the portable device from the wireless charger, after 5 seconds, then place the portable device so that it is near the center of the wireless charger. Also, if a case or cover is installed to the portable device, remove it.
	Battery protection function of portable device: Before full charging, battery protection function of portable device operated → Confirm the setting of portable device.
	Continued detection of an electronic key: When a Multimedia function is used through vehicle customization, the electronic key is continually detected without being confirmed. → In this case, turn the power switch ACC or ON to confirm the key.
	Moving mechanism Anomalies: The coil stopped working due to anabnormality in the moving mechanism If you do not hear the coil operating noise even after replacing it → Contact your Lexus dealer.
	Not Qi device: Green indicator not change, When put the device on tray. → Please check the WPC website to see if your device supports Qi's BPP or EPP

Operation indicator light	Suspected causes/Handling method
Orange (repeatedly flashes 4 times continuously)	**Safety shutdown resulting when the temperature within the wireless charger exceeded the set value** **→ Stop charging, remove the portable device from the wireless charger, wait for the temperature to drop, and then start charging again.**

n The wireless charger can be operated when

The power switch is in ACC or ON, or the multimedia system is on.

n Usable portable devices

- Qi standard wireless charge standard (with out MPP of Qi2) can be used on compatible devices. However, compatibility with portable devices that comply with Qi Ver. 1.0, 1.3.2 and later versions, and Qi2 MPP (Magnet Power Profile) is not guaranteed.
- Starting with mobile phones and smartphones, it is aimed for low power electrically supplied portable devices of no more than 5 W.
- However, charging exceeding 5 W is supported by the following portable devices.

• Charging at 7.5W or less is supported by iPhone's that support 7.5 W charging.
• Charging at 10 W or less is supported by Galaxy device that support 10 W charging of original standard.
• Charging at 15 W or less is supported by portable devices compliant with EPP output as defined by WPC standard Ver1.3.3.

n When covers and accessories are attached to portable devices

Do not charge in situations where a cover or accessories that cannot handle Qi are attached to the portable device. Depending on the type of cover (including for certain genuine manufacturer parts) and accessory, it may not be possible to charge. In addition, Qi2 is not supported. As a result, charging may not be possible if an accessory or cover that complies with Qi2 is installed. When charging is not performed even with the portable device placed on the charge area, remove the cover and accessories.

n Using the smart access system with push-button start

If the smart access system with push-button start detects the key while a device is being charged, charging will be temporarily stopped.

n AM receive synchronize functions

When charging while listening to AM broadcasts, if noise occurs, perform manual switching as follows:

1. Remove the device from the tray while it is charging.
2. Confirm that the indicator has changed to a green light and the noise has stopped.
3. Return the device that was taken off the tray and check if the indicator blinks orange twice and then lights up.

If indicator blinks twice and the noise stops, the frequency switch is complete.

4. If the indicator does not blink twice, lights up orange, and there is noise, repeat the process from step 1 and confirm that it blinks twice.

n Important points of the wireless charger

- If the electronic key cannot be detected within the vehicle interior, charging cannot be done. When the door is opened and closed, charging may be temporarily suspended.
- When charging, the wireless charging device and portable device will get warmer, however this is not a malfunction. When a portable device gets warm while charging, charging may stop due to the protection function on the portable

device side. In this case, when the temperature of the portable device drops significantly, charge again. The fan may start operating to lower the temperature inside the wireless charger, however this is not a malfunction.

n Operation sounds

A buzzing noise may be heard when pressing the power switch to turn to ACC or ON or when detecting a portable device. However, this is not a malfunction.

n Cleaning the wireless charger

→P.383

n Situations in which the function may not operate normally

Devices may not be charged normally in the following situations.

- The portable device is fully charged
- The portable device is being charged with a cable connected
- There is foreign matter between the charge area and portable device
- Charging has caused the portable device to heat up
- The temperature around the charging tray is 95°F (35°C) or higher, such as in extreme heat
- The portable device is placed with its charging side facing up
- The small portable device such as foldable type is placed in an area misaligned from the charge area
- The portable device is larger than the charging tray
- The camera lens protrudes 0.12 in (3 mm) or more from the surface of the portable device
- The vehicle is in an area where strong electrical waves or noise are emitted, such as near a television tower, power plant, gasoline station, broadcasting station, large display, airport, etc.
- When the any of the following objects, are between the charging surface of a portable device and the charging are:
  - Thick cases or covers
  - Thick decorations
  - Accessories, such as finger rings, straps, etc.
  - A case or cover with convex shape around the camera lens
  - Cover to protect the lens surface
- When the portable device is in contact with, or is covered by any of the following metallic objects:
  - A card that has metal on it, such as aluminum foil, etc.
  - A pack of cigarettes that includes aluminum foil
  - A wallet or bag that is made of metal
  - Coins
  - A heating pad
  - CDs, DVDs or other media
  - An accessory made of metal (Magsafe ring seal of metal)
  - A case or cover made of metal (Magsafe ring of metal)
  - Casing which has magnet in it on the charging side of the portable device
- Electric wave type wireless remote controls are being used nearby
- 2 or more portable devices are placed on the charging tray at the same time
- In case of using device built in S-pen (Galaxy "Note" series etc.), device that inserted S-pen is placed on the tray

In situations other than above, if the wireless charger does not operate properly or the operation indicator light blinks continuously, the wireless charger may be malfunctioning.

Contact your Lexus dealer.

n If the smartphone OS has been updated

If the smartphone OS has been updated to a newer version, its charging specifications may have changed significantly. For details, check the information on the manufacturer's website.

n Trademark information

iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.

MagSafe is a trademark or registered trademark of Apple Inc.

Galaxy is a trademark or registered trademark of Samsung Electronics Co.,Ltd.

WARNING

n Caution while driving

When charging a portable device, for safety reasons, the driver should not operate the main part of the portable device while driving.

n Caution while in motion

Do not charge lightweight devices such as wireless headphones while in motion. These devices are very light and may be ejected from the charging tray, which may lead to unforeseen accidents.

n Caution regarding interference with electronic devices

People with implantable cardiac pacemakers, cardiac resynchronization therapy-pacemakers or implantable cardioverters, as well as any other electrical medical device, should consult their physician about the usage of the wireless charger.

n To prevent malfunctions or burns

Observe the following precautions. Failure to do so may result in a equipment failure and damage, catch fire, burns due to overheat or electric shock.

- Do not insert any metallic objects between the charge area and the portable device while charging
- Do not attach an aluminum sticker or other metallic object to the charge area
- Do not attach an aluminum sticker or other metallic object to the side of the portable device (or to its case or cover) that touches the charge area. Please refrain from using the retrofit metal ring and cases with products other than genuine MagSafe/Qi2 products, as there is a risk of heat generation.
- Do not use the charging tray as a small storage space
- Do not subject to a strong force or impact
- Do not disassemble, modify or remove
- Do not charge devices other than specified portable devices
- Keep away from magnetic items
- Do not charge devices if the charge area is covered in dust
- Do not cover with a cloth or similar material

NOTICE

n To prevent malfunctions and data corruptions

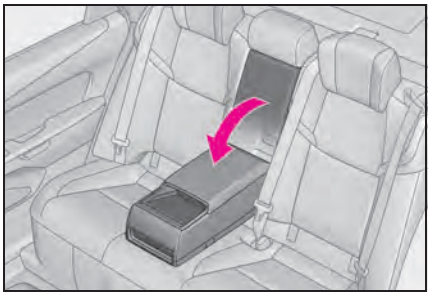
- When charging, bringing a credit, or other magnetic card, or magnetic storage media close to the charge area may clear any stored data due to magnetic influence. Also, do not bring a wristwatch or other precision instrument close to the charge area since doing so may cause it to malfunction.
- Do not charge with a non-contact IC card such as a transportation system IC card inserted between the charging side of a portable device and the charge area. The IC chip may become extremely hot and damage the portable device or IC card. Be especially careful not to charge a portable device inside a case or cover with a non-contact IC card attached.
- Do not leave portable devices inside the vehicle. The inside of the vehicle can become hot in extreme heat, which could cause a malfunction.

n To prevent 12-volt battery discharge

Do not use the wireless charger for a long period of time when the hybrid system is stopped.

Armrest

Fold down the armrest for use.



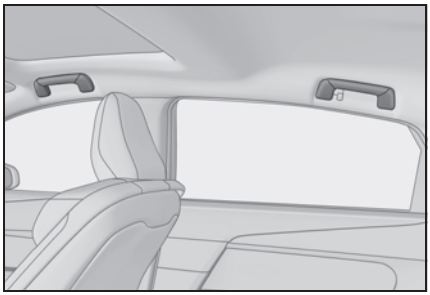
NOTICE

n To prevent damage to the armrest

Do not apply too much load on the armrest.

Assist grips

An assist grip installed on the ceiling can be used to support your body while sitting on the seat.



WARNING

n Assist grips

Do not use the assist grip when getting in or out of the vehicle or rising from your seat.

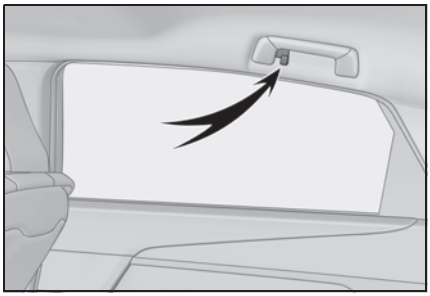
NOTICE

n To prevent damage to the assist grip

Do not hang any heavy object or put a heavy load on the assist grip.

Coat hooks

The coat hooks are provided with the rear assist grips.



WARNING

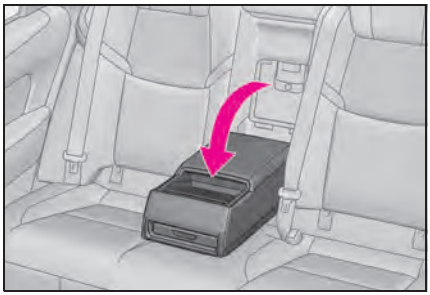
n Items that should not be hanged

Do not hang coat hangers or other hard or sharp objects on the hook. If the SRS curtain shield airbags deploy, these items may become projectiles, causing death or serious injury.

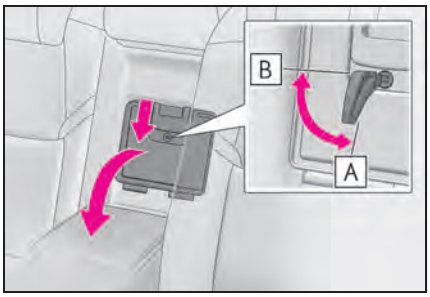
Trunk storage extension

Long objects can be loaded into the vehicle by utilizing the trunk space and rear seat area.

1 Fold down the armrest.



2 Fold down the handle and open the armrest door.



The armrest door can be locked and unlocked using the mechanical key.

A Unlock

B Lock

WARNING

n When not in use

Ensure that the armrest door is closed. In the event of sudden braking, items stored in the trunk may be thrown forward into the cabin, resulting in injury.

Garage door opener

The garage door opener can be programmed using the HomeLink® to operate garage doors, gates, entry doors, door locks, home lighting systems, security systems, and other devices.

n HomeLink® programming procedure

The programming procedures can also be found at the following URL.
Website: www.homelink.com/lexus

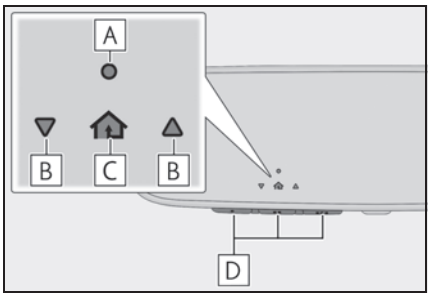
For support, contact customer support at the following.

Help Line: 1-800-355-3515

System components

The HomeLink® wireless control system in your vehicle has 3 buttons which can be programmed to operate 3 different devices. Refer to the programming methods on the following pages to determine the method which is appropriate for the device.

▶ Vehicles with auto anti-glare inside rear view mirror



A HomeLink® indicator light

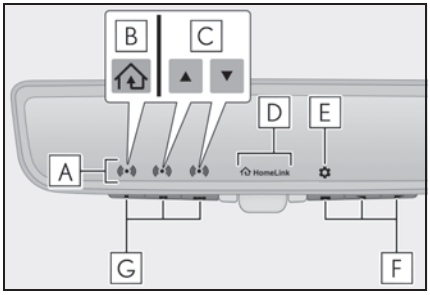
B Garage door operation indicators

C HomeLink® icon

Illuminates while HomeLink® is operating.

D Buttons

▶ Vehicles with Digital Rearview Mirror



A HomeLink® indicator light

Illuminates above each button selected.

B HomeLink® icon

C Garage door operation indicators

D HomeLink® logo

Appears while HomeLink® is operating.

When the HomeLink® button is pressed, the logo disappears even while the HomeLink® is operating.

E Setting icon

Press the menu button to change the setting.

F Menu buttons

G HomeLink® buttons

n Codes stored in the HomeLink® memory

- The registered codes are not erased even if the 12-volt battery cable is disconnected.
- If learning failed when registering a different code to a HomeLink® button that already has a code registered to it, the already registered code will not be erased.

WARNING

n When programming a garage door or other remote control device

The garage door or other device may operate, so ensure people and objects are out of danger to prevent potential harm.

n Conforming to federal safety standards

Do not use the HomeLink® compatible transceiver with any garage door opener or device that lacks safety stop and reverse features as required by federal safety standards.

This includes any garage door that cannot detect an interfering object. A door or device without these features increases the risk of death or serious injury.

n When operating or programming HomeLink®

Never allow a child to operate or play with the HomeLink® buttons.

Programming the HomeLink®

n Before programming HomeLink®

- During programming, it is possible that garage doors, gates, or other devices may operate. For this reason, make sure that people and objects are clear of the garage door or other devices to prevent injury or other potential harm.
- It is recommended that a new battery be placed in the remote control transmitter for more accurate programming.
- Garage door opener motors manufactured after 1995 may be equipped with rolling code protection. If this is the case, you may need a stepladder or other sturdy, safe device to reach the "Learn" or "Smart" button on the garage door opener motor.

n Programming HomeLink®

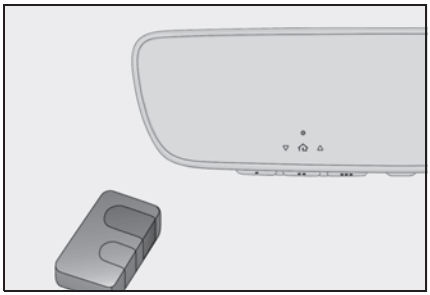
Steps **1** through **3** must be performed within 60 seconds, otherwise the indicator light will stop flashing and programming will not be able to be completed.

1 Press and release the HomeLink® button you want to program and check that the HomeLink® indicator light flashes (orange).

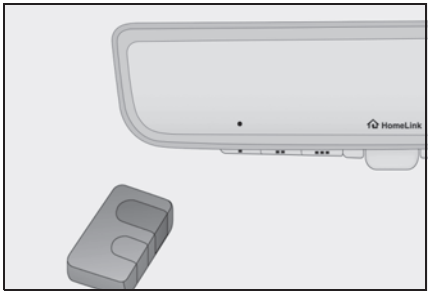
2 Point the remote control transmitter for the device at the rear view mirror, 1 to 3 in. (25 to 75 mm) from the HomeLink® buttons.

Keep the HomeLink® indicator light in view while programming.

▶ Vehicles with auto anti-glare inside rear view mirror

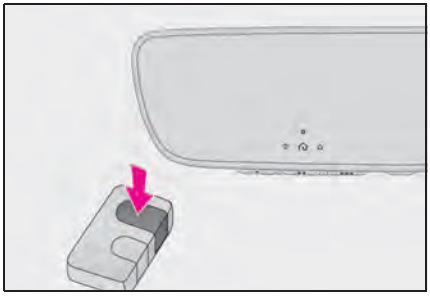


▶ Vehicles with Digital Rearview Mirror

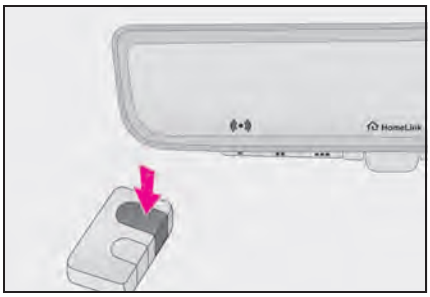


3 Program a device.

▶ Vehicles with auto anti-glare inside rear view mirror



▶ Vehicles with Digital Rearview Mirror



▶ Programming a device other than an entry gate (for U.S.A. owners)

Press and hold the remote control transmitter button until the HomeLink® indicator light changes from slowly flashing orange to rapidly flashing green (rolling code) or continuously lit green (fixed code), then release the button.

▶ Programming an entry gate (for U.S.A. owners)/Programming a device in the Canadian market

Press and release the remote control transmitter button at 2 second intervals, repeatedly, until the HomeLink® indicator light changes from slowly flashing (orange) to rapidly flashing (green) (rolling code) or continuously lit (green) (fixed code).

4 Test the HomeLink® operation by pressing the newly programmed button and observing the indicator light:

- Indicator light illuminates: Programming of a fixed code device has completed. The garage door or other device should operate when a HomeLink® button is pressed and released.
- Indicator light flashes rapidly: The garage door opener motor or other device is equipped with a rolling code. To complete programming, firmly press and hold the HomeLink® button for 2 seconds then release it.
- If the garage door or other device does not operate, proceed to "Programming a rolling code system".

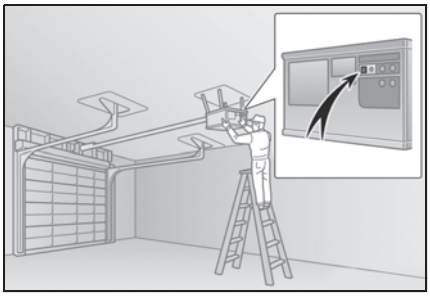
5 Repeat the steps above to program another device for any of the remaining HomeLink® buttons.

n **Programming a rolling code system**

Two or more people may be necessary to complete rolling code programming.

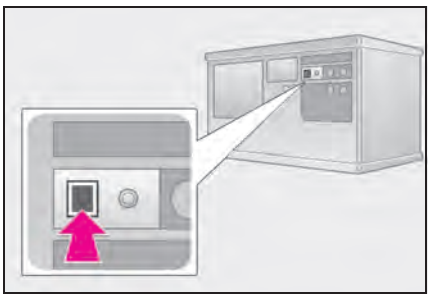
1 Locate the "Learn" or "Smart" button on the garage door opener motor in the garage.

This button can usually be found where the hanging antenna wire is attached to the unit. The name and color of the button may vary by manufacturer. Refer to the owner's manual supplied with the garage door opener motor for details.



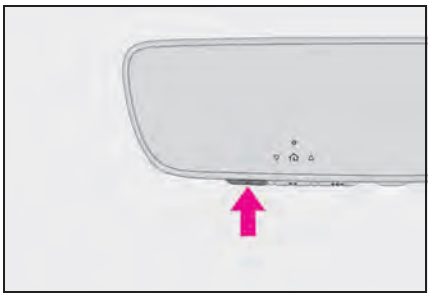
2 Press and release the "Learn" or "Smart" button.

Perform **3** within 30 seconds after performing **2**.



3 Press and hold the desired HomeLink® button (inside the vehicle) for 2 seconds and release it. Repeat this sequence (press/hold/release) up to 3 times to complete programming.
If the garage door opener motor operates when the HomeLink® button is pressed, the garage door opener motor recognizes the HomeLink® signal.

▶ Vehicles with auto anti-glare inside rear view mirror



▶ Vehicles with Digital Rearview Mirror



n Enabling 2-way communication with a garage door (only available for compatible devices)

When enabled, 2-way communication allows you to check the status of the opening and closing of a garage door through indicators in your vehicle.

2-way communication is only available if the garage door opener motor used is a compatible device. (To check device compatibility, refer to www.homelink.com.)

1 Within 5 seconds after programming the garage door opener has been completed, if the garage door opener motor is trained to HomeLink®, both garage door operation indicators will flash rapidly (green) and the light on the garage door opener motor will blink twice, indicating that 2-way communication is enabled.

If the indicators do not flash, perform **2** and **3** within the first 10 presses of the HomeLink® button after programming has been completed.

2 Press a programmed HomeLink® button to operate a garage door.

3 Within 1 minute of pressing the HomeLink® button, after the garage door operation has stopped, press the "Learn" or "Smart" button on the garage door opener motor. Within 5 seconds of the establishment of 2-way communication with the garage door opener, both garage door operation indicators in the vehicle will flash rapidly (green) and the light on the garage door opener motor will blink twice, indicating that 2-way communication is enabled.

n **Reprogramming a single HomeLink® button**

When the following procedure is performed, buttons which already have devices registered to them can be overwritten:

1 Press and hold the desired HomeLink® button.

2 When the HomeLink® indicator starts flashing orange, release the HomeLink® button and perform "Programming HomeLink®" 1 (it takes 20 seconds for the HomeLink® indicator to start flashing).

n **Before programming**

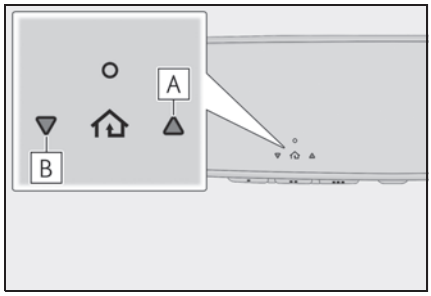
- Install a new battery in the transmitter.
- The battery side of the transmitter must be pointed away from the HomeLink® buttons.

Operating HomeLink®

Press the appropriate HomeLink® button. The HomeLink® indicator light should turn on.

The status of the opening and closing of a garage door is shown by the indicators.

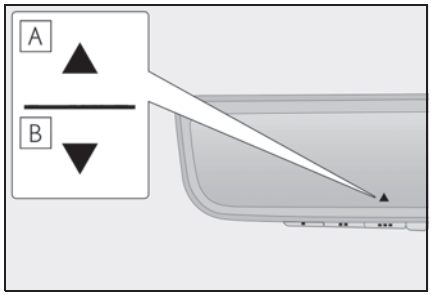
▶ Vehicles with auto anti-glare inside rear view mirror



A Opening

B Closing

▶ Vehicles with Digital Rearview Mirror



A Opening

B Closing

This function is only available if the garage door opener motor used is a compatible device. (To check device compatibility, refer to www.homelink.com.)

Color	Status
Orange (flashing)	Currently opening/closing
Green	Opening/closinghas completed
Red (flashing)	Feedback signals cannot be received

The indicators can operate within approximately 820 ft. (250 m) of the garage door. However, if there are obstructions between the garage door and the vehicle, such as houses and trees, feedback signals from the garage door may not be received.

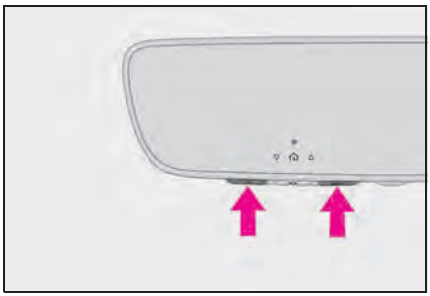
To recall the previous door operation status, press and release either HomeLink® buttons and or and (vehicles with auto anti-glare inside rear view mirror), and or and (vehicles with Digital Rearview Mirror), simultaneously. The last recorded status will be displayed for 3 seconds.

Erasing the entire HomeLink® memory (all three codes)

Press and hold the 2 outside buttons for 10 seconds until the HomeLink® indicator light changes from continuously lit (orange) to rapidly flashing (green).

If you sell your vehicle, be sure to erase the programs stored in the HomeLink® memory.

- Vehicles with auto anti-glare inside rear view mirror



- Vehicles with Digital Rearview Mirror



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Cleaning and protecting the vehicle exterior

Perform cleaning in a manner appropriate to each component and its material.

Cleaning instructions

- Working from top to bottom, liberally apply water to the vehicle body, wheel wells and underside of the vehicle to remove any dirt and dust.
- Wash the vehicle body using a sponge or soft cloth, such as a chamois.
- For hard-to-remove marks, use car wash soap and rinse thoroughly with water.
- Wipe away any water.
- Wax the vehicle when the waterproof coating deteriorates.

If water does not bead on a clean surface, apply wax when the vehicle body is cool.

n Self-restoring coat

The vehicle body has a self-restoring coating that is resistant to small surface scratches caused in a car wash etc.

- The coating lasts for 5 to 8 years from when the vehicle is delivered from the plant.
- The restoration time differs depending on the depth of the scratch and outside temperature.
  The restoration time may become shorter when the coating is warmed by applying warm water.
- Deep scratches caused by keys, coins, etc. cannot be restored.
- Do not use wax that contains abrasives.

n Automatic car washes

- Before washing the vehicle:
  - Fold the mirrors
  - Turn off the power trunk lid

Start washing from the front of the vehicle. Make sure to extend the mirrors before driving.

- Brushes used in automatic car washes may scratch the vehicle surface, parts (wheel, etc.) and harm your vehicle's paint.
- When using an automatic carwashes, etc. the shift position needs to be held in N, refer to P.174.

n High pressure car washes

As water may enter the cabin, do not bring the nozzle tip near the gaps around the doors or perimeter of the windows, or spray these areas continuously.

n Notes for the smart access system with push-button start

If the door handle becomes wet while the electronic key is within the effective range, the door may lock and unlock repeatedly. In that case, follow the following correction procedures to wash the vehicle:

- Place the key in a position 6 ft. (2 m) or more separate from the vehicle while the vehicle is being washed. (Take care to ensure that the key is not stolen.)
- Set the electronic key to battery-saving mode to disable the smart access system with push-button start. (→P.121)

n Wheels and wheel ornaments

- Remove any dirt immediately by using a neutral detergent.
- Wash detergent off with water immediately after use.
- To protect the paint from damage, make sure to observe the following precautions.
  - Do not use acidic, alkaline or abrasive detergent
  - Do not use hard brushes
  - Do not use detergent on the wheels when they are hot, such as after driving or parking in hot weather

n Brake pads and calipers

Rust may form if the vehicle is parked with wet brake pads or disc rotors, causing them to stick. Before parking the vehicle after it is washed, drive slowly and apply the brakes several times to dry the parts.

n Bumpers

Do not scrub with abrasive cleaners.

n Front side windows water-repellent coating

The following precautions can extend the effectiveness of the water-repellent coating.

- Remove any dirt, etc. from the front side windows regularly.
- Do not allow dirt and dust to accumulate on the windows for a long period. Clean the windows with a soft, damp cloth as soon as possible.
- Do not use wax or glass cleaners that contain abrasives when cleaning the windows.
- Do not use any metallic objects to remove condensation build up.

n Handling precautions of the Front Projection Illumination (if equipped)

Projected illumination image may appear differently depending on the vehicle conditions and the conditions of the ground onto which light is projected. As illumination may not be projected properly with the light lens dirty, clean the light lens if dirty.

WARNING

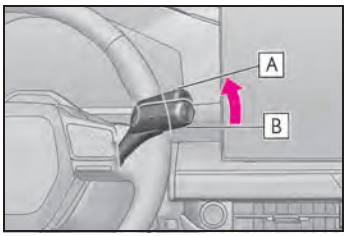
n When washing the vehicle

Do not apply water to the inside of the engine compartment. Doing so may cause the electrical components etc. to catch fire.

n When cleaning the windshield

Set the wiper switch to off.

If the wiper switch is in "AUTO", the wipers may operate unexpectedly in the following situations, and may result in hands being caught or other serious injuries and cause damage to the wiper blades.



A Off

B AUTO

- When the upper part of the windshield where the raindrop sensor is located is touched by hand
- When a wet rag or similar is held close to the raindrop sensor
- If something bumps against the windshield
- If you directly touch the raindrop sensor body or if something bumps into the raindrop sensor

n Precautions regarding the exhaust pipes

As exhaust gases cause the exhaust pipes to become quite hot, do not touch the exhaust pipes while the hybrid system is operating or immediately after the hybrid system is turned off.

When washing the vehicle, be careful not to touch the exhaust pipes until they have cooled sufficiently, as touching hot exhaust pipes can cause burns.

n Precaution regarding the front and rear bumpers

If the paint of the front or rear bumper is chipped or scratched, the following systems may not function correctly. If this occurs, consult your Lexus dealer.

WARNING

- Lexus Safety System + 4.0
- BSM (Blind Spot Monitor)
- Safe Exit Assist
- Parking Assist-Sensor (if equipped)
- RCTA (Rear Cross Traffic Alert)
- PKSB (Parking Support Brake) (if equipped)

NOTICE

To prevent paint deterioration and corrosion on the body and components (aluminum wheels etc.)

- Wash the vehicle immediately in the following cases:
  - After driving near the sea coast
  - After driving on salted roads
  - If coal tar, pollen or tree sap is present on the paint surface
  - If dead insects, insect droppings or bird droppings are present on the paint surface
  - After driving in an area contaminated with soot, oily smoke, mine dust, iron powder or chemical substances
  - If the vehicle becomes heavily soiled with dust or mud
  - If liquids such as benzene and gasoline are spilled on the paint surface
- If the paint is chipped or scratched, have it repaired immediately.
- To prevent the wheels from corroding, remove any dirt and store in a place with low humidity when storing the wheels.

Cleaning the exterior lights

- Wash carefully. Do not use organic substances or scrub with a hard brush. This may damage the surfaces of the lights.
- Do not apply wax to the surfaces of the lights.
  Wax may cause damage to the lenses.

When using an automatic car wash

Set the wiper switch to the off position.

If the wiper switch is in "AUTO", the wipers may operate and the wiper blades may be damaged.

When using a high pressure car wash

- When washing the vehicle, do not spray the camera or its surrounding area directly with a high pressure washer. Shock applied from high pressure water may cause the device to not operate normally.
- Do not spray water directly on the radar which is equipped behind the radar sensor cover. Otherwise it may cause the device to be damaged.
- Do not bring the nozzle tip close to boots (rubber or resin manufactured cover), connectors or the following parts. The parts may be damaged if they come into contact with high-pressure water.
  - Traction related parts
  - Steering parts
  - Suspension parts
  - Brake parts
- Keep the cleaning nozzle at least 11.9 in. (30 cm) away from the vehicle body. Otherwise resin section, such as moldings and bumpers, may be deformed and damaged. Also, do not continuously hold the nozzle in the same place.

NOTICE

- Do not spray the lower part of the windshield continuously. If water enters the air conditioning system intake located near the lower part of the windshield, the air conditioning system may not operate correctly.
- Do not wash the underside of the vehicle using a high pressure car washer.

Cleaning and protecting the vehicle interior

Perform cleaning in a manner appropriate to each component and its material.

Protecting the vehicle interior

- Remove dirt and dust using a vacuum cleaner. Wipe dirty surfaces with a cloth dampened with lukewarm water.
- If dirt cannot be removed, wipe it off with a soft cloth dampened with neutral detergent diluted to approximately 1%.
  Wring out any excess water from the cloth and thoroughly wipe off remaining traces of detergent and water.

n **Shampooing the carpets**

There are several commercial foaming-type cleaners available. Use a sponge or brush to apply the foam. Rub in overlapping circles. Do not use water. Wipe dirty surfaces and let them dry. Excellent results are obtained by keeping the carpet as dry as possible.

n **Scuff plate handling precautions**

Before installing, remove protective film attached to the metal surface of the scuff plate. Otherwise, the film may cause rust or stick to the metal portion, possibly making it not possible to remove the film.

n **Handling the seat belts**

Clean with mild soap and lukewarm water using a cloth or sponge. Also check the belts periodically for excessive wear, fraying or cuts.

n When cleaning the carpeted portions of the glove box, console box, etc.

If a strong adhesive tape is used, there is a possibility that the surface of the carpet could be damaged.

WARNING

n Water in the vehicle

- Do not splash or spill liquid in the vehicle, such as on the floor, on the rear seats, in the hybrid battery (traction battery) air vent, and in the trunk. (→P.71)
  Doing so may cause the hybrid battery, electrical components, etc. to malfunction or catch fire.
- Do not get any of the SRS components or wiring in the vehicle interior wet. (→P.32)
  An electrical malfunction may cause the airbags to deploy or not function properly, resulting in death or serious injury.
- Do not let the wireless charger (→P.363) get wet. Failure to do so may cause the charger to become hot and cause burns or could cause electric shock resulting in death or serious injury.

n Cleaning the interior (especially instrument panel)

Do not use polish wax or polish cleaner. The instrument panel may reflect off the windshield, obstructing the driver's view and leading to an accident, resulting in death or serious injury.

NOTICE

n Cleaning detergents

- Do not use the following types of detergent, as they may discolor the vehicle interior or cause streaks or damage to painted surfaces:
  - Non-seat portions: Organic substances such as benzene or gasoline, alkaline or acidic solutions, dye, and bleach
  - Seats: Alkaline or acidic solutions, such as thinner, benzene, and alcohol
- Do not use polish wax or polish cleaner. The instrument panel's or other interior part's painted surface may be damaged.

n Preventing damage to leather surfaces

Observe the following precautions to avoid damage to and deterioration of leather surfaces:

- Remove any dust or dirt from leather surfaces immediately.
- Do not expose the vehicle to direct sunlight for extended periods of time. Park the vehicle in the shade, especially during summer.
- Do not place items made of vinyl, plastic, or containing wax on the upholstery, as they may stick to the leather surface if the vehicle interior heats up significantly.

n Water on the floor

Do not wash the vehicle floor with water.

Vehicle systems such as the audio system may be damaged if water comes into contact with electrical components such as the audio system above or under the floor of the vehicle. Water may also cause the body to rust.

NOTICE

n When cleaning the inside of the windshield

Do not allow glass cleaner to contact the lens. Also, do not touch the lens. (→P.199)

n Cleaning the windshield

Do not use any compound or abrasive product (e.g., glass cleaner, detergent, wax) to clean the windows. It may damage the coating.

n Cleaning the inside of the rear window

- Do not use glass cleaner to clean the rear window, as this may cause damage to the rear window defogger heater wires or antenna. Use a cloth dampened with lukewarm water to gently wipe the window clean. Wipe the window in strokes running parallel to the heater wires or antenna.
- Be careful not to scratch or damage the heater wires or antenna.

Cleaning the areas with satin-finish metal accents

- Remove dirt using a water-dampened soft cloth or synthetic chamois.
- Wipe the surface with a dry soft cloth to remove any remaining moisture.

n Cleaning the areas with satin-finish metal accents

The metal areas use a layer of real metal for the surface. It is necessary to clean them regularly. If dirty areas are left uncleaned for long periods of time, they may be difficult to clean.

Cleaning the leather areas

- Remove dirt and dust using a vacuum cleaner.
- Wipe off any excess dirt and dust with a soft cloth dampened with diluted detergent.

Use a diluted water solution of approximately 5% neutral wool detergent.

- Wring out any excess water from the cloth and thoroughly wipe off all remaining traces of detergent.
- Wipe the surface with a dry soft cloth to remove any remaining moisture. Allow the leather to dry in a shaded and ventilated area.

n Caring for leather areas

Lexus recommends cleaning the interior of the vehicle at least twice a year to maintain the quality of the vehicle's interior.

Cleaning the synthetic leather areas

- Remove dirt and dust using a vacuum cleaner.
- Wipe it off with a soft cloth dampened with neutral detergent diluted to approximately 1%.
- Wring out any excess water from the cloth and thoroughly wipe off remaining traces of detergent and water.

Cleaning fabric portions

- To remove dust from the fabric, use a vacuum cleaner or adhesive tape.

- Use a cloth dampened with water to gently wipe the fabric clean.

Do not use detergents to clean the fabric.

- Vehicles with radiant heaters: Do not hard scrub on the fabric portion of the radiant heaters (→P.351).

Maintenance requirements

To ensure safe and economical driving, day-to-day care and regular maintenance are essential. It is the owner's responsibility to perform regular checks. Lexus recommends the following maintenance:

n Repair and replacement

It is recommended that genuine Lexus parts be used for repairs to ensure performance of each system. If non-Lexus parts are used in replacement or if a repair shop other than a Lexus dealer performs repairs, confirm the warranty coverage.

n Allow inspection and repairs to be performed by a Lexus dealer

- Lexus technicians are well-trained specialists and are kept up to date with the latest service information. They are well informed about the operations of all systems on your vehicle.
- Keep a copy of the repair order. It proves that the maintenance that has been performed is under warranty coverage. If any problem should arise while your vehicle is under warranty, your Lexus dealer will promptly take care of it.

WARNING

n If your vehicle is not properly maintained

Improper maintenance could result in serious damage to the vehicle and possible death or serious injury.

n Handling of the 12-volt battery

- Engine exhaust, some of its constituents, and a wide variety of automobile components contain or emit chemicals known to the State of California to cause cancer and birth defects and other reproductive harm. Work in a well ventilated area.
- Oils, fuels and fluids contained in vehicles as well as waste produced by component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Avoid exposure and wash any affected area immediately.
- 12-volt battery posts, terminals and related accessories contain lead and lead compounds which are known to cause brain damage. Wash your hands after handling. (→P.401)

General maintenance

General maintenance should be performed on a daily basis. This can be done by yourself or by a Lexus dealer.

Scheduled maintenance

Scheduled maintenance should be performed at specified intervals according to the maintenance schedule.

For details about maintenance items and schedules, refer to the "Warranty and Service Guide", "Owner's Manual Supplement" or "Scheduled Maintenance".

n Resetting the message indicating maintenance is required

After the required maintenance is performed according to the maintenance schedule, please reset the message.
To reset the message, follow the procedure described below:

1. Press and hold OK to displaythe cursor on the content display area (center) of the multi-information display.
2. Press ∧ or ∨ of the metercontrol switches to select ⚙ and then press OK .

3 Press ∧ or ∨ of the metercontrol switches and select "Vehicle Settings". Then press and hold OK.

4 Press ∧ or ∨ of the metercontrol switches and select "Scheduled Maintenance". Then press and hold OK.

5 Select "Yes" and press OK.

A message will be displayed when the reset procedure has been completed.

Do-it-yourself maintenance

You can perform some maintenance procedures by yourself.
Please be aware that do-it-yourself maintenance may affect warranty coverage.

The use of Lexus repair manuals is recommended.

For details about warranty coverage, refer to the separate "Owner's Guide", "Warranty and Service Guide", "Owner's Manual Supplement" or "Warranty Booklet".

General maintenance

Listed below are the general maintenance items that should be performed at the intervals specified in the "Warranty and Service Guide" or "Owner's Manual Supplement". It is recommended that any problem you notice should be brought to the attention of your Lexus dealer or qualified service shop for advice.

⚠ WARNING

n If the hybrid system is operating

Turn the hybrid system off and ensure that there is adequate ventilation before performing maintenance checks.

Engine compartment

Items	Check points
Brake fluid	Is the brake fluid at the correct level? (→P.400)
Engine/power control unit coolant	Is the engine/power control unit coolant at the correct level? (→P.398)
Engine oil	Is the engine oil at the correct level? (→P.396)
Exhaust system	There should not be any fumes or strange sounds.

Items	Check points
Radiator/condenser	The radiator and condenser should be free from foreign objects. (→P.400)
Washer fluid	Is there sufficient washer fluid? (→P.400)

Trunk

Items	Check points
12-volt battery	Check the battery connections. (→P.401)

Vehicle interior

Items	Check points
Accelerator pedal	• The accelerator pedal should move smoothly (without uneven pedal effort or catching).
Hybrid transmission "Park" mechanism	• When parked on a slope and the shift position is in P, is the vehicle securely stopped?
Brake pedal	• Does the brake pedal move smoothly? • Does the brake pedal have appropriate clearance from the floor? • Does the brake pedal have the correct amount of free play?
Brakes	• The vehicle should not pull to one side when the brakes are applied. • The brakes should work effectively. • The brake pedal should not feel spongy. • The brake pedal should not get too close to the floor when the brakes are applied.
Head restraints	• Do the head restraints move smoothly and lock securely?
Indicators/buzzers	• Do the indicators and buzzers function properly?
Lights	• Do all the lights come on? • Are the headlights aimed correctly?
Parking brake	• Does the parking brake operate normally? • When parked on a slope and the parking brake is on, is the vehicle securely stopped?
Seat belts	• Do the seat belts operate smoothly? • The seat belts should not be damaged.

Items	Check points
Seats	• Do the seat controls operate properly?
Steering wheel	• Does the steering wheel rotate smoothly? • Does the steering wheel have the correct amount of free play? • There should not be any strange sounds coming from the steering wheel.

Vehicle exterior

Items	Check points
Doors/trunk	• Do the doors/trunk operate smoothly?
Engine hood	• Does the engine hood lock system work properly?
Fluid leaks	• There should not be any signs of fluid leakage after the vehicle has been parked.
Tires	• Is the tire inflation pressure correct? • The tires should not be damaged or excessively worn. • Have the tires been rotated according to the maintenance schedule? • The wheel nuts should not be loose.
Windshield wipers	• The wiper blades should not show any signs of cracking, splitting, wear, contamination or deformation. • The wiper blades should clear the windshield without streaking or skipping.

Emission inspection and maintenance (I/M) programs

Some states have vehicle emission inspection programs which include OBD (On Board Diagnostics) checks. The OBD system monitors the operation of the emission control system.

If the malfunction indicator lamp comes on

The OBD system determines that a problem exists somewhere in the emission control system. Your vehicle may not pass the I/M test and may need to be repaired. Contact your Lexus dealer to service the vehicle.

Your vehicle may not pass the I/M test in the following situations:

- When the 12-volt battery is disconnected or discharged
  Readiness codes that are set during ordinary driving are erased.
  Also, depending on your driving habits, the readiness codes may not be completely set.
- When the fuel tank cap is loose
  The malfunction indicator lamp comes on indicating a temporary malfunction and your vehicle may not pass the I/M test.

When the malfunction indicator lamp still remains on after several driving trips

The error code in the OBD system will not be cleared unless the vehicle is driven 40 or more times.

If your vehicle does not pass the I/M test

Contact your Lexus dealer to prepare the vehicle for re-testing.

Do-it-yourself service precautions

If you perform maintenance by yourself, be sure to follow the correct procedure as given in these sections.

Maintenance

Items	Parts and tools
12-volt battery condition (→P.401)	• Grease • Conventional wrench (for terminal clamp bolts)
Brake fluid level (→P.400)	• FMVSS No.116 DOT 3 or SAE J1703 brake fluid FMVSS No.116 DOT 4 or SAE J1704 brake fluid • Rag or paper towel • Funnel (used only for adding brake fluid)
Engine/power control unit coolant level (→P.398)	• "Toyota Super Long Life Coolant" or a similar high quality ethylene glycol-based non-silicate, non-amine, non-nitrite and non-borate coolant with long-life hybrid organic acid technology For the U.S.A.: "Toyota Super Long Life Coolant" is pre-mixed with 50% coolant and 50% deionized water. For Canada: "Toyota Super Long Life Coolant" is pre-mixed with 55% coolant and 45% deionized water. • Funnel (used only for adding coolant)
Engine oil level (→P.396)	• "Toyota Genuine Motor Oil" or equivalent • Rag or paper towel • Funnel (used only for adding engine oil)
Hybrid battery (traction battery) air intake vent (→P.423)	• Vacuum cleaner, etc. • Phillips screwdriver
Fuses (→P.429)	• Fuse with same amperage rating as original
Headlight aim	• Phillips-head screwdriver
Light bulbs (→P.432)	• Bulb with same number and wattage rating as original • Flathead screwdriver

Items	Parts and tools
Radiator and condenser (→P.400)	—
Tire inflation pressure (→P.419)	• Tire pressure gauge • Compressed air source
Washer fluid (→P.400)	• Water or washer fluid containing antifreeze (for winter use) • Funnel (used only for adding water or washer fluid)

WARNING

The engine compartment contains many mechanisms and fluids that may move suddenly, become hot, or become electrically energized. To avoid death or serious injury, observe the following precautions.

n When working on the engine compartment

- Make sure that the "ACCESSORY" or "POWER ON" on the multi-information display and the "READY" indicator are both off.
- Keep hands, clothing and tools away from the moving fan.
- Be careful not to touch the engine, power control unit, radiator, exhaust manifold, etc. right after driving as they may be hot. Oil and other fluids may also be hot.
- Do not leave anything that may burn easily, such as paper and rags, in the engine compartment.

n When working near the electric cooling fan or radiator grille

Be sure the power switch is off.

With the power switch in ON, the electric cooling fan may automatically start to run if the air conditioning is on and/or the coolant temperature is high. (→P.400)

n Safety glasses

Wear safety glasses to prevent flying or falling material, fluid spray, etc. from getting in your eyes.

NOTICE

n If you remove the air cleaner filter

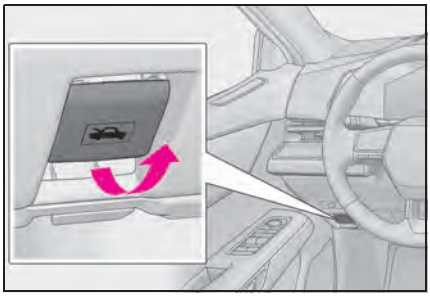
Driving with the air cleaner filter removed may cause excessive engine wear due to dirt in the air.

Hood

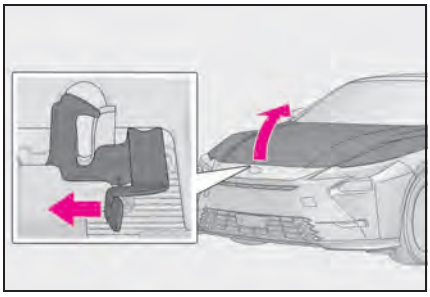
Opening the hood

1 Pull the hood lock release lever.

The hood will pop up slightly.



2 Pull up the auxiliary catch lever and lift the hood.



n Closing the hood

When closing the hood, release it from a slightly high position (approximately 7.9 in. [20 cm]) to close it.

If the hood is pushed by hand to close it, it may not lock on both sides.

WARNING

n Pre-driving check

Check that the hood is fully closed and locked.
If the hood is not locked properly, it may open while the vehicle is in motion and cause an accident, which may result in death or serious injury.

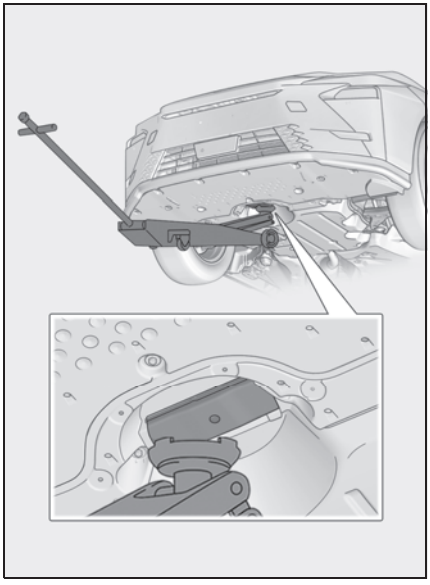
Positioning a floor jack

When using a floor jack, follow the instructions in the manual provided with the jack and perform the operation safely.

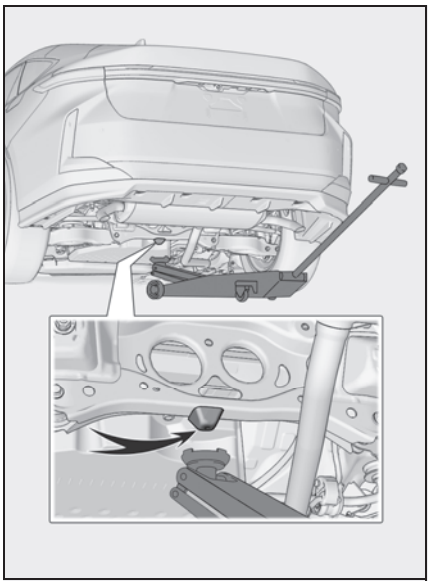
When raising your vehicle with a floor jack, position the jack correctly. Improper placement may damage your vehicle or cause injury.

Location of the jack point

n **Front**

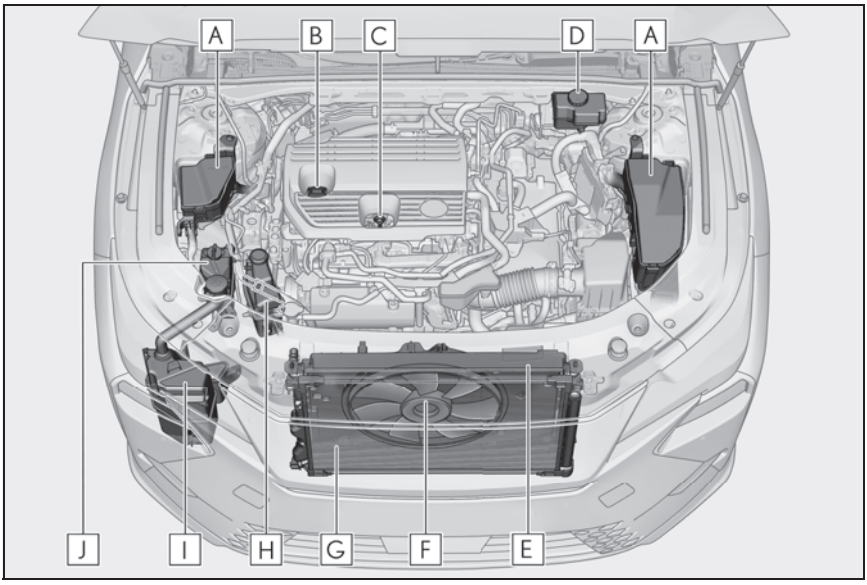


n **Rear**



Engine compartment

Components



A Fuse boxes (→P.429)

B Engine oil filler cap (→P.398)

C Engine oil level dipstick (→P.396)

D Brake fluid reservoir (→P.400)

E Radiator (→P.400)

F Electric cooling fan

G Condenser (→P.400)

H Power control unit coolant reservoir (→P.399)

I Washer fluid tank (→P.400)

J Engine coolant reservoir (→P.399)

n **12-volt battery**
→P.401

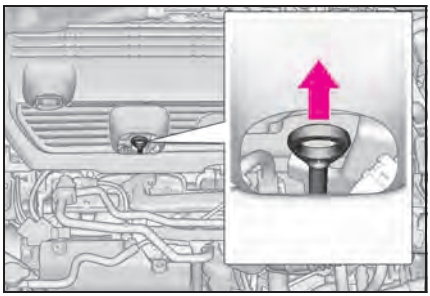
Checking the engine oil

With the engine at operating temperature and turned off, check the oil level on the dipstick.

1 Park the vehicle on level ground.

After warming up the engine and turning off the hybrid system, wait about 5 minutes for the oil to drain back into the bottom of the engine.

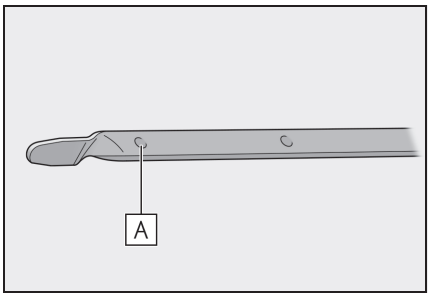
2 Holding a rag under the end, pull the dipstick out.



3 Wipe the dipstick clean.

4 Reinsert the dipstick fully.

5 Holding a rag under the end, pull the dipstick out and check whether the oil level is above low level mark.



A Low level mark

The shape of the dipstick may differ depending on the type of vehicle or engine.

6 Wipe the dipstick and reinsert it fully.

NOTICE

n To prevent serious engine damage

Check the oil level on a regular basis.

n Engine oil consumption

A certain amount of engine oil will be consumed while driving. In the following situations, oil consumption may increase, and engine oil may need to be refilled in between oil maintenance intervals.

- When the engine is new, for example directly after purchasing the vehicle or after replacing the engine
- If low quality oil or oil of an inappropriate viscosity is used
- When driving at high engine speeds or with a heavy load, or when driving while accelerating or decelerating frequently
- When leaving the engine idling for a long time, or when driving frequently through heavy traffic

n Engine oil level rise

If the vehicle is repeatedly driven without the engine warmed up, moisture caused by dew condensation inside the engine or fuel which did not burn mixes into the engine oil, resulting in a rise in engine oil level. However, this is not a malfunction.

For example, the engine become difficult to be warmed up in the following situations.

- When driving a short distance
- When driving at a low speed
- When the outside temperature is low

When checking the engine oil, make sure that the engine is warmed up. If the engine oil level exceeds the refill upper limit mark, contact your Lexus dealer.

Adding engine oil

n Checking the oil type and preparing the items needed

Make sure to check the oil type and prepare the items needed before adding oil.

- Engine oil selection

→P.494

- Oil quantity (Low level mark → Refill upper limit mark)

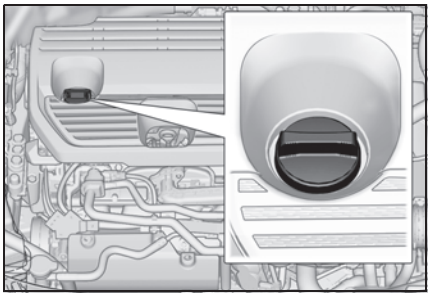
1.6 qt. (1.5 L, 1.3 Imp. qt.)

- Item

Clean funnel

n Adding engine oil

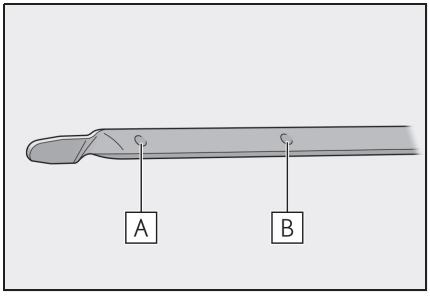
If the oil level is below or near the low level mark, add engine oil of the same type as that already in the engine.



1 Remove the oil filler cap by turning it counterclockwise.

2 Add engine oil slowly, checking the dipstick.

Make sure that the oil level does not exceed the refill upper limit mark and is between the low level mark and refill upper limit mark.



A Low level mark

B Refill upper limit mark

The shape of the dipstick may differ depending on the type of vehicle or engine.

3 Install the oil filler cap by turning it clockwise.

WARNING

n Used engine oil

- Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation and skin cancer, so care should be taken to avoid prolonged and repeated contact. To remove used engine oil from your skin, wash thoroughly with soap and water.
- Dispose of used oil and filters only in a safe and acceptable manner. Do not dispose of used oil and filters in household trash, in sewers or onto the ground.
  Call your Lexus dealer, service station or auto parts store for information concerning recycling or disposal.
- Do not leave used engine oil within the reach of children.

NOTICE

n When replacing the engine oil

- Be careful not to spill engine oil on the vehicle components.
- Avoid overfilling, or the engine could be damaged.
- Check the oil level on the dipstick every time you refill the vehicle.
- Be sure the engine oil filler cap is properly tightened.

n If oil is spilled on the engine cover

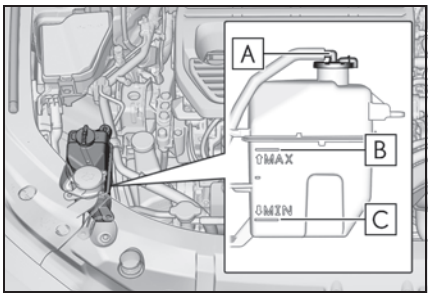
To prevent the engine cover from being damaged, remove any engine oil from the engine cover as soon as possible using a neutral detergent. Do not use an organic solvent such as brake cleaner.

Checking the coolant

The coolant level is satisfactory if it is between the “MAX”/“FULL” and “MIN”/“LOW” lines on the reservoir

when the hybrid system is cold.

n Engine coolant reservoir



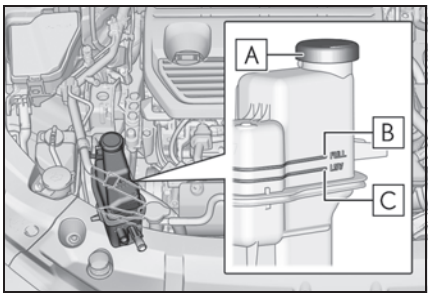
A Reservoir cap

B "MAX" line

C "MIN" line

If the level is on or below the "MIN" line, add coolant up to the "MAX" line. (→P.485)

n Power control unit coolant reservoir



A Reservoir cap

B "FULL" line

C "LOW" line

If the level is on or below the "LOW" line, add coolant up to the "FULL" line. (→P.485)

n Coolant selection

Only use "Toyota Super Long Life Coolant" or a similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology.

U.S.A.:

"Toyota Super Long Life Coolant" is a mixture of 50% coolant and 50% deionized water. (Minimum temperature: -31°F [-35°C])

Canada:

"Toyota Super Long Life Coolant" is a mixture of 55% coolant and 45% deionized water. (Minimum temperature: -44°F [-42°C])

For more details about coolant, contact your Lexus dealer.

n If the coolant level drops within a short time of replenishing

Visually check the radiator, hoses, engine/power control unit coolant reservoir caps, drain cock and water pump.

If you cannot find a leak, have your Lexus dealer test the cap and check for leaks in the cooling system.

WARNING

n When the hybrid system is hot

Do not remove the engine/power control unit coolant reservoir caps or the radiator cap. (→P.488)

The cooling system may be under pressure and may spray hot coolant if the cap is removed, causing serious injuries, such as burns.

NOTICE

n When adding coolant

Coolant is neither plain water nor straight antifreeze. The correct mixture of water and antifreeze must be used to provide proper lubrication, corrosion protection and cooling. Be sure to read the antifreeze or coolant label.

n If you spill coolant

Be sure to wash it off with water to prevent it from damaging parts or paint.

Checking the radiator and condenser

Check the radiator and condenser and clear away any foreign objects.

If either of the above parts is extremely dirty or you are not sure of their condition, have your vehicle inspected by your Lexus dealer.

WARNING

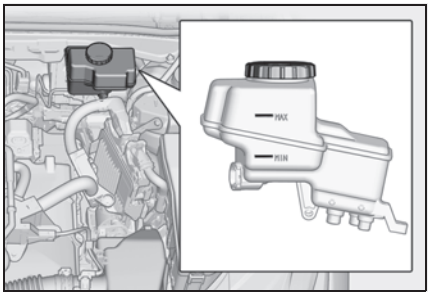
n When the hybrid system is hot

Do not touch the radiator and condenser as they may be hot and cause serious injuries, such as burns.

Checking and adding the brake fluid

n Checking fluid level

The brake fluid level should be between the "MAX" and "MIN" lines on the tank.



n Adding fluid

Make sure to check the fluid type and prepare the necessary item.

● Fluid type

FMVSS No.116 DOT 3 or SAE J1703 brake fluid

FMVSS No.116 DOT 4 or SAE J1704 brake fluid

● Item

Clean funnel

n Brake fluid can absorb moisture from the air

Excess moisture in the brake fluid can cause a dangerous loss of braking efficiency. Use only newly opened brake fluid.

WARNING

n When filling the reservoir

Take care as brake fluid can harm your hands and eyes and damage painted surfaces.
If fluid gets on your hands or in your eyes, flush the affected area with clean water immediately.

If you still experience discomfort, see a doctor.

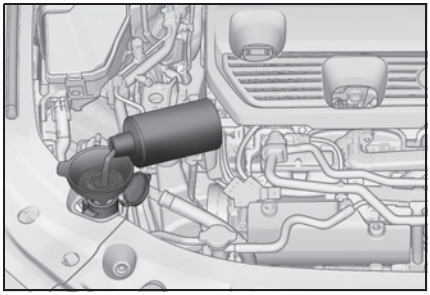
NOTICE

n If the fluid level is low or high

It is normal for the brake fluid level to go down slightly as the brake pads wear out or when the fluid level in the accumulator is high.
If the reservoir needs frequent refilling, there may be a serious problem.

Adding the washer fluid

If any washer does not work or the warning message appears on the multi-information display, the washer tank may be empty. Add washer fluid.



WARNING

n When adding washer fluid

Do not add washer fluid when the hybrid system is hot or operating as washer fluid contains alcohol and may catch fire if spilled on the engine, etc.

NOTICE

n Do not use any fluid other than washer fluid

Do not use soapy water or engine anti-freeze instead of washer fluid.
Doing so may cause streaking on the vehicle's painted surfaces, as well as damaging the pump leading to problems of the washer fluid not spraying.

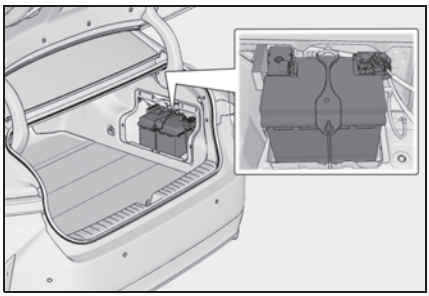
n Diluting washer fluid

Dilute washer fluid with water as necessary.
Refer to the freezing temperatures listed on the label of the washer fluid bottle.

12-volt battery

Location

The 12-volt battery is located on the right-hand side of the trunk.



n Before recharging

When recharging, the 12-volt battery produces hydrogen gas which is flammable and explosive. Therefore, observe the following precautions before recharging:

- If recharging with the 12-volt battery installed on the vehicle, be sure to disconnect the ground cable.
- Make sure the power switch on the charger is off when connecting and disconnecting the charger cables to the 12-volt battery.

n After recharging/reconnecting the 12-volt battery

- Unlocking the doors using the smart access system with push-button start may not be possible immediately after reconnecting the 12-volt battery. If this happens, use the wireless remote control or the mechanical key to lock/unlock the doors.
- Start the hybrid system with the power switch in ACC*. The hybrid system may not start with the power switch turned off. However, the hybrid system will operate normally from the second attempt.
- The power switch mode is recorded by the vehicle. If the 12-volt battery is reconnected, the vehicle will return the power switch mode to the status it was in before

the 12-volt battery was disconnected. Make sure to turn off the power switch before disconnect the 12-volt battery. Take extra care when connecting the 12-volt battery if the power switch mode prior to discharge is unknown.

If the hybrid system will not start even after multiple attempts at all methods above, contact your Lexus dealer.

*: ACC mode can be enabled/disabled on the customize menu. (→P.517)

WARNING

n Chemicals in the 12-volt battery

The 12-volt battery contains poisonous and corrosive sulfuric acid and may produce hydrogen gas which is flammable and explosive. To reduce the risk of death or serious injury, take the following precautions while working on or near the 12-volt battery:

- Do not cause sparks by touching the 12-volt battery terminals with tools.
- Do not smoke or light a match near the 12-volt battery.
- Avoid contact with eyes, skin and clothes.
- Never inhale or swallow electrolyte.
- Wear protective safety glasses when working near the 12-volt battery.
- Keep children away from the 12-volt battery.

n Where to safely charge the 12-volt battery

Always charge the 12-volt battery in an open area. Do not charge the 12-volt battery in a garage or closed room where there is insufficient ventilation.

n Emergency measures regarding electrolyte

- If electrolyte gets in your eyes
  Flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If possible, continue to apply water with a sponge or cloth while traveling to the nearest medical facility.
- If electrolyte gets on your skin
  Wash the affected area thoroughly. If you feel pain or burning, get medical attention immediately.
- If electrolyte gets on your clothes
  It can soak through clothing on to your skin. Immediately take off the clothing and follow the procedure above if necessary.
- If you accidentally swallow electrolyte
  Drink a large quantity of water or milk. Get emergency medical attention immediately.

n When replacing the 12-volt battery

Use a 12-volt battery designed for this vehicle. Failure to do so may cause gas (hydrogen) to enter the passenger compartment, causing a fire or explosion.

For replacement of the 12-volt battery, contact your Lexus dealer.

n When handling the 12-volt battery

→P.484

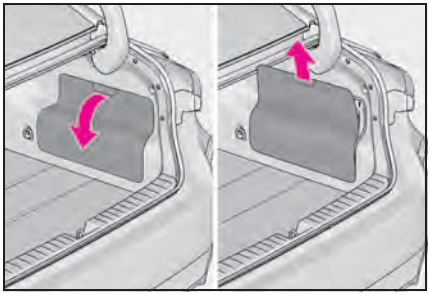
NOTICE

n When recharging the 12-volt battery

Never recharge the 12-volt battery while the hybrid system is operating. Also, be sure all accessories are turned off.

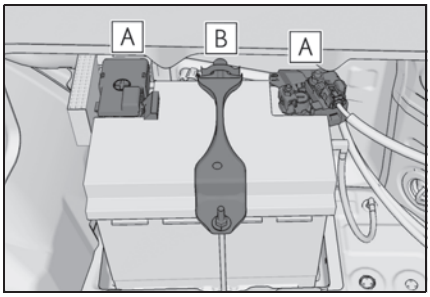
Removing the 12-volt battery cover

Remove the 12-volt battery cover.



Exterior

Make sure that the 12-volt battery terminals are not corroded and that there are no loose connections, cracks, or loose clamps.

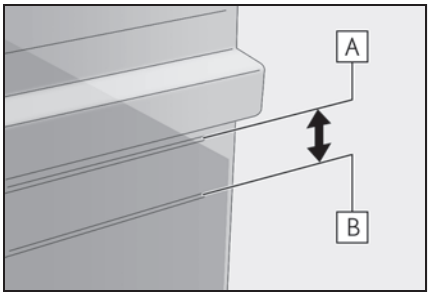


A Terminals

B Hold-down clamp

Checking the 12-volt battery

Check that the level is between the upper and lower lines.



A Upper line

B Lower line

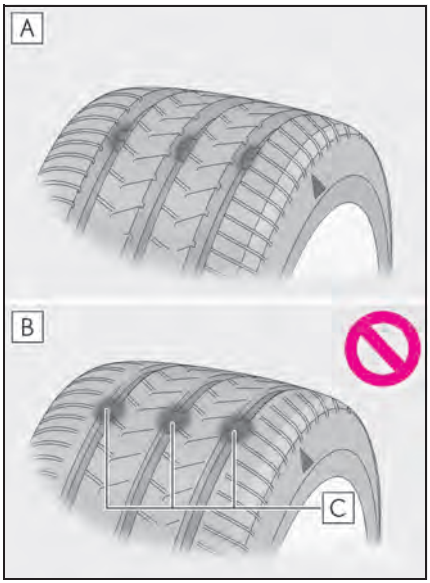
If the fluid level is below B, replace the 12-volt battery.

Tires

Replace or rotate tires in accordance with maintenance schedules and treadwear.

Checking tires

Check if the treadwear indicators are showing on the tires. Also check the tires for uneven wear, such as excessive wear on one side of the tread.



A New tread

B Worn tread

C Treadwear indicator

The location of treadwear indicators is shown by a "TWI" or " △ " mark, etc., molded into the sidewall of each tire.

Replace the tires if the treadwear indicators are showing on a tire.

n When to replace your vehicle's tires

Tires should be replaced if:

- The treadwear indicators are showing on a tire.
- You have tire damage such as cuts, splits, cracks deep enough to expose the fabric, and bulges indicating internal damage
- A tire goes flat repeatedly or cannot be properly repaired due to the size or location of a cut or other damage

If you are not sure, consult with your Lexus dealer.

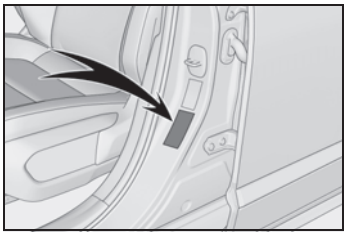
n Tire life

Any tire over 6 years old must be checked by a qualified technician even if it has seldom or never been used or damage is not obvious.

n Maximum load of tire

Check that the maximum load of the replacement tire is greater than 1/2 of the Gross Axle Weight Ratings (GAWR) of either the front axle or the rear axle, whichever is greater.

For the GAWR, see the Certification Label. For the maximum load of the tire, see the load limit at maximum cold tire inflation pressure mentioned on the sidewall of the tire. (→P.501)



n Tire types

l Summer tires

Summer tires are high-speed performance tires best suited to highway driving under dry conditions. Since summer tires do not have the same traction performance as snow tires, summer tires are inadequate for driving on snow-covered or icy roads. For driving on snow-covered roads or icy

roads, the use of snow tires is recommended. When installing snow tires, be sure to replace all four tires.

l All season tires

All season tires are designed to provide better traction in snow and to be adequate for driving in most winter conditions as well as for use year-round. All season tires, however, do not have adequate traction performance compared with snow tires in heavy or loose snow. Also, all season tires fall short in acceleration and handling performance compared with summer tires in highway driving.

l Snow tires

For driving on snow-covered roads or icy roads, we recommend using snow tires. If you need snow tires, select tires of the same size, construction and load capacity as the originally installed tires. Since your vehicle has radial tires as original equipment, make sure your snow tires also have radial construction. Do not install studded tires without first checking local regulations for possible restrictions. Snow tires should be installed on all wheels. (→P.338)

n **If the tread on snow tires wears down below 0.16 in. (4 mm)**

The effectiveness of the tires as snow tires is lost.

n **Checking the tire valves**

When replacing the tires, check the tire valves for deformation, cracks, and other damage.

WARNING

n **When inspecting or replacing tires**

Observe the following precautions to prevent accidents.
Failure to do so may cause damage to parts of the drivetrain as well as dangerous handling characteristics, which may lead to an accident resulting in death or serious injury.

l Do not mix tires of different makes, models or tread patterns.
Also, do not mix tires of remarkably different treadwear.

l Do not use tire sizes other than those recommended by Lexus.

l Do not mix differently constructed tires (radial, bias-belted or bias-ply tires).

l Do not mix summer, all season and snow tires.

l Do not use tires that have been used on another vehicle.
Do not use tires if you do not know how they were used previously.

NOTICE

n **Driving on rough roads**

Take particular care when driving on roads with loose surfaces or potholes.

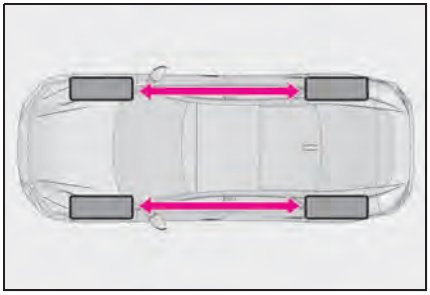
These conditions may cause losses in tire inflation pressure, reducing the cushioning ability of the tires. In addition, driving on rough roads may cause damage to the tires themselves, as well as the vehicle's wheels and body.

n **If tire inflation pressure of each tire becomes low while driving**

Do not continue driving, or your tires and/or wheels may be ruined.

Tire rotation

Rotate the tires in the order shown.



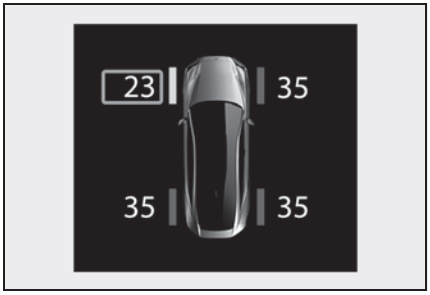
To equalize tire wear and extend tire life, Lexus recommends that tire rotation is carried out at the same interval as tire inspection.

Make sure to perform wheel position registration procedure after rotating the tires. (→P.408)

Tire pressure warning system

Your vehicle is equipped with a tire pressure warning system that uses tire pressure warning valves and transmitters to detect low tire inflation pressure before serious problems arise.

The tire pressure warning system of this vehicle adopts a 4-type warning system. (→P.446)



- When "Adjust Pressure" is displayed on the multi-information display (Normal Warning)

A warning with the tire pressure warning light and warning buzzer when there is an unknown level of low tire pressure with the appearance of the tire due to natural air leakage as well as the pressure lowering due to changes in the pressure according to the outside temperature.

- When "Tire Pressure Very Low Drive Cautiously" is displayed (Emergency Warning)

This message is displayed when the tire pressure has significantly dropped, and any further drop may cause a tire burst.

- When "Immediately Check tire when Safe" is displayed on the multi-information display (Emergency Warning)

A warning with the tire pressure warning light and warning buzzer when there is a known level of low tire pressure with the appearance of the tire due to pressure suddenly lowering.
However, the system may not be able to detect sudden tire ruptures (bursting, etc.).

- When "Tire Air Leaking Visit Nearest Dealer" is displayed (Normal Warning)

This message is displayed when a slow puncture may be occurring in a tire.

n Routine tire inflation pressure checks

The tire pressure warning system does not replace routine tire inflation pressure checks. Make sure to check tire inflation pressure as part of your routine of daily vehicle checks.

n Tire inflation pressure

- It may take a few minutes to display the tire inflation pressure after the power switch is turned to ON. It may also take a few minutes to display the tire inflation pressure after inflation pressure has been adjusted.
- Tire inflation pressure changes with temperature. The displayed values may also

be different from the values measured using a tire pressure gauge.

n **Situations in which the tire pressure warning system may not operate properly**

l In the following cases, the tire pressure warning system may not operate properly.
- If non-genuine Lexus wheels are used.
- A tire has been replaced with a tire that is not an OE (Original Equipment) tire.
- A tire has been replaced with a tire that is not of the specified size.
- Tire chains, etc. are equipped.
- If a window tint that affects the radio wave signals is installed.
- If there is a lot of snow or ice on the vehicle, particularly around the wheels or wheel housings.
- If the tire inflation pressure is extremely higher than the specified level.
- If tires not equipped with tire pressure warning valves and transmitters are used.
- If the ID code on the tire pressure warning valves and transmitters is not registered in the tire pressure warning computer.

l Performance may be affected in the following situations.
- Near a TV tower, electric power plant, gas station, radio station, large display, airport or other facility that generates strong radio waves or electrical noise
- When carrying a portable radio, cellular phone, cordless phone or other wireless communication device

l If tire position information is not correctly displayed due to the radio wave conditions, the display may be corrected by changing the location of the vehicle as the radio wave conditions may change.

l When the vehicle is parked, the time taken for the warning to start or go off could be extended.

l When tire inflation pressure declines rapidly for example when a tire has burst, the warning may not operate.

Installing tire pressure warning valves and transmitters

When replacing tires or wheels, tire pressure warning valves and transmitters must also be installed.

When new tire pressure warning valves and transmitters are installed, new ID codes must be registered in the tire pressure warning computer. (→P.408)

n **Replacing the tires and wheels**

If the ID code of the tire pressure warning valve and transmitter is not registered, the tire pressure warning system will not work properly. After driving for about 20 minutes, the tire pressure warning light blinks for 1 minute and stays on to indicate a system malfunction.

NOTICE

n **Repairing or replacing tires, wheels, tire pressure warning valves, transmitters and tire valve caps**

l When removing or fitting the wheels, tires or the tire pressure warning valves and transmitters, contact your Lexus dealer as the tire pressure warning valves and transmitters may be damaged if not handled correctly.

l Make sure to install the tire valve caps. If the tire valve caps are not installed, water could enter the tire pressure warning valves and the tire pressure warning valves could be bound.

l When replacing tire valve caps, do not use tire valve caps other than those specified. The cap may become stuck.

NOTICE

n To avoid damage to the tire pressure warning valves and transmitters

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Lexus dealer or other qualified service shop as soon as possible. After use of liquid sealant, make sure to replace the tire pressure warning valve and transmitter when repairing or replacing the tire.

Registering the position of each wheel

n When to register the position of each wheel

It is necessary to register the position of each wheel after performing a tire rotation.

Wheel position registration can be performed by oneself. Wheel position registration is performed by driving forward with moderate left and right turns. However, depending on the driving conditions and driving environment, registration may take some time to complete.

n Registering the position of each wheel

1 Park the vehicle in a safe place, turn the power switch off and wait 15 minutes or more.

2 Start the hybrid system.

The wheel position registration procedure cannot be performed while the vehicle is moving.

3 Select  on the center display.

4 Select “Vehicle”.

5 Select “Tires”.

6 Select “Detect tire position”.

7 Select “Continue”.

A message indicating that wheel position registration is being performed will be displayed on the multi-information display. “---” will be displayed for the tire inflation pressure of each tire and wheel position registration will begin.

8 Drive straight (with occasional left and right turns) at approximately 25 mph (40 km/h) or more for approximately 10 to 30 minutes.

When wheel position registration is complete, a message indicating that registration has been completed and the inflation pressure of each tire will be displayed on the multi-information display.

Even if it is not possible to drive continuously at approximately 25 mph (40 km/h) or more, registration can be completed by driving for a long time. However, if registration does not complete after driving for 1 hour or more, park the vehicle in a safe place and leave it with the power switch in ON for approximately 15 minutes or more, and then perform the driving procedure again.

n When performing wheel position registration

- Normally, wheel position registration can be completed within approximately 30 minutes.
- Wheel position registration is performed while driving at a vehicle speed of approximately 25 mph (40 km/h) or more.

n Wheel position registration procedure

- If the power switch is turned off while registering the wheel position, the next time the power switch is turned to ON, the wheel position registration will resume and it will not be necessary to restart the procedure.

- While the position of each wheel is being determined and the inflation pressures are not being displayed, if the inflation pressure of a tire drops, the tire pressure warning light will come on.

n **If the wheel position cannot be registered easily**

- In the following situations, wheel position registration may take longer than usual to be completed or may not be possible.
  - Vehicle is not driven at approximately 25 mph (40 km/h) or more
  - Vehicle is driven on unpaved roads
- If wheel position registration does not complete after driving for 1 hour or more, park the vehicle in a safe place for approximately 15 minutes and then drive the vehicle again.
- If the vehicle is reversed during wheel position registration, all data collected until then will be cleared. Perform driving again.

Setting the tire pressure

n **When you need to setting the tire pressure**

In the following situations, it will be necessary to perform the tire inflation pressure setting procedure of the tire pressure warning system.

- When the specified tire inflation pressure has changed, such as due to carried load, etc.
- When the tire inflation pressure is changed such as when the tire size is changed.

If the tire inflation pressure has been adjusted to the specified level, perform the tire inflation setting procedure by selecting specified inflation pressure on the center display. (→P.409)

When the tire inflation pressure is to be other than specified, such as when tires other than the specified size are used, etc., set the tire inflation pressure using the current pressure. Make sure to adjust the tire inflation pressure of each tire to the appropriate level before performing tire pressure setting. The tire pressure warning system operates based on this tire inflation pressure. (→P.410)

n **Setting by selecting a specified tire inflation pressure**

1 Start the hybrid system.

The tire inflation pressure cannot be set while the vehicle is moving.

2 Select  on the center display.

3 Select “Vehicle”.

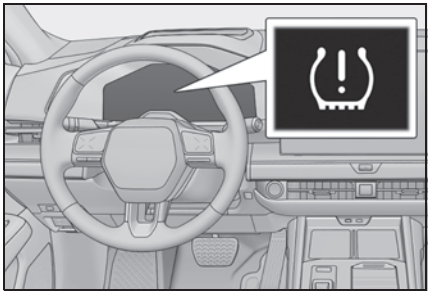
4 Select “Tires”.

5 Select “Set custom pressure” and then select the desired front and rear tire pressures.

6 Select “Save”.

The tire pressure warning light will slowly blink 3 times.

After setting the tire inflation pressure, a message indicating that setting has been completed will be displayed on the multi-information display.



n **Setting using the current tire inflation pressure**

1 Adjust the tire inflation pressure of each tire to the appropriate level.

Make sure to adjust the tire inflation pressure with the tires cold.

2 Start the hybrid system.

The tire inflation pressure cannot be set while the vehicle is moving.

3 Select on the center display.

4 Select "Vehicle".

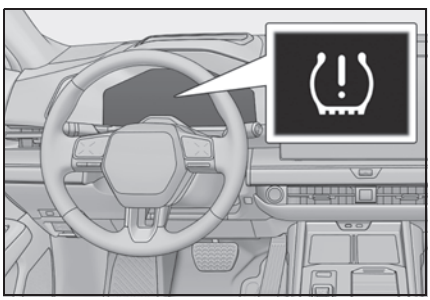
5 Select "Tires".

6 Select "Use current pressure".

7 Select "Confirm".

The tire pressure warning light will slowly blink 3 times and a message indicating that tire inflation pressure is being set will be displayed on the multi-information display.

After setting the tire inflation pressure, a message indicating that setting has been completed will be displayed on the multi-information display.



n **Warning performance of the tire pressure warning system (Setting using the current tire inflation pressure)**

l When performing the tire pressure setting using the current tire inflation pressure, the warning timing of the tire pressure warning system will vary according to the conditions under which tire pressure setting was performed. Therefore, a warning may be output even if the tire inflation pressure drops slightly or if the tire inflation pressure increases above that when the tire inflation pressure was set.

l Make sure to perform the tire pressure setting procedure after adjusting the tire inflation pressure. Also, make sure the tires are cold before performing the tire pressure setting procedure or adjusting the tire inflation pressure.

n **Tire inflation pressure setting procedure (Setting using the current tire inflation pressure)**

l If the power switch is turned off while setting the tire inflation pressure, the next time the power switch is turned to ON, the setting procedure will resume and it will not be necessary to restart the procedure.

l If the tire inflation pressure setting procedure is started unnecessarily, adjust the tire inflation pressure to the specified level with the tires cold and then perform setting by selecting a specified tire inflation pressure, or perform the tire inflation pressure setting procedure with the current tire inflation pressure.

n **If the tire inflation pressure cannot be set easily**

l Normally, it takes approximately 3 minutes to complete the setting procedure to the current tire inflation pressure.

l If the tire pressure warning light does not blink 3 times when starting the tire inflation pressure setting procedure, the procedure may not have started. Perform the procedure again from the beginning.

l If tire inflation pressure setting procedure cannot be completed after performing the above procedure, contact your Lexus dealer.

WARNING

n When setting using the current tire inflation pressure

Make sure to adjust the tire inflation pressure of each tire to the appropriate level before performing tire pressure setting. Otherwise, the tire pressure warning light may not illuminate even if the tire inflation pressure drops or may illuminate even though the tire inflation pressure is normal.

Registering ID codes

n When to register ID codes

The tire pressure warning valve and transmitter is equipped with a unique ID code. When new tire pressure warning valves and transmitters are installed, new ID codes must be registered in the tire pressure warning computer.

n How to registration ID code

Before performing ID code registration, make sure that no wheels with tire pressure warning valve and transmitters installed are near the vehicle.

1 Park the vehicle in a safe place, turn the power switch off and wait 15 minutes or more.

2 Start the hybrid system.

The ID code registration procedure cannot be performed while the vehicle is moving.

3 Select on the center display.

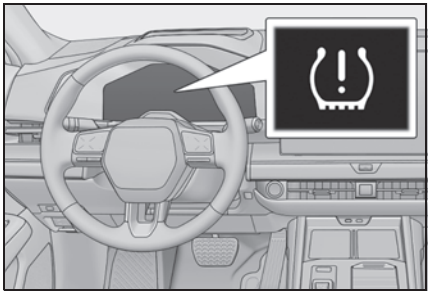
4 Select “Vehicle”.

5 Select “Tires”.

6 Check if the desired wheel set (“Set 1” or “Set 2”) is displayed.

ID codes will be registered to the displayed wheel set.
To change the wheel set to be registered, select the displayed set, and then select the wheel set you wish to register.

If ID codes have already been registered for that wheel set, the tire pressure warning light will slowly blink 3 times, and a message indicating that change is occurring will be displayed on the multi-information display.

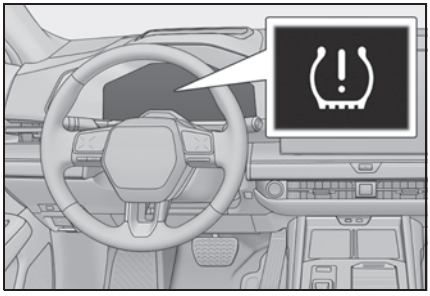


7 Select “Register”.

8 Select “Start”.

The tire pressure warning light will slowly blink 3 times and a message indicating that ID code registration is being performed will be displayed on the multi-information display. Wheel set changing will be canceled and registration will begin.

When registration is being performed, the tire pressure warning light will blink for approximately 1 minute then illuminate and “---” will be displayed for the inflation pressure of each tire on the multi-information display.



9 Drive straight (with occasional left and right turns) at approximately

25 mph (40 km/h) or more for approximately 10 to 30 minutes.

When registration is complete, the tire pressure warning light will turn off and a message indicating that registration has been completed will be displayed on the multi-information display.

Registration may take longer than normal to complete if the vehicle speed cannot be maintained at approximately 25 mph (40 km/h) or more. If registration cannot be completed after driving for 1 hour or more, perform the registration procedure again from the beginning.

10 If the tire inflation pressure of the wheel set installed differs from that of the previous set, it will be necessary to perform the tire inflation pressure setting procedure of the tire pressure warning system. (→P.409)

If the specified tire inflation pressure is the same, it will not be necessary to perform the tire inflation pressure setting procedure.

---

n **When registering ID codes**

- Normally, wheel position registration can be completed within approximately 30 minutes.
- ID code registration is performed while driving at a vehicle speed of approximately 25 mph (40 km/h) or more.
- ID codes can be registered by yourself, but depending on the driving conditions and driving environment, registration may take some time to complete.
- When using a wheel set which all of the ID codes have already been registered, the wheel set can be changed in a short amount of time. (→P.412)

n **If ID codes are not registered easily**

- In the following situations, ID code registration may take longer than usual to be completed or may not be possible.
  - When the vehicle has not been parked for approximately 15 minutes or more before being driven
  - Vehicle is not driven at approximately 25 mph (40 km/h) or more
  - Vehicle is driven on unpaved roads
  - Vehicle is driven near other vehicles and system cannot recognize tire pressure warning valve and transmitters of your vehicle over those of other vehicles
  - Wheel with tire pressure warning valve and transmitter installed is inside or near the vehicle
- If the vehicle is reversed during registration, all data collected until then will be cleared. Perform driving again.
- If registration does not complete after driving for 1 hour or more, perform the ID code registration procedure again from the beginning.
- If the tire pressure warning light does not blink 3 times when starting ID code registration procedure, the procedure may not have started. Perform the procedure again from the beginning.
- If the ID codes cannot be registered even when performing the above procedure, contact your Lexus dealer.

Canceling ID code registration

To cancel ID code registration after it has been started, select “New tires” again on the center display.

If ID code registration has been canceled, the tire pressure warning light will turn off.

If the warning light does not turn off, ID code registration may not have been cancelled correctly. To cancel registration, select “New tires” again on the center display.

Selecting wheel set

Your vehicle is equipped with a tire pressure warning system with a function to register two sets of ID codes.

This allows for registration of a second wheel set, for example a winter set.

- The wheel set can be changed only if a second wheel set has been registered to the system. If a second wheel set has not been registered, "Set 2 (Unregistered)" will be displayed and it will not be possible to change to the selected wheel set.

ID codes can be registered by yourself. (→P.411)

- Only a change between both registered wheel set is possible, mixing between these wheel sets is not supported.
- While registering ID codes, it may not be possible to change between wheel sets normally. Cancel registration before changing between wheel sets.

n **Changing ID codes between different wheel sets**

1 Install the desired wheel set.

2 Select  on the center display.

3 Select "Vehicle".

4 Select "Tires".

5 Select "Current tires".

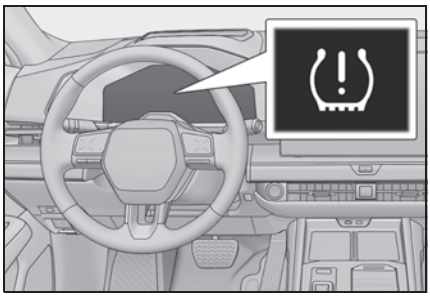
6 Select the wheel set ("Set 1" or "Set 2") displayed for the set selection setting.

The tire pressure warning light will slowly blink 3 times, a message indicating that change is occurring will be displayed, and the wheel set change will begin.

Wheel set change will begin and the tire pressure warning light will blink for 1 minute and then illuminate. Also, while the change is being performed, "---" will be displayed for the tire inflation pressure of each tire on the multi-information display.

After approximately 2 minutes, the wheel set change will complete, the tire pressure warning light will turn off, and a completion message will be displayed on the multi-information display.

If changing does not complete after approximately 4 minutes, a message indicating that the change could not be completed will be displayed.
Check which wheel set is installed and perform the change procedure again from the beginning.



7 If the specified tire inflation pressure of the wheel set installed differs from that of the previous set, it will be necessary to perform the tire inflation pressure setting procedure of the tire pressure warning system. (→P.409)

If the specified tire inflation pressure is the same, it will not be necessary to perform the tire inflation pressure setting procedure.

8 Register the position of each wheel. (→P.411)

Replacing the tire

When replacing the tires yourself, prepare the necessary tools and a jack.

If necessary tire replacement seems difficult to perform, contact your Lexus dealer.

Before jacking up the vehicle

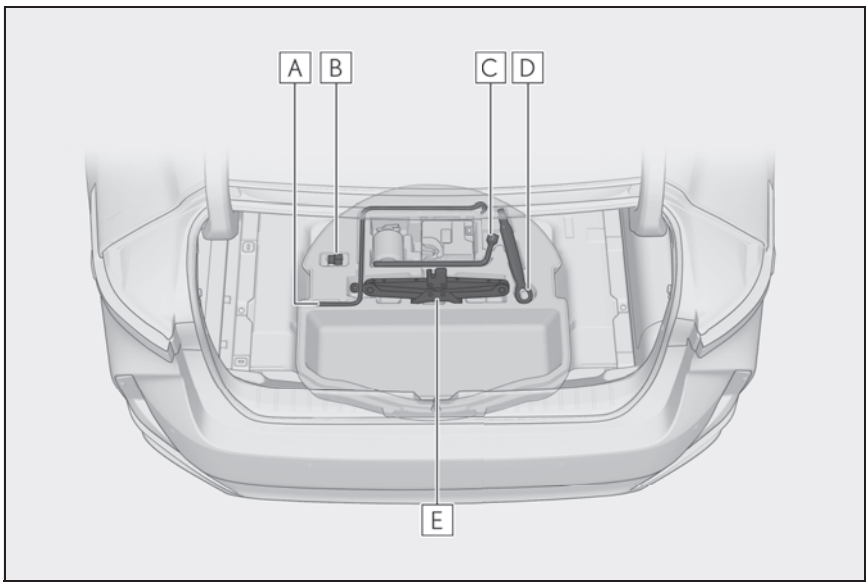
- Stop the vehicle in a safe place on a hard, flat surface.
- Set the parking brake.
- Shift the shift position to P.
- Stop the hybrid system.

n **Jack and tools**

As your vehicle is equipped with an emergency tire puncture repair kit, the following tools for replacing a tire are not included with your vehicle. They can be purchased at your Lexus dealer.

- Jack
- Jack handle
- Wheel nut wrench
- Wheel lock key

Location of the jack and tools



A Jack handle (if equipped)

B Wheel lock key (if equipped)

C Wheel nut wrench (if equipped)

D Towing eyelet

E Jack (if equipped)

WARNING

n Using the tire jack

Observe the following precautions. Improper use of the tire jack may cause the vehicle to suddenly fall off the jack, leading to death or serious injury.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Do not use other tire jacks for replacing tires on this vehicle.
- Put the jack properly in its jack point.
- Do not put any part of your body under the vehicle while it is supported by the jack.
- Do not start the hybrid system or drive the vehicle while the vehicle is supported by the jack.
- Do not raise the vehicle while someone is inside.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Use a jack stand if it is necessary to get under the vehicle.

WARNING

- When lowering the vehicle, make sure that there is no-one near the vehicle. If there are people nearby, warn them vocally before lowering.

Replacing a flat tire for vehicles with power trunk lid

In cases such as when replacing tires, make sure to turn off the trunk opener main switch (→P.119). Failure to do so may cause the trunk lid to operate unintentionally if the power trunk lid switch is accidentally touched, resulting in hands and fingers being caught and injured.

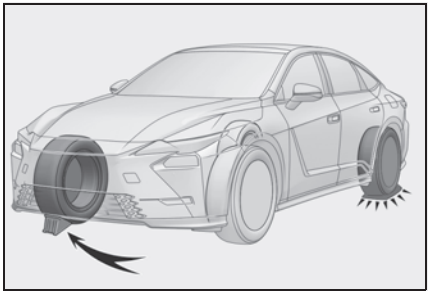
Taking out the jack

1 Remove the luggage mat.

2 Remove the jack.

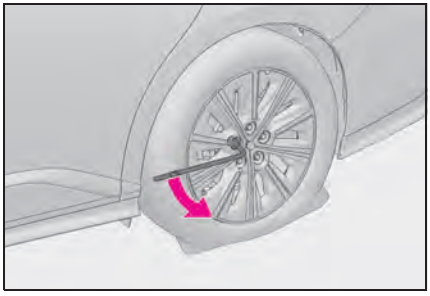
Removing a tire

1 Chock the tires.



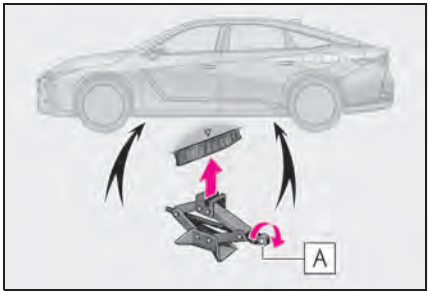
Tire	Wheel chock positions
Front left-hand side	Behind the rear right-hand side tire
Front right-hand side	Behind the rear left-hand side tire
Rear left-hand side	In front of the front right-hand side tire
Rear right-hand side	In front of the front left-hand side tire

2 Slightly loosen the wheel nuts (one turn).

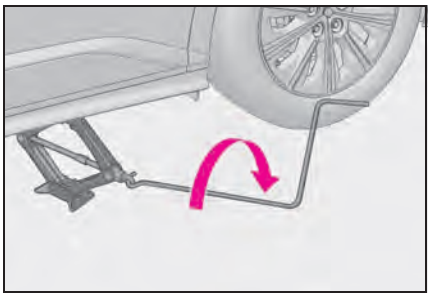


3 Turn the tire jack portion A by hand until the notch of the jack is in contact with the jack point.

The jack point guides are located under the rocker panel. They indicate the jack point positions.

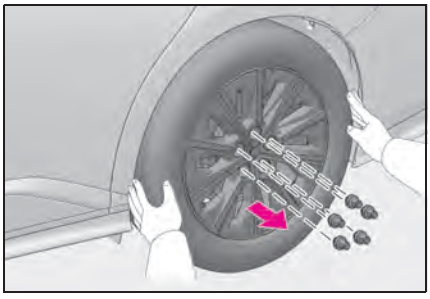


4 Raise the vehicle until the tire is slightly raised off the ground.



5 Remove all the wheel nuts and the tire.

When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.



n **Design wheel covers**

Do not remove a design wheel cover that is attached to the wheel. If the design wheel cover is forcibly removed, it may not be possible to reinstall it. For a wheel repair, contact your Lexus dealer.

WARNING

n **Replacing a tire**

l Do not touch the disc wheels or the area around the brakes immediately after the vehicle has been driven. After the vehicle has been driven the disc wheels and the area around the brakes will be extremely hot. Touching these areas with hands, feet or other body parts while changing a tire, etc. may result in burns.

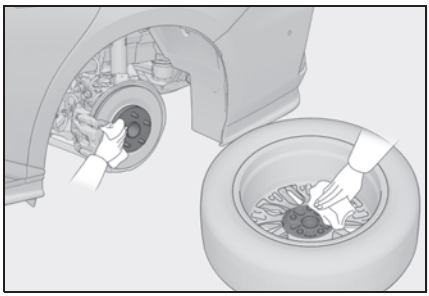
l Failure to follow these precautions could cause the wheel nuts to loosen and the tire to fall off, resulting in death or serious injury.

- Never use oil or grease on the wheel bolts or wheel nuts.
  Oil and grease may cause the wheel nuts to be excessively tightened, leading to bolt or disc wheel damage. Remove any oil or grease that has adhered when installing the wheel nuts.
- After replacing a tire, check the tightening torque as soon as possible. If you cannot confirm the tightening torque yourself, have the vehicle inspected at your Lexus dealer.
- When installing a tire, only use wheel nuts that have been specifically designed for that wheel.
- If there are any cracks or deformations in the bolt screws, nut threads or bolt holes of the wheel, have the vehicle inspected by your Lexus dealer.
- Do not attach a heavily damaged wheel ornament, as it may fly off the wheel while the vehicle is moving.

Installing the tire

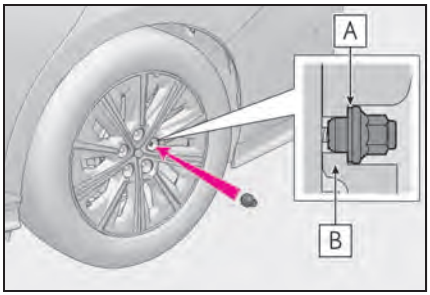
1 Remove any dirt or foreign matter from the wheel contact surface.

If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, causing the tire to come off.

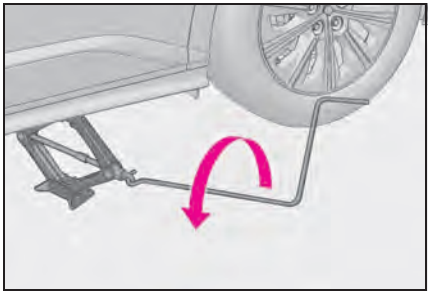


2 Install the tire and loosely tighten each wheel nut by hand by approximately the same amount.

Tighten the wheel nuts until the tapered portion A comes into loose contact with the disc wheel seat B.

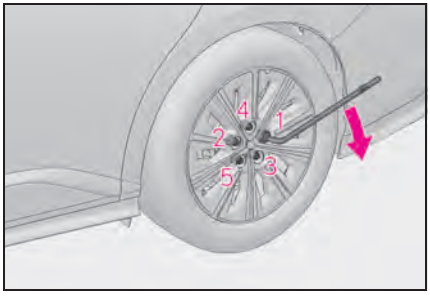


3 Lower the vehicle.



4 Securely tighten the wheel nuts two or three times in the order shown in the illustration using a wheel nut wrench.

Tightening torque:
103 ft•lbf (140 N•m, 14.3 kgf•m)



5 Stow the jack and all tools.

NOTICE

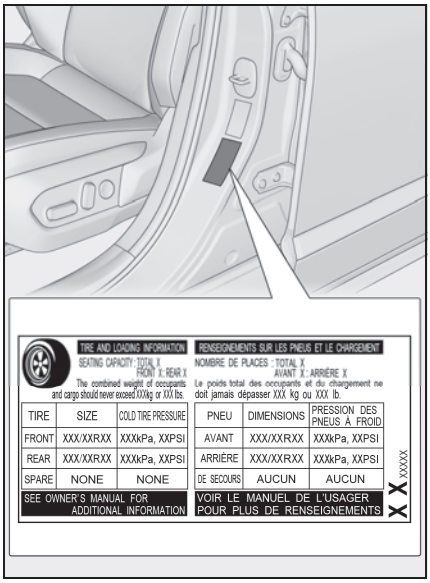
n **Repairing or replacing tires, wheels, tire pressure warning valves, transmitters and tire valve caps**

→P.407

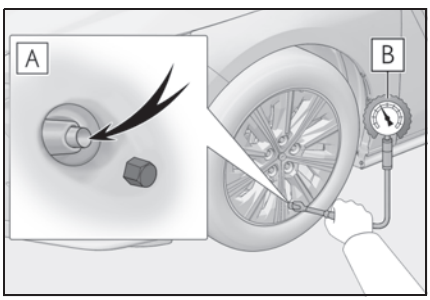
Tire inflation pressure

Checking the specified tire inflation pressure

The recommended cold tire inflation pressure and tire size are displayed on the tire and loading information label. (→P.497)



Inspection and adjustment procedure



A Tire valve

B Tire pressure gauge

1 Remove the tire valve cap.

2 Press the tip of the tire pressure gauge onto the tire valve.

3 Read the pressure using the gauge gradations.

4 If the tire inflation pressure is not at the recommended level, adjust the pressure.
If you add too much air, press the center of the valve to deflate.

5 After completing the tire inflation pressure measurement and adjustment, apply soapy water to the valve and check for leakage.

6 Put the tire valve cap back on.

n Tire inflation pressure check interval

You should check tire inflation pressure every two weeks, or at least once a month. Do not forget to check the spare.

n Effects of incorrect tire inflation pressure

Driving with incorrect tire inflation pressure may result in the following:

- Reduced fuel economy
- Reduced driving comfort and poor handling
- Reduced tire life due to wear
- Reduced safety
- Damage to the drivetrain

If a tire needs frequent inflating, have it checked by your Lexus dealer.

n Instructions for checking tire inflation pressure

When checking tire inflation pressure, observe the following:

- Check only when the tires are cold.
  If your vehicle has been parked for at least 3 hours or has not been driven for more than 1 mile or 1.5 km, you will get an accurate cold tire inflation pressure read-

ing.

- Always use a tire pressure gauge.
  It is difficult to judge if a tire is properly inflated based only on its appearance.
- It is normal for the tire inflation pressure to be higher after driving as heat is generated in the tire. Do not reduce tire inflation pressure after driving.
- Never exceed the vehicle capacity weight.
  Passengers and luggage weight should be placed so that the vehicle is balanced.

WARNING

n Proper inflation is critical to save tire performance

Keep your tires properly inflated.
If the tires are not properly inflated, the following conditions may occur which could lead to an accident resulting in death or serious injury:

- Excessive wear
- Uneven wear
- Poor handling
- Possibility of blowouts resulting from overheated tires
- Air leaking from between tire and wheel
- Wheel deformation and/or tire damage
- Greater possibility of tire damage while driving (due to road hazards, expansion joints, sharp edges in the road, etc.)

NOTICE

n When inspecting and adjusting tire inflation pressure

Be sure to put the tire valve caps back on.
If a valve cap is not installed, dirt or moisture may get into the valve and cause an air leak, resulting in decreased tire inflation pressure.

Wheels

If a wheel is bent, cracked or heavily corroded, it should be replaced. Otherwise, the tire may separate from the wheel or cause a loss of handling control.

Wheel selection

When replacing wheels, care should be taken to ensure that they are equivalent to those removed in load capacity, diameter, rim width and inset*.

Replacement wheels are available at your Lexus dealer.

*: Conventionally referred to as offset.

Lexus does not recommend using the following:

- Wheels of different sizes or types
- Used wheels
- Bent wheels that have been straightened

n When replacing wheels

The wheels of your vehicle are equipped with tire pressure warning valves and transmitters that allow the tire pressure warning system to provide advance warning in the event of a loss in tire inflation pressure. Whenever wheels are replaced, tire pressure warning valves and transmitters must be installed. (→P.407)

WARNING

n When replacing wheels

- Do not use wheels that are a different size from those recommended in the Owner's Manual, as this may result in a loss of handling control.

WARNING

- Never use an inner tube in a leaking wheel which is designed for a tubeless tire. Doing so may result in an accident, causing death or serious injury.

Use of defective wheels prohibited

Do not use cracked or deformed wheels.

Doing so could cause the tire to leak air during driving, possibly causing an accident.

NOTICE

Replacing tire pressure warning valves and transmitters

- Because tire repair or replacement may affect the tire pressure warning valves and transmitters, make sure to have tires serviced by your Lexus dealer or other qualified service shop. In addition, make sure to purchase your tire pressure warning valves and transmitters at your Lexus dealer.
- Ensure that only genuine Lexus wheels are used on your vehicle.
  Tire pressure warning valves and transmitters may not work properly with non-genuine wheels.

Aluminum wheel precautions

- Use only Lexus wheel nuts and wrenches designed for use with your aluminum wheels.
- When rotating, repairing or changing your tires, check that the wheel nuts are still tight after driving 1000 miles (1600 km).
- Be careful not to damage the aluminum wheels when using tire chains.
- Use only Lexus genuine balance weights or equivalent and a plastic or rubber hammer when balancing your wheels.

Air conditioning filter

The air conditioning filter must be changed regularly to maintain air conditioning efficiency.

Removing the air conditioning filter

1 Turn the power switch off.

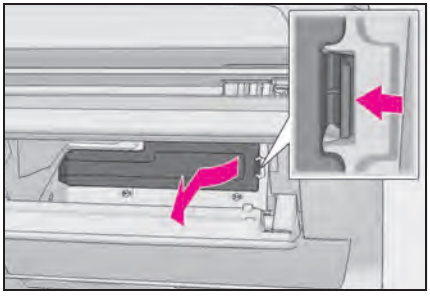
Do not use the Remote Air Conditioning System (if equipped) during the procedure.

2 Open the front passenger's door.

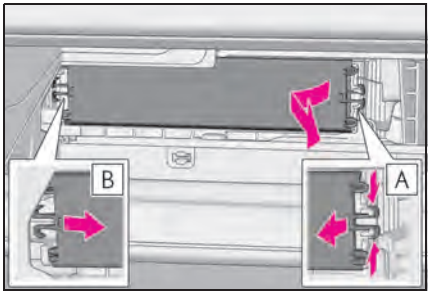
By keeping the door open, unexpected operation of the Remote Air Conditioning System (if equipped) can be prevent.

3 Open the glove box.

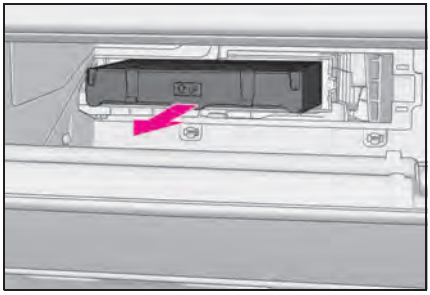
4 Remove the panel.



5 Unlock the filter cover (A), pull the filter cover out of the claws (B), and remove the filter cover.

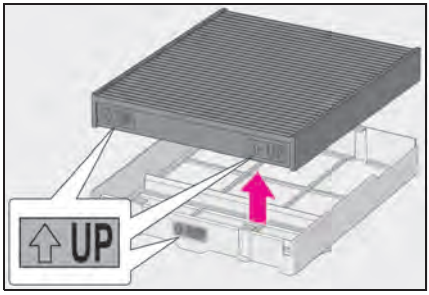


6 Remove the filter case.



7 Remove the air conditioning filter from the filter case and replace it with a new one.

The " ⇧ UP" marks shown on the filter and the filter case should be pointing up.



n **Checking interval**

Inspect and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow, early replacement may be required. (For scheduled maintenance information, please refer to the "Owner's Manual Supplement" or "Scheduled Maintenance".)

n **If air flow from the vents decreases dramatically**

The filter may be clogged. Check the filter and replace if necessary.

n **Air conditioning filter with deodorizing function**

When fragrances are placed in your vehicle, the deodorizing effect may become significantly weakened in a short period.

When an air conditioning odor comes out

continuously, replace the air conditioning filter.

NOTICE

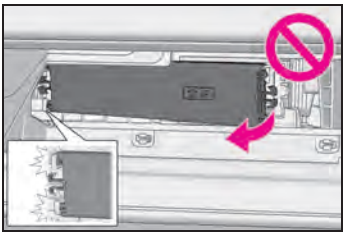
n When using the air conditioning system

l Make sure that a filter is always installed.
Using the air conditioning system without a filter may cause damage to the system.

l The filter is replaceable.
When cleaning the filter, do not clean with water or an air gun.

n To prevent damage to the filter cover

When moving the filter cover in the direction of arrow to release the fitting, pay attention not to apply excessive force to the claws. Otherwise, the claws may be damaged.



Cleaning the hybrid battery (traction battery) air intake vent

To prevent the fuel economy from being affected, visually inspect the hybrid battery (traction battery) air intake vent periodically for clogs.

If it is dusty or clogged or if "Maintenance Required for Traction Battery Cooling Parts See Owner's Manual" is displayed on the multi-information display, clean the air intake vent using the following procedures:

n Scheduled maintenance of the air intake vent is necessary when

In some situations such as when the vehicle is used frequently or in heavy traffic or dusty areas, the air intake vent may need to be cleaned more regularly.

For details, refer to "Owner's Manual Supplement" or "Scheduled Maintenance".

n Cleaning the air intake vent

Improper handling of the air intake vent cover and filter may result in damage to them. If you have any concerns about cleaning the filter, contact your Lexus dealer.

NOTICE

n If "Maintenance Required for Traction Battery Cooling Parts See Owner's Manual" is displayed on the multi-information display

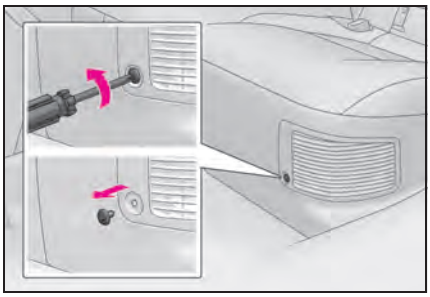
Clean the air intake vent immediately.

If the vehicle is continuously driven with the warning message displayed, it may cause a malfunction or output restriction of the hybrid battery (traction battery).

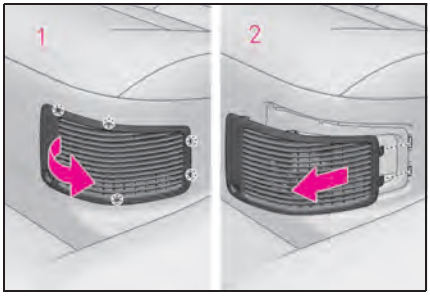
Cleaning procedure

1 Turn the power switch off.

2 Using a Phillips screwdriver, remove the clip.



3 Remove the air intake vent cover.

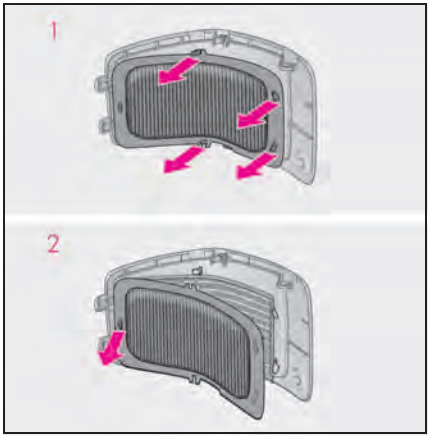


1 Pull the cover as shown in the illustration to disengage the 5 claws, starting from the claw in the upper right corner.

2 Pull the cover toward the front of the vehicle to remove it.

4 Remove the filter from the air intake vent cover.

If dust has accumulated on the air intake vent cover, remove the dust with a vacuum cleaner, etc.

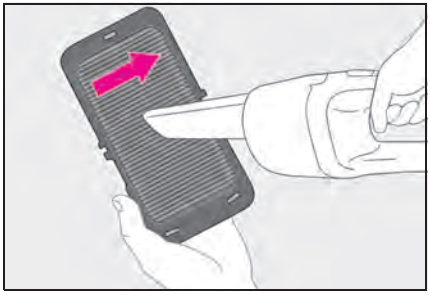


1 Disengage the 4 claws as shown in the illustration.

2 Remove the filter from the cover.

5 Remove the dust and sand from the filter.

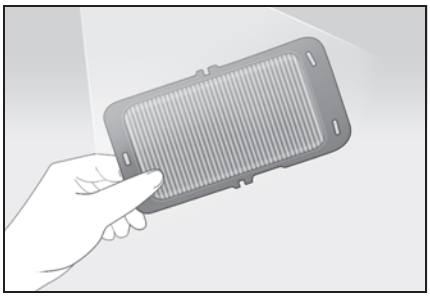
Using a vacuum cleaner, etc., absorb dust and sand from the filter by profiling the nozzle lightly along the fold.



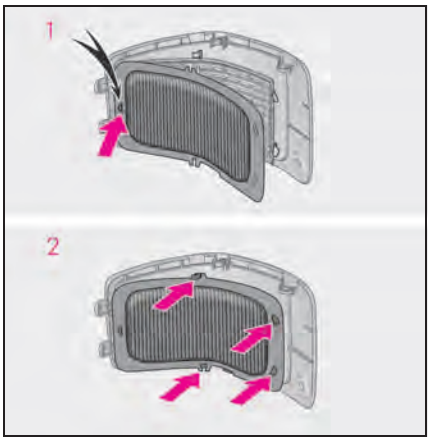
6 Hold the filter to the light and check if it is not clogged.

If the dust or sand cannot be removed

completely, contact your Lexus dealer.



7 Reinstall the filter to the cover.

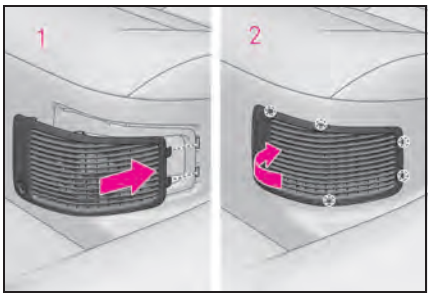


1 Engage the filter to the 1 claws as shown in the illustration.

2 Engage the 4 claws to install the filter.

Make sure that the filter is not crooked or deformed when installing it.

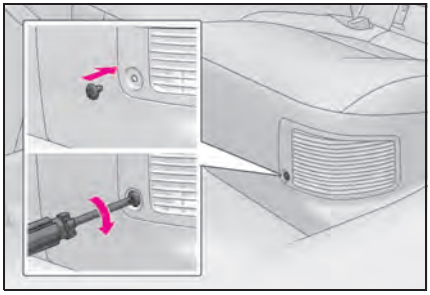
8 Install the air intake vent cover.



1 Insert the tab of the cover as shown in the illustration.

2 Push the cover to engage the 5 claws.

9 Using a Phillips screwdriver, install the clip.



▶ If "Maintenance Required for Traction Battery Cooling Parts See Owner's Manual" was displayed on the multi-information display

10 Start the hybrid system and check that the warning message is no longer displayed.

It may be necessary to drive the vehicle for approximately 20 minutes before the warning message is displayed again then disappears.

If the warning message does not disappear after some time, have the vehicle inspected by your Lexus dealer.

n If the dust or sand on the filter cannot be removed

It is recommended to use a vacuum cleaner with plastic brushes.

WARNING

n When cleaning the air intake vent

l Do not use water or other liquids to clean the air intake vent. If water is applied to the hybrid battery (traction battery) or other components, a malfunction or fire may occur.

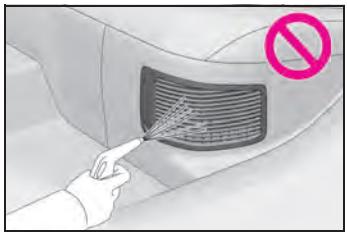
WARNING

- Before cleaning the air intake vent, make sure to turn the power switch off to stop the hybrid system.
- Do not put a hand or leg in the air intake vent. If it is caught in a cooling fan, or if it touches a high voltage part that results in an electric shock, death or serious injuries may result.

NOTICE

When cleaning the air intake vent

Do not use an air blow gun, etc.
Dust may be blown out, possibly causing a malfunction or output restriction of the hybrid battery (traction battery).



To prevent damage to the vehicle

Observe the following precautions:

- Do not allow liquid or foreign matter to enter the air intake vent.
- Make sure to reinstall the filter and cover to their original positions after cleaning.
- Do not install anything to the air intake vent other than the exclusive filter for this vehicle or use the vehicle without the filter installed.

To prevent damage to the filter

Observe the following precautions.
If the filter is damaged, have it replaced with a new filter by your Lexus dealer.

- Do not use an air blow gun, etc.
- Do not press hard a vacuum cleaner, etc. against the filter.
- Do not use a hard brush, such as a metal brush.
- Do not break the fold of the filter.

Electronic key battery

Replace the battery with a new one if it is depleted.
As the key may be damaged if the following procedure is not performed properly, it is recommended that key battery replacement be performed by your Lexus dealer.

n **If the electronic key battery is depleted**

The following symptoms may occur:

- The smart access system with push-button start and wireless remote control will not function properly.
- The operational range will be reduced.

n **When the card key battery needs to be replaced (if equipped)**

The battery for the card key is available only at Lexus dealers. Your Lexus dealer can replace the battery for you.

Items to prepare

Prepare the following before replacing the battery:

- Flathead screwdriver
- Small flathead screwdriver
- Lithium battery
  - CR2032

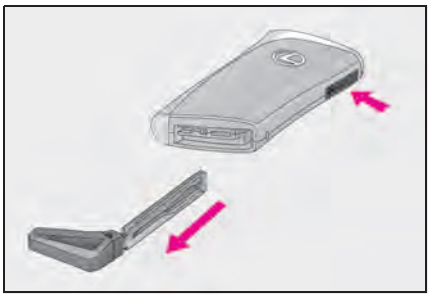
n **Use a CR2032 lithium battery**

- Batteries can be purchased at your Lexus dealer, local electrical appliance shops or camera stores.
- Replace only with the same or equivalent type recommended by the manufacturer.
- Dispose of used batteries according to the local laws.

Replacing the battery

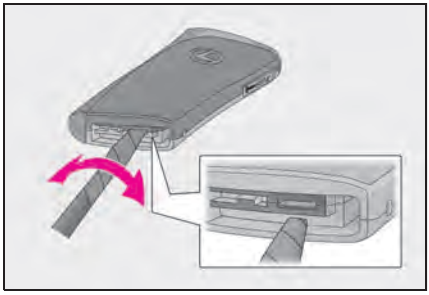
▶ Type A

1 Take out the mechanical key.



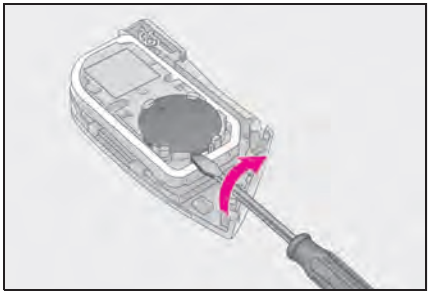
2 Remove the cover.

To prevent damage to the key, wrap the tip of the screwdriver with tape.



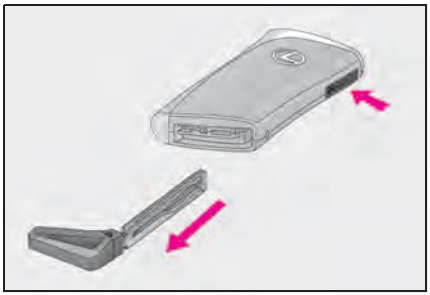
3 Remove the depleted battery.

Insert a new battery with the "+" terminal facing up.



▶ Type B

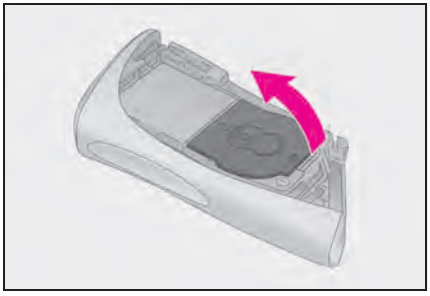
1 Take out the mechanical key.



2 Remove the cover.

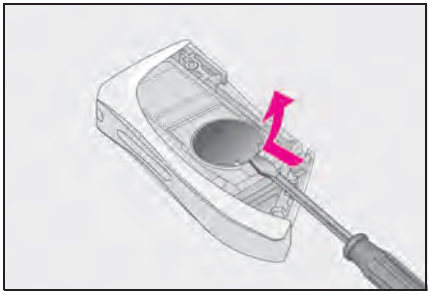


3 Remove the battery cover.



4 Remove the depleted battery.

Insert a new battery with the "+" terminal facing up.



WARNING

n Battery precautions

Observe the following precautions. Failure to do so may result in death or serious injury.

- Do not swallow the battery. Doing so may cause chemical burns.
- A coin battery or button battery is used in the electronic key. If a battery is swallowed, it may cause severe chemical burns in as little as 2 hours and may result in death or serious injury.
- Keep away new and removed batteries from children.
- If the cover cannot be firmly closed, stop using the electronic key and stow the key in the place where children cannot reach, and then contact your Lexus dealer.
- If you accidentally swallow a battery or put a battery into a part of your body, get emergency medical attention immediately.

n To prevent battery explosion or leakage of flammable liquid or gas

- Replace the battery with a new battery of the same type. If a wrong type of battery is used, it may explode.
- Do not expose batteries to extremely low pressure due to high altitude or extremely high temperatures.
- Do not burn, break or cut a battery.

NOTICE

n When replacing the battery

Use a flathead screwdriver of appropriate size. Applying excessive force may deform or damage the cover.

n For normal operation after replacing the battery

Observe the following precautions to prevent accidents:

- Always work with dry hands. Moisture may cause the battery to rust.
- Do not touch or move any other component inside the remote control.
- Do not bend either of the battery terminals.

Checking and replacing fuses

If any of the electrical components do not operate, a fuse may have blown. If this happens, check and replace the fuses as necessary.

Checking and replacing fuses

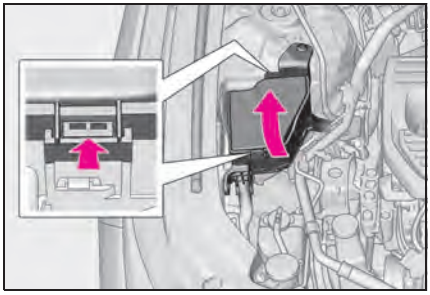
1 Turn the power switch off.

Do not use the Remote Air Conditioning System (if equipped) during the procedure.

2 Open the fuse box cover.

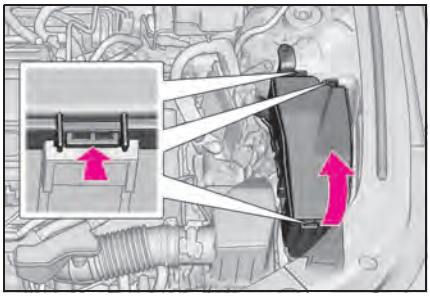
▶ Engine compartment: type A fuse box

Push the tab in and lift the lid off.



▶ Engine compartment: type B fuse box

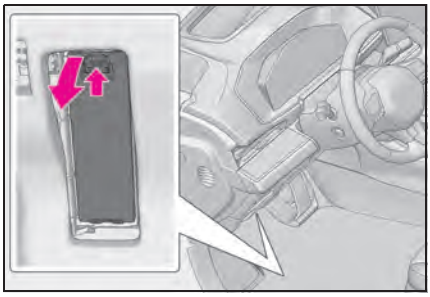
Push the tab in and lift the lid off.



▶ Driver's side instrument panel

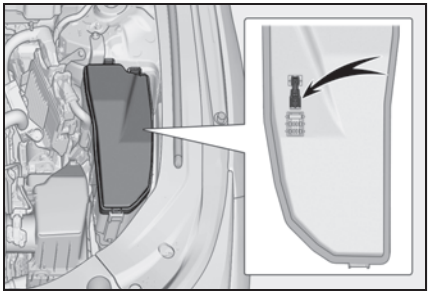
Push the tab in and remove the lid.

Make sure to push the tab in during removal or installation.



3 Remove the fuse with the pullout tool.

Only type A fuses can be removed using the pullout tool.



4 Check if the fuse is blown.

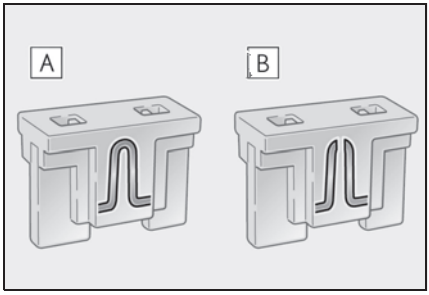
Type A and B:

Replace the blown fuse with a new fuse of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

Type C:

Contact your Lexus dealer.

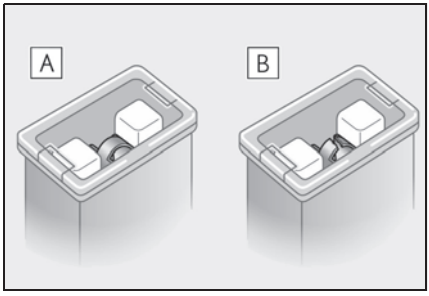
▶ Type A



A Normal fuse

B Blown fuse

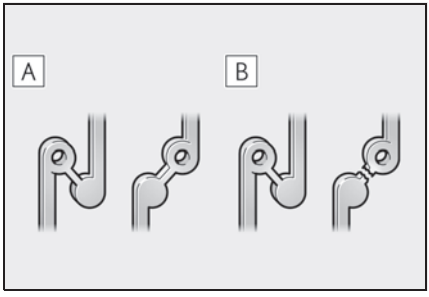
▶ Type B



A Normal fuse

B Blown fuse

▶ Type C



A Normal fuse

B Blown fuse

n **After a fuse is replaced**

l When installing the lid, make sure that the

tab is installed securely.

- If the lights do not turn on even after the fuse has been replaced, a bulb may need replacement. (→P.432)
- If the replaced fuse blows again, have the vehicle inspected by your Lexus dealer.

n If there is an overload in a circuit

The fuses are designed to blow, protecting the wiring harness from damage.

WARNING

n To prevent system breakdowns and vehicle fire

Observe the following precautions. Failure to do so may cause damage to the vehicle, and possibly a fire or injury.

- Never use a fuse of a higher amperage rating than that indicated, or use any other object in place of a fuse.
- Always use a genuine Lexus fuse or equivalent.
  Never replace a fuse with a wire, even as a temporary fix.
- Do not modify the fuses or fuse boxes.

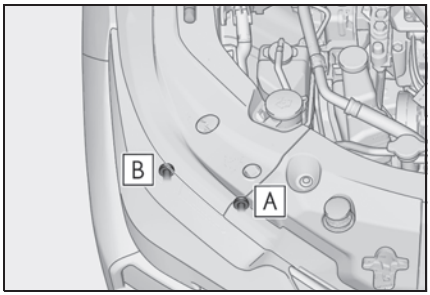
NOTICE

n Before replacing fuses

Have the cause of electrical overload determined and repaired by your Lexus dealer as soon as possible.

Headlight aim

Vertical/horizontal movement adjusting bolts



A Adjustment bolt A

B Adjustment bolt B

Before checking the headlight aim

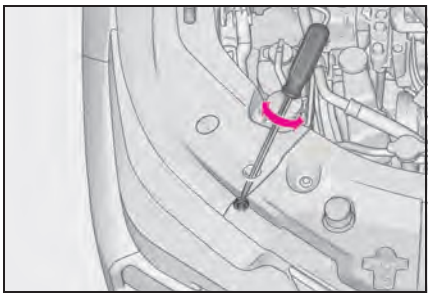
- Make sure the vehicle has a full tank of gasoline and the area around the headlight is not deformed.
- Park the vehicle on level ground.
- Make sure the tire inflation pressure is at the specified level.
- Have someone sit in the driver's seat.
- Bounce the vehicle several times.

Adjusting the headlight aim

1 Using a Phillips-head screwdriver, turn bolt A in either direction.

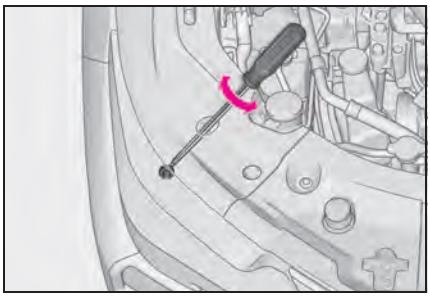
Remember the turning direction and the

number of turns.



2 Turn bolt B the same number of turns and in the same direction as step 1.

If the headlight cannot be adjusted using this procedure, take the vehicle to your Lexus dealer to adjust the headlight aim.



Light bulbs

If any lights burn out, have it replaced by your Lexus dealer.

n LED Lights

The lights consist of a number of LEDs. If any of the LEDs burn out, take your vehicle to your Lexus dealer to have the light replaced.

n Condensation build-up on the inside of the lens

Temporary condensation build-up on the inside of the headlight lens does not indicate a malfunction. Contact your Lexus dealer for more information in the following situations:

- Large drops of water have built up on the inside of the lens.
- Water has built up inside the headlight.

7-1. Essential information

Emergency flashers..... 434

If your vehicle has to be stopped in an emergency..... 434

If the vehicle is submerged or water on the road is rising .. 435

7-2. Steps to take in an emergency

If your vehicle needs to be towed 437

If you think something is wrong 441

If a warning light turns on or a warning buzzer sounds 442

If a warning message is displayed 452

If you have a flat tire..... 465

If the hybrid system will not start 474

If you lose your keys..... 476

If the electronic key does not operate properly 476

If a door cannot be opened using the door opener switch..... 478

If the 12-volt battery is discharged 480

If your vehicle overheats 485

If the vehicle becomes stuck 488

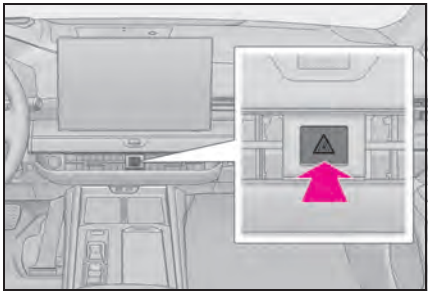
Emergency flashers

The emergency flashers are used to warn other drivers when the vehicle has to be stopped in the road due to a breakdown, etc.

Operating instructions

Press the switch to flash all of the turn signal lights.

To turn them off, press the switch once again.



n **Emergency flashers**

- If the emergency flashers are used for a long time while the hybrid system is not operating (while the "READY" indicator is not illuminated), the 12-volt battery may discharge.
- If any of the SRS airbags deploy (inflate) or in the event of a strong rear impact, the emergency flashers will turn on automatically.
  The emergency flashers will turn off automatically after operating for approximately 20 minutes. To manually turn the emergency flashers off, press the switch twice.
  (The emergency flashers may not turn on automatically depending on the force of the impact and conditions of the collision.)

If your vehicle has to be stopped in an emergency

Only in an emergency, such as if it becomes impossible to stop the vehicle in the normal way, stop the vehicle using the following procedure:

Stopping the vehicle

1 Steadily step on the brake pedal with both feet and firmly depress it.

Do not pump the brake pedal repeatedly as this will increase the effort required to slow the vehicle.

2 Change the shift position to N.

▶ If the shift position is changed to N

3 After slowing down, stop the vehicle in a safe place by the road.

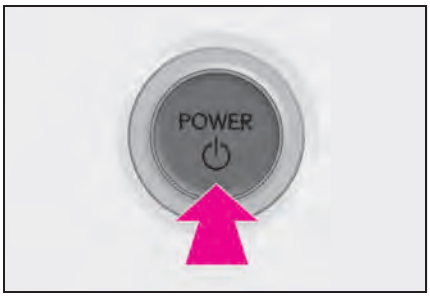
4 Stop the hybrid system.

▶ If the shift position cannot be changed to N

3 Keep depressing the brake pedal with both feet to reduce vehicle speed as much as possible.

4 To stop the hybrid system, press and hold the power switch for 2 consecutive seconds or more, or

press it briefly 3 times or more in succession.



5 Stop the vehicle in a safe place by the road.

WARNING

n If the hybrid system has to be turned off while driving

Power assist for the steering wheel will be lost, making the steering wheel heavier to turn. Decelerate as much as possible before turning off the hybrid system.

If the vehicle is submerged or water on the road is rising

This vehicle is not designed to be able to drive on roads that are deeply flooded with water. Do not drive on roads where the roads may be submerged or the water may be rising. It is dangerous to remain in the vehicle, if it is anticipated that the vehicle will be flooded or set adrift. Remain calm and follow the following.

- If the door can be opened, open the door and exit the vehicle.
- If the door cannot be opened, open the window using the power window switch and ensure an escape route.
- If the window can be opened, exit the vehicle through the window.
- If the door and window cannot be opened due to the rising water, remain calm, wait until the water level inside the vehicle rises to the point that the water pressure inside of the vehicle equals the water pressure outside of the vehicle and then open the door after waiting for the rising water to enter the vehicle, and exit the vehicle. When the outside water level exceeds half the height of the door, the door cannot be opened from the inside due to water pressure.

When the outside water level exceeds half the height of the door, the doorcannot be opened from the inside due to water pressure.

n Water level exceeds the floor

When the water level exceeds the floor and time has passed, the electrical equipment will get damaged, the power windows will not operate, the engine and motor stop, and the vehicle may not be able to get moving.

n Using an emergency escape hammer*

Laminated glass is used in the windshield and the side windows on this vehicle.

Laminated glass cannot be shattered with an emergency hammer*.

*: Contact your Lexus dealer or aftermarket accessory manufacturer for further information about an emergency hammer

WARNING

n Caution while driving

Do not drive on roads where the roads may be submerged or the water may be rising. Otherwise the vehicle may be damaged and cannot move, as well as become flooded and set adrift, which may lead to death.

If your vehicle needs to be towed

If towing is necessary, we recommend having your vehicle towed by your Lexus dealer or commercial towing service, using a wheel-lift type truck or flatbed truck.

Use a safety chain system for all towing, and abide by all state/provincial and local laws.

Situations when it is not possible to be towed by another vehicle

In the following situations, it is not possible to be towed by another vehicle using cables or chains, as the front wheels may be locked due to the parking lock. Contact your Lexus dealer or commercial towing service.

- There is a malfunction in the shift control system. (→P.165, 453)
- There is a malfunction in the immobilizer system. (→P.73)
- There is a malfunction in the smart access system with push-button start. (→P.476)
- The 12-volt battery is discharged. (→P.480)

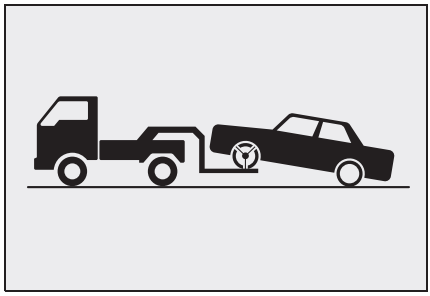
Situations when it is necessary to contact dealers before towing

The following may indicate a problem with your transmission. Contact your Lexus dealer or commercial towing service before towing.

- The hybrid system warning message is shown on the multi-information display and the vehicle does not move.
- The vehicle makes an abnormal sound.

Towing with a wheel-lift type truck

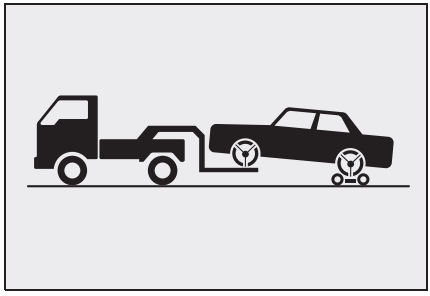
▶ From the front (2WD models)



Release the parking brake.

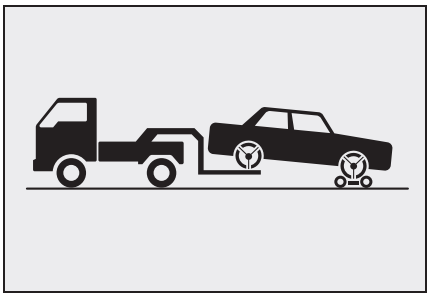
Turn automatic mode off. (→P.177)

▶ From the front (AWD models)



Use a towing dolly under the rear wheels.

▶ From the rear



Use a towing dolly under the front wheels.

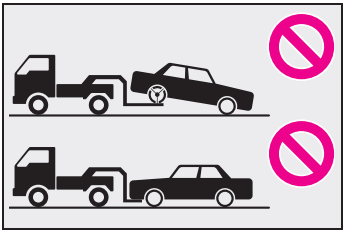
WARNING

Observe the following precautions. Failure to do so may result in death or serious injury.

n When towing the vehicle

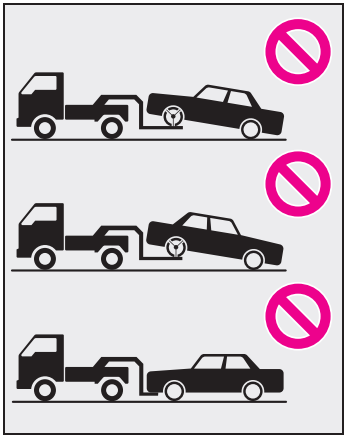
▶ 2WD models

Be sure to transport the vehicle with the front wheels raised or with all four wheels raised off the ground. If the vehicle is towed with the front wheels contacting the ground, the drivetrain and related parts may be damaged or electricity generated by the operation of the motor may cause a fire to occur depending on the nature of the damage or malfunction.



▶ AWD models

Be sure to transport the vehicle with all four wheels raised off the ground. If the vehicle is towed with the tires contacting the ground, the drivetrain or related parts may be damaged, the vehicle may fly off the truck, or electricity generated by the operation of the motor may cause a fire to occur depending on the nature of the damage or malfunction.



NOTICE

n To prevent damage to the vehicle when towing using a wheel-lift type truck

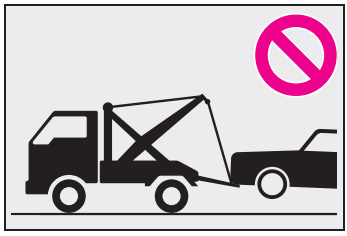
l Do not tow the vehicle from the rear when the power switch is off. The steering lock mechanism (if equipped) is not strong enough to hold the front wheels straight.

l When raising the vehicle, ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Without adequate clearance, the vehicle could be damaged while being towed.

NOTICE

n Towing with a sling-type truck

Do not tow with a sling-type truck to prevent body damage.



Using a flatbed truck

When using a flat-bed truck to transport the vehicle, use tire strapping belts. Refer to the owner's manual of the flat-bed truck for the tire strapping method.

In order to suppress vehicle movement during transportation, set the parking brake and turn the power switch off.

Emergency towing

If a tow truck is not available in an emergency, your vehicle may be temporarily towed using cables or chains secured to the emergency towing eyelet. This should only be attempted on hard surfaced roads for short distances at under 18 mph (30 km/h).

A driver must be in the vehicle to steer and operate the brakes. The vehicle's wheels, drive train, axles, steering and brakes must be in good condition.

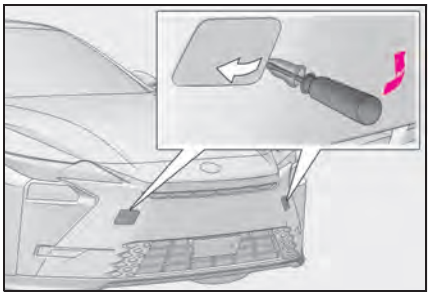
Emergency towing procedure

To have your vehicle towed by another vehicle, the towing eyelet must be installed to your vehicle. Install the towing eyelet using the following procedure.

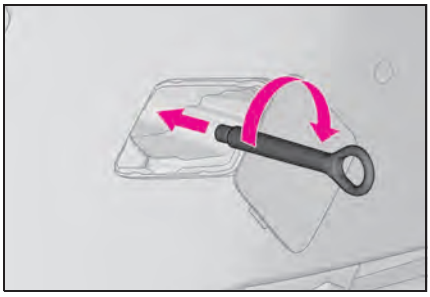
1 Take out the wheel nut wrench (if equipped) and towing eyelet. (→P.466)

2 Remove the eyelet cover using a flathead screwdriver.

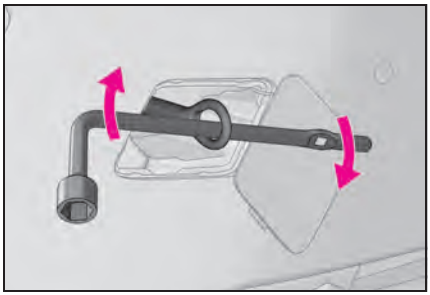
To protect the bodywork, place a rag between the screwdriver and the vehicle body as shown in the illustration.



3 Insert the towing eyelet into the hole and tighten partially by hand.



4 Tighten down the towing eyelet securely using a wheel nut wrench (if equipped) or hard metal bar.



5 Securely attach cables or chains to the towing eyelet.

Take care not to damage the vehicle body.

6 Enter the vehicle being towed and start the hybrid system.

If the hybrid system does not start, turn the power switch to ON.

7 Shift the shift position to N and release the parking brake.

Turn automatic mode off. (→P.177)

n **While towing**

If the hybrid system is off, the power assist for the brakes and steering will not function, making steering and braking more difficult.

n **Wheel nut wrench**

Wheel nut wrench (if equipped) is installed in trunk. (→P.466)

WARNING

Observe the following precautions. Failure to do so may result in death or serious injury.

n **While towing**

l When towing using cables or chains, avoid sudden starts, etc. which place excessive stress on the towing eyelets, cables or chains. The towing eyelets, cables or chains may become damaged, broken debris may hit people, and cause serious damage.

l Do not perform any of the following as doing so may cause the parking lock mechanism to engage, locking the front wheels and possibly leading to an accident resulting in death or serious injury:

- Unfasten the driver's seat belt and open the driver's door.
- Turn the power switch off.

n **Installing towing eyelets to the vehicle**

Make sure that towing eyelets are installed securely.
If not securely installed, towing eyelets may come loose during towing.

NOTICE

n **To prevent damage to the vehicle during emergency towing**

Do not secure cables or chains to the suspension components.

If you think something is wrong

If you notice any of the following symptoms, your vehicle probably needs adjustment or repair. Contact your Lexus dealer as soon as possible.

Visible symptoms

- Fluid leaks under the vehicle. (Water dripping from the air conditioning after use is normal.)
- Flat-looking tires or uneven tire wear
- Engine coolant temperature gauge continually points higher than normal.

Audible symptoms

- Changes in exhaust sound
- Excessive tire squeal when cornering
- Strange noises related to the suspension system
- Pinging or other noises related to the hybrid system

Operational symptoms

- Engine missing, stumbling or running roughly
- Appreciable loss of power
- Vehicle pulls heavily to one side when braking
- Vehicle pulls heavily to one side when driving on a level road
- Loss of brake effectiveness, spongy feeling, pedal almost touches the floor

If a warning light turns on or a warning buzzer sounds

Calmly perform the following actions if any of the warning lights comes on or flashes. If a light comes on or flashes, but then goes off, this does not necessarily indicate a malfunction in the system. However, if this continues to occur, have the vehicle inspected by your Lexus dealer.

Actions to the warning lights or warning buzzers

n Brake system warning light (warning buzzer)

Warning light	Details/Actions
BRAKE (U.S.A.) or (red) (Canada)	Indicates that: ● The brake fluid level is low; or ● The brake system is malfunctioning → **Immediately stop the vehicle in a safe place and contact your Lexus dealer. Continuing to drive the vehicle may be dangerous.**

n Brake system warning light (warning buzzer)

Warning light	Details/Actions
(yellow)	Indicates a malfunction in: ● The regenerative braking system; ● The electronically controlled brake system; or ● The parking brake system → **Have the vehicle inspected by your Lexus dealer immediately.**

n High coolant temperature warning light* (warning buzzer)

Warning light	Details/Actions
	Indicates that the engine coolant temperature is too high → **Immediately stop the vehicle in a safe place.** **Handling method (→P.485)**

*: This light illuminates on the multi-information display.

n Hybrid system overheat warning light*(warning buzzer)

Warning light	Details/Actions
	Indicates the hybrid system has overheated → **Stop the vehicle in a safe place.** **Handling method (→P.485)**

*: This light illuminates on the multi-information display.

n Charging system warning light*(warning buzzer)

Warning light	Details/Actions
	Indicates a malfunction in the vehicle's charging system → **Immediately stop the vehicle in a safe place and contact your Lexus dealer.**

*: This light illuminates on the multi-information display.

n Low engine oil pressure warning light* (warning buzzer)

Warning light	Details/Actions
	Indicates that the engine oil pressure is too low → **Immediately stop the vehicle in a safe place and contact your Lexus dealer.**

*: This light illuminates on the multi-information display.

n Malfunction indicator lamp

Warning light	Details/Actions
 (U.S.A.) or  (Canada)	Indicates a malfunction in: ● The hybrid system; ● The electronic engine control system; ● The electronic throttle control system; or ● The electronic transmission control system → **Immediately stop the vehicle in a safe place and contact your Lexus dealer.**

n SRS warning light (warning buzzer)

Warning light	Details/Actions
	Indicates a malfunction in: ● The SRS airbag system; or ● The seat belt pretensioner system → **Have the vehicle inspected by your Lexus dealer immediately.**

n Pop Up Hood warning light (warning buzzer)

Warning light	Details/Actions
	Indicates that the Pop Up Hood system has operated → **The Pop Up Hood system cannot be reused once it has operated. Have it replaced by your Lexus dealer.** Indicates a malfunction in the Pop Up Hood system → **Have the vehicle inspected by your Lexus dealer immediately.**

n ABS warning light (warning buzzer)

Warning light	Details/Actions
 (U.S.A.) or  (Canada)	Indicates a malfunction in: ● The ABS; or ● The brake assist system → **Have the vehicle inspected by your Lexus dealer immediately.**

n Inappropriate pedal operation warning light* (warning buzzer)

Warning light	Details/Actions
	When a buzzer sounds: ● Brake Override System is malfunctioning ● Drive-Start Control is malfunctioning → **Follow the instructions displayed on the multi-information display.** When a buzzer does not sound: Brake Override System is operating → **Release the accelerator pedal and depress the brake pedal.**

*: This light illuminates on the multi-information display.

n Electric power steering system warning light (warning buzzer)

Warning light	Details/Actions
 (red) or  (yellow)	Indicates a malfunction in the EPS (Electric Power Steering) system → **Have the vehicle inspected by your Lexus dealer immediately.**

n Low fuel level warning light

Warning light	Details/Actions
	Indicates that remaining fuel is approximately 2.6 gal. (10.0 L, 2.2 Imp. gal.) or less → **Refuel the vehicle.**

n Driver's and front passenger's seat belt reminder light (warning buzzer)*

Warning light	Details/Actions
	Warns the driver and/or front passenger to fasten their seat belts → **Fasten the seat belt.** **If the front passenger's seat is occupied, the front passenger's seat belt also needs to be fastened to make the warning light (warning buzzer) turn off.**

*: Driver's seat belt warning buzzer:

The driver's seat belt warning buzzer sounds to alert the driver that his or her seat belt is not fastened. Once the power switch is turned to ON, the buzzer sounds. If the seat belt is still unfastened, the buzzer sounds intermittently for a certain period of time after the vehicle reaches a certain speed.

Front passenger's seat belt warning buzzer:

The front passenger's seat belt warning buzzer sounds to alert the front passenger that his or her seat belt is not fastened. If the seat belt is unfastened, the buzzer sounds intermittently for a certain period of time after the vehicle reaches a certain speed.

n Rear passengers' seat belt reminder light (warning buzzer)*

Warning light	Details/Actions
	Warns the rear passengers to fasten their seat belts → **Fasten the seat belt.**

*: Rear passengers' seat belt warning buzzer:

The rear passengers' seat belt warning buzzer sounds to alert the rear passenger that his or her seat belt is not fastened. If the seat belt is unfastened, the buzzer sounds intermittently for a certain period of time, after the seat belt is fastened and unfastened and the vehicle reaches a certain speed.

n Tire pressure warning light (warning buzzer)

Warning light	Details/Actions
	When the light comes on (a buzzer sounds): ● Low tire inflation pressure from natural causes → **After the temperature of the tires has lowered sufficiently, check the inflation pressure of each tire and adjust them to the specified level.** ● Low tire inflation pressure from flat tire → **Immediately stop the vehicle in a safe place and perform the necessary actions.** When the light comes on after blinking for approximately 1 minute (a buzzer does not sounds): Malfunction in the tire pressure warning system → **Have the system checked by your Lexus dealer.**

n Parking Assist-Sensor OFF indicator

Warning light	Details/Actions
 (if equipped)	Indicates a malfunction in the Parking Assist-Sensor function → **Have the vehicle inspected by your Lexus dealer immediately.** Indicates that the system is temporarily unavailable, possibly due to a sensor being dirty or covered with ice, etc. → **Follow the instructions displayed on the multi-information display.** (→P.452)

n PCS warning light (warning buzzer)

Warning light	Details/Actions
	Indicates a malfunction in the Pre-Collision System (PCS). → **Follow the instructions displayed on the multi-information display.** If the Pre-Collision System (PCS) system is disabled or have limited functionality, the PCS warning light will illuminate.

n PKSB OFF indicator

Warning light	Details/Actions
 (if equipped)	Indicates a malfunction in the PKSB (Parking Support Brake) system → **Have the vehicle inspected by your Lexus dealer immediately.** Indicates that the system is temporarily unavailable, possibly due to a sensor being dirty or covered with ice, etc. → **Follow the instructions displayed on the multi-information display.** (→P.452)

n LTA indicator (warning buzzer)

Warning light	Details/Actions
 (yellow)	Indicates a malfunction in the Lane Tracing Assist (LTA). → **Follow the instructions displayed on the multi-information display.**

n LDA indicator (warning buzzer)

Warning light	Details/Actions
 (yellow)	Indicates a malfunction in the Lane Departure Alert (LDA). → **Follow the instructions displayed on the multi-information display.**

n Dynamic radar cruise control indicator (warning buzzer)

Warning light	Details/Actions
 (yellow)	Indicates a malfunction in the dynamic radar cruise control. → **Follow the instructions displayed on the multi-information display.**

n Cruise control indicator (warning buzzer)

Warning light	Details/Actions
 (yellow)	Indicates a malfunction in the cruise control. → **Follow the instructions displayed on the multi-information display.**

n Dynamic radar cruise control eco run mode indicator (warning buzzer)

Warning light	Details/Actions
 (yellow)	Indicates a malfunction in the dynamic radar cruise control eco run mode. → **Follow the instructions displayed on the multi-information display.**

n Driving assist warning light

Warning light	Details/Actions
	Indicates either of the following systems may be malfunctioning. ● RCD (Rear Camera Detection)* ● EDSS (Emergency Driving Stop System) ● Driver break suggestion ● BSM (Blind Spot Monitor) ● RCTA (Rear cross traffic alert) ● Safe Exit Assist (with door opening control) → **Follow the instructions displayed on the multi-information display.**

*: If equipped

n Driver Monitor warning light (warning buzzer)

Warning light	Details/Actions
 (if equipped)	Indicates a malfunction in the driver monitor warning function. → **Follow the instructions displayed on the multi-information display.**

n Slip indicator

Warning light	Details/Actions
 (illuminates)	Indicates a malfunction in: ● The VSC system; ● The TRAC system; ● The hill-start assist control system → **Have the vehicle inspected by your Lexus dealer immediately.**

n Parking brake indicator (warning buzzer)

Warning light	Details/Actions
PARK (flashes) (U.S.A.) or (P) (flashes) (Canada)	It is possible that the parking brake is not fully engaged or released → **Operate the parking brake switch once again.** This light comes on when the parking brake is not released. If the light turns off after the parking brakes is fully released, the system is operating normally. Indicates a malfunction in the parking brake system → **Have the vehicle inspected by your Lexus dealer immediately.**

n Brake hold operated indicator (warning buzzer)

Warning light	Details/Actions
HOLD (flashes)	Indicates a malfunction in the brake hold system → **Have the vehicle inspected by your Lexus dealer immediately.**

n Warning buzzer

In some cases, the buzzer may not be heard due to being in a noisy location or audio sound.

n Front passenger detection sensor, seat belt reminder and warning buzzer

- If luggage is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash and the warning buzzer to sound even if a passenger is not sitting in the seat.
- If a cushion is placed on the seat, the sensor may not detect a passenger, and the warning light may not operate properly.

n SRS warning light

This warning light indicates problems with the following:

- Airbag sensor assembly
- Front impact sensors
- Side impact sensors (front door)
- Side impact sensors (front)
- Front passenger occupant classification sensors
- Driver's seat position sensor
- Front passenger's seat belt buckle switch
- "AIR BAG ON" indicator light
- "AIR BAG OFF" indicator light
- Seat belt pretensioners
- SRS airbags
- SRS system related wiring harnesses and power sources

n If the malfunction indicator lamp comes on while driving

First check the following:

- Is the fuel tank empty?
  If it is, fill the fuel tank immediately.
- Is the fuel tank cap loose?
  If it is, tighten it securely.

The light will go off after several driving trips.

If the light does not go off even after several trips, contact your Lexus dealer as soon as possible.

n Electric power steering system warning light (warning buzzer)

When the 12-volt battery charge becomes

insufficient or the voltage temporarily drops, the electric power steering system warning light may come on and the warning buzzer may sound.

n **When the tire pressure warning light comes on**

Inspect the tires to check if a tire is punctured.

If a tire is punctured: →P.465

If none of the tires are punctured:
Turn the power switch off then turn it to ON. Check if the tire pressure warning light comes on or blinks.

▶ If the tire pressure warning light blinks for approximately 1 minute then stays on

There may be a malfunction in the tire pressure warning system. Have the vehicle inspected by your Lexus dealer immediately.

▶ If the tire pressure warning light comes on

After the temperature of the tires has lowered sufficiently, check the inflation pressure of each tire and adjust them to the specified level.

If the warning light does not turn off even after several minutes have elapsed, check that the inflation pressure of each tire is at the specified level and perform the tire inflation pressure setting procedure. (→P.409)

If the warning light does not turn off even after several minutes have elapsed since performing the tire inflation pressure setting procedure, have the vehicle inspected by your Lexus dealer immediately.

n **The tire pressure warning light may come on due to natural causes**

The tire pressure warning light may come on due to natural causes such as natural air leaks and tire inflation pressure changes caused by temperature. In this case, adjusting the tire inflation pressure will turn off the warning light (after a few minutes).

n **Conditions that the tire pressure warning system may not function properly**

→P.407

WARNING

n **If both the ABS and the brake system warning lights remain on**

Stop your vehicle in a safe place immediately and contact your Lexus dealer.
The vehicle will become extremely unstable during braking, and the ABS system may fail, which could cause an accident resulting in death or serious injury.

n **When the electric power steering system warning light comes on**

When the light comes on yellow, the assist to the power steering is restricted.
When the light comes on red, the assist to the power steering is lost and handling operations of the steering wheel become extremely heavy.
When steering wheel operations are heavier than usual, grip the steering wheel firmly and operate it using more force than usual.

n **If the tire pressure warning light comes on**

Be sure to observe the following precautions.
Failure to do so could cause a loss of vehicle control and result in death or serious injury.

- Stop your vehicle in a safe place as soon as possible. Adjust the tire inflation pressure immediately.
- If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Check the tires. If a tire is flat, repair the flat tire by using emergency tire puncture repair kit.
- Avoid abrupt maneuvering and braking.
  If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.

WARNING

n If a blowout or sudden air leakage should occur

The tire pressure warning system may not activate immediately.

n Maintenance of the tires

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label (tire and load information label). (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label [tire and load information label], you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS-tire pressure warning system) that illuminates a low tire pressure telltale (tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (tire pressure warning light) illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS (tire pressure warning system) is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale (tire pressure warning light).

Your vehicle has also been equipped with a TPMS (tire pressure warning system) malfunction indicator to indicate when the system is not operating properly. The TPMS (tire pressure warning system) malfunction indicator is combined with the low tire pressure telltale (tire pressure warning light). When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

TPMS (tire pressure warning system) malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS (tire pressure warning system) from functioning properly. Always check the TPMS (tire pressure warning system) malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS (tire pressure warning system) to continue to function properly.

NOTICE

n To ensure the tire pressure warning system operates properly

Do not install tires with different specifications or makers, as the tire pressure warning system may not operate properly.

If a warning message is displayed

The multi-information display shows warnings for system malfunctions and incorrectly performed operations, and messages that indicate a need for maintenance. When a message is displayed, perform the appropriate corrective action for the message.

If a warning message is displayed again after the appropriate actions have been performed, contact your Lexus dealer.

Additionally, if a warning light comes on or flashes at the same time that a warning message is displayed, take the appropriate corrective action for the warning light. (→P.442)

n Warning messages

The warning messages explained below may differ from the actual messages according to operation conditions and vehicle specifications.

n Warning buzzer

In some cases, the buzzer may not be heard due to being in a noisy location or audio sound.

Messages and warnings

n If "Engine Oil Level Low Add or Replace" is displayed

Cause	Actions
The engine oil level may be low.	Check the level of the engine oil, and add engine oil if necessary. (→P.397) This message may be displayed if the vehicle is stopped on a slope. Move the vehicle to a level surface and check if the message disappears.

n If "Hybrid System Stopped Steering Power Low" is displayed

Cause	Actions
This message is displayed if the hybrid system is stopped while driving.	When steering wheel operations are heavier than usual, grip the steering wheel firmly and operate it using more force than usual.

n If "Power Reduced to Lower Engine Temp" is displayed

Cause	Actions
This message may be displayed when the engine coolant temperature is high. At that time, the engine power output is reduced until the temperature decreases to the specified level.	It is still possible to continue driving normally, meanwhile the acceleration performance or vehicle speed may be lowered. After driving for a while and the engine coolant temperature is dropped, this message will disappear and engine power output will resume once the engine coolant temperature has decreased to normal. If after driving for a while the message does not disappear or it comes on and off frequently, contact your Lexus dealer.

n If "Auto Power OFF to Conserve Battery" is displayed

Cause	Actions
Power was turned off due to the automatic power off function.	Next time when starting the hybrid system, operate the hybrid system for approximately 5 minutes to recharge the 12-volt battery.

n If "Shift is in N Release Accelerator Before Shifting" is displayed

Cause	Actions
The accelerator pedal has been depressed when the shift position is in N.	Release the accelerator pedal and change the shift position to D, S or R.

n If "Press brake when vehicle is stopped Hybrid system may overheat" is displayed

Cause	Actions
The message may be displayed when the accelerator pedal is depressed to hold the vehicle while the vehicle is stopped on an incline, etc.	The hybrid system may overheat. Release the accelerator pedal and depress the brake pedal.

n If "12-Volt Battery Charging System Malfunction Stop in a Safe Place See Owner's Manual" is displayed

Cause	Actions
It may indicate a malfunction.	Immediately stop the vehicle and contact your Lexus dealer. Continuing to drive the vehicle may be dangerous.

n If "Traction battery needs to be protected. Shift into P to restart." is displayed

Cause	Actions
This message is displayed when the hybrid battery (traction battery) charge has become extremely low because the vehicle has been left with the N shift position selected for a certain amount of time.	When operating the vehicle, shift to P and restart the hybrid system.

n If "Traction battery needs to be protected. Refrain from the use of N position." is displayed

Cause	Actions
This message may be displayed when the shift position is in N.	As the hybrid battery (traction battery) cannot be charged when the shift position is in N, shift the shift position to P when the vehicle is stopped.

n If "Hybrid System Overheated Output Power Reduced" is displayed

Cause	Actions
This message may be displayed when driving under severe operating conditions. (For example, when driving up a long steep hill.)	→P.485

n If "Tire Set Switching Incomplete Try Tire Set Registration Again See Owner's Manual" is displayed

Cause	Actions
The wheel set change could not be completed.	Check which wheel set is installed and perform the change procedure again from the beginning.

n If "Maintenance Required For Traction Battery At Your Dealer" is displayed

Cause	Actions
The hybrid battery (traction battery) is scheduled to be inspected or replaced.	Have the vehicle inspected by your Lexus dealer immediately. • Continuing to drive the vehicle without having the hybrid battery (traction battery) inspected will cause the hybrid system not to start. • If the hybrid system does not start, contact your Lexus dealer immediately.

n If "Headlight System Malfunction Visit Your Dealer" is displayed

Cause	Actions
The following systems may be malfunctioning. • The LED headlight system	Have the vehicle inspected by your Lexus dealer immediately.

n If "Engine Coolant Temp High Stop in a Safe Place See Owner's Manual" is displayed

Actions
→P.485

n If "Access System with Elec.Key malfunction See owner's manual" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle checked by your Lexus dealer immediately.

n If "Braking Power Low Stop in a Safe Place See Owner's Manual" is displayed

Cause	Actions
It may indicate a malfunction.	Immediately stop the vehicle and contact your Lexus dealer. Continuing to drive the vehicle may be dangerous.

n If "Oil pressure low Stop in a safe place See owner's manual" is displayed

Cause	Actions
It may indicate a malfunction.	Immediately stop the vehicle and contact your Lexus dealer. Continuing to drive the vehicle may be dangerous.

n If "High Power Consumption Power to Climate Temporarily Limited" is displayed

Cause	Actions
If this message is displayed frequently, there is a possible malfunction relating to the charging system or the 12-volt battery may be deteriorating.	Have the vehicle checked by your Lexus dealer.

n If a message that indicates the need for visiting your Lexus dealer is displayed

Cause	Actions
The system or part shown on the multi-information display is malfunctioning.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Maintenance Required for Traction Battery Cooling Parts See Owner's Manual" is displayed

Cause	Actions
The air intake vent or filter of the hybrid battery (traction battery) may be clogged, the air intake vent may be blocked, or there may be a gap in the duct.	• If the air intake vent or filter of the hybrid battery (traction battery) is dirty, clean them. (→P.423) • If the warning message is shown when the air intake vent and filter the hybrid battery (traction battery) are not dirty, have the vehicle inspected at your Lexus dealer.

n If "Press Brake Pedal and Touch  Symbol on the Console Box With Electronic Key See Owner's Manual" is displayed

Cause	Actions
The vehicle system is unable to detect the electronic key.	Start the hybrid system by using the procedure on P.477.

n If "Shift System Malfunction Shifting Unavailable Drive to a Safe Place and Stop" is displayed

Cause	Actions
There is a malfunction in the shift control system.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Shift System Malfunction Driving Unavailable" is displayed

Cause	Actions
There is a malfunction in the shift control system.	Have the vehicle inspected by your Lexus dealer immediately.

n If a message that indicates the need for the shift lever operation is displayed

Cause	Actions
To prevent the shift lever from being operated incorrectly or the vehicle from moving unexpectedly, a message that requires shifting the shift position may be displayed on the multi-information display.	Follow the instruction of the message and shift the shift position.

n If "Shift System Malfunction Apply Parking Brake Securely When Parking See Owner's Manual" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "P Switch Malfunction Apply Parking Brake Securely When Parking See Owner's Manual" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Shift System Unavailable Apply Parking Brake Securely When Parking See Owner's Manual" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Shift System Malfunction See Owner's Manual" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Shift System Malfunction Stop in a Safe Place See Owner's Manual" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Battery Low Shifting Unavailable See Owner's Manual" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Oil Maintenance Required Soon" is displayed

Cause	Actions
Indicates that all maintenance according to the driven distance on the maintenance schedule* should be performed soon.	Comes on approximately 4500 miles (7200 km) after the message has been reset. If necessary, perform maintenance. Please reset the message after the maintenance is performed. (→P.387)

*: Refer to the separate "Scheduled Maintenance" or "Owner's Manual Supplement" for the maintenance interval applicable to your vehicle.

n If "Oil Maintenance Required Visit Your Dealer" is displayed

Cause	Actions
Indicates that all maintenance is required to correspond to the driven distance on the maintenance schedule*.	Comes on approximately 5000 miles (8000 km) after the message has been reset. (The indicator will not work properly unless the message has been reset.) Perform the necessary maintenance. Please reset the message after the maintenance is performed. (→P.387)

*: Refer to the separate "Scheduled Maintenance" or "Owner's Manual Supplement" for the maintenance interval applicable to your vehicle.

n If "Engine Service Required Visit Your Dealer" is displayed

Cause	Actions
The engine or an engine component is malfunctioning.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Vehicle Exit Assist Deactivated Be Careful When Exiting Vehicle" is displayed

Cause	Actions
The safe exit assist function may temporarily stop.	Be careful of approaching vehicles when exiting the vehicle.

n If "Vehicle Exit Assist Deactivated" is displayed

Cause	Actions
After the power switch is turned off, a message may be displayed when the secure exit assist operation conditions are no longer met.	→P.270

n If a message regarding the driving support system is displayed

Cause	Actions
The icon that indicates the system disabled or a malfunction appears with a message. • PCS (Pre-Collision System) • LDA (Lane Departure Alert) • LTA (Lane Tracing Assist) • LCA (Lane Change Assist)* • AHB (Automatic High Beam) • Dynamic radar cruise control • Cruise control • Dynamic radar cruise control eco run mode • RSA (Road Sign Assist) • PDA (Proactive Driving Assist) • FCTA (Front Cross Traffic Alert)* • Traffic Jam Assist* • Emergency Driving Stop System • Driver break suggestion • BSM (Blind Spot Monitor) • RCTA (Rear Cross Traffic Alert) • Safe Exit Assist • Parking Assist-Sensor* • PKSB (Parking Support Brake)* • RCD (Rear Camera Detection)* • Driver Monitor*	Have the vehicle inspected by your Lexus dealer immediately.

*: If equipped

n If "System Malfunction Visit Your Dealer" is displayed

Actions
Have the vehicle inspected by your Lexus dealer immediately.

n If "System Stopped See Owner's Manual" is displayed

Actions
Follow the following correction methods. • Check the voltage of the 12-volt battery • Check the sensors that the Lexus Safety System+ 4.0 uses for foreign matter covering them. Remove them if any. (→P.199) • Check the situations in which the sensors may not operate properly, and improve the situation if applicable. (→P.268, 272, 277, 286, 290) • Check the sensors including camera sensors for foreign matter covering them. Remove them if any. (→P.265, 274,309) • When problems are solved and the sensors are operational, this indication may disappear by itself.

n If "System Stopped Front Camera Low Visibility See Owner's Manual" is displayed

Actions
Follow the following correction methods. • Using the windshield wipers, remove the dirt or foreign matter from the windshield. • Using the air conditioning system, defog the windshield. • Close the hood, remove any stickers, etc. to clear the obstruction in front of the front camera.

n If "System Stopped Front Camera Out of Temperature Range Wait until Normal Temperature" is displayed

Actions
Follow the following correction methods. • If the front camera is hot, such as after the vehicle is parked in the sun, use the air conditioning system to decrease the temperature around the front camera. • If a sunshade was used when the vehicle was parked, depending on its type, the sunlight reflected from the surface of the sunshade may cause the temperature of the front camera to become excessively high. • If the front camera is cold, such after the vehicle is parked in an extremely cold environment, use the air conditioning system to increase the temperature around the front camera.

n If "System Stopped Front Radar Sensor Blocked Clean Radar Sensor" is displayed

Actions
Follow the following correction methods. • Check if there is any foreign matter attached to the radar sensor or radar sensor cover and clean them if necessary. (→P.200) • This message may be displayed when driving in an open area with few nearby vehicles or structures, such as a desert, grasslands, suburbs, etc. The message may be cleared by driving the vehicle in an area with structures, vehicles, etc. nearby.

n If "System Stopped Front Radar Sensor Out of Temperature Range Wait until Normal Temperature" is displayed

Actions
The temperature of the radar sensor is outside of the operating range. Wait for the temperature to become appropriate.

n If "System Stopped Front Radar In Self Calibration See Owner's Manual" is displayed

Actions
Follow the following correction methods. • Check if there is any foreign matter attached to the radar sensor or radar sensor cover and clean them if necessary. (→P.200) • The radar sensor may be misaligned and will be adjusted automatically while driving. Continue driving for a while.

n If "System Stopped Due to Battery Disconnection Continue Driving to Complete Self Calibration" is displayed

Actions
The steering angle neutral point may be initialized and will be automatically adjusted while driving. Please continue driving for a while.

n If "System Stopped Driver Monitor Out of Temperature Range Wait until Normal Temperature" is displayed (on some models)

Actions
The temperature of the driver monitor camera is outside of the operating range. Wait for the temperature to become appropriate.

n If "System Stopped Driver Monitor Camera Blocked See Owner's Manual" is displayed (on some models)

Actions
The lens of the driver monitor camera may be dirty. When there is dirt on the camera lens, clean it with a dry, soft cloth so as to not damage it.

n If "Unavailable Activation Condition not Satisfied See Owner's Manual" is displayed (on some models)

Actions
The LCA function cannot be used as the operating conditions have not been met. (→P.224) Operate the turn signal lever again after the following operating conditions are met. • The system detects a broken white line on the side which the lane change is to be performed. • The system has detected a moving object behind the vehicle at least once since the engine was started.

n If "Parking Assist Unavailable Sensor Blocked" is displayed

Actions
A sensor may be covered with water drops, ice, snow, dirt, etc. Remove the water drops, ice, snow, dirt, etc., from the sensor to return the system to normal. Also, due to ice forming on a sensor at low temperatures, a warning message may be displayed or the sensor may not be able to detect an object. Once the ice melts, the system will return to normal. If a sensor is dirty, the position of the dirty sensor will be shown on the display. If an abnormality is displayed even though there are no water drops, ice, snow or dirt, the sensor may be operating abnormally. Have the vehicle inspected by your Lexus dealer.

n If "Parking Assist Unavailable Low Visibility See Owner's Manual" is displayed (on some models)

Actions
Remove any dirt or foreign matter from the rear camera or side cameras. Even after the dirt is removed, it will take a certain time for restart system.

n If "Hybrid System Malfunction" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Accelerator System Malfunction" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Traction battery system malfunction" is displayed

Cause	Actions
It may indicate a malfunction.	Have the vehicle inspected by your Lexus dealer immediately.

n If "Hybrid System Stopped" is displayed

Cause	Actions
The vehicle may have run out of fuel.	Stop the vehicle in a safe place and, if the fuel level is low, refuel the vehicle.

n If "Engine stopped No Fuel" is displayed

Cause	Actions
The vehicle may have run out of fuel.	Stop the vehicle in a safe place and, if the fuel level is low, refuel the vehicle.

n If "Regenerative braking limited. Press brake to decelerate" is displayed

Cause	Actions
Regenerative braking may be restricted in the following situations. • When electrical energy cannot be regenerated any more as the traction battery is fully charged • When the temperature of the traction battery is extremely high or extremely low • When the temperature of the traction battery is extremely high or extremely low	Firmly depress the brake pedal to decelerate the vehicle.

If you have a flat tire

Your vehicle is not equipped with a spare tire, but instead is equipped with an emergency tire puncture repair kit.

A puncture caused by a nail or screw passing through the tire tread can be repaired temporarily with the emergency tire puncture repair kit. (The kit contains a bottle of sealant. The sealant can be used only once to temporarily repair one tire without removing the nail or screw from the tire.)

After temporarily repairing the tire with the kit, have the tire repaired or replaced by your Lexus dealer.

WARNING

n If you have a flat tire

Do not continue driving with a flat tire.

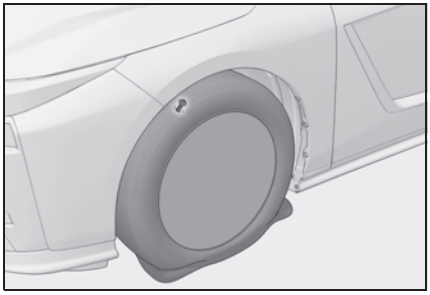
- Driving even a short distance with a flat tire can damage the tire and the wheel beyond repair.
- Driving with a flat tire may cause a circumferential groove on the side wall. In such a case, the tire may explode when using the emergency tire puncture repair kit, resulting in death or serious injury.

Before repairing the vehicle

- Stop the vehicle in a safe place on a hard, flat surface.
- Set the parking brake.
- Shift the shift position to P.
- Stop the hybrid system.
- Turn on the emergency flashers. (→P.434)
- Check the degree of the tire damage.

A tire should only be repaired with the emergency tire puncture repair kit if the damage is caused by a nail or screw passing through the tire tread.

- Do not remove the nail or screw from the tire. Removing the object may widen the opening and disenable emergency repair with the kit.
- To avoid sealant leakage, move the vehicle until the area of the puncture, if known, is positioned at the top of the tire.



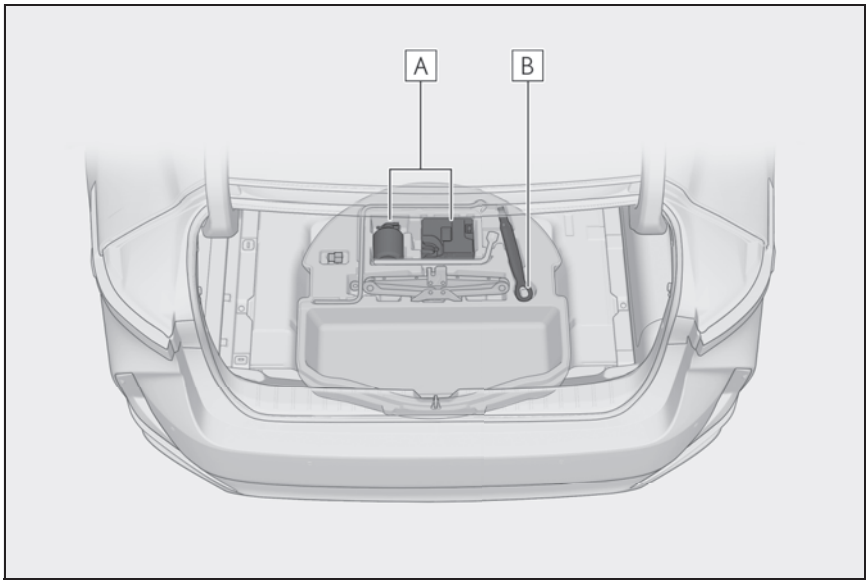
n A flat tire that cannot be repaired with the emergency tire puncture repair kit

In the following cases, the tire cannot be repaired with the emergency tire puncture repair kit. Contact your Lexus dealer.

- When the tire is damaged due to driving without sufficient air pressure
- When the tire lost air pressure due to a crack or damage in the tire sidewall
- When the tire is visibly separated from the wheel
- When the cut or damage to the tread is 0.16 in. (4 mm) long or more
- When the wheel is damaged

- When two or more tires have been punctured
- When there is more than one hole or cut in the damaged tire
- When the sealant has expired

Location of the emergency tire puncture repair kit and tools

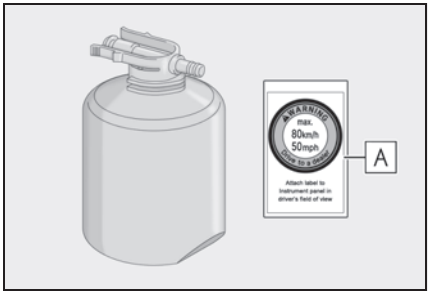


A Emergency tire puncture repair kit

B Towing eyelet

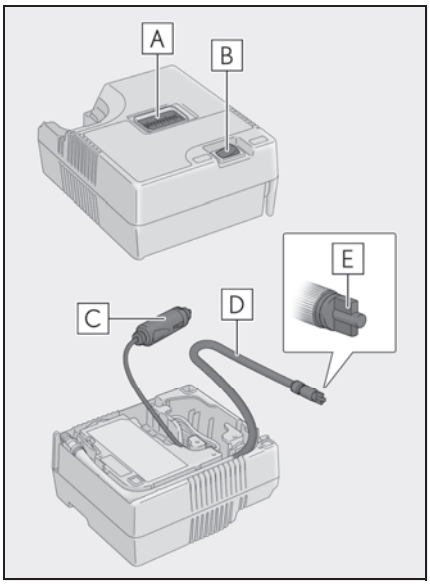
Emergency tire puncture repair kit components

n **Bottle**



A Sticker

n Compressor



A Air pressure gauge

B Compressor switch

C Power plug

D Hose

E Air release cap

n Emergency tire puncture repair kit

- The sealant stored in the emergency tire puncture repair kit can be used only once to temporarily repair a single tire. If the sealant in the bottle and other parts of the kit have been used and need to be replaced, contact your Lexus dealer.
- The compressor can be used repeatedly.
- The sealant can be used when the outside temperature is from -22°F (-30°C) to 140 °F (60 °C).
- The kit is exclusively designed for size and type of tires originally installed on your vehicle. Do not use it for tires that a different size than the original ones, or for any other purposes.
- If the sealant gets on your clothes, it may stain.
- If the sealant adheres to a wheel or the surface of the vehicle body, the stain may not be removable if it is not cleaned at once. Immediately wipe away the sealant with a wet cloth.
- During operation of the repair kit, a loud operation noise is produced. This does not indicate a malfunction.
- Do not use to check or to adjust the tire pressure.

n Note for checking the emergency tire puncture repair kit

- Check the sealant expiry date occasionally. The expiry date is shown on the bottle.
- Do not use sealant whose expiry date has already passed. Otherwise, repairs conducted using the emergency tire puncture repair kit may not be performed properly.
- Replace the liquid sealant bottle of the emergency tire puncture repair kit before it's expiration date. For information on replacement, contact your Lexus dealer.

WARNING

n Caution while driving

Observe the following precautions. Failure to do so may cause an accident.

- The emergency tire puncture repair kit is made exclusively for your vehicle. Do not use it on other vehicles.
- Do not use the emergency tire puncture repair kit for tires that are a different size than the specified ones or for any other purpose. Doing so may cause the tires to not be repaired properly.

n Precautions for use of the sealant

- Ingesting the sealant is hazardous to your health. If you ingest sealant, consume as much water as possible, then immediately consult a doctor.
- If sealant gets in eyes or adheres to skin, immediately wash it off with water. If discomfort persists, consult a doctor.

Taking out the emergency tire puncture repair kit

1 Remove the luggage mat.

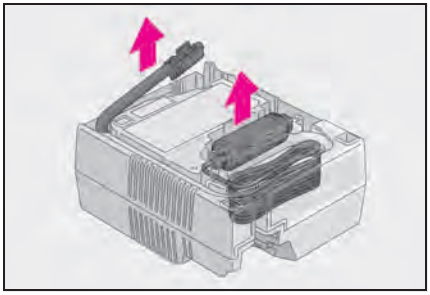
2 Take out the emergency tire puncture repair kit.

Emergency repair procedure

1 Take out the repair kit from the plastic bag.

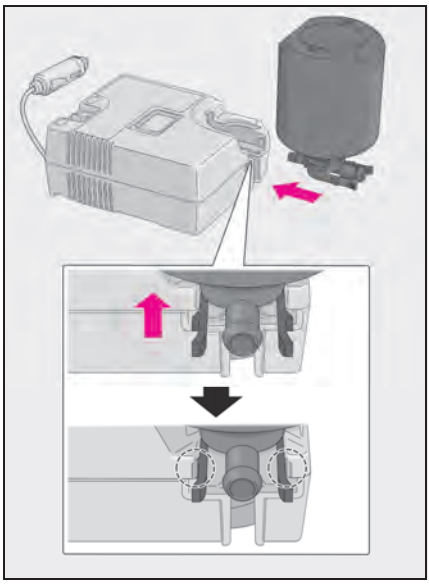
Attach the sticker enclosed with the bottle on the specified locations. (See step **10**.)

2 Remove the hose and take out the power plug from the compressor.



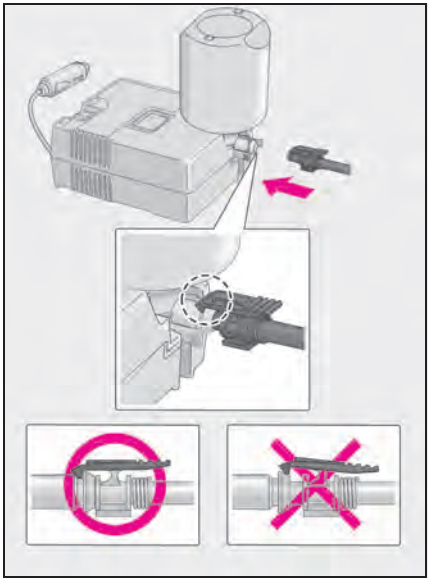
3 Connect the bottle to the compressor.

Insert and connect the bottle straight into the compressor as shown in the illustration, and check that the claws of the bottle are concealed in the holes.

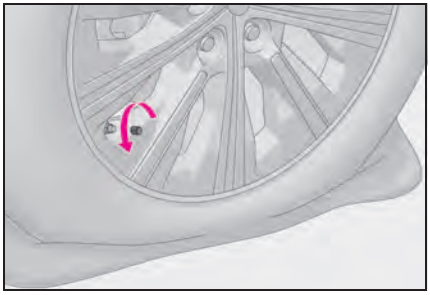


4 Connect the hose to the bottle.

As shown in the illustration, make sure the hose is connected securely to the bottle.

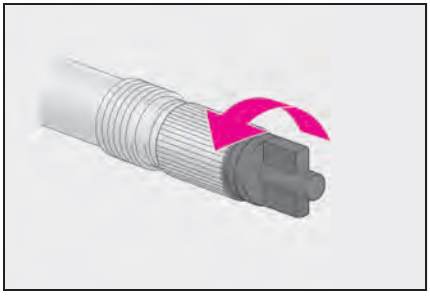


5 Remove the valve cap from the valve of the punctured tire.



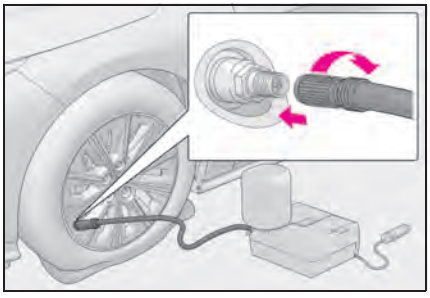
6 Extend the hose. Remove the air release cap from the hose.

You will use the air release cap again. Therefore keep it in a safe place.

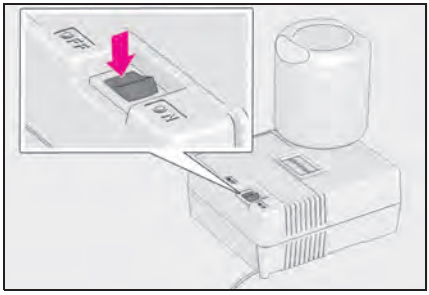


7 Connect the hose to the valve.

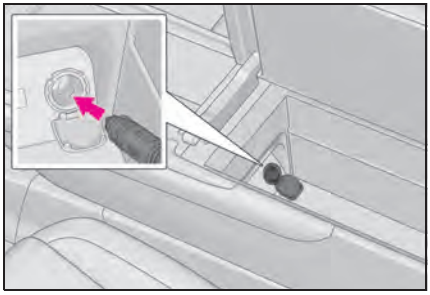
Screw the end of the hose clockwise as far as possible.



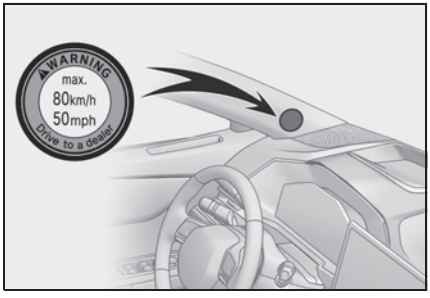
8 Make sure that the compressor switch is off.



9 Connect the power plug to the power outlet socket. (→P.361)



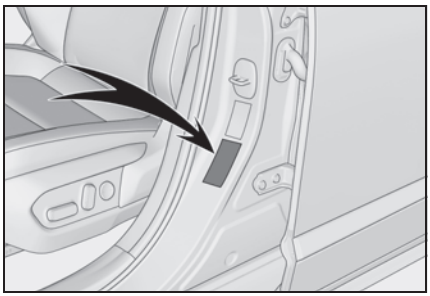
10 Attach the sticker provided with the tire puncture repair kit to a position easily seen from the driver's seat.



11 Check the specified tire inflation pressure.

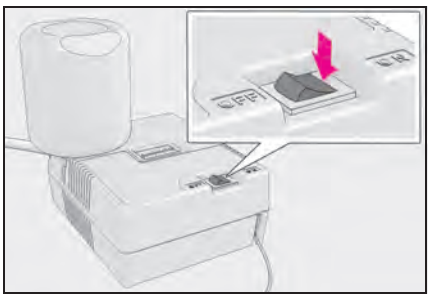
Tire inflation pressure is specified on the

label as shown. (→P.497)

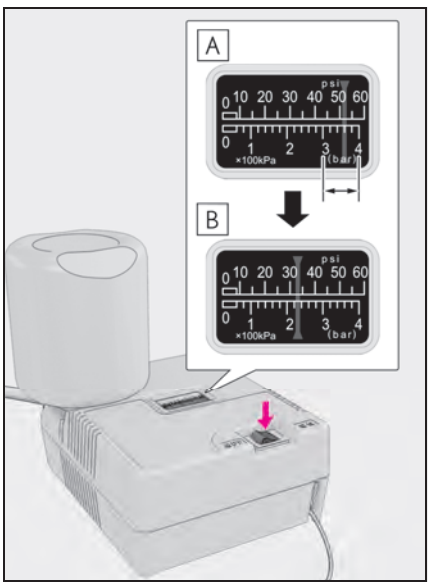


12 Start the hybrid system. (→P.163)

13 To inject the sealant and inflate the tire, turn the compressor switch on.



14 Inflate the tire until the recommended pressure is reached.



A The tire pressure gauge will temporarily rise to 44-58 psi (300-400 kPa, 3.0-4.0 kg/cm^{2}or bar) and then gradually decrease.

B Approximately 1-5 minutes after the switch is turned on, the tire pressure gauge will display the actual tire inflation pressure.

When checking the tire inflation pressure, turn the compressor switch off. In order to not over inflate the tire, check the tire inflation pressure multiple times while inflating the tire.

It takes approximately 5-20 minutes (depending on ambient temperature) to inflate the tire to the specified tire inflation pressure. If the specified tire inflation pressure is not reached after 25 minutes or more, the tire cannot be repaired. Turn the compressor switch off and contact your Lexus dealer.

If the tire inflation pressure exceeds the specified air pressure, let out some air to adjust the tire inflation pressure. (→P.472)

15 Make sure that the compressor switch is off and then disconnect the power plug from the power outlet and the hose from the valve of the tire.

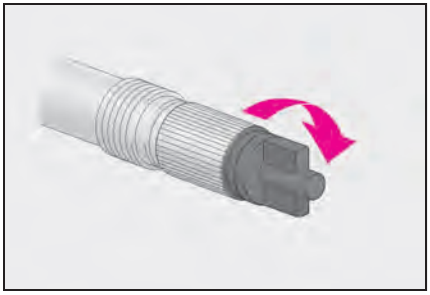
Some sealant may leak when the hose is removed.

16 Install the valve cap onto the valve of the emergency repaired tire.

17 Attach the air release cap to the end of the hose.

If the air release cap is not installed, liquid sealant may leak onto clothing, the vehicle,

etc.

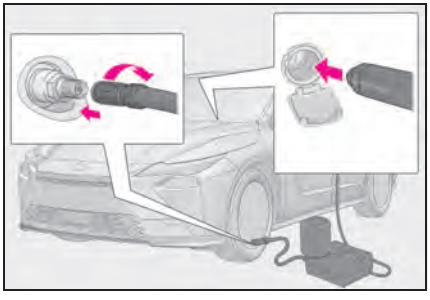


18 Temporarily store the bottle in the trunk while it is connected to the compressor.

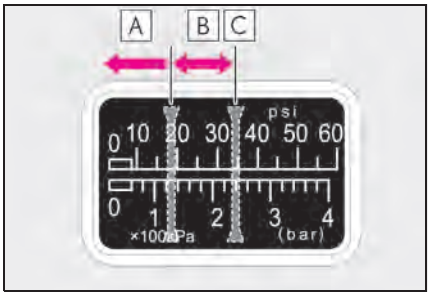
19 To ensure the liquid sealant is distributed evenly within the tire, safely drive the vehicle approximately 3 miles (5 km) at 50 mph (80 km/h) or less immediately.

20 After driving, park the vehicle on a level surface and connect the emergency tire puncture repair kit again.

Before connecting the hose, be sure to remove the air release cap.



21 Turn the compressor switch on for a few seconds and then turn it off and check the tire inflation pressure.



A If the tire inflation pressure is under 19 psi (130 kPa, 1.3 kgf/cm^2 or bar): The puncture cannot be repaired. Contact your Lexus dealer.

B If the tire inflation pressure is 19 psi (130 kPa, 1.3 kgf/cm^2 or bar) or higher, but less than the specified air pressure: Proceed to step **22**.

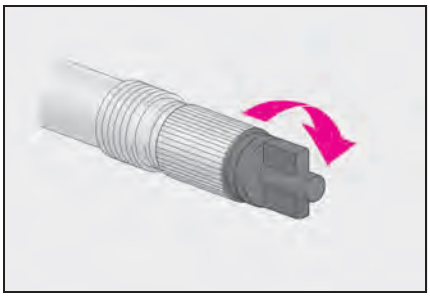
C If the tire inflation pressure is the specified air pressure (→P.497): Proceed to step **23**.

22 Turn the compressor switch on to inflate the tire until the specified air pressure is reached. Drive for about 3 miles (5 km) and then perform step **20**.

23 Attach the air release cap to the end of the hose.

If the air release cap is not installed, liquid sealant may leak onto clothing, the vehicle,

etc.



24 Store the bottle in the trunk while it is connected to the compressor.

25 Carefully drive the vehicle at a speed of 50 mph (80 km/h) or less to a Lexus dealer within 62 miles (100 km), taking care to avoid sudden braking, acceleration and steering inputs.

When having the tire repaired or replaced at a Lexus dealer, be sure to inform them that the emergency tire puncture repair kit has been used.

n **After a tire is repaired with the emergency tire puncture repair kit**

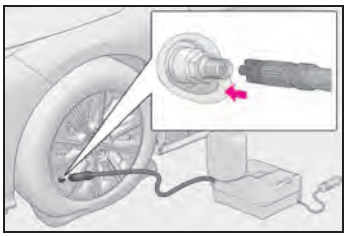
l The tire pressure warning valve and transmitter should be replaced.

l Even if the tire inflation pressure is at the recommended level, the tire pressure warning light may come on/flash.

n **If the tire is inflated to more than the specified air pressure**

1 Disconnect the hose from the valve.

2 Install the air release cap to the end of the hose and push the protrusion on the air release cap into the valve to let some air out.



3 Disconnect the hose from the valve, remove the air release cap from the hose and then reconnect the hose.

4 Turn the compressor switch on for a few seconds and then turn it off and check the tire inflation pressure.

If the tire inflation pressure is lower than the specified tire inflation pressure, turn the compressor switch on and increase the tire inflation pressure until it reaches the specified value.

n **When disposing of the liquid sealant**

The liquid sealant contains materials which are harmful to the environment.
When disposing of liquid sealant or a liquid sealant bottle, contact your Lexus dealer or contact your local government for information on the appropriate authorized waste disposal method.

WARNING

n **When fixing the flat tire**

l Stop your vehicle in a safe and flat area.

l Do not touch the wheels or the area around the brakes immediately after the vehicle has been driven.
After the vehicle has been driven, the wheels and the area around the brakes may be extremely hot. Touching these areas with hands, feet or other body parts may result in burns.

l Connect the valve and hose securely with the tire installed on the vehicle.
If the hose is not properly connected to the valve, air leakage may occur or sealant may be sprayed out.

WARNING

- If the hose comes off the valve while inflating the tire, there is a risk that the hose will move abruptly due to air pressure.
- After inflation of the tire has completed, the sealant may splatter when the hose is disconnected or some air is let out of the tire.
- Follow the operation procedure to repair the tire. If the procedure is not followed, the sealant may spray out.
- Keep back from the tire while it is being repaired, as there is a chance of it bursting while the repair operation is being performed. If you notice any cracks or deformation of the tire, turn off the compressor switch and stop the repair operation immediately.
- If the emergency tire puncture repair kit is continuously operated for a long time, the compressor may overheat. Do not operate the compressor for 40 minutes or more continuously.
- Parts of the repair kit become hot during operation. Be careful handling the repair kit during and after operation. Do not touch the metal part connecting the bottle and the compressor. It will be extremely hot.
- Do not attach the vehicle speed warning sticker to an area other than the one indicated. If the sticker is attached to an area where an SRS airbag is located, such as the pad of the steering wheel, it may prevent the SRS airbag from operating properly.

n Driving to spread the liquid sealant evenly

Observe the following precautions to reduce the risk of accidents.

Failing to do so may result in a loss of vehicle control and cause death or serious injury.

- Drive the vehicle carefully at a low speed. Be especially careful when turning and cornering.
- If the vehicle does not drive straight or you feel a pull through the steering wheel, stop the vehicle and check the following:
  - Tire condition. The tire may have separated from the wheel.
  - Tire inflation pressure. If tire inflation pressure is 19 psi (130 kPa, 1.3 kgf/cm^2 or bar) or below, this may indicate severe tire damage.

NOTICE

n When performing an emergency repair

- Perform the emergency repair without removing the nail or screw that has punctured the tread of the tire. If the object that has punctured the tire is removed, repair by the emergency tire puncture repair kit may not be possible.
- The repair kit is not waterproof. Make sure that the repair kit is not exposed to water, such as when it is being used in the rain.
- Do not put the kit directly onto dusty ground such as sand at the side of the road. If the kit vacuums up dust etc., a malfunction may occur.
- Use the kit with the top facing upward. The kit cannot work properly if it is laid on its side.

n Precautions for the emergency tire puncture repair kit

- The repair kit power source should be 12 V DC suitable for vehicle use. Do not connect the repair kit to any other source.
- If gasoline splatters on the kit, the kit may deteriorate. Take care not to allow gasoline to contact it.

NOTICE

- Put the emergency tire puncture repair kit in the plastic bag and store it where it will be free from dust and water.
- Store the kit in its assigned place out of reach of children.
- Do not disassemble or modify the kit. Do not subject parts such as the air pressure indicator to impacts. This may cause a malfunction.

To avoid damage to the tire pressure warning valves and transmitters

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Lexus dealer as soon as possible. After use of liquid sealant, make sure to replace the tire pressure warning valve and transmitter when repairing or replacing the tire. (→P.407)

If the hybrid system will not start

Reasons for the hybrid system not starting vary depending on the situation. Check the following and perform the appropriate procedure:

The hybrid system will not start even though the correct starting procedure is being followed. (→P.163)

One of the following may be the cause of the problem:

- The electronic key may not be functioning properly. (→P.476)
- There may not be sufficient fuel in the vehicle's tank.
  Refuel the vehicle. (→P.192)
- There may be a malfunction in the immobilizer system. (→P.73)
- There may be a malfunction in the shift control system.* (→P.165, 453)
- The hybrid system may be malfunctioning due to an electrical problem such as electronic key battery depletion or a blown fuse. However, depending on the type of malfunction, an interim measure is available to start the hybrid system. (→P.475)
- There is a possibility that the temperature of the hybrid battery (traction battery) is extremely low (approximately below -22°F [-30°C]). (→P.69, 164)

*: It may not be possible to shift the shift

position from P.

The interior lights and headlights are dim, or the horn does not sound or sounds at a low volume.

One of the following may be the cause of the problem:

- The 12-volt battery may be discharged. (→P.480)
- The 12-volt battery terminal connections may be loose or corroded. (→P.401)

The interior lights and headlights do not turn on, or the horn does not sound.

One of the following may be the cause of the problem:

- The 12-volt battery may be discharged. (→P.480)
- One or both of the 12-volt battery terminals may be disconnected. (→P.401)

Contact your Lexus dealer if the problem cannot be repaired, or if repair procedures are unknown.

Starting the hybrid system in an emergency

When the hybrid system does not start, the following steps can be used as an interim measure to start the hybrid system if the power switch is functioning normally. Do not use this starting procedure except in cases of emergency.

1. Pull the parking brake switch to check that the parking brake is set. (→P.176)

Parking brake indicator will come on.

2. Turn the power switch to ACC. *1, 2
3. Press and hold the power switch for about 15 seconds while depressing the brake pedal firmly.

Even if the hybrid system can be started using the above steps, the system may be malfunctioning. Have the vehicle inspected by your Lexus dealer.

*1: ACC mode can be enabled/disabled on the customize menu. (→P.517)

*2: When ACC is disabled, turn the power switch to ON then OFF, and perform the following step within 5 seconds.

If you lose your keys

New genuine mechanical keys can be made by your Lexus dealer using another mechanical key and the key number stamped on your key number plate. Keep the plate in a safe place such as your wallet, not in the vehicle.

NOTICE

n When an electronic key is lost

If the electronic key remains lost, the risk of vehicle theft increases significantly. Visit your Lexus dealer immediately with all remaining electronic keys, card key (if equipped) and the NFC key (if equipped) that were provided with your vehicle.

If the electronic key does not operate properly

If communication between the electronic key and vehicle is interrupted (→P.122) or the electronic key cannot be used because the battery is depleted, the smart access system with push-button start and wireless remote control cannot be used. In such cases, the doors and trunk can be opened and the hybrid system can be started by following the procedure below.

n When the electronic key does not work properly

- Make sure that the smart access system with push-button start has not been deactivated in the customization setting. If it is off, turn the function on. (Customizable features: →P.516)
- Check if battery-saving mode is set. If it is set, cancel the function. (→P.121)
- The electronic key function may have stopped. (→P.121)

NOTICE

n In case of a smart access system with push-button start malfunction or other key-related problems

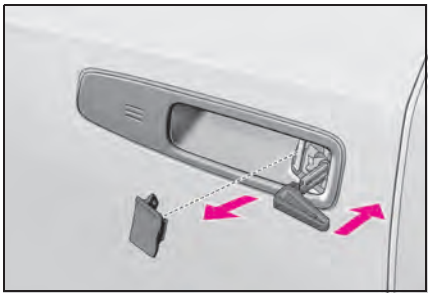
Take your vehicle with all the electronic keys provided with your vehicle to your Lexus dealer as soon as possible.

Locking and unlocking the doors, unlocking the trunk

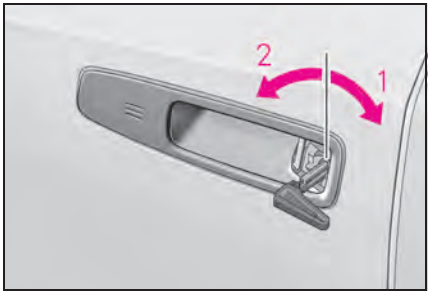
Use the mechanical key (→P.105) in order to perform the following operations:

n **Unlocking the door**

1 Remove the key cover and insert the mechanical key.



2 Unlock the door.



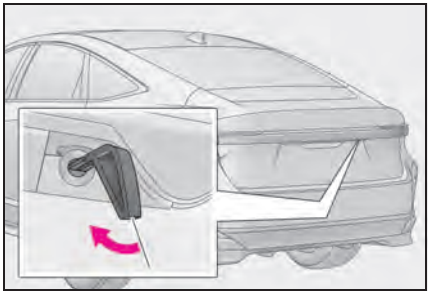
1 Unlocks the door

2 Locks all the doors

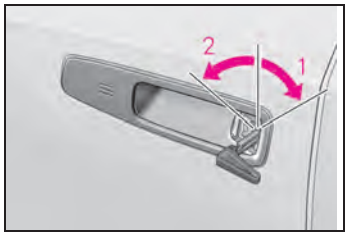
3 Remove the mechanical key and install the key cover. Then, pull the manual release handle before pulling the door handle.

n **Unlocking the trunk**

Turn the mechanical key clockwise to open.



n **Key linked functions**



1 Opens the windows and panoramic moon roof (turn and hold)

2 Closes the windows and panoramic moon roof (turn and hold)

These settings must be customized at your Lexus dealer.

WARNING

n **When using the mechanical key and operating the power windows or panoramic moon roof**

Operate the power window or panoramic moon roof after checking to make sure that there is no possibility of any passenger having any of their body parts caught in the window or panoramic moon roof. Also, do not allow children to operate the mechanical key. It is possible for children and other passengers to get caught in the power window or panoramic moon roof.

Starting the hybrid system

1 While in the P shift position, keep depressing the brake pedal.

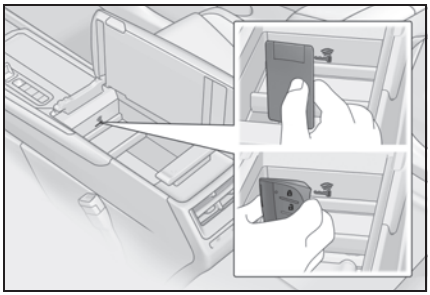
2 Open the console box lid and bring the electronic key near the  mark and hold it.

Before holding the electronic key near the indication mark, remove metal or other objects between the key and the mark.

When the electronic key is detected, a buzzer sounds and the power switch will

turn to ON.

When the smart access system with push-button start is deactivated in customization setting and ACC customization is in off, the power switch will turn to ACC.



3 Press the power switch shortly and firmly.

In the event that the hybrid system still cannot be started, contact your Lexus dealer.

n **Stopping the hybrid system**

Set the parking brake, shift the shift position to P and press the power switch as you normally do when stopping the hybrid system.

n **Electronic key battery**

As the above procedure is a temporary measure, it is recommended that the electronic key battery be replaced immediately when the battery is depleted. (→P.427)

n **Alarm**

Using the mechanical key to lock the doors will not set the alarm system.
If a door is unlocked using the mechanical key when the alarm system is set, the alarm may be triggered. (→P.74)

n **Changing power switch modes**

Release the brake pedal and press the power switch in step 3 above.

The hybrid system does not start and modes will be changed each time the switch is pressed. (→P.166)

If a door cannot be opened using the door opener switch

If a door cannot be opened using the door opener switch, it can be opened using a manual release handle.

NOTICE

n **Operating a manual release handle**

Normally, the manual release handles cannot be used to open the doors. To enable manual release handle operation, perform the following. If the following is not performed and/or a manual release handle is operated with force, it may deform or be damaged.

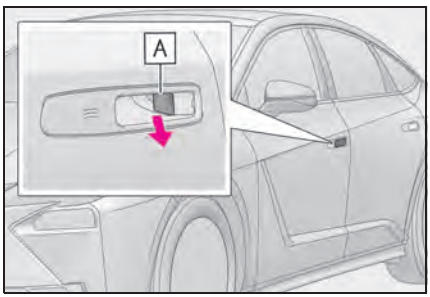
Opening a door using the manual release handle

n **Opening a door using the manual release handle from outside the vehicle**

Pull the manual release handle A to open the door.

Normally, the manual release handles cannot be used to open the doors.

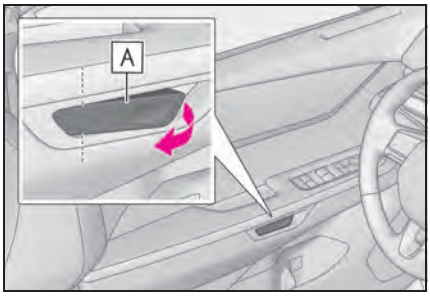
To open a door, enable manual release handle operation. (→P.479)



n Opening a door using the manual release handle from inside the vehicle

Pull the manual release handle A twice to open the door.

Pulling the handle once will enable operation. Pulling the handle again will open the door.



n Manual release handle operating conditions

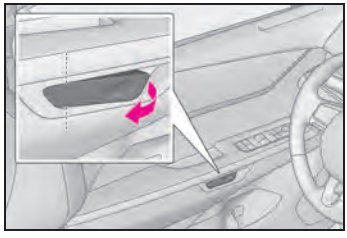
l When the vehicle is involved in a collision

The manual release handle may not become operable depending on the force of the impact and conditions of the collision.

l When the 12-volt battery voltage drops slowly while a door was unlocked

It may not work depending on how it is lowered.

l When manual release handle operation is enabled from inside the vehicle



l When manual release handle operation is enabled from outside the vehicle using the mechanical key

n Enabling outside manual release handle operation using the mechanical key

Operation of a manual release handle can be enabled by unlocking a door with the mechanical key.

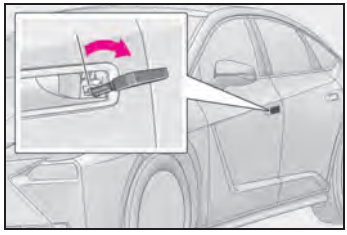
1 Remove the key cover and insert the mechanical key.



2 Using the mechanical key, turn the lock cylinder to the unlock side to enable the manual release handle operation.

The mechanical key can only be inserted in one direction, as the key only has a groove on one side.

If the key cannot be inserted in a lock cylinder, turn it over and re-attempt to insert it.



n Conditions which manual release handle operation is disabled

l Normally, operation of the outside manual release handles is disabled, and they cannot be used to open the doors.

When operation is enabled by operating a manual release handle or using a mechanical key, operation will be disabled automatically if the door is opened using the door opener switch or locked.

l Operation of the inside manual release handles is disabled when the power switch is in ON, and they cannot be used to open the doors.

When operation is enabled by operating a manual release handle or using a mechanical key, operation will be disabled automat-

ically if the door is opened using the door opener switch or locked.

- To prevent a door from being opened accidentally, when the power switch is in ON, after an inside manual release handle is operated once, operation will automatically be disabled after approximately 1 second.

If the 12-volt battery is discharged

The following procedures may be used to start the hybrid system if the 12-volt battery is discharged.

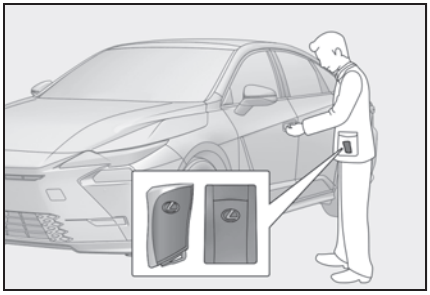
You can also call your Lexus dealer or a qualified repair shop.

Restarting the hybrid system

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your vehicle using the following procedure.

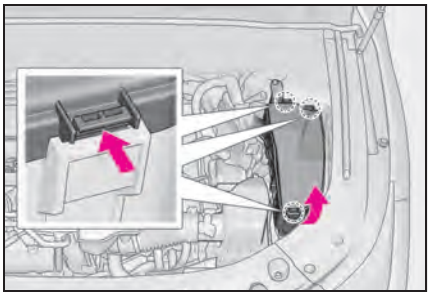
1 Confirm that the electronic key is being carried.

When connecting the jumper (or booster) cables, depending on the situation, the alarm may activate and doors locked. (→P.75)

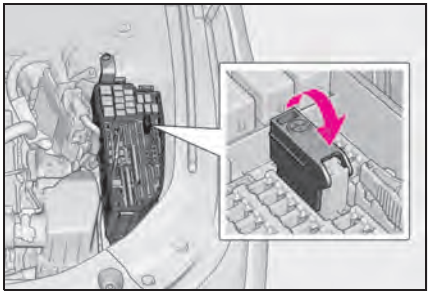


2 Open the hood (→P.394) and open the fuse box cover.

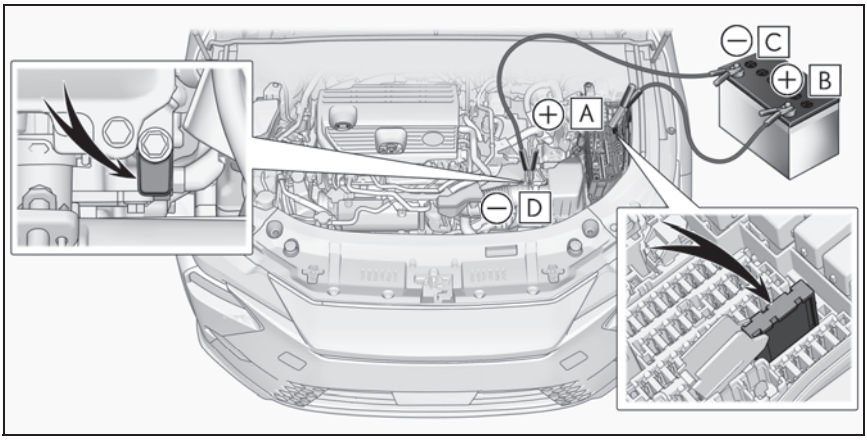
Push the tab in and lift the lid off.



3 Open the exclusive jump starting terminal cover.



4 Connect a positive jumper cable clamp to A on your vehicle and connect the clamp on the other end of the positive cable to B on the second vehicle. Then, connect a negative cable clamp to C on the second vehicle and connect the clamp at the other end of the negative cable to D.
Use jumper cables that can reach the specified terminals and connecting point.



A Exclusive jump starting terminal (your vehicle)

B Positive (+) battery terminal (second vehicle)

C Negative (-) battery terminal (second vehicle)

D Metallic point shown in the illustration

5 Start the engine of the second vehicle. Increase the engine speed slightly and maintain at that level for approximately 5 minutes to recharge the 12-volt battery of your vehicle.

6 Open and close any of the doors of your vehicle with the power switch off.

7 Maintain the engine speed of the second vehicle and start the hybrid system of your vehicle by turning the power switch to ON.

8 Make sure the "READY" indicator comes on. If the indicator does not come on, contact your Lexus dealer.

9 Once the vehicle's hybrid system has started, remove the jumper cables in the exact reverse order from which they were connected.

10 Close the exclusive jump starting terminal cover, and reinstall the fuse box cover to its original position.

Once the hybrid system starts, have the vehicle inspected at your Lexus dealer as soon as possible.

n **Starting the hybrid system when the 12-volt battery is discharged**

The hybrid system cannot be started by push-starting.

To prevent 12-volt battery discharge

- Turn off the headlights and the audio system while the hybrid system is stopped.
- Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic.
- When ACC customization is in on, power is still provided to the multimedia system even though the power switch is off. To turn off the multimedia system, use the multimedia system power switch. For details, refer to the "MULTIMEDIA OWNER'S MANUAL".

When the 12-volt battery is removed or discharged

- Information stored in the ECU is cleared. When the 12-volt battery is depleted, have the vehicle inspected at your Lexus dealer.
- In some cases, it may not be possible to unlock the doors using the smart access system with push-button start when the 12-volt battery is discharged. Use the wireless remote control or the mechanical key to lock or unlock the doors.
- If the 12-volt battery discharges, it may not be possible to shift the shift position to other positions. In this case, the vehicle cannot be towed without lifting both front wheels because the front wheels will be locked.
- Some systems may require initialization. (→P.531)

When removing the 12-volt battery terminals

When the 12-volt battery terminals are removed, the information stored in the ECU is cleared. Before removing the 12-volt battery terminals, contact your Lexus dealer.

Charging the 12-volt battery

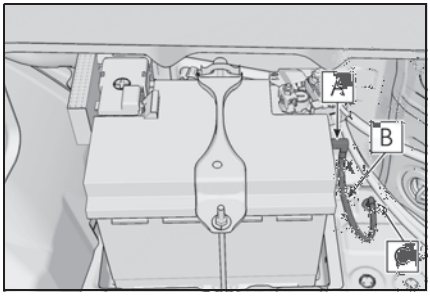
The electricity stored in the 12-volt battery will discharge gradually even when the vehicle is not in use, due to natural discharge and the draining effects of certain electrical appliances. If the vehicle is left for a long time, the 12-volt battery may discharge, and the hybrid system may be unable to start. (The 12-volt battery recharges automatically during driving.)

When recharging or replacing the 12-volt battery

- The hybrid system may not start on the first attempt after the 12-volt battery has recharged but will start normally after the second attempt. This is not a malfunction.
- The power switch mode is memorized by the vehicle. When the 12-volt battery is reconnected, the system will return to the mode it was in before the 12-volt battery was discharged. Before disconnecting the 12-volt battery, turn the power switch off.
  If you are unsure what mode the power switch was in before the 12-volt battery discharged, be especially careful when reconnecting the 12-volt battery.

When replacing the 12-volt battery

- Use a Central Degassing type 12-volt battery (European Regulations).
- Use a 12-volt battery that the case size is same as the previous one (LN2-EFB), 20 hour rate capacity (20HR) is equivalent (60Ah) or greater, and performance rating (CCA) is equivalent (345A) or greater.
  - If the sizes differ, the 12-volt battery cannot be properly secured.
  - If the 20 hour rate capacity is low, even if the time period where the vehicle is not used is a short time, the 12-volt battery may discharge and the hybrid system may not be able to start.
- Use a 12-volt battery with a handle. If a 12-volt battery without a handle is used, removal is more difficult.
- After replacing, firmly attach the following items to the exhaust hole of the 12-volt battery.
  - Use the exhaust hose that was attached to the 12-volt battery before exchanging.
  - Use the exhaust hole plug included with the new 12-volt battery or the one installed on the battery prior to the replacement. (Depending on the new 12-volt battery installed, the exhaust hole may be plugged.)



A Exhaust hole

B Exhaust hose

C Hole section of the vehicle

For details, consult your Lexus dealer.

WARNING

When removing the 12-volt battery terminals

Always remove the negative (-) terminal first. If the positive (+) terminal contacts any metal in the surrounding area when the positive (+) terminal is removed, a spark may occur, leading to a fire in addition to electrical shocks and death or serious injury.

Avoiding 12-volt battery fires or explosions

Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the 12-volt battery:

- Make sure each jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any other than the intended terminal.
- Do not allow the other end of the jumper cable connected to the "+" terminal to come into contact with any other parts or metal surfaces in the area, such as brackets or unpainted metal.
- Do not allow the + and - clamps of the jumper cables to come into contact with each other.
- Do not smoke, use matches, cigarette lighters or allow open flame near the 12-volt battery.

12-volt battery precautions

The 12-volt battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the 12-volt battery:

- When working with the 12-volt battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the 12-volt battery.
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention. Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling the 12-volt battery support, terminals, and other battery-related parts.
- Do not allow children near the 12-volt battery.

After recharging the 12-volt battery

Have the 12-volt battery inspected at your Lexus dealer as soon as possible. If the 12-volt battery is deteriorating, continued use may cause the 12-volt battery to emit a malodorous gas, which may be detrimental to the health of passengers.

When replacing the 12-volt battery

- When the vent plug and indicator are close to the hold down clamp, the 12-volt battery fluid (sulfuric acid) may leak.
- For information regarding 12-volt battery replacement, contact your Lexus dealer.

WARNING

- After replacing, securely attach the exhaust hose and exhaust hole plug to the exhaust hole of the replaced 12-volt battery. If not properly installed, gases (hydrogen) may leak into the vehicle interior, and there is the possible danger of the gas igniting and exploding.

When disconnecting the 12-volt battery

Do not disconnect the negative (-) terminal on the body side. The disconnected negative (-) terminal may touch the positive (+) terminal, which may cause a short and result in death or serious injury.

NOTICE

When handling jumper cables

When connecting the jumper cables, ensure that they do not become entangled in the cooling fan or engine drive belt.

When connecting jumper cables

Make sure to connect jumper cables to the specified terminals and connecting point. Failure to do so may adversely affect the electronic devices or damage to them.

To prevent damaging the vehicle

The exclusive jump starting terminal is to be used when charging the 12-volt battery from another vehicle in an emergency. It cannot be used to jump start another vehicle.

If your vehicle overheats

The following may indicate that your vehicle is overheating.

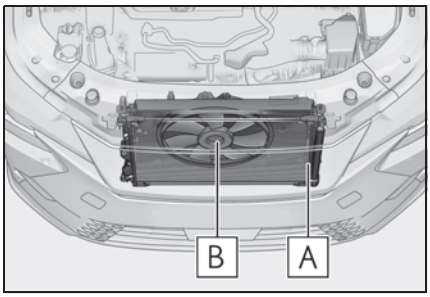
- The engine coolant temperature gauge (→P.83) is in the red zone or a loss of hybrid system power is experienced. (For example, the vehicle speed does not increase.)
- "Engine Coolant Temp High Stop in a Safe Place See Owner's Manual" or "Hybrid System Overheated Output Power Reduced" is shown on the multi-information display.
- Steam comes out from under the hood.

Correction procedures

▶ If the engine coolant temperature gauge enters the red zone or "Engine Coolant Temp High Stop in a Safe Place See Owner's Manual" is shown on the multi-information display

1. Stop the vehicle in a safe place and turn off the air conditioning system, and then stop the hybrid system.
2. If you see steam:
   Carefully lift the hood after the steam subsides.
   If you do not see steam:
   Carefully lift the hood.
3. After the hybrid system has cooled down sufficiently, inspect the hoses and cooling system for leaks.

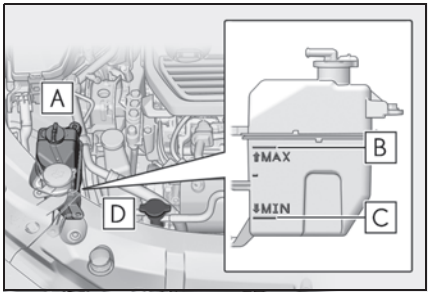
If a large amount of coolant leaks, immediately contact your Lexus dealer.



A Radiator

B Cooling fan

4 The coolant level is satisfactory if it is between the "MAX" and "MIN" lines on the reservoir.



A Reservoir

B "MAX" line

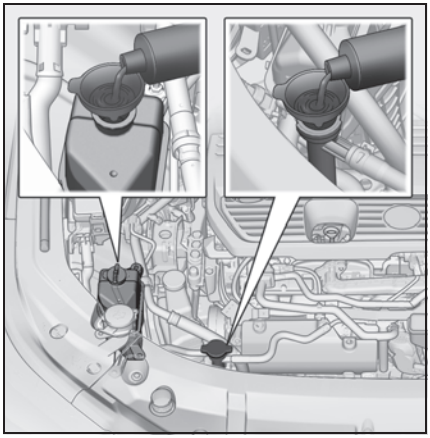
C "MIN" line

D Radiator cap

5 Add coolant if necessary.

Water can be used in an emergency if engine coolant is unavailable.

If water was added in an emergency, have the vehicle inspected at your Lexus dealer as soon as possible.



6 Start the hybrid system and turn the air conditioning system on to check that the radiator cooling fan operates and to check for coolant leaks from the radiator or hoses.

The fan operates when the air conditioning system is turned on immediately after a cold start. Confirm that the fan is operating by checking the fan sound and air flow. If it is difficult to check these, turn the air conditioning system on and off repeatedly. (The fan may not operate in freezing temperatures.)

7 If the fan is not operating:
Stop the hybrid system immediately and contact your Lexus dealer.
If the fan is operating:
Have the vehicle inspected at the nearest Lexus dealer.

8 Check if "Engine Coolant Temp High Stop in a Safe Place See Owner's Manual" is shown on the multi-information display.

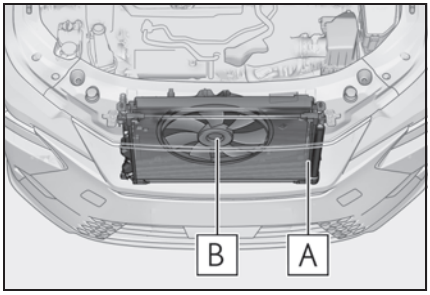
If the message does not disappear:
Stop the hybrid system and contact your Lexus dealer.
If the message is not displayed:
Have the vehicle inspected at the nearest Lexus dealer.

▶ If "Hybrid System Overheated Output Power Reduced" is shown on the multi-information display

1 Stop the vehicle in a safe place.

2 Stop the hybrid system and carefully lift the hood.

3 After the hybrid system has cooled down, inspect the hoses and radiator core (radiator) for any leaks.

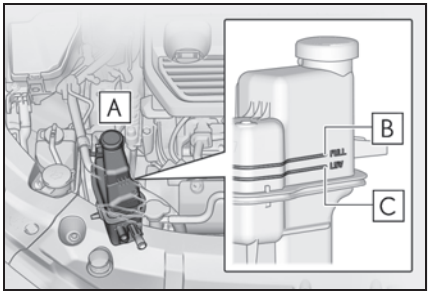


A Radiator

B Cooling fan

If a large amount of coolant leaks, immediately contact your Lexus dealer.

4 The coolant level is satisfactory if it is between the "FULL" and "LOW" lines on the reservoir.



A Reservoir

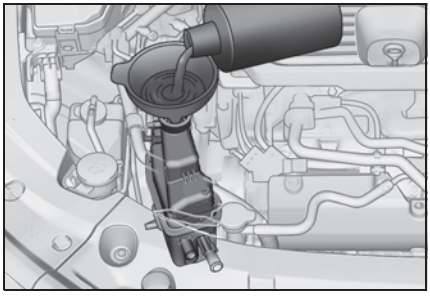
B "FULL" line

C "LOW" line

5 Add coolant if necessary.

Water can be used in an emergency if power control unit coolant is unavailable.

If water was added in an emergency, have the vehicle inspected at your Lexus dealer as soon as possible.



6 After stopping the hybrid system and waiting for 5 minutes or more, start the hybrid system again and check if "Hybrid System Overheated Output Power Reduced" is shown on the multi-information display.

If the message does not disappear:
Stop the hybrid system and contact your Lexus dealer.

If the message is not displayed:
The hybrid system temperature has dropped and the vehicle may be driven normally.

However, if the message appears again frequently, contact your Lexus dealer.

WARNING

n **To prevent an accident or injury when inspecting under the hood of your vehicle**

Observe the following precautions. Failure to do so may result in serious injury such as burns.

WARNING

- If steam is seen coming from under the hood, do not open the hood until the steam has subsided. The motor compartment may be very hot.
- After the hybrid system has been turned off, check that the "READY" indicator is off.
  When the hybrid system is operating, the gasoline engine may automatically start, or the cooling fan may suddenly operate even if the gasoline engine stops. Do not touch or approach rotating parts such as the fan, which may lead to fingers or clothing (especially a tie, a scarf or a muffler) getting caught, resulting in serious injury.
- Do not loosen the coolant inlet cap or coolant reservoir caps while the hybrid system and radiator are hot.
  High temperature steam or coolant could spray out.

NOTICE

n When adding engine/power control unit coolant

Add coolant slowly after the hybrid system has cooled down sufficiently. Adding cool coolant to a hot hybrid system too quickly can cause damage to the hybrid system.

n To prevent damage to the cooling system

Observe the following precautions:

- Avoid contaminating the coolant with foreign matter (such as sand or dust, etc.).
- Do not use any coolant additive.

If the vehicle becomes stuck

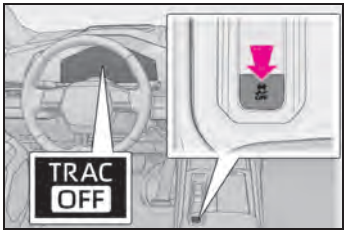
Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt or snow:

Recovering procedure

1. Stop the hybrid system. Set the parking brake and shift the shift position to P.
2. Remove the mud, snow or sand from around the front wheels.
3. Place wood, stones or some other material under the front wheels to help provide traction.
4. Restart the hybrid system.
5. Shift the shift position to D or R and release the parking brake. Then, while exercising caution, depress the accelerator pedal.

n When it is difficult to free the vehicle

Press the OFF switch to turn off TRAC.



WARNING

n When attempting to free a stuck vehicle

If you choose to push the vehicle back and forth to free it, make sure the surrounding area is clear to avoid striking other vehicles, objects or people. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution.

n When shifting the shift lever

Be careful not to shift the shift lever with the accelerator pedal depressed. This may lead to unexpected rapid acceleration of the vehicle that may cause an accident resulting in death or serious injury.

NOTICE

n To avoid damaging the transmission and other components

- Avoid spinning the front wheels and depressing the accelerator pedal more than necessary.
- If the vehicle remains stuck even after these procedures are performed, the vehicle may require towing to be freed.

Vehicle specifications 8

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Maintenance data (fuel, oil level, etc.) 492

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Tire information 501

8-2. Customization

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Items to initialize 531

8-4. Free/open source software

Free/open source software information 532

Maintenance data (fuel, oil level, etc.)

Dimensions and weight

Overall length	202.3 in. (5140 mm)
Overall width	75.6 in. (1920 mm)
Overall height*	61.2 in. (1555 mm)
Wheelbase	116.1 in. (2950 mm)
Front tread*	65.1 in. (1654 mm)
Rear tread*	66.2 in. (1682 mm)
Vehicle capacity weight (Occupants + luggage)	935 lb. (425 kg)

*: Unladen vehicle

Seating capacity

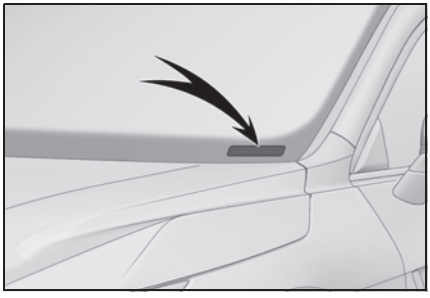
Seating capacity	5 (Front 2, Rear 3)

Vehicle identification

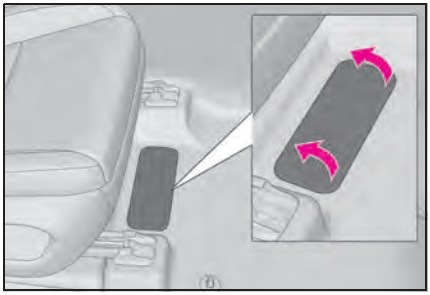
n Vehicle identification number

The vehicle identification number (VIN) is the legal identifier for your vehicle. This is the primary identification number for your Lexus. It is used in registering the ownership of your vehicle.

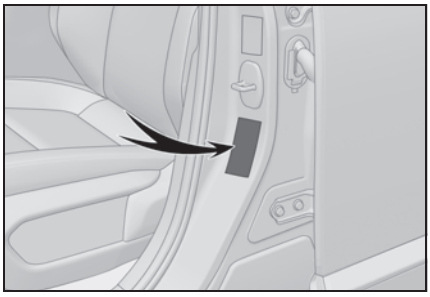
This number is on the top left of the instrument panel.



This number is also stamped under the right-hand front seat.

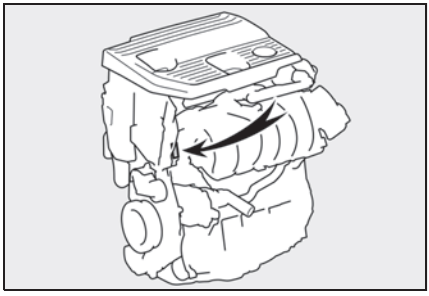


This number is also on the Certification Label.



n Engine number

The engine number is located as shown.



Engine

Model	2.5 L 4-cylinder (A25A-FXS)
Type	4-cylinder in line, 4-cycle, gasoline
Bore and stroke	3.44 × 4.07 in. (87.5 × 103.4 mm)
Displacement	151.8 cu.in. (2487 cm^3)
Valve clearance (Engine cold)	Automatic adjustment

Fuel

Fuel type	Unleaded gasoline only
Octane Rating	91 (Research Octane Number 96) or higher [recommended] 87 (Research Octane Number 91) or higher [minimum]
Fuel tank capacity (Reference)	14.5 gal. (55 L, 12.1 Imp. gal.)

Electric motor (traction motor)

▶ Front

Type	Permanent magnet synchronous motor
Maximum output	119.1 kW
Maximum torque	200.6 ft•lbf (272.0 N•m, 27.7 kgf•m)

▶ Rear (AWD models)

Type	Permanent magnet synchronous motor
Maximum output	40.7 kW
Maximum torque	90.4 ft•lbf (122.6 N•m, 12.5 kgf•m)

Hybrid battery (traction battery)

Type	Lithium-ion battery
Voltage	3.64 V/cell
Capacity	4.2 Ah
Quantity	68 cells
Nominal voltage	247.5 V

Lubrication system

n Oil capacity (Drain and refill [Reference*])

With filter	4.5 qt. (4.3 L, 3.8 Imp. qt.)
Without filter	4.2 qt. (4.0 L, 3.5 Imp. qt.)

*: The engine oil capacity is a reference quantity to be used when changing the engine oil. When actually adding the engine oil, make sure that the oil level is between the low level mark and refill upper limit mark (→P.397). Warm up the engine and turn off the hybrid system, wait about 5 minutes, and check the oil level on the dipstick.

n Engine oil selection

"Toyota Genuine Motor Oil" is used in your Lexus vehicle. Use Lexus approved "Toyota Genuine Motor Oil" or equivalent to satisfy the following grade and viscosity.

Oil grade:

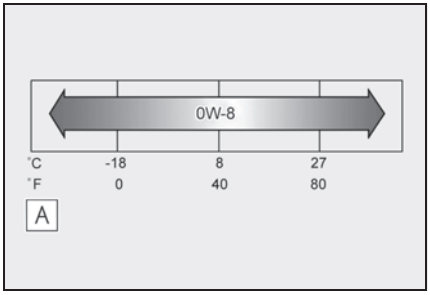
JASO GLV-1

Recommended viscosity:

SAE 0W-8

SAE 0W-8 is the best choice for good fuel economy and good starting in cold weather.

If SAE 0W-8 is not available, SAE 0W-16 oil may be used. However, it must be replaced with SAE 0W-8 at the next oil change.



A Outside temperature

Oil viscosity (0W-8 is explained here as an example):

- The 0W in 0W-8 indicates the characteristic of the oil which allows cold startability. Oils with a lower value before the W allow for easier starting of the engine in cold weather.
- The 8 in 0W-8 indicates the viscosity characteristic of the oil when the oil is at high temperature.

How to read oil container label:

The Japanese Automotive Standards Organization (JASO) GLV-1 mark is added to some oil containers to help you select the oil you should use.



Cooling system

Capacity*	Gasoline engine	6.8 qt. (6.4 L, 5.6 Imp. qt.)
	Power control unit	1.8 qt. (1.7 L, 1.5 Imp. qt.)
Coolant type		Use either of the following: • "Toyota Super Long Life Coolant" • Similar high-quality ethylene glycol-based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology Do not use plain water alone.

*: The coolant capacity is a reference quantity. If replacement is necessary, contact your Lexus dealer.

Ignition system (spark plug)

Make	DENSO FC16HR-Q8
Gap	0.03 in. (0.8 mm)

NOTICE

n Iridium-tipped spark plugs

Use only iridium-tipped spark plugs. Do not adjust the spark plug gap.

Electrical system (12-volt battery)

Open voltage at 68°F (20°C):	12.0 V or higher (Turn the power switch off and turn on the high beam headlights for 30 seconds.)
Charging rates:	5 A max.

Hybrid transmission

Fluid capacity*	3.65 qt. (3.45 L, 3.04 Imp. qt.)
Fluid type	Toyota Genuine e-Transaxle fluid TE

*: The fluid capacity is a reference quantity.
If replacement is necessary, contact your Lexus dealer.

NOTICE

n Hybrid transmission fluid type

Using transmission fluid other than the above type may cause abnormal noise or vibration, or ultimately damage the transmission of your vehicle.

Rear differential (rear electric motor) (AWD models)

Fluid capacity*	1.8 qt. (1.7 L, 1.5 Imp. qt.)
Fluid type	Toyota Genuine ATF WS

*: The fluid capacity is a reference quantity.
If replacement is necessary, contact your Lexus dealer.

NOTICE

n Rear differential fluid type

Using differential fluid other than the above type may cause abnormal noise or vibration, or ultimately damage the differential of your vehicle.

Brakes

Pedal clearance*1	2.5 in. (63 mm) Min.
Pedal free play	0.04 — 0.24 in. (1.0 — 6.0 mm)
Brake pad wear limit	0.04 in. (1.0 mm)
Parking brake indicator*2	When pressing the parking brake switch for 1 to 2 seconds: turns off When pulling the parking brake switch for 1 to 2 seconds: comes on
Fluid type	SAE J1703 or FMVSS No.116 DOT 3 SAE J1704 or FMVSS No.116 DOT 4

*1: Minimum pedal clearance when depressed with a force of 67.4 lbf (300 N, 30.6 kgf) while the hybrid system is operating.
When performing the brake pedal inspection, also be sure to check that the brake system warning light is not illuminated when the hybrid system is operating. (If the brake system warning light is illuminated, refer to P.442.)

*2: Make sure to confirm that the brake system warning light (yellow) does not illuminate. (If the brake system warning light illuminates, refer to P.442.)

Steering

Free play	Less than 1.2 in. (30 mm)

Tires and wheels

Tire size	235/55R19 101V
Tire inflation pressure (Recommended cold tire inflation pressure)	▶ Front 35 psi (240 kPa, 2.4 kgf/cm^2 or bar) ▶ Rear 35 psi (240 kPa, 2.4 kgf/cm^2 or bar)

Wheel size	19 × 8J
Wheel nut torque	103 ft•lbf (140 N•m, 14.3 kgf•m)

Fuel information

You must only use unleaded gasoline in your vehicle.
Recommended to use premium unleaded gasoline with octane rating 91 (Research Octane Number of 96) or higher for optimum engine performance.
You may use unleaded gasoline with octane rating as low as 87 (Research Octane Number of 91). In this case, engine performance may be decreased. Use of unleaded gasoline with an octane rating lower than 87 may result in engine knocking. Persistent knocking can lead to engine damage.

At minimum, the gasoline you use should meet the specifications of ASTM D4814 in the U.S.A.

n Gasoline quality

In very few cases, driveability problems may be caused by the brand of gasoline you are using. If driveability problems persist, try changing the brand of gasoline. If this does not correct the problem, consult your Lexus dealer.

n Recommendation of the use of gasoline containing detergent additives

- Lexus recommends the use of gasoline that contains detergent additives to avoid the build-up of engine deposits.
- All gasoline sold in the U.S.A. contains minimum detergent additives to clean and/or keep clean intake systems, per EPA's lowest additives concentration program.
- Lexus strongly recommends the use of Top Tier Approved Gasoline. For more information on Top Tier Approved Gasoline and a list of marketers, please go to the official website www.toptiergas.com.

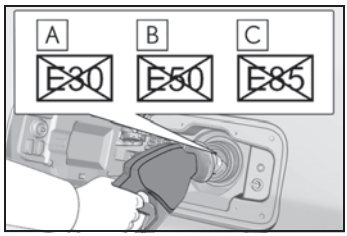
n Recommendation of the use of low emissions gasoline

Gasolines containing oxygenates such as ethers and ethanol, as well as reformulated gasolines, are available in some cities. These fuels are typically acceptable for use, providing they meet other fuel requirements.

Lexus recommends these fuels, since the formulations allow for reduced vehicle emissions.

n Non-recommendation of the use of blended gasoline

- Use only gasoline containing up to 15% ethanol.
  DO NOT use any flex-fuel or gasoline that could contain more than 15% ethanol, including from any pump labeled E30 (30% ethanol [A]), E50 (50% ethanol [B]), E85 (85% ethanol [C]) (which are only some examples of fuel containing more than 15% ethanol).



- If you use gasohol in your vehicle, be sure that it has an octane rating no lower than 87.
- Lexus does not recommend the use of gasoline containing methanol.

n Non-recommendation of the use of gasoline containing MMT

Some gasoline contains an octane enhancing additive called MMT (Methylcyclopentadienyl Manganese Tricarbonyl).

Lexus does not recommend the use of gasoline that contains MMT. If fuel containing MMT is used, your emission control system may be adversely affected.

The malfunction indicator lamp on the instrument cluster may come on. If this happens, contact your Lexus dealer for service.

If your engine knocks

- Consult your Lexus dealer.
- You may occasionally notice light knocking for a short time while accelerating or driving uphill. This is normal and there is no need for concern.

NOTICE

Notice on fuel quality

- Do not use improper fuels. If improper fuels are used, the engine will be damaged.
- Do not use leaded gasoline.
  Leaded gasoline can cause damage to your vehicle's three-way catalytic converters causing the emission control system to malfunction.
- Do not use gasohol other than the type previously stated.
  Other gasohol may cause fuel system damage or vehicle performance problems.
- Using unleaded gasoline with an octane number or rating lower than the level previously stated may cause persistent heavy knocking.
  At worst, this may lead to engine damage and will void the vehicle warranty.

Fuel-related poor driveability

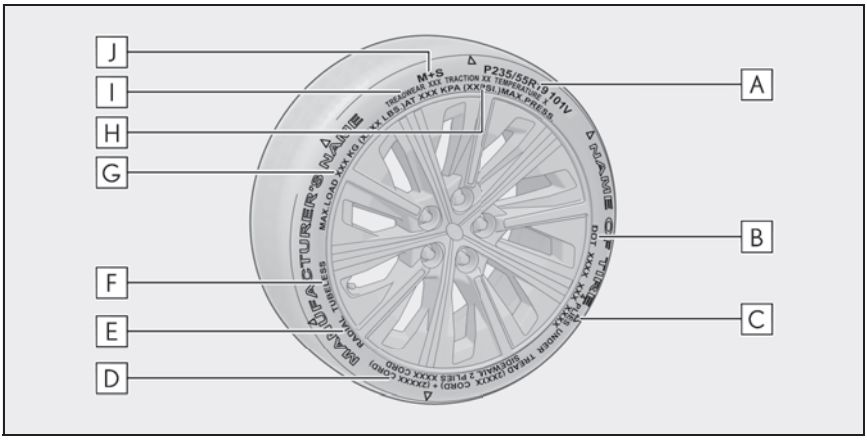
If poor driveability (poor hot starting, vaporization, engine knocking, etc.) is encountered after using a different type of fuel, discontinue the use of that type of fuel.

When refueling with gasohol

Take care not to spill gasohol. It can damage your vehicle's paint.

Tire information

Typical tire symbols



A Tire size (→P.502)

B DOT and Tire Identification Number (TIN) (→P.502)

C Location of treadwear indicators (→P.404)

D Tire ply composition and materials

Plies are layers of rubber-coated parallel cords. Cords are the strands which form the plies in a tire.

E Radial tires or bias-ply tires

A radial tire has "RADIAL" on the sidewall. A tire not marked "RADIAL" is a bias-ply tire.

F TUBELESS or TUBE TYPE

A tubeless tire does not have a tube and air is directly put into the tire. A tube type tire has a tube inside the tire and the tube maintains the air pressure.

G Load limit at maximum cold tire inflation pressure (→P.404)

H Maximum cold tire inflation pressure (→P.497)

This means the pressure to which a tire may be inflated.

I Uniform tire quality grading

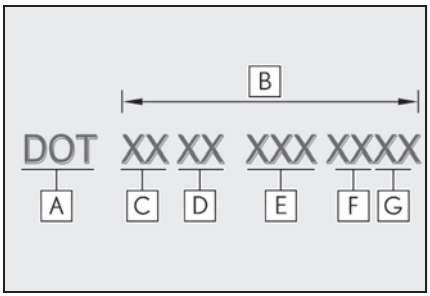
For details, see "Uniform Tire Quality Grading" that follows.

J Summer tires or all season tires (→P.404)

An all season tire has "M+S" on the sidewall. A tire not marked "M+S" is a summer tire.

Typical DOT and Tire Identification Number (TIN)

▶ Type A



A DOT symbol*

B Tire Identification Number (TIN)

C Tire manufacturer's identification mark

D Tire size code

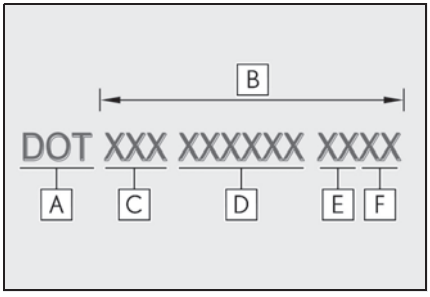
E Manufacturer's optional tire type code (3 or 4 letters)

F Manufacturing week

G Manufacturing year

*: The DOT symbol certifies that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

▶ Type B



A DOT symbol*

B Tire Identification Number (TIN)

C Tire manufacturer's identification mark

D Manufacturer's code

E Manufacturing week

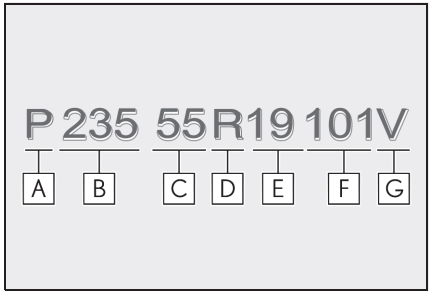
F Manufacturing year

*: The DOT symbol certifies that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

Tire size

n Typical tire size information

The illustration indicates typical tire size.



A Tire use (P = Passenger car, T = Temporary use)

B Section width (millimeters)

C Aspect ratio (tire height to section width)

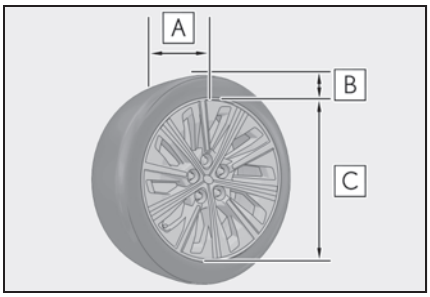
D Tire construction code (R = Radial, D = Diagonal)

E Wheel diameter (inches)

F Load index (2 digits or 3 digits)

G Speed symbol (alphabet with one letter)

n Tire dimensions

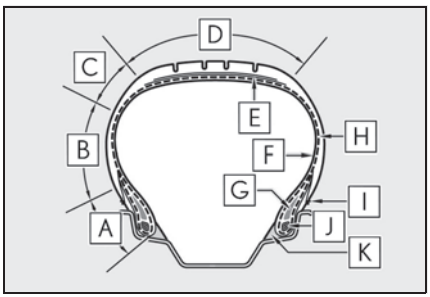


A Section width

B Tire height

C Wheel diameter

Tire section names



A Bead

B Sidewall

C Shoulder

D Tread

E Belt

F Inner liner

G Reinforcing rubber

H Carcass

I Rim lines

J Bead wires

K Chafer

Uniform Tire Quality Grading

This information has been prepared in accordance with regulations issued by the National Highway Traffic Safety Administration of the U.S. Department of Transportation.

It provides the purchasers and/or prospective purchasers of Lexus vehicles with information on uniform tire quality grading.

Your Lexus dealer will help answer any questions you may have as you read this information.

n DOT quality grades

All passenger vehicle tires must conform to Federal Safety Requirements in addition to these grades. Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example: Treadwear 200 Traction AA Temperature A

n Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course.

For example, a tire graded 150 would wear one and a half (1 - 1/2) times as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use. Performance may differ significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

n Traction AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B and C, and they represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete.

A tire marked C may have poor traction performance.

Warning: The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include cornering (turning) traction.

n Temperature A, B, C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure.

Grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109.

Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Warning: The temperature grades of a tire assume that it is properly inflated and not overloaded.

Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Glossary of tire terminology

Tire related term	Meaning
Cold tire inflation pressure	Tire pressure when the vehicle has been parked for three hours or more, or has not been driven more than 1 mile or 1.5 km under that condition
Maximum inflation pressure	The maximum cold inflated pressure to which a tire may be inflated, shown on the sidewall of the tire
Recommended inflation pressure	Cold tire inflation pressure recommended by a manufacturer
Accessory weight	The combined weight (in excess of those standard items which may be replaced) of hybrid transmission, power steering, power brakes, power windows, power seats, radio and heater, to the extent that these items are available as factory-installed equipment (whether installed or not)

Tire related term	Meaning
Curb weight	The weight of a motor vehicle with standard equipment, including the maximum capacity of fuel, oil and coolant, and if so equipped, air conditioning and additional weight optional engine
Maximum loaded vehicle weight	The sum of: (a) Curb weight (b) Accessory weight (c) Vehicle capacity weight (d) Production options weight
Normal occupant weight	150 lb. (68 kg) times the number of occupants specified in the second column of Table 1* that follows
Occupant distribution	Distribution of occupants in a vehicle as specified in the third column of Table 1* below
Production options weight	The combined weight of installed regular production options weighing over 5 lb. (2.3 kg) in excess of the standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty 12-volt battery, and special trim
Rim	A metal support for a tire or a tire and tube assembly upon which the tire beads are seated
Rim diameter (Wheel diameter)	Nominal diameter of the bead seat
Rim size designation	Rim diameter and width
Rim type designation	The industry manufacturer's designation for a rim by style or code
Rim width	Nominal distance between rim flanges
Vehicle capacity weight (Total load capacity)	The rated cargo and luggage load plus 150 lb. (68 kg) times the vehicle's designated seating capacity
Vehicle maximum load on the tire	The load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight, and dividing by two

Tire related term	Meaning
Vehicle normal load on the tire	The load on an individual tire that is determined by distributing to each axle its share of curb weight, accessory weight, and normal occupant weight (distributed in accordance with Table 1* below), and dividing by two
Weather side	The surface area of the rim not covered by the inflated tire
Bead	The part of the tire that is made of steel wires, wrapped or reinforced by ply cords and that is shaped to fit the rim
Bead separation	A breakdown of the bond between components in the bead
Bias ply tire	A pneumatic tire in which the ply cords that extend to the beads are laid at alternate angles substantially less than 90 degrees to the centerline of the tread
Carcass	The tire structure, except tread and sidewall rubber which, when inflated, bears the load
Chunking	The breaking away of pieces of the tread or sidewall
Cord	The strands forming the plies in the tire
Cord separation	The parting of cords from adjacent rubber compounds
Cracking	Any parting within the tread, sidewall, or innerliner of the tire extending to cord material
CT	A pneumatic tire with an inverted flange tire and rim system in which the rim is designed with rim flanges pointed radially inward and the tire is designed to fit on the underside of the rim in a manner that encloses the rim flanges inside the air cavity of the tire
Extra load tire	A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire
Groove	The space between two adjacent tread ribs
Innerliner	The layer(s) forming the inside surface of a tubeless tire that contains the inflating medium within the tire

Tire related term	Meaning
Innerliner separation	The parting of the innerliner from cord material in the carcass
Intended outboard sidewall	(a) The sidewall that contains a whitewall, bears white lettering, or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (b) The outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle
Light truck (LT) tire	A tire designated by its manufacturer as primarily intended for use on lightweight trucks or multipurpose passenger vehicles
Load rating	The maximum load that a tire is rated to carry for a given inflation pressure
Maximum load rating	The load rating for a tire at the maximum permissible inflation pressure for that tire
Maximum permissible inflation pressure	The maximum cold inflation pressure to which a tire may be inflated
Measuring rim	The rim on which a tire is fitted for physical dimension requirements
Open splice	Any parting at any junction of tread, sidewall, or innerliner that extends to cord material
Outer diameter	The overall diameter of an inflated new tire
Overall width	The linear distance between the exteriors of the sidewalls of an inflated tire, including elevations due to labeling, decorations, or protective bands or ribs
Passenger car tire	A tire intended for use on passenger cars, multipurpose passenger vehicles, and trucks, that have a gross vehicle weight rating (GVWR) of 10,000 lb. or less.
Ply	A layer of rubber-coated parallel cords
Ply separation	A parting of rubber compound between adjacent plies

Tire related term	Meaning
Pneumatic tire	A mechanical device made of rubber, chemicals, fabric and steel or other materials, that, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load
Radial ply tire	A pneumatic tire in which the ply cords that extend to the beads are laid at substantially 90 degrees to the centerline of the tread
Reinforced tire	A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire
Section width	The linear distance between the exteriors of the sidewalls of an inflated tire, excluding elevations due to labeling, decoration, or protective bands
Sidewall	That portion of a tire between the tread and bead
Sidewall separation	The parting of the rubber compound from the cord material in the sidewall
Snow tire	A tire that attains a traction index equal to or greater than 112, compared to the ASTM F2493 standard reference test tire when using the snow traction test on the medium pack snow surface as described in ASTM F1805-20, Standard Test Method for Single Wheel Driving Traction in a Straight Line on Snow-and Ice-Covered Surfaces, and which is marked with an Alpine Symbol () on at least one sidewall
Test rim	The rim on which a tire is fitted for testing, and may be any rim listed as appropriate for use with that tire
Tread	That portion of a tire that comes into contact with the road
Tread rib	A tread section running circumferentially around a tire
Tread separation	Pulling away of the tread from the tire carcass

Tire related term	Meaning
Treadwear indicators (TWI)	The projections within the principal grooves designed to give a visual indication of the degrees of wear of the tread
Wheel-holding fixture	The fixture used to hold the wheel and tire assembly securely during testing

*: Table 1—Occupant loading and distribution for vehicle normal load for various designated seating capacities

Designated seating capacity, Number of occupants	Vehicle normal load, Number of occupants	Occupant distribution in a normally loaded vehicle
2 through 4	2	2 in front
5 through 10	3	2 in front, 1 in second seat
11 through 15	5	2 in front, 1 in second seat, 1 in third seat, 1 in fourth seat
16 through 22	7	2 in front, 2 in second seat, 2 in third seat, 1 in fourth seat

Customizable features

Your vehicle includes a variety of electronic features that can be personalized to your preferences. The settings of these features can be changed by using the meter control switches, the center display or at your Lexus dealer.

Customizing vehicle features

n **Changing using the center display**

▶ Except for Advanced Park

1 Select ⚙ on the main menu.

2 Select the category to change the settings of from the sub menu.

3 Select the item to change the settings of from the list.

Various setting can be changed. Refer to the list of settings that can be changed for details.

▶ For Advanced Park (if equipped)

1 Press the Advanced Park main switch.

2 select ⚙ on the main menu, and then select "Advanced Park".

n **Changing by using the multi-information display**

1 Press ∧ or ∨ of the meter control switches to select ⚙ and press OK in the contents display area (left).

2 Press ∧ or ∨ of the meter control switches, select the item.

3 To switch the function on and off, press OK to switch to the desired setting.

4 To perform detailed setting of functions that support detailed settings, press and hold OK and display the setting screen.

The method of performing detailed setting differs for each screen. Please refer to the advice sentence displayed on the screen.

To go back to the previous screen or exit the customize mode, press ⮌.

n **During customization**

Stop the vehicle in a safe place, apply the parking brake, and shift the shift position to P. Also, to prevent 12-volt battery discharge, leave the hybrid system operating while customizing the features.

⚠ WARNING

n **During customization**

As the hybrid system needs to be operating during customization, ensure that the vehicle is parked in a place with adequate ventilation. In a closed area such as a garage, exhaust gases including harmful carbon monoxide (CO) may collect and enter the vehicle. This may lead to death or a serious health hazard.

NOTICE

n **During customization**

To prevent 12-volt battery discharge, ensure that the hybrid system is operating while customizing features.

Customizable features

Some function settings are changed simultaneously with other functions being customized. Contact your Lexus dealer for further details.

A Settings that can be changed using the center display

B Settings that can be changed using the multi-information display

Changing by using the center display or multi-information display

Definition of symbols: O = Available, – = Not available

n **Gauges, meters and multi-information display (→P.83, 88)**

Function*1			Customized setting	A	B
Language*2			The customized setting varies according to country.	–	O
Units			• km (km/L) • km (L/100 km) • miles (MPG USA) • miles (MPG Imperial)	–	O
Meter display type*2	Simple	Simple display	• On • Off	–	O
		Widget	• On • Off	–	O
	1 Dial	1 Dial display	• On • Off	–	O
		Dial Type	• Tachometer • Speedometer • Hybrid System Indicator • Change with Drive Mode	–	O
		Widget	• On • Off	–	O

Function[*1]				Customized setting	A	B
Meter display type[*2]	2 Dials	2 Dials display		• On • Off	–	O
		Dial Type		• Tachometer • Hybrid System Indicator • Change with Drive Mode	–	O
	Navigation	Navigation display		• On • Off	–	O
	Driving support system information	Driving support system information		• On • Off	–	O
		Widget		• On • Off	–	O
	ECO	ECO display		• On • Off	–	O
		Widget		• On • Off	–	O
		Fuel Consumption	Graph Type	• Current Data • History Data	–	O
			Clear Current Data	• Yes • No	–	O
			Update History Data	• Yes • No	–	O
			Clear History Data	• Yes • No	–	O

Function[*1]			Customized setting	A	B
EV indicator[*2]			• On • Off	–	○
Displayed Information	Fuel Economy	Fuel Economy display	• On • Off	–	○
		Graph Type	• Trip Average • Total Average • Tank Average	–	○
	EV Ratio		• On • Off	–	○
	Energy consumption		• On • Off	–	○
	Navigation display		• On • Off	–	○
	Audio display		• On • Off	–	○
	Drive Info display		• On • Off	–	○
	TRIP A display		• On • Off	–	○
	TRIP B display		• On • Off	–	○
	Energy Monitor[*2]		• On • Off	–	○
	Tire Pressure display		• On • Off	–	○
	AWD display[*2, 3]		• On • Off	–	○
	G-Force		• On • Off	–	○
Drive information items (First item)[*2]			• Distance • Average Speed • Total Time	–	○
Drive information items (Second item)[*2]			• Total Time • Average Speed • Distance	–	○

Function[*1]		Customized setting	A	B
TRIP A items (First item)[*2]		• Distance • Average Speed • Total Time	–	○
TRIP A items (Second item)[*2]		• Total Time • Average Speed • Distance	–	○
TRIP B items (First item)[*2]		• Distance • Average Speed • Total Time	–	○
TRIP B items (Second item)[*2]		• Total Time • Average Speed • Distance	–	○
Pop-up display[*2]	Telephone	• On • Off	–	○
	Audio Operation	• On • Off	–	○
	Volume Operation	• On • Off	–	○
	Voice Control	• On • Off	–	○
	Adjust Meter Brightness	• On • Off	–	○
Calendar[*2, 4]		–	–	○
Convenience Services (Suggestion function)[*2]		• On • Notify while stopped • Off	○	–
Default Settings		• Yes • No	–	○

[*1]: For details about each function: →P.88

[*2]: This setting changes in accordance with My Settings.

[*3]: For AWD models

[*4]: This can only be set if GPS calibration of clock is turned off in the multimedia system settings.

n Head-up Display*1 (→P.96)

Function	Customized setting	A	B
Head-up display*2	• On • Off	–	○
Head-up display type*2	• Full • Standard • Minimal	–	○
Dial Type	• Tachometer • Hybrid System Indicator • Change with Drive Mode	–	○
Head-up display brightness*2	Desired brightness	–	○
Head-up display position	Desired position	–	○
Head-up display angle adjustment*2	Desired angle	–	○

*1: If equipped

*2: This setting changes in accordance with My Settings.

n Digital Key* (→P.106)

Function	Customized setting	A	B
Digital Key	• On • Off	○	–

*: If equipped

n Predictive Efficient Drive*1 (→P.65)

Function	Customized setting	A	B
Predictive Efficient Drive	• On • Off	○	–
Predictive SOC* Control (predicting a destination)*2	• Desired day/s of the week	○	–

*1: If equipped

*2: This setting can be changed when the Destination prediction setting is set to On. (→P.524)

n Door lock (→P.110, 115, 476)

Function	Customized setting	A	B
Shift position linked door locking function*	• On • Off	○	–
Automatic door unlocking function*	• Shift position linked door unlocking operation • Driver's door linked door unlocking operation • Off	○	–

*: This setting changes in accordance with My Settings.

n Rear seat reminder (→P.112)

Function	Customized setting	A	B
Rear seat reminder function*	• On • Off	○	○

*: This setting changes in accordance with My Settings.

n Smart access system with push-button start and wireless remote control (→P.110, 120)

Function	Customized setting	A	B
Operation buzzer volume*	• 0 (Off) to 7	○	–
Operation signal (Emergency flashers)*	• On • Off	○	–
Time elapsed before automatic door lock function is activated if door is not opened after being unlocked*	• Off • 30 seconds • 60 seconds • 120 seconds	○	–

*: This setting changes in accordance with My Settings.

n Smart access system with push-button start (→P.110, 120)

Function	Customized setting	A	B
Smart door unlocking	• Driver's door • All the doors	○	–

n Wireless remote control (→P.102, 110, 115)

Function	Customized setting	A	B
Unlocking operation	• All doors unlocked in one step • Driver's door unlocked in one step, all doors unlocked in two step	○	–
Locking operation when door opened	• On • Off	○	–

n Power easy access system (→P.146)

Function	Customized setting	A	B
Driver's seat movement when exiting the vehicle*	• Off • Partial • Standard	○	–
Steering wheel movement*	• Off • Tilt only • Telescopic only • Tilt and telescopic	○	–

*: This setting changes in accordance with My Settings

n Power switch (→P.166)

Function	Customized setting	A	B
ACC customization Enabling / Disabling ACC mode	• On • Off	○	–

n Automatic light control system (→P.182)

Function	Customized setting	A	B
Light sensor sensitivity*	• Darker • Dark • Normal • Bright • Brighter	○	–
Time elapsed before headlights automatically turn off after doors are closed*	• Off • 30 seconds • 60 seconds • 90 seconds	○	–

*: This setting changes in accordance with My Settings.

n Lights (→P.182)

Function	Customized setting	A	B
Daytime running lights *1, 2	• On • Off	○	–

*1: Except for Canada

*2: This setting changes in accordance with My Settings.

n PCS (Pre-Collision System) (→P.208)

Function	Customized setting	A	B
PCS (Pre-Collision System)	• On • Off	○	–

n LDA (Lane Departure Alert system) (→P.227)

Function	Customized setting	A	B
LDA (Lane Departure Alert System)*	• On • Off	○	–
Departure prevention mode*	• Alert • Steering assist • Alert & Steering assist	○	–
Support timing*	• Later • Default • Earlier	○	–
Alert options*	• Vibration • Audible • Vibration & Audible	○	–
OAA (Obstacles Anticipation Assist)*	• On • Off	○	–

*: This setting changes in accordance with My Settings.

n LCA (Lane Change Assist)*1 (→P.223)

Function	Customized setting	A	B
Lane Change Assist*2	• On • Off	○	–

*1: If equipped

*2: This setting changes in accordance with My Settings.

n PDA (Proactive Driving Assist) (→P.235)

Function	Customized setting	A	B
PDA (Proactive Driving Assist)*	• On • Off	○	–
Support level*	• Low • Mid • High	○	–
Steering Assist (SA)*	• On • Off	○	–
Deceleration Assist (DA)*	• On • Off	○	–

*: This setting changes in accordance with My Settings.

n FCTA (Front Cross Traffic Alert)*1 (→P.239)

Function	Customized setting	A	B
FCTA (Front Cross Traffic Alert)*2	• On • Off	○	–

*1: If equipped

*2: This setting changes in accordance with My Settings.

n RSA (Road Sign Assist) (→P.241)

Function	Customized setting	A	B
RSA (Road Sign Assist)*	• On • Off	○	–
Speed limit caution*	• Visual • Visual and Audible • Off	○	–
Speed limit caution timing*	• Speed limit +1MPH (2km/h) • Speed limit +3MPH (5km/h) • Speed limit +5MPH (10km/h)	○	–
No entry caution*	• Visual • Visual and Audible • Off	○	–

*: This setting changes in accordance with My Settings.

n Traffic Jam Assist[*1] (→P.260)

Function	Customized setting	A	B
Traffic Jam Assist[*2]	• On • Off	○	–
Driver Monitor Camera Recording[*2]	• On • Off	○	–

[*1]: If equipped

[*2]: This setting changes in accordance with My Settings.

n Driver monitor[*] (→P.206)

Function	Customized setting	A	B
Driver Monitor Camera	• On • Off	○	–
Warning sensitivity	• High • Low • Off	○	–
Driver break suggestion	• On • Off	○	–

[*]: If equipped

n Dynamic Radar Cruise Control (→P.243)

Function	Customized setting	A	B
Acceleration[*]	• Low • Mid • High	○	–
Curve speed reduction[*]	• Off • Low • Mid • High	○	–

[*]: This setting changes in accordance with My Settings.

n BSM (Blind Spot Monitor) (→P.265)

Function	Customized setting	A	B
BSM (Blind Spot Monitor)	• On • Off	○	–
Outside rear view mirror indicator brightness *1	• Dim • Bright	○	–
Alert timing for presence of approaching vehicle (sensitivity) *1	• Later • Default • Earlier	○	–
Buzzer warning *1, 2	• On • Off	○	–

*1: This setting changes in accordance with My Settings.

*2: If you set the buzzer alarm to off, the display will also be off.

n Safe Exit Assist (→P.269)

Function	Customized setting	A	B
Safe Exit Assist	• On • Off	○	–
Detection sensitivity *	• Low • Mid • High	○	–

*: This setting changes in accordance with My Settings.

n Parking Assist-Sensor *2 (→P.274)

Function	Customized setting	A	B
Parking Assist-Sensor *1	• On • Off	○	–
Buzzer volume of Parking Assist-Sensor when operating *1, 3	• Soft • Normal • Loud	–	○
Parking Assist-Sensor 3D display *1, 4	• On • Off	○	–

Function	Customized setting	A	B
Distance from which the front center sensor starts detection *1, 4	• Near • Standard	○	–
Distance from which the rear center sensor starts detection *1, 4	• Near • Standard	○	–

*1: This setting changes in accordance with My Settings.

*2: If equipped

*3: The sound volume is linked among the Parking Assist-Sensor, RCTA, and RCD.

*4: For vehicles with panoramic view monitor, the setting can be changed on the panoramic view monitor settings screen. For details, refer to "MULTIMEDIA OWNER'S MANUAL".

n RCTA (Rear Cross Traffic Alert) function (→P.283)

Function	Customized setting	A	B
RCTA (Rear Cross Traffic Alert) function	• On • Off	○	–
Buzzer volume of RCTA (Rear Cross Traffic Alert) function when operating *1, 2	• Soft • Normal • Loud	–	○

*1: This setting changes in accordance with My Settings.

*2: The sound volume is linked among the Parking Assist-Sensor, RCTA, and RCD.

n RCD (Rear Camera Detection) function *2 (→P.288)

Function	Customized setting	A	B
RCD (Rear Camera Detection) function	• On • Off	○	–
Buzzer volume of RCD (Rear Camera Detection) function when operating *1, 3	• Soft • Normal • Loud	–	○

*1: This setting changes in accordance with My Settings.

*2: If equipped

*3: The sound volume is linked among the Parking Assist-Sensor, RCTA, and RCD.

n PKSB (Parking Support Brake)*2,3 (→P.291)

Function	Customized setting	A	B
PKSB (Parking Support Brake) function*1	• On • Off	○	–

*1: This setting changes in accordance with My Settings.

*2: Customized setting is located in different places depending on the grade,options, etc.

*3: If equipped

n Lexus Teammate Advanced Park* (→P.302)

Function	Customized setting	A	B
Remote Park*	• On • Off	○	–
Speed Profile	• Slow • Standard • Fast	○	–
Distance to objects	• Standard • Far	○	–
Preferred parking method	• Parallel • Perpendicular	○	–
Preferred parking direction	• Reverse • Forward	○	–
Preferred exit direction (perpendicular)	• Left • Right	○	–
Preferred exit direction (parallel)	• Left • Right	○	–
Parking view	• Standard • Wide	○	–
Exit view	• Standard • Wide	○	–
Parking path adjustment	• -3 (Inward) to +3 (Outward)	○	–
Road width adjustment	• Narrow • Slightly narrow • Standard	○	–

Function	Customized setting	A	B
Park position adjustment	• -3 (Rearward) to +3 (Frontward)	○	–
Rear accessory size setting	• None • 3.9 in. (10 cm) • 7.9 in. (20 cm) • 11.8 in. (30 cm) • 15.7 in. (40 cm)	○	–

*: If equipped

n **Driving Mode Select switch (→P.329)**

Function	Customized setting	A	B
Powertrain control in custom mode	• Normal • Sport • Eco	○	–
Steering control in custom mode	• Normal • Sport	○	–
Air conditioning operation in custom mode	• Normal • Eco	○	–

n **Destination prediction (→P.65)**

Function	Customized setting	A	B
Destination prediction	• On • Off	○	–

n **Automatic air conditioning system (→P.343)**

Function	Customized setting	A	B
A/C auto switch operation*	• On • Off	○	–

*: This setting changes in accordance with My Settings.

n **Seat heater/seat ventilators (→P.351)**

Function	Customized setting	A	B
Driver's seat temperature preference in automatic mode	• -2 (cooler) to 2 (warmer)	○	–
Passenger's seat temperature preference in automatic mode	• -2 (cooler) to 2 (warmer)	○	–

n Heated steering wheel (→P.351)

Function	Customized setting	A	B
Steering wheel heating preference in automatic mode	• -2 (low) to 2 (high)	○	–

n Illumination (→P.354)

Function		Customized setting	A	B
Time elapsed before the interior lights/exterior light (Front Projection Illumination)*1 turn off*2		• 7.5 seconds • 15 seconds • 30 seconds	○	–
Ambient lighting/exterior light (Front Projection Illumination)*1, 2		• On • Off	○	–
Brightness level*2		• Desired brightness	○	–
Color selection*2		• Desired color	○	–
Dynamic color*2		• Desired theme	○	–
Function linkage illumination*2	Welcome illumination	• On • Off	○	–
	Safe Exit Assist	• On • Off	○	–
	Dirve mode	• On • Off	○	–

*1: If equipped

*2: This setting changes in accordance with My Settings

Change the settings at your Lexus dealer

Function	Customized setting
Door unlocking by turning mechanical key twice	When driver door is unlocked using mechanical key, enables to unlock only driver door with first key turn, and all doors with second key turn
Auto unlock-linked function	Enables to unlock all doors automatically

Function	Customized setting
Selecting inside/outside door opener switch operating method	Enables to select time during which door is open when inside door opener switch or outside door opener switch is operated
Adjusting door lock switch indicator illumination time	When power switch is turned off and doors are locked, enables to select time during which door lock switch indicator illuminates
Inside door opener switch operation warning	Enables to warn that inside door opener switch is operated when doors should not be opened, such as while the vehicle is being driven
Shift-linked door locking function	When power switch is ON with all doors closed, enables to lock doors automatically upon shifting from P
Adjusting door opener switch operation	When a door is opened from inside, enables to select time required to keep pressing door opener switch
Digital key function	Enables to enable/disable digital key function
Digital key: Setting radio range (start position)	Enables to set an area where location detection starts
Digital key: Setting radio range (stop position)	Enables to set an area where location detection stops
Digital key: Setting area inside vehicle	Enables to set an operational area in vehicle
Digital key: Setting area outside vehicle	Enables to set an operational area outside of vehicle
Setting digital key's power saving mode	When digital key is not operated for some time, enables to select time to help prevent smartphone battery from being depleted and vehicle's auxiliary battery from being discharged
Door lock linked trunk	When all doors are unlocked, enables to open trunk while not carrying an electronic key, using external trunk opener switch
Unlocking trunk using wireless remote control	Enables to select a wireless remote control operation in which trunk is unlocked

Function	Customized setting
Adjusting volume of answer back buzzer	When wireless remote control is used for locking/unlocking, enables to adjust volume of answer back buzzer
Answer back buzzer function	Enables to sound a buzzer when wireless remote control or smart access system with push-button start is used for locking/unlocking
Two-step operation of door unlocking using smart access system with push-button start	Enables to select the range of operable doors that unlock, which changes depending on how the driver door's lock sensor is touched
Open door warning buzzer function	Enables to sound a buzzer when a door is open and wireless remote control or smart access system with push-button start is used for locking
Wireless remote control auto locking function	When wireless remote control or smart access system with push-button start is used to unlock the doors then a door is not opened, enables to lock doors automatically
Smart access system with push-button start : Setting time during which unlock sensor is touched and held	Selecting time that door handle unlock sensor should be touched and held
Smart access system with push-button start : Setting time during which lock sensor is touched and held	Selecting time that door handle lock sensor should be touched and held
Smart access system with push-button start : Power saving controls	When vehicle is to be parked for a long time, helps to prevent wireless remote control battery from being depleted and vehicle's auxiliary battery from being discharged
Canceling smart access system with push-button start	Enables to cancel all functions of smart access system with push-button start
Answer back emergency flashers function	When wireless remote control or smart access system with push-button start is used for locking/unlocking, enables to blink emergency flashers (hazard lights)

Function	Customized setting
Setting time for wireless remote control auto locking	When wireless remote control or smart access system with push-button start is used to unlock the doors then a rear door is not opened, enables to select time until the doors are locked automatically
Wireless remote control auto locking enabled when a door is open	Enables to lock using wireless remote control even though a door is open
Unlocking by operating wireless remote control twice	When wireless remote control is used for unlocking, enables to unlock only driver door with first operation, and all doors with second operation
Selecting direction in which panoramic moon roof operates when opened using wireless remote control	Enables to select to slide or tilt panoramic moon roof when wireless remote control is operated and held
Panic mode	Enables to change to panic mode to sound an alarm when of wireless remote control is pressed
Adjusting moving amount of driver seat when egressing	When power switch is turned OFF, enables to select the moving amount of driver seat and of steering wheel for ease of ingress/egress
Moving steering wheel for egress	Enables to select a portion of steering wheel that moves when power switch is turned OFF
ACC customization	Enables to turn to ACC power mode when power switch is operated
Adjusting sensitivity of light sensors	Enables to select the brightness sensitivity of light sensors
Automatic turning off of headlights	When power switch is turned OFF then all doors are closed, enables to select time during which headlights are illuminated
Enables to turn on/off daytime running light function	When light switch is in AUTO position, enables to illuminate headlights upon the operation of windshield wipers
Linked to AUTO switch	Enables to turn on A/C switch automatically when AUTO switch is turned ON

Function	Customized setting
Automatically adjusting seat heater (front passenger seat)	Enables to select temperatures of front passenger seat in five steps when seat heaters/seat ventilators are in AUTO mode
Automatically adjusting seat heater (driver seat)	Enables to select temperatures of driver seat in five steps when seat heaters/ seat ventilators are in AUTO mode
Automatically adjusting heated steering wheel	Enables to select temperatures in five steps when heated steering wheel is in AUTO mode
Interior illumination	Enables to select a way that interior illumination lights illuminate
Setting time for illuminating interior lights	Enables to select time until interior lights turn off automatically when illuminated automatically
Setting for illuminating interior lights	Enables all automatic illumination functions of interior lights
Adjusting brightness of all interior lights	Enables to select brightness of all interior lights
Selecting areas for which brightness of interior lights is adjusted	Enables to select areas for which brightness of interior lights is adjusted
Adjusting brightness of front interior lights	Enables to select brightness of interior lights in front area
Adjusting brightness of rear interior lights	Enables to select brightness of interior lights in rear area
Adjusting brightness of interior foot lighting	Enables to select brightness of interior lights in foot area
Setting interior lights theme	Enables to select theme colors of interior lights
Setting interior lights theme for customization	Enables to select interior lights theme colors for customization
Interior light illumination when approached	While carrying wireless remote control and approaching vehicle, enables to illuminate interior lights
Interior light illumination when unlocked	Linked to unlock operation, enables to illuminate interior lights

Function	Customized setting
Exterior light illumination when approached	While carrying wireless remote control and approaching vehicle, enables to illuminate exterior lights
Exterior light illumination when unlocked	Linked to unlock operation, enables to illuminate exterior lights
Interior light illumination linked to turning off of power switch	Upon turning off of power switch from on, enables to illuminate interior lights/foot lighting
Scene-linked interior lights function (entertaining for ingress/egress)	Linked to ingress/egress, enables to illuminate interior lights
Scene-linked interior lights function (safe exit assist)	Linked to situation when egressing, enables to illuminate/blink interior lights
Scene-linked interior lights function (drive mode)	Linked to situation in drive mode, enables to illuminate interior lights
Reverse warning buzzer	Enables to turn on/off reverse warning buzzer
Closing power windows using mechanical key	When mechanical key is turned in locking direction and held, enables to close windows
Opening power windows using mechanical key	When mechanical key is turned in unlocking direction and held, enables to open windows
Opening power windows using wireless remote control	When wireless remote control's unlock button is pressed and held, enables to open windows
Selecting direction in which panoramic moon roof operates when opened using mechanical key	Enables to select to slide or tilt panoramic moon roof when opened using mechanical key
Operating power windows	Enables to operate power window for some time after power switch is turned to ACC/OFF
Suggestion service function	Enables to display suggestion messages for driver depending on the situations

n **Vehicle customization**

- When the smart access system with push-button start is off, the entry unlock function cannot be customized.
- When the doors remain closed after unlocking the doors and the timer activated automatic door lock function activates, signals will be generated in accordance with the operation buzzer volume and operational signal (Emergency flashers) function settings.

Items to initialize

The following items must be initialized for normal system operation after such cases as the 12-volt battery being reconnected, or maintenance being performed on the vehicle:

List of the items to initialize

Item	When to initialize	Reference
Parking Assist-Sensor	If the 12-volt battery was discharged or has been removed and installed	P.274
PKSB (Parking Support Brake)	If the 12-volt battery was discharged or has been removed and installed	P.291
RCD (Rear Camera Detection)	If the 12-volt battery was discharged or has been removed and installed	P.288
RCTA (Rear Cross Traffic Alert)	If the 12-volt battery was discharged or has been removed and installed	P.283
Tire pressure warning system	• When the specified tire inflation pressure has changed, such as due to carried load, etc. • When the tire inflation pressure is changed such as when the tire size is changed.	P.409
Power windows	When functioning abnormally	P.140
Panoramic moon roof	When functioning abnormally	P.144
Message indicating maintenance is required	After the maintenance is performed	P.387

Free/open source software information

Safety Connect

This product contains Free/Open Source Software (FOSS).

The license information and/or the source code of such FOSS can be found at the following URL.

https://opensource.lge.com/product/list?keyword=TF24I

Digital Key

This product contains Free/open source software (FOSS).

License information and/or the source code of this FOSS can be obtained at the following URL:

https://www.denso.com/global/en/opensource/dkey/toyota/

https://www.aisin.com/info/digitalkey/oss/toyata_gen2/

https://www.tokai-rika.co.jp/en/products/opensource/digitalkey

Gauges and meters

This product contains Free/Open Source Software (FOSS). The license information and/or the source code of such FOSS can be found at the following URL.

https://www.denso.com/global/en/opensource/meter/toyota/

Lexus Safety System + 4.0

This product contains Free/Open Source Software (FOSS). The license information and/or the source code of such FOSS can be found at the following URL.

https://www.denso.com/global/en/opensource/adu/toyota/

Digital Rear-view Mirror

This product contains Free/open source software (FOSS). License information and/or the source code of this FOSS can be obtained at the following URL:

https://car.panasonic.jp/oss/n03pkdl6/

Electrical tilt and telescopic steering

This product contains Free/open source software (FOSS). License information and/or the source code of this FOSS can be obtained at the following URL:

https://www.aisin.com/info/tat/004-gj3a.html

9-1. For owners

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Reporting safety defects for U.S. owners

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying the Lexus Division of Toyota Motor Sales, U.S.A., Inc. (Toll-free: 1-800-25-LEXUS).

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Lexus Division of Toyota Motor Sales, U.S.A., Inc.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to *http://www.safercar.gov*, or write to: Administrator, NHTSA, 1200 New Jersey Ave. SE., Washington, DC 20590. You can also obtain other information about motor vehicle safety from *http://www.safercar.gov.*

Reporting safety defects for Canadian owners

Canadian customers who wish to report a safety-related defect to Transport Canada, Defects Investigations and Recalls, may telephone the toll-free hotline 1-800-333-0510, mail Transport Canada - ASFAD, 330 Sparks Street, Ottawa, ON, K1A 0N5, or complete the online form at https://www.tc.gc.ca/recalls.

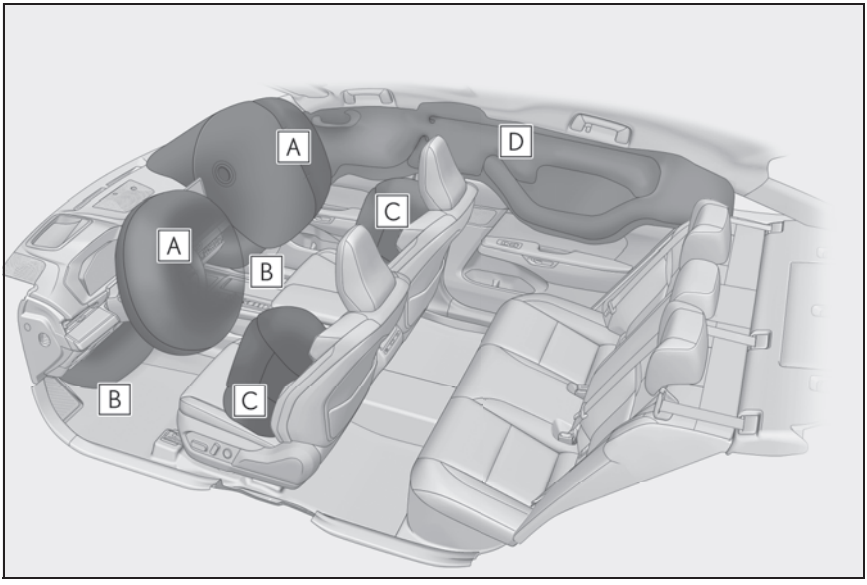
SRS airbag instructions for Canadian owners (in French)

The following is a French explanation of SRS airbag instructions extracted from the SRS airbag section in this manual.

See the SRS airbag section for more detailed SRS airbag instructions in English.

Système de coussins gonflables SRS

n **Emplacement des coussins gonflables SRS**



A Coussins gonflables frontaux SRS (Coussin gonflable conducteur/coussin gonflable du passager avant SRS)

Contribuent à réduire l'impact au niveau de la tête et du thorax du conducteur et du passager avant

B Coussins gonflables de genoux SRS

Permettent de réduire le choc pour le conducteur et le passager avant

C Coussin gonflable latéral SRS

- Contribuent à réduire l'impact au niveau du thorax des occupants des sièges avant

D Coussins gonflables rideaux SRS

- Contribuent à réduire l'impact au niveau de la tête des occupants des sièges avant et des sièges arrière latéraux
- Peut contribuer à empêcher les occupants d'être éjectés du véhicule en cas de tonneau

Votre véhicule est équipé de COUSSINS GONFLABLES INTELLIGENTS conçus selon les normes de sécurité américaines applicables aux véhicules à moteur (FMVSS208). L'ensemble des capteurs de coussins gonflables (ECU) régule le déploiement des coussins gonflables sur la base des informations qu'il reçoit des capteurs, etc., indiqués ci-dessus dans le schéma illustrant les composants du système. Parmi ces informations figurent la gravité du choc et l'occupation du véhicule par les passagers. Le déploiement rapide des coussins gonflables est obtenu au moyen d'une réaction chimique dans les dispositifs pyrotechniques, qui produit un gaz inoffensif permettant d'amortir le mouvement des occupants.

AVERTISSEMENT

n Précautions relatives aux coussins gonflables SRS

Respectez les précautions suivantes. Le non-respect de ces précautions peut occasionner des blessures graves, voire mortelles.

l Le conducteur et tous les passagers doivent porter correctement leur ceinture de sécurité.
Les coussins gonflables SRS sont des dispositifs supplémentaires à utiliser avec les ceintures de sécurité.

l Le coussin gonflable conducteur SRS se déploie avec une force considérable et peut occasionner des blessures graves, voire mortelles, tout particulièrement si le conducteur se trouve très près du coussin gonflable. L'autorité fédérale chargée de la sécurité routière aux États-Unis (NHTSA) conseille:

La zone à risque du coussin gonflable conducteur se situant dans les premiers 2 à 3 in. (50 à 75 mm) de déploiement, vous placer à 10 in. (250 mm) de votre coussin gonflable conducteur vous garantit une marge de sécurité suffisante. Cette distance est à mesurer entre le centre du volant et le sternum. Si votre position de conduite actuelle vous place à moins de 10 in. (250 mm) du coussin gonflable conducteur, vous pouvez changer votre position de conduite de plusieurs façons:

- Reculez votre siège le plus possible, de manière à pouvoir encore atteindre confortablement les pédales.

AVERTISSEMENT

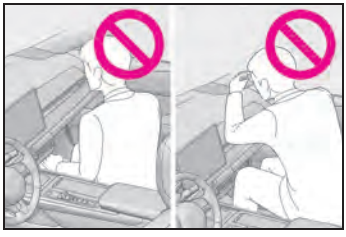
- Inclinez légèrement le dossier de siège. Bien que les véhicules aient une conception différente, un grand nombre de conducteurs peuvent s'asseoir à une distance de 10 in. (250 mm), même avec le siège conducteur complètement avancé, simplement en inclinant un peu le dossier de siège. Si vous avez des difficultés à voir la route après avoir incliné le dossier de votre siège, utilisez un coussin ferme et antidérapant pour vous rehausser ou remontez le siège si votre véhicule est équipé de cette fonction.
- Si votre volant est réglable, inclinez-le vers le bas. Cela a pour effet d'orienter le coussin gonflable en direction de votre poitrine plutôt que de votre tête et de votre cou. Réglez votre siège selon les recommandations de la NHTSA, tout en conservant le contrôle du véhicule avec les pédales et le volant, et en préservant la vue des commandes du tableau de bord.

- Si vous attachez une rallonge de ceinture de sécurité à une boucle de ceinture de sécurité du passager avant sans l'attacher au pêne de la ceinture de sécurité, le système de coussins gonflables SRS détermine que le passager avant a attaché sa ceinture de sécurité, bien que la ceinture de sécurité ne soit pas bouclée. Dans ce cas, les coussins gonflables frontaux SRS du passager avant peuvent ne pas se déployer correctement lors d'une collision, pouvant occasionner des blessures graves, voire mortelles. Veillez à porter la ceinture de sécurité correctement en cas d'utilisation d'une rallonge de ceinture de sécurité.

- Le coussin gonflable frontal SRS se déploie avec une force considérable et peut occasionner des blessures graves, voire mortelles, tout particulièrement si le passager avant se trouve très près du coussin gonflable. Le siège du passager avant doit être éloigné le plus possible du coussin gonflable, avec le dossier réglé de façon à ce que le passager avant soit assis bien droit dans le siège.

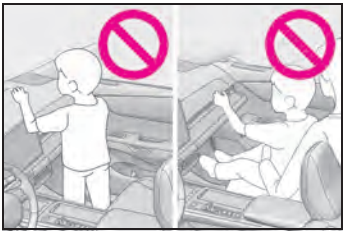
- Les nourrissons et les enfants qui ne sont pas correctement assis et/ou attachés peuvent être grièvement blessés ou tués par le déploiement d'un coussin gonflable. Un nourrisson ou un enfant trop petit pour utiliser une ceinture de sécurité doit être correctement attaché au moyen d'un siège de sécurité enfant. Lexus recommande vivement d'installer tous les nourrissons et enfants sur les sièges arrière du véhicule et de prévoir pour eux des systèmes de retenue adaptés. Les sièges arrière sont plus sûrs pour les nourrissons et les enfants que le siège du passager avant.

- Ne vous asseyez pas sur le bord du siège et ne vous appuyez pas contre la planche de bord.



AVERTISSEMENT

- Ne laissez pas un enfant rester debout devant le coussin gonflable passager avant SRS ou s'asseoir sur les genoux du passager avant.



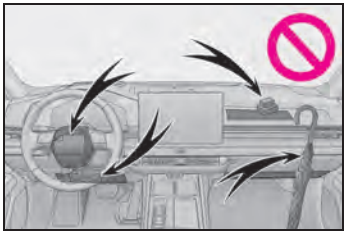
- Les occupants des sièges avant ne doivent en aucun cas tenir d'objets sur leurs genoux.
- Ne vous appuyez pas contre la porte, le rail latéral de toit ou les montants avant, latéraux ou arrière.



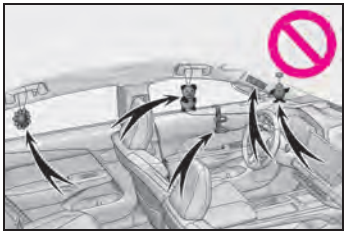
- Ne laissez personne s'agenouiller sur un siège en appui contre la porte ou sortir la tête ou les mains à l'extérieur du véhicule.



- Ne fixez rien et ne posez rien sur des emplacements tels que la planche de bord, la garniture du volant et la partie inférieure du tableau de bord.



- Ne fixez rien à des emplacements tels que les portes, la vitre du pare-brise, les vitres latérales, les montants avant ou arrière, des rails latéraux de toit et des poignées de maintien. (À l'exception de l'étiquette de limitation de vitesse.)



- Ne suspendez aucun cintre ou objet dur aux crochets à vêtements. Ces éléments peuvent se transformer en projectiles si les coussins gonflables rideaux SRS se déploient, le choc pouvant entraîner des blessures graves, voire mortelles.
- Si un cache en vinyle est fixé sur la zone où le coussin gonflable de genoux SRS se déploie, veillez à le retirer.

AVERTISSEMENT

- N'utilisez aucun accessoire de siège recouvrant les zones de déploiement des coussins gonflables SRS, car il risque de gêner le déploiement des coussins gonflables SRS. De tels accessoires peuvent empêcher les coussins gonflables SRS de se déployer correctement, peuvent désactiver le système ou entraîner le déploiement involontaire des coussins gonflables SRS, ce qui peut éventuellement occasionner des blessures graves, voire mortelles.
- Évitez de faire subir des chocs ou des pressions excessives aux composants des systèmes de coussins gonflables SRS, aux portes avant ou à leur zone adjacente.
  En effet, cela pourrait entraîner un dysfonctionnement des coussins gonflables SRS.
- Réglez le siège du passager avant de manière à ce que l'appuie-tête ne touche pas le plafond ou le pare-soleil. Si l'appuie-tête est laissé en contact avec le plafond ou le pare-soleil, le système risque de ne pas détecter correctement le passager avant, avec pour conséquence un mauvais fonctionnement des coussins gonflables.
- Ne touchez aucun composant des coussins gonflables SRS immédiatement après leur déploiement (gonflage), car ils peuvent être chauds.
- Si vous avez des difficultés à respirer après le déploiement des coussins gonflables SRS, ouvrez une porte ou une vitre pour faire entrer de l'air frais, ou bien descendez du véhicule si cela ne présente pas de danger. Essuyez tout résidu dès que possible afin d'éviter d'éventuelles irritations de la peau.
- Si une zone renfermant un coussin gonflable SRS est endommagée ou craquelée, faites-la remplacer par votre concessionnaire Lexus.
- Ne placez rien sur le siège du passager avant, comme un coussin par exemple. Cela a pour conséquence de répartir le poids du passager sur toute la surface du siège, ce qui empêche le capteur de détecter correctement le poids du passager. En conséquence, les coussins gonflables frontaux SRS du siège du passager avant risquent de ne pas se déployer en cas de collision.

n Modification et mise au rebut des composants du système de coussins gonflables SRS

Ne mettez pas votre véhicule au rebut et ne procédez à aucune des modifications suivantes sans consulter votre concessionnaire Lexus. Les coussins gonflables SRS peuvent ne pas fonctionner correctement ou se déployer involontairement, ce qui peut provoquer des blessures graves, voire mortelles.

- Dépose, repose, démontage ou réparation des coussins gonflables SRS
- Réparation, dépose ou modification des pièces suivantes ou de leurs alentours
  - Volant
  - Tableau de bord
  - Planche de bord
  - Sièges
  - Garnissage des sièges
  - Montants avant
  - Montants latéraux
  - Montants arrière
  - Rails latéraux de toit
  - Panneaux de portes avant
  - Garniture de porte avant
  - Haut-parleurs de porte avant

AVERTISSEMENT

- Modifications des panneaux de portes avant (par exemple, perçage de trous dans les panneaux)
- Réparation ou modification des pièces suivantes ou de leurs alentours
  - Aile avant
  - Pare-chocs avant
  - Côtés de l'intérieur du véhicule
- Installation des pièces suivantes ou accessoires
  - Pare-buffle ou pare-kangourou
  - Chasse-neige
  - Treuils
  - Porte-bagages de toit
- Modifications apportées à la suspension du véhicule
- Installation d'appareils électroniques, tels que des émetteurs/récepteurs radios mobiles (émetteurs RF) et des lecteurs CD
- Modifications apportées à votre véhicule pour les personnes atteintes d'un handicap physique

Seat belt instructions for Canadian owners (in French)

The following is a French explanation of seat belt instructions extracted from the seat belt section in this manual.

See the seat belt section for more detailed seat belt instructions in English.

Utilisation adéquate des ceintures de sécurité



- Tirez sur la ceinture épaulière jusqu'à ce qu'elle recouvre entièrement l'épaule; elle ne doit cependant pas toucher le cou ni glisser de l'épaule.
- Placez la ceinture abdominale le plus bas possible sur les hanches.
- Réglez la position du dossier. Tenez-vous assis bien au fond du siège, le dos droit.
- Ne vrillez pas la ceinture de sécurité.

Entretien et soin

n Manipulation des ceintures de sécurité

Avec un chiffon ou une éponge, nettoyez à l'aide d'un savon doux et de l'eau tiède. Vérifiez aussi les ceintures régulièrement pour vous assurer qu'elles ne présentent pas d'usure excessive, d'effilochage ou de coupures.

⚠ AVERTISSEMENT

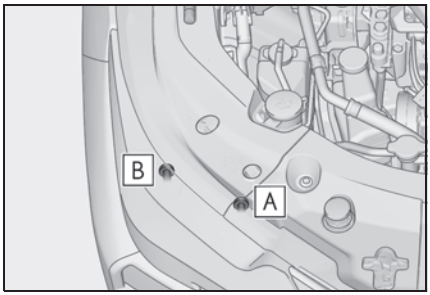
n Dommages et usure de la ceinture de sécurité

Vérifiez périodiquement le système de ceintures de sécurité. Vérifiez qu'il n'y a pas de coupures, d'effilochures ni de pièces desserrées. N'utilisez pas une ceinture de sécurité endommagée avant qu'elle ne soit remplacée. Les ceintures de sécurité endommagées ne peuvent pas protéger les occupants contre les blessures graves, voire mortelles.

Headlight aim instructions for Canadian owners (in French)

The following is a French explanation of headlight aim instructions from the headlight aim section in this manual.

Boulons de réglage du mouvement vertical/horizontal



A Boulon de réglage A

B Boulon de réglage B

Avant de vérifier le réglage des phares

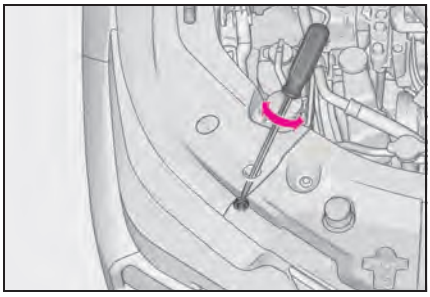
- Vérifiez que le réservoir de carburant du véhicule est plein et que la zone autour des phares n'est pas déformée.
- Stationnez le véhicule sur une surface plane.
- Assurez-vous que la pression de gonflage des pneus est au niveau recommandé.
- Faites asseoir quelqu'un dans le siège conducteur.

- Balancez le véhicule plusieurs fois.

Réglage du faisceau des phares

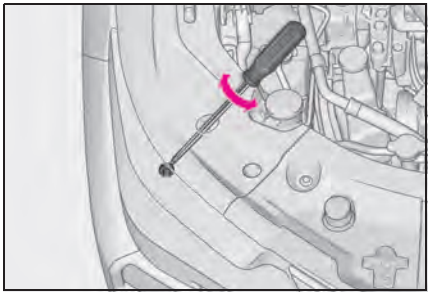
1 À l'aide d'un tournevis cruciforme, tournez le boulon A dans n'importe quel sens.

Mémorisez le sens dans lequel vous avez tourné et le nombre de tours.



2 Tournez le boulon B du même nombre de tours dans le même sens qu'à l'étape 1.

Si vous n'arrivez pas à régler le phare en procédant de la sorte, confiez le véhicule à votre concessionnaire Lexus pour qu'il règle le faisceau des phares.



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What to do if... (Troubleshooting)

If you have a problem, check the following before contacting your Lexus dealer.

The doors cannot be locked, unlocked, opened or closed



You lose your keys

- If you lose your mechanical keys, new genuine mechanical keys can be made by your Lexus dealer. (→P.476)
- If you lose your electronic keys, the risk of vehicle theft increases significantly. Contact your Lexus dealer immediately. (→P.476)



The electronic key does not operate properly

- Is the electronic key battery weak or depleted? (→P.427)



The doors cannot be locked or unlocked

- Is the power switch in ON?

When locking the doors, turn the power switch off. (→P.166)

- Is the electronic key left inside the vehicle?

When locking the doors, make sure that you have the electronic key on your person.

- The function may not operate properly due to the condition of the radio wave. (→P.122)



The rear door cannot be opened

- Is the child-protector lock set?

The rear door cannot be opened from inside the vehicle when the lock is set. Open the rear door from outside and then unlock the child-protector lock. (→P.114)



The trunk lid is closed with the electronic key left inside

- The function to prevent the electronic key from being left inside the trunk will operate and you can open the trunk as usual. Take the key out from the trunk. (→P.118)

If you think something is wrong



The hybrid system does not start

- Did you press the power switch while firmly depressing the brake pedal? (→P.163)
- Is the shift position in P? (→P.163)
- Is the electronic key anywhere detectable inside the vehicle? (→P.120)
- Is the electronic key battery weak or depleted?

In this case, the hybrid system can be started in a temporary way. (→P.477)

● Is the 12-volt battery discharged? (→P.480)



The windows do not open or close by operating the power window switches

● Is the window lock switch pressed?

The power window except for the one at the driver's seat cannot be operated if the window lock switch is pressed. (→P.142)



The power switch is turned off automatically

● The auto power off function will be operated if the vehicle is left in ACC or ON (the hybrid system is not operating) for a period of time. (→P.166)



A warning buzzer sounds during driving

● The seat belt reminder light is flashing

Are the driver and the passengers wearing the seat belts? (→P.445)

● The parking brake indicator is on

Is the parking brake released? (→P.176)

Depending on the situation, other types of warning buzzer may also sound. (→P.442, 452)



An alarm is activated and the horn sounds

● Did anyone inside the vehicle open a door during setting the alarm?

The sensor detects it and the alarm sounds. (→P.74)

To stop the alarm, turn the power switch to ON, or start the hybrid system.



A warning buzzer sounds when leaving the vehicle

● Is the message displayed on the multi-information display?

Check the message on the multi-information display. (→P.452)



A warning light turns on or a warning message is displayed

● When a warning light turns on or a warning message is displayed, refer to P.442, 452.

When a problem has occurred



If you have a flat tire

● Stop the vehicle in a safe place and repair the flat tire temporarily with the emergency tire puncture repair kit. (→P.465)



The vehicle becomes stuck

● Try the procedure for when the vehicle becomes stuck in mud, dirt, or snow. (→P.488)

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For information regarding the equipment listed below, refer to the "MULTIMEDIA OWNER'S MANUAL".

- Audio/video system
- Navigation system
- Lexus parking assist monitor
- Panoramic view monitor

Certifications

▶ Smart access system with push-button start

FCC ID:HYQ23ACC
FCC ID:HYQ14FNA
FCC ID:HYQ14CNA

NOTE:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

<For 14FNA>
The FCC ID is affixed inside the equipment. You can find the ID when replacing the battery.

NOTE:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

<For 14FNA>
The IC Certification number is affixed inside the equipment. You can find the number when replacing the battery.

NOTE:
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

<Pour 14FNA>
Le numéro d'accréditation IC est apposé à l'intérieur de l'appareil. Ce numéro est visible au remplacement de la pile.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules as this equipment has very low levels of RF energy.

L'émetteur/récepteur exempt de license contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de license. L'exploitation est autorisée aux deux conditions suivantes :

1) L'appareil ne doit pas produire de brouillage;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'ISDE puisque cet appareil a une niveau tres bas d'energie RF.

FCC ID : MOZTRUM24E1

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines as this equipment has very low levels of RF energy.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID : MOZTRUS24E1

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines as this equipment has very low levels of RF energy.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

▶ Smart access system with push-button start and immobilizer system / Advanced Park (Remote Controlled)

FCC ID: NI4TMLF19D-A US
NOTE
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC WARNING
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
9A

NOTE CA

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device. 811

NOTE CA

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. 811

▶ Digital Key

FCC ID:HYQ17EAE

NOTE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION : Radio Frequency Radiation Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Co-location: This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

The antenna cannot be removed (and changed) by user.

Co-location: This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

CAUTION: Radio Frequency Radiation Exposure
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

L'utilisateur n'est pas autorisé à retirer (ou modifier) l'antenne.

Emplacement : Cet émetteur ne doit pas être installé ou utilisé conjointement avec d'autres antennes ou émetteurs.

ATTENTION : exposition aux radiofréquences
Cet équipement est conforme aux limites d'exposition aux rayonnements d'ISDE établies pour un environnement non contrôlé ainsi que la norme CNR-102 de la réglementation d'ISDE relative à l'exposition aux radiofréquences (RF). Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et le corps.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

NFC Reader/Writer NC2C2A2 has been tested and found to comply with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules.

L'émetteur/récepteur exempt de license contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de license. L'exploitation est autorisée aux deux conditions suivantes :

1) L'appareil ne doit pas produire de brouillage;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les connaissances scientifiques dont nous disposons n'ont mis en évidence aucun problème de santé associé à l'usage des appareils sans fil à faible puissance. Nous ne sommes cependant pas en mesure de prouver que ces appareils sans fil à faible puissance sont entièrement sans danger. Les appareils sans fil à faible puissance émettent une énergie fréquence radioélectrique (RF) très faible dans le spectre des micro-ondes lorsqu'ils sont utilisés. Alors qu'une dose élevée de RF peut avoir des effets sur la santé (en chauffant les tissus), l'exposition à de faibles RF qui ne produisent pas de chaleur n'a pas de mauvais effets connus sur la santé. De nombreuses études ont été menées sur les expositions aux RF faibles et n'ont découvert aucun effet biologique. Certaines études ont suggéré qu'il pouvait y avoir certains effets biologiques, mais ces résultats n'ont pas été confirmés par des recherches supplémentaires.
NFC Reader/Writer NC2C2A2 a été testé et jugé conforme aux limites d'exposition aux rayonnements ISDE énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l' ISDE.

FCC ID：MOZNC2C2A2

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

NFC Reader/Writer NC2C2A2 has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

TYPE (PMN) : AP10
HVIN : AP10
IC : 3833A-AP10

TYPE (PMN) : AQ10
HVIN : AQ10
IC : 3833A-AQ10

Note
This device contains licence-exemp transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency Radiation Exposure Compliance
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules as this equipment has very low levels of RF energy.

Remarque
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Conformité à l'exposition aux rayonnements radiofréquences
Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'ISDE puisque cet appareil a une niveau tres bas d'energie RF.

Note
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device may not be employed for the operation of toys, aircraft, ships, or satellites.

FCC Caution
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radio Frequency Radiation Exposure Compliance
This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment must be installed and operated keeping the radiator at least 5mm or more away from person's body.

▶ Tire pressure warning system

FCC ID: PAXPMVH001
NOTE
This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation.
FCC WARNING
Changes or modifications not expressly approved by the party
responsible for compliance could void the user's authority to
operate the equipment.

FCC ID: PAXPMVH101
NOTE
This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation.
FCC WARNING
Changes or modifications not expressly approved by the party
responsible for compliance could void the user's authority to
operate the equipment.

NOTE
This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

NOTE
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

"Perchlorate Material – special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."

▶ Millimeter wave radar sensor

FCC ID: HYQDNMWR018

NOTE:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiofrequency radiation exposure Information:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator (antenna) and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

NOTE:
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'ISDE. Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps.

▶ Blind Spot Monitor

FCC ID: HYQDNMWR019

NOTE:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiofrequency radiation exposure Information:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator (antenna) and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

NOTE:
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'ISDE. Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps.

▶ Wireless charger

FCC ID : ACJ932AT2501

NOTE:
This device complies with part 15 and part 18 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.This equipment has been tested and found to comply with the limits for a wireless power charger, pursuant to part 18 of the FCC Rules.This equipment generates, uses and can radiate radio frequency energy and,
if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.If this equipment does cause harmful interference to radio communications,which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following
measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.
AT2501 has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.
The contact information for maintenance is described in the car manual by the manufacturer of the car in which this wireless charger is installed.

NOTE:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
1) L'appareil ne doit pas produire de brouillage;
2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAUTION:
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'ISDE.
Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le radiateur et le corps humain.

▶ Parking Assist-Sensor

Product name : Parking Assist-Sensor
Compliance statement : This device complies with part 18 of the FCC Rules.
Responsible Party : DENSO International America, Inc.
24777 Denso Drive, Southfield Michigan 48033 U.S.A.
https://www.denso.com/us-ca/en/about-us/company-information/us/diam/

The ultrasonic related devices comply with Canadian ICES-001(B).
The compliance label is located on the computer controlling ultrasonic sensors, that is directly shown or contained in the QR code.

Les appareils à ultrasons sont conformes à la norme NMB-001(B) du Canada. L'étiquette de conformité est située sur l'ordinateur contrôlant les capteurs à ultrasons, qui est directement affichée ou contenue dans le code QR.

▶ Garage door opener

This device complies with FCC rules part 15 and Innovation, Science, and Economic Development Canada RSS-210. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may be received including interference that may cause undesired operation. WARNING: The transmitter has been tested and complies with FCC and ISED rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. End Users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must be at least 20 cm from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with FCC rules part 15 and Innovation, Science, and Economic Development Canada RSS-210. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may be received including interference that may cause undesired operation. WARNING: The transmitter has been tested and complies with FCC and ISED rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. End Users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must be at least 20 cm from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux règlements de la FCC, section 15, et au CNR-210 d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est assujetti aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences nuisibles et (2) cet appareil doit accepter toute interférence reçue, y compris celle qui pourrait entraîner un dysfonctionnement. MISE EN GARDE : L'émetteur a subi des tests et est conforme aux règlements de la FCC et d'ISDE. Les changements ou modifications non approuvés explicitement par la partie responsable de la conformité pourraient rendre caduque l'autorisation de l'utilisateur de se servir du dispositif.

Cet appareil est conforme aux limites d'exposition aux radiations de la FCC et d'ISDE établies pour un environnement non contrôlé. Les utilisateurs finaux doivent respecter les instructions d'utilisation spécifiques pour satisfaire aux exigences de conformité aux expositions de RF. L'émetteur doit se trouver à 20 cm au minimum de l'utilisateur et ne doit pas être situé au même endroit que tout autre émetteur ou antenne ni fonctionner avec un autre émetteur ou antenne.

IC Radiation Exposure Statement:
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the manufacturer (or party responsible) for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body

▶ Kick sensor

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement é conomique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets the RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be operated with a minimum separation distance of 20cm between the equipment and a person's body.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d' exposition aux fréquences radioélectriques (RF) CNR-102 de l' ISDE. Cet équipement doit être utilisé à une distance minimale de 20 cm du corps humain.

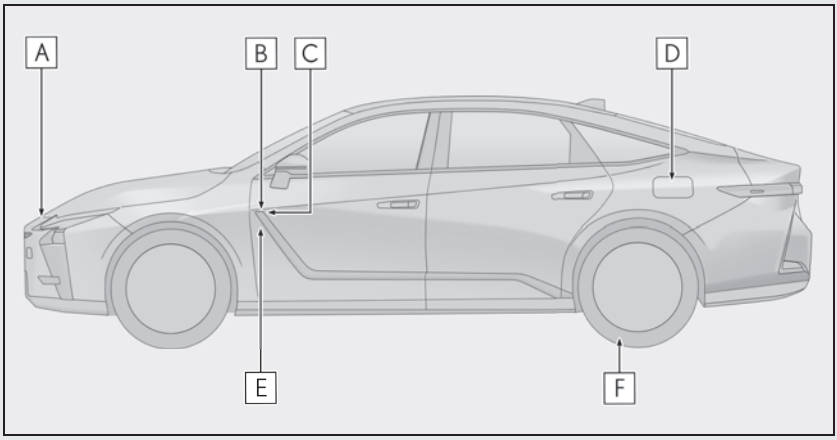
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be operated with a minimum separation distance of 20cm between the equipment and a person's body.

GAS STATION INFORMATION



A Auxiliary catch lever (→P.394)

B Trunk opener (→P.117)

C Fuel filler door opener (→P.193)

D Fuel filler door (→P.193)

E Hood lock release lever (→P.394)

F Tire inflation pressure (→P.497)

Fuel tank capacity (Reference)	14.5 gal. (55 L, 12.1 Imp. gal.)	
Fuel type	Unleaded gasoline only	P.493
Cold tire inflation pressure		P.497
Engine oil capacity (Drain and refill — reference)		P.494
Engine oil type		P.494

Owner's Manual:
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