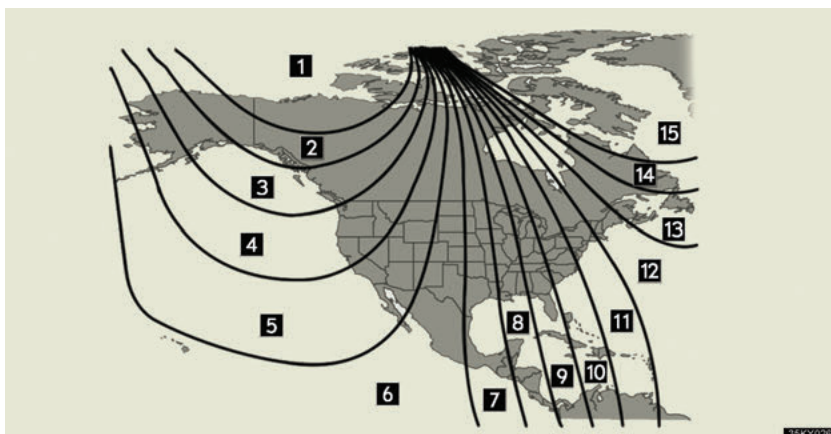


Calibrating the compass



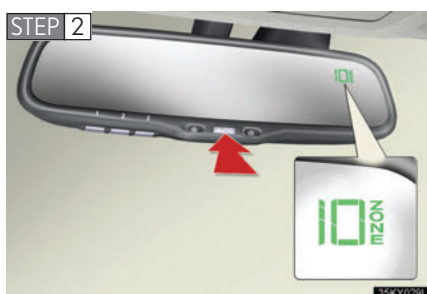
The direction display deviates from the true direction determined by the earth's magnetic field. The amount of deviation varies according to the geographic position of the vehicle.

If you cross over a map boundary shown in illustration, the compass will deviate.

To obtain higher precision or perfect calibration, refer to the following.

■ Deviation calibration

STEP 1 Stop the vehicle where it is safe to drive in a circle.



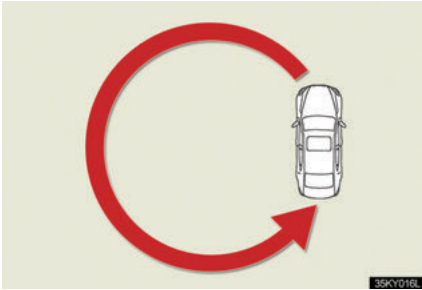
Press AUTO until a number (1 to 15) appears on the compass display.

STEP 3 Press AUTO, and referring to the map above, select the number of the zone where you are.

STEP 4 Press AUTO again.

If the direction is displayed several seconds after adjustment, the calibration is complete.

■ **Circling calibration**



If CAL appears on the display, drive the vehicle at 5 mph (8 km/h) or less in a circle until a direction is displayed.

If there is not enough space to drive in a circle, drive around the block until the direction is displayed.

■ **Conditions unfavorable to correct operation**

The compass may not show the correct direction in the following conditions:

- The vehicle is stopped immediately after turning.
- The vehicle is on an inclined surface.
- The vehicle is in a place where the earth's magnetic field is subject to interference by artificial magnetic fields (underground car park/parking lot, under a steel tower, between buildings, roof car park/parking lot, near an intersection, near a large vehicle, etc.).
- The vehicle has become magnetized.
(There is a magnet or metal object near the inside rear view mirror.)
- The battery has been disconnected.
- A door is open.

 CAUTION**■ While driving the vehicle**

Do not adjust the display. Be sure to adjust the display only when the vehicle is stopped.

■ When doing the circling calibration

Be sure to secure a wide space, and watch out for people and vehicles in the neighborhood. Do not violate any local traffic rules while performing circling calibration.

 NOTICE**■ To avoid the compass malfunctions**

Do not place magnets or any metal objects near the inside rear view mirror. Doing this may cause a malfunction of the compass sensor.

■ To ensure normal operation of the compass

- Do not perform circling calibration of the compass in a place where the earth's magnetic field is subject to interference by artificial magnetic fields.
- During calibration, do not operate electric systems (moon roof, power windows, etc.) as they may interfere with the calibration.

4-1. Maintenance and care 244

Cleaning and protecting
the vehicle exterior 244

Cleaning and protecting
the vehicle interior 246

4-2. Maintenance 249

Maintenance
requirements 249

General maintenance 251

Emission inspection and
maintenance (I/M)
programs 254

4-3. Do-it-yourself maintenance 255

Do-it-yourself service
precautions 255

Hood..... 258

Positioning the jack..... 259

Engine compartment..... 261

Tires 275

Tire inflation pressure..... 285

Wheels..... 289

Air conditioning filter 291

Electronic key battery 293

Checking and replacing
fuses..... 295

Headlight aim 309

Light bulbs..... 310

4-1. Maintenance and care

Cleaning and protecting the vehicle exterior

Perform the following to protect the vehicle and maintain it in prime condition.

- 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.

■ Automatic car washes

- Fold the mirrors back before washing the vehicle.
- Brushes used in automatic car washes may scratch the vehicle surface and harm your vehicle's paint.

■ High pressure automatic car washes

Do not allow the nozzles of the car wash to come within close proximity of the windows. Before entering an automatic car wash, check that the fuel filler door on your vehicle is closed properly.

■ Aluminum wheels

Remove any dirt immediately by using a neutral detergent. Do not use hard brushes or abrasive cleaners. Do not use strong or harsh chemical cleaners. Use the same mild detergent and wax as used on the point.

■ Bumpers and side moldings

Do not scrub with abrasive cleaners.

■ To prevent deterioration and do by corrosion

- Wash the vehicle immediately in the following cases:
 - After driving near the sea coast
 - After driving on salted roads
 - If you see coal tar or tree sap on the paint surface
 - If you see dead insects or insect droppings on the paint
 - After driving in an area contaminated with soot, oily smoke, mine dust, iron powder or chemical substances
 - If the vehicle becomes heavily soiled in 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.

CAUTION

■ Caution about the exhaust pipe

Exhaust gasses cause the exhaust pipe to become quite hot.

When washing the vehicle, be careful not to touch the pipe until it has cooled sufficiently, as touching a hot exhaust pipe can cause burns.

NOTICE

■ To protect your vehicle's painted surfaces

Do not use organic cleaners such as benzene or gasoline.

■ 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.

Cleaning and protecting the vehicle interior

The following procedures will help protect your vehicle's interior and keep it in top condition:

■ Protecting the vehicle interior

Remove dirt and dust using a vacuum cleaner. Wipe dirty surfaces with a cloth dampened with lukewarm water.

■ Cleaning the leather areas

- Remove dirt and dust using a vacuum cleaner.
- Wipe 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 shaded and ventilated area.

■ Synthetic leather areas

- Remove loose dirt using a vacuum cleaner.
- Apply a mild soap solution to the synthetic leather using a sponge or soft cloth.
- Allow the solution to soak in for a few minutes. Remove the dirt and wipe off the solution with a clean, damp cloth.

■ 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. Use a cloth dampened with lukewarm water to gently wipe the window clean. Wipe the window in strokes running parallel to the heater wires.

■ 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.

■ 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 apply water. The excellent results are obtained by keeping the carpet as dry as possible.

■ 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.

CAUTION

■ Water in the vehicle

- Be careful not to splash or spill liquid on the floor.
- Do not get any of the SRS components or wiring in the vehicle interior wet.
(→P. 57)
Electrical malfunction may cause the airbags to deploy or not function properly, resulting in death or severe injury.

NOTICE

■ **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, or bleach.
- Seats: Acidic solutions, such as thinner, benzene, or alcohol.

■ **Preventing damage to leather surfaces**

Observe the following precautions to avoid damage to and deterioration of leather surfaces.

- Remove any dust or dirt on 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 that contain wax on the upholstery, as they may stick to the leather surface if the vehicle interior heats up significantly.

■ **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 under the floor of the vehicle, and may also cause the body to rust.

■ **Cleaning the inside of the rear window**

Be careful not to scratch or damage the heater wires or antenna.

Maintenance requirements

To ensure safe and economical driving, day-to-day care and regular maintenance is essential. It is the owner's responsibility to perform regular checks. Lexus recommends the following maintenance.

■ General maintenance

Should be performed on a daily basis. This can be done by yourself or by a Lexus dealer.

■ Scheduled maintenance

Should be performed at specified intervals according to the maintenance schedule.

For details about maintenance items and schedules, refer to the "Owner's Manual Supplement/Scheduled Maintenance".

■ Do-it-yourself maintenance

You can perform some maintenance procedures 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, see the separate "Owner's Guide", "Owner's Manual Supplement" or "Warranty Booklet".

■ Repair and replacement

It is recommended that genuine Lexus parts be used for repair 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.

■ 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.

CAUTION

■ Warning in handling of 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.
- Battery posts, terminals and related accessories contain lead and lead compounds which are known to cause brain damage. Wash your hands after handling. (→P. 271)
- Used engine oil contains chemicals that have been shown to cause cancer in laboratory animals. Avoid prolonged and repeated contact. Always protect your skin by washing thoroughly with soap and water.

4-2. Maintenance

General maintenance

Listed below are the general maintenance items that should be performed at the intervals specified in the “Owners 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.

Engine compartment

Items	Check points
Battery	Maintenance-free. (→P. 271)
Brake fluid	At the correct level? (→P. 270)
Engine coolant	At the correct level? (→P. 268)
Engine oil	At the correct level? (→P. 264)
Exhaust system	No fumes or strange sounds?
Radiator/condenser/hoses	Not blocked with foreign matter? (→P. 270)
Washer fluid	At the correct level? (→P. 274)

Vehicle interior

Items	Check points
Accelerator pedal	• Moves smoothly (without uneven pedal effort or catching)?
Automatic transmission “Park” mechanism	• Can the vehicle be hold securely on an incline with the shift lever in P?
Brake pedal	• Moves smoothly? • Does it have appropriate clearance and correct amount of free play?
Brakes	• Not pull to one side when applied? • Loss of brake effectiveness? • Spongy feeling brake pedal? • Pedal almost touches floor?
Head restraints	• Move smoothly and lock securely?
Indicators/buzzers	• Function properly?
Lights	• Do all the lights come on? • Headlights aimed correctly? (→P. 309)
Parking brake	• Moves smoothly? • Can hold the vehicle securely on an incline?
Seat belts	• Does the seat belt system operate smoothly? • Are the belts undamaged?
Seats	• Do the seat controls operate properly?

Items	Check points
Steering wheel	• Moves smoothly? • Has correct free play? • No strange noises?

Vehicle exterior

Items	Check points
Door/trunk	• Operate smoothly?
Engine hood	• The lock system works properly?
Fluid leaks	• Is there any leakage after parking?
Tire	• Inflation pressure is correct? • Tire surfaces not worn or damaged? • Tires rotated according to the maintenance schedule? • Wheel nuts are not loose?

CAUTION

If the engine is running

Turn the engine off and ensure that there is adequate ventilation before performing maintenance checks.

4-2. Maintenance

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 electronic engine control system warning light 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:

- When the 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 electronic engine control system warning light comes on as a temporary malfunction and your vehicle may not pass the I/M test.

■ When the electronic engine control system warning light goes off 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.

4-3. Do-it-yourself maintenance

Do-it-yourself service precautions

If you perform maintenance yourself, be sure to follow the correct procedure given in these sections.

Items	Parts and tools
Battery condition (→P. 271)	• Warm water • Baking soda • Grease • Conventional wrench (for terminal clamp bolts)
Brake fluid level (→P. 270)	• FMVSS No.116 DOT 3 or SAE J1703 brake fluid • Rag or paper towel • Funnel (used only for adding brake fluid)
Engine coolant level (→P. 268)	• “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrate 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 engine coolant)

Items	Parts and tools
Engine oil level (→P. 264)	• “Toyota Genuine Motor Oil” or equivalent • Rag or paper towel, funnel (used only for adding engine oil)
Fuses (→P. 295)	• Fuse with same amperage rating as original
Tire inflation pressure (→P. 285)	• Tire pressure gauge • Compressed air source
Headlight aim (→P. 309)	• Phillips-head screwdriver
Radiator and condenser (→P. 270)	—
Washer fluid (→P. 274)	• Water washer fluid containing anti-freeze (for winter use) • Funnel

 **CAUTION**

The engine compartment contains many mechanisms and fluids that may move suddenly, become hot, or become electrically energized. To avoid death or serious injury.

■ **When working on the engine compartment:**

- Keep hands, clothing, and tools away from the moving fan and engine drive belt.
- Be careful not to touch the engine, 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 or rags, in the engine compartment.
- Do not smoke, cause sparks or expose an open flame to fuel or the battery. Fuel and battery fumes are flammable.
- Be extremely cautious when working on the battery. It contains poisonous and corrosive sulfuric acid.

 CAUTION**■ When working near the electric cooling fan or radiator grille:**

Be sure the engine switch is OFF.

With the engine switch in IG-ON mode, the electric cooling fan may automatically start to run if the air conditioning is on and/or the coolant temperature is high.

(→P. 270)

■ Safety glasses

Wear safety glasses to prevent flying or falling material, fluid spray, etc. from getting in the eyes.

 NOTICE**■ If you remove the air cleaner:**

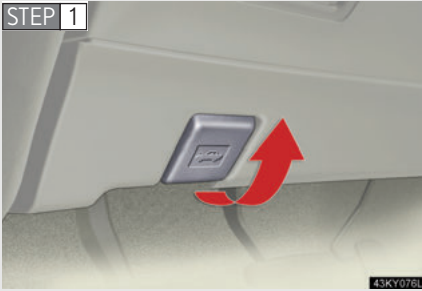
Driving with the air filter removed may cause excessive engine wear due to dirt in the air. Also a backfire could cause a fire in the engine compartment.

4-3. Do-it-yourself maintenance

Hood

Release the lock from the inside of the vehicle to open the hood.

STEP 1



Pull the hood release lever.

The hood will pop up slightly.

STEP 2



Lift the hood catch and lift the hood.



CAUTION

■ 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.

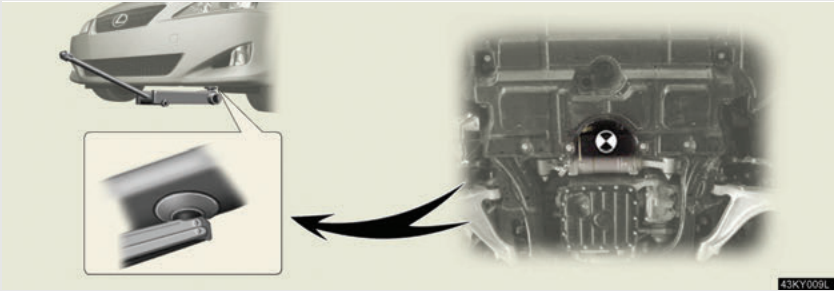
4-3. Do-it-yourself maintenance

Positioning the jack

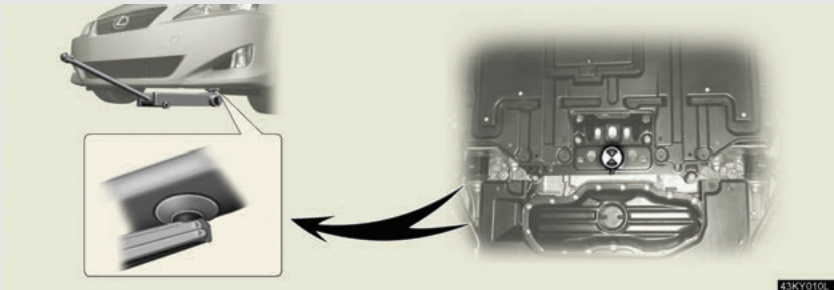
When raising your vehicle with the jack, position the jack correctly. Improper placement may damage your vehicle or cause injury.

■ Front

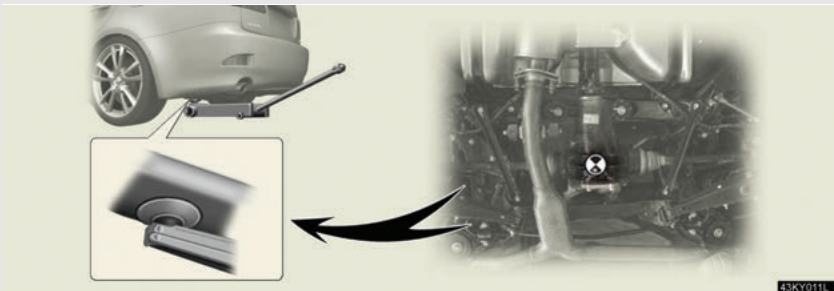
► 2WD



► AWD



■ Rear



CAUTION

■ When raising your vehicle:

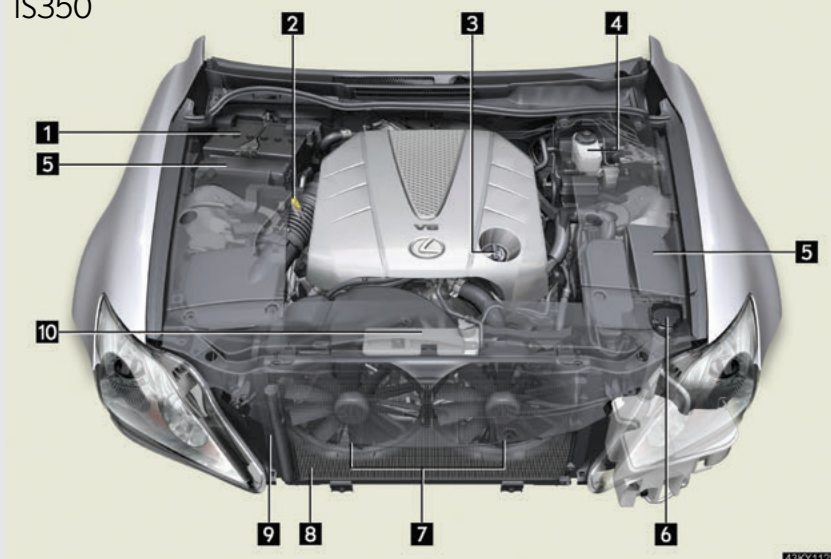
Make sure to observe the following to reduce the possibility of death or serious injury.

- Do not put any part of your body or get underneath the vehicle supported only by the jack.
Always use automotive jack stands or a solid, level, surface.
- Do not start the engine while the vehicle is supported by the jack.
- Stop the vehicle on level firm ground, firmly set the parking brake and put the shift lever in P (automatic) or R (manual).
- Make sure to set the jack properly at the jack point.
Raising the vehicle with an improperly positioned jack will damage the vehicle and may cause the vehicle to fall off the jack.
- Do not raise the vehicle while someone is in the vehicle.
- When raising the vehicle, do not place any objects on top of or underneath the jack.

4-3. Do-it-yourself maintenance

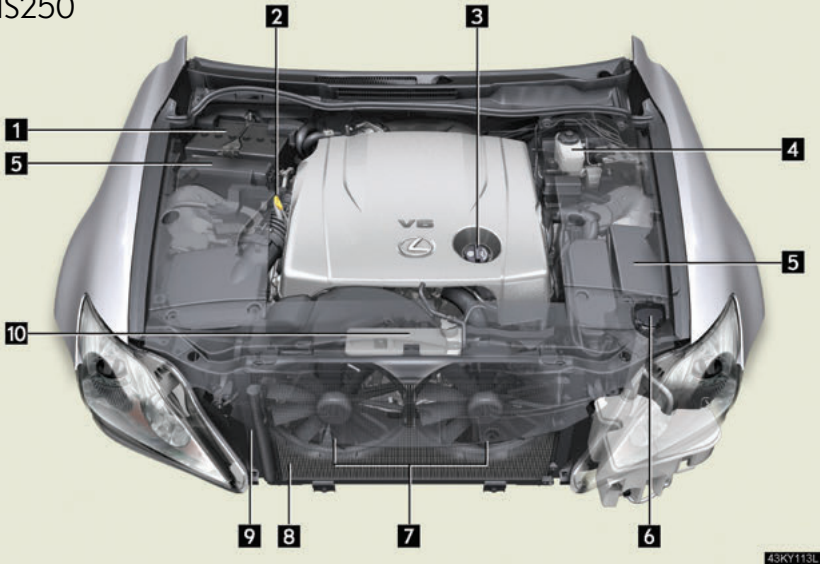
Engine compartment

IS350



- | | | | |
|------------------------------------|-----------|------------------------------------|-----------|
| 1 Battery | (→P. 271) | 6 Washer fluid tank | (→P. 274) |
| 2 Engine oil level dipstick | (→P. 264) | 7 Electric cooling fans | |
| 3 Engine oil filler cap | (→P. 264) | 8 Condenser | (→P. 270) |
| 4 Brake fluid reservoir | (→P. 270) | 9 Radiator | (→P. 270) |
| 5 Fuse boxes | (→P. 295) | 10 Engine coolant reservoir | (→P. 268) |

IS250



- | | | | |
|------------------------------------|-----------|------------------------------------|-----------|
| 1 Battery | (→P. 271) | 6 Washer fluid tank | (→P. 274) |
| 2 Engine oil level dipstick | (→P. 264) | 7 Electric cooling fans | |
| 3 Engine oil filler cap | (→P. 264) | 8 Condenser | (→P. 270) |
| 4 Brake fluid reservoir | (→P. 270) | 9 Radiator | (→P. 270) |
| 5 Fuse boxes | (→P. 295) | 10 Engine coolant reservoir | (→P. 268) |

Engine compartment cover

■ Removing the engine compartment cover

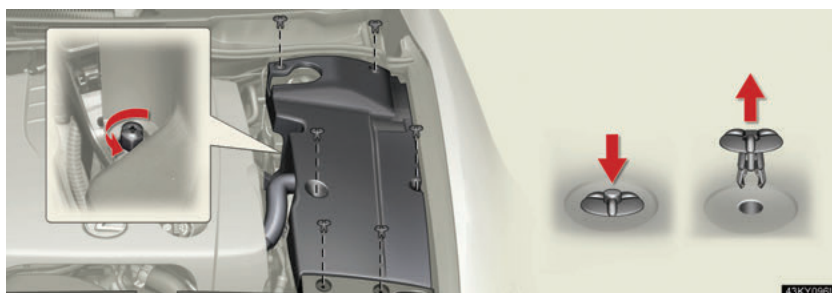
► Front



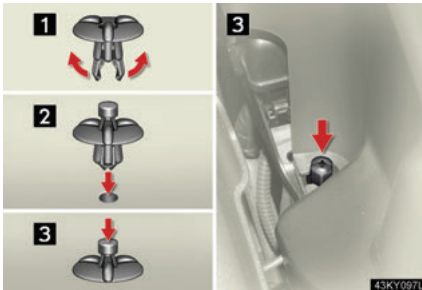
► Right-hand side



► Left-hand side



■ Installing the clips



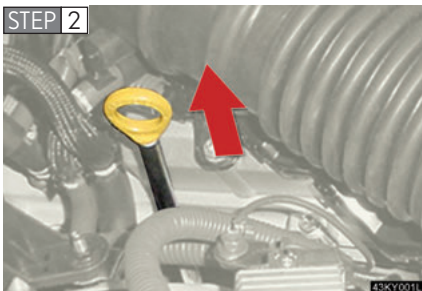
- 1 Open
- 2 Insert
- 3 Press

Engine oil

With the engine at operating temperature and turned off, check the oil level on the dipstick.

■ Checking the engine oil

STEP 1 Park the vehicle on level ground. After turning off the engine, wait a few minutes for the oil to drain back into the bottom of the engine.



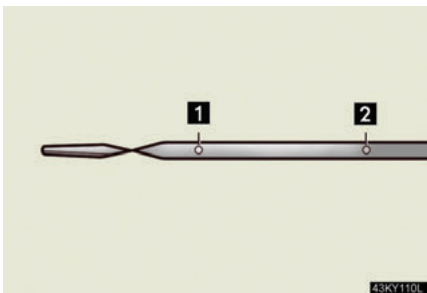
Hold a rag under the end and pull the dipstick out.

STEP 3 Wipe the dipstick clean.

STEP 4 Reinsert the dipstick fully.

STEP 5 Holding a rag under the end, pull the dipstick out and check the oil level.

STEP 6 Wipe the dipstick and reinsert it fully.



- 1** Low
- 2** Full

■ Adding engine oil



If the oil level is below or near the low level mark, add engine oil of the same type as already in the engine.

Make sure to check the oil type and prepare the items needed before adding oil.

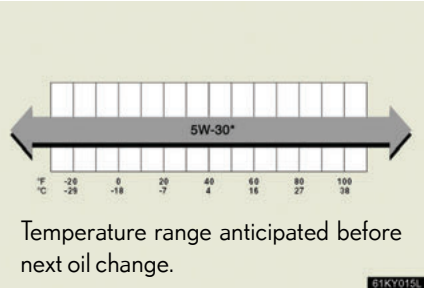
Oil grade	ILSAC multi-grade engine oil
Oil capacity (when adding)	1.6 qt. (1.5 L, 1.3 Imp. qt.)
Items	Clean funnel

STEP 1 Remove the oil filler cap.

STEP 2 Add engine oil slowly, checking the dipstick.

STEP 3 Install the filler cap, turning it clockwise.

■ Recommended viscosity



SAE 5W-30 is the best choice for good fuel economy and good starting in cold weather.

If SAE 5W-30 is not available, SAE 10W-30 may be used. However, it should be replaced with SAE 5W-30 at the next oil change.

■ How to read oil container labels

Some oil containers are labeled with ILSAC certification marks that help you to select the proper oil.



■ Engine oil consumption

- The amount of engine oil consumed depends on the oil viscosity, the quality of the oil and the way the vehicle is driven.
- More oil is consumed under driving conditions such as high speeds and frequent acceleration and deceleration.
- A new engine consumes more oil.
- When judging the amount of oil consumption, keep in mind that the oil may have become diluted, making it difficult to judge the true level accurately.
- Oil consumption: Max. 1.1 qt./600 miles, 0.9 Imp.qt./600 miles (1.0 L per 1000 km)
- If you consume more than 1.1 qt. (1.0 L, 0.9 Imp.qt.) every 600 miles (1000 km), contact your Lexus dealer.

■ Changing the engine oil (U.S.A. only)

To reset the oil change system, follow the procedure below:

1. Turn the engine switch OFF.
2. While pressing the trip meter reset knob (→P.100), set the engine switch to the IG-ON mode. Continue to press and hold the knob until the trip meter displays 000000.

⚠ CAUTION**■ Used engine oil**

- Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation or 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

■ **To prevent serious engine damage:**

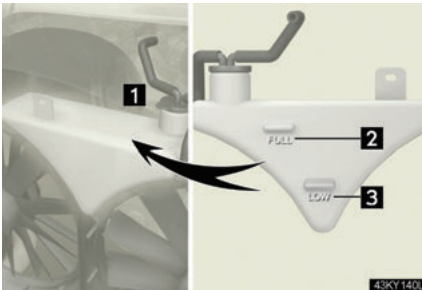
Check the oil level on regular basis.

■ **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 retightened.

Engine coolant

The coolant level is satisfactory if it is between the FULL and LOW lines on the reservoir when the engine is cold.



1 Reservoir cap

2 Full

3 Low

If the level is on or below the LOW line, add coolant up to the FULL line.

■ If the coolant level drops within a short time after replenishing

Visually check the radiator, hoses, engine coolant filler cap, radiator cap, drain cock and water pump.

If you cannot find a leak, have your Lexus dealer pressure test the cap and check for leaks in the cooling system.

■ Coolant selection

Only use Toyota Super Long Life Coolant or 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. (Enabled: -31°F [-35°C])

Canada: Toyota Super Long Life Coolant is a mixture of 55% coolant and 45% deionized water. (Enabled: -44°F [-42°C])

For more details about engine coolant, contact your Lexus dealer.

CAUTION

■ When the engine is hot

Do not remove the radiator cap.

The cooling system may be under pressure and may spray hot coolant if the cap is removed, causing burns or other injuries.

NOTICE

■ When adding engine coolant

Coolant is neither plain water nor straight antifreeze. The correct mixture of water and anti freeze must be used to provide proper lubrication, corrosion protection and cooling. Be sure to read the antifreeze or coolant label.

■ If you spill coolant

Be sure to wash it off with water to prevent it damaging parts or paint.

Radiator and condenser

Check the radiator and condenser and clear any foreign objects.
If either of the above parts are extremely dirty or you are not sure of their condition, have your vehicle checked by your Lexus dealer.

 **CAUTION**

 **When the engine is hot**
Do not touch the radiator or condenser, as they may be hot and you may be burned.

Brake fluid

 Checking fluid level



The brake fluid level should be between the MAX and MIN lines on the tank.

Make sure to check the fluid type and prepare the necessary items.

 Adding fluid

Fluid type	FMVSS No.116 DOT 3 or SAE J1703 brake fluid
Items	Clean funnel

 Brake fluid can absorb moisture from the air

Excess moisture in the fluid can cause a dangerous loss of braking efficiency. Use only newly opened brake fluid.

⚠ CAUTION**■ When filling the reservoir**

Take care because brake fluid can harm your hands or eyes and damage painted surfaces.

If fluid gets in your eyes, flush your eyes with clean water immediately.

If you still experience discomfort, see a doctor.

⚠ NOTICE**■ 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 or when the fluid level in the accumulator is high.

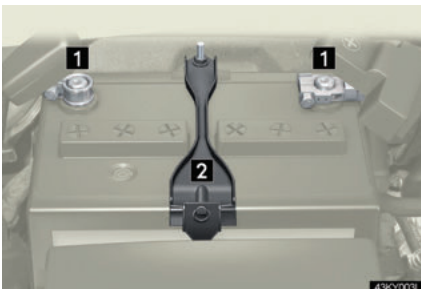
If the reservoir needs frequent refilling, it may indicate a serious problem.

Battery

Check the battery as follows.

■ Battery exterior

Make sure that the battery terminals are not corroded and that there are no loose connections, cracks, or loose clamps.

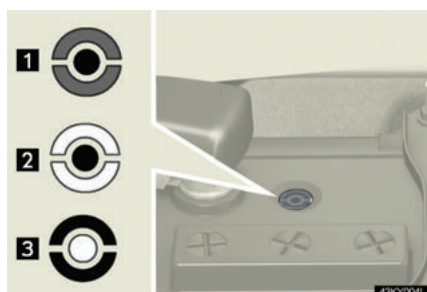


1 Terminals

2 Hold-down clamp

■ Checking battery condition

Check the battery condition using the indicator color.



- 1 Blue: Good condition
- 2 White: Charging is necessary.
Have the vehicle inspected by your Lexus dealer.
- 3 Red: Not working properly,
have the battery checked by your Lexus dealer.

■ Before recharging

When recharging, the battery produces hydrogen gas which is flammable and explosive. Therefore, before recharging:

- If recharging with the 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 battery.

■ After recharging the battery

The engine may not start. Follow the procedure below to initialize the system.

1. Shift the shift lever to P (automatic) or depress the brake pedal with the shift lever in N (manual).
2. Open and close any of the doors.
3. Restart the engine.

CAUTION

Chemicals in the battery:

A 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 battery:

- Do not cause sparks by touching the battery terminals with tools.
- Do not smoke or light a match near the battery.
- Avoid contact with eyes, skin and clothes.
- Never inhale or swallow electrolyte.
- Wear protective safety glasses when working near the battery.
- Keep children away from the battery.

Where to safely charge the battery

Always charge the battery in an open area. Do not charge the battery in a garage or closed room where there is not sufficient ventilation.

How to recharge the battery

Only perform a slow charge (5 A or less). The battery may explode if charged at a quicker rate.

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 seak 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. Follow with milk of magnesia, beaten raw egg or vegetable oil. Get emergency medical attention immediately.

NOTICE

■ When recharging the battery

Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.

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.

NOTICE

■ Do not use any fluid other than washer fluid

Do not use soapy water or engine antifreeze instead of washer fluid. Doing so may cause streaking on the vehicle's painted surfaces.

■ Diluting washer fluid

Dilute washer fluid with water as necessary.
Refer to the freezing temperatures listed on the washer fluid tank.

4-3. Do-it-yourself maintenance

Tires

Replace or rotate tires in accordance with maintenance schedules and tread wear.

■ Checking tires



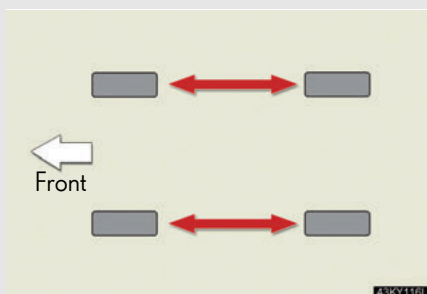
- 1 New tread
- 2 Tread wear indicator
- 3 Worn tread

The location of tread wear indicators is shown by the TWI or Δ marks, etc., molded on the side-wall of each tire.

Check spare tire condition and pressure if not rotated.

■ Tire rotation

- 2WD models with 16-inch tires and AWD models



Rotate the tires in the order shown.

Lexus recommends tire rotation in accordance with the maintenance schedule to equalize tire wear and extend tire life.

Do not fail to initialize the tire inflation warning system after tire rotation.

- 2WD models with 17-inch tires or 18-inch tires
Tires cannot be rotated.

The tire pressure warning system

Your Lexus is equipped with a tire pressure warning system that uses tire pressure sensors to detect low tire pressure before serious problems arise. (→P. 331, 335)

Before removing the tire from the wheel, remove the system's tire inflation pressure sensor. Be careful not to damage the sensor when removing and installing the tires.

Turning directional tires



1 Tire direction marks

The tires listed below are directional. The tire sidewalls are marked with arrows indicating the rolling direction of the tire. If mounted on the wrong side of the vehicle, directional tires will perform poorly.

Tire size	
Front	Rear
225/45R17 90W	245/45R17 95W
225/40R18 88Y	255/40R18 95Y

Installing tire inflation pressure sensors

When replacing tires or wheels, new tire pressure sensors must also be installed. Tire pressure sensors can be installed in any of the following three ways:

- Sensors can be removed from the old wheels and installed on the new wheels.

- When replacing only the tire, the sensor already installed on the wheel does not need to be replaced.
- Replacing both a wheel and its sensor.

When new tire pressure sensors are installed, new sensor ID codes must be registered in the ECU and tire inflation pressure sensor must be initialized. (→P. 277, 278)

Initializing the tire pressure warning system

■ The tire pressure warning system must be initialized in the following circumstances:

- When the standard tire pressure changes by replacing tires or wheels
- When tires are rotated.
- When tire pressure sensors are replaced.
- When driving with the tires inflated to a higher than standard tire pressure.

When the tire pressure warning system is initialized, the current tire pressure is set as the pressure benchmark.

■ How to initialize the tire pressure warning system

To initialize the system, use the satellite switch. (→P. 214)

STEP 1 Park the vehicle in safe place and turn off the engine.

STEP 2 Adjust the tire pressure to the specified pressure (→P. 378)

STEP 3 Turn the engine switch to IG-ON mode.

Make sure to adjust the tire pressure to the specified level. The tire inflation pressure warning system will operate based on this pressure level.



1 The tire pressure initialization setting display

Continue to press the < or > switch until the initialization setting display appears.

It may take several minutes to complete the setting. Wait for several minutes before turning the engine switch OFF if necessary.



2 Recording tire pressure settings

Press the ON/OFF button for more than 3 seconds. At this time, the tire inflation pressure warning indicator flashes 3 times and the message showing that the initial setting is complete is displayed on the multi-information display.

Registering and selecting tire inflation pressure sensor ID codes

The tire inflation pressure sensor is equipped with a unique ID code. To select tire inflation pressure sensor ID codes, use the satellite switch. (→P. 214)

■ Registering ID codes

Two separate sets of ID codes can be registered for each vehicle. This allows 2 separate sets of settings to be conveniently recorded for all season and winter tires.

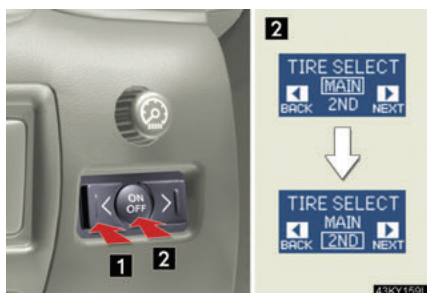
MAIN: The MAIN ID code is used for the factory installed tire pressure sensors.

2nd: The 2nd ID code is used for tire inflation pressure sensors associated with a secondary set of tires.

Make sure to have all tire inflation pressure warning system ID codes registered by your Lexus dealer. ID codes must be reset when tires or wheels are replaced.

■ Selecting ID codes

When replacing tires, make sure to select the ID code set that matches the new tire set. If the incorrect ID code is selected, the tire pressure warning system will not operate properly.



- 1 Tire pressure ID code settings display

Press < or > repeatedly until the setting display appears.

- 2 Switching ID codes

Press the ON/OFF button to switch between MAIN and 2nd ID codes.

■ When to replace your vehicle's tires

Tires should be replaced if:

- You have tire damage such as cuts, splits, cracks deep enough to expose the fabric or 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.

■ Tire life

Any tire over 6 years old must be checked by a qualified technician even if they have seldom or never been used or damage is not obvious.

■ If the tread wears down below 0.16 in. (4 mm) on snow tires

The effectiveness of snow tires is lost.

■ Low profile tires (vehicles not equipped with 205/55R16 tires)

Generally, low profile tires will wear more rapidly and tire grip performance will be reduced on snowy and/or icy roads when compared to standard tires. Be sure to use snow tires or tire chains* on snowy and/or icy roads and drive carefully at a speed appropriate for road and weather conditions.

*: Tire chains cannot be mounted on 18-inch tires.

■ Maximum load of tire

Check that the maximum load of the replaced 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.

As for the maximum load of the tire, see the load limit at maximum cold tire inflation pressure mentioned on the sidewall of the tire, and as for the Gross Axle Weight Ratings (GAWR), see the Certification Label. (→P. 285, 387).

■ Tire types

1 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.

2 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.

3 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 restriction. Snow tires should be installed on all wheels. (→P. 151)

■ Initializing the tire inflation pressure warning system

Initialize the tires with the tire inflation pressure adjusted to the specified level.

■ When the initialization of the tire inflation pressure warning system has failed

Initialization can be completed in a few minutes. However, in the following cases, the settings have not been recorded and the system will not operate properly. If repeated attempts to record tire inflation pressure settings are unsuccessful, have the vehicle inspected by your Lexus dealer.

- When operating the satellite switch, the warning light does not flash and the setting message does not appear on the multi-information display. (The tires cannot be initialized while the vehicle is running.)
- After driving for approximately 20 minutes since the initialization has been completed, the warning light flashes.

■ Routine tire inflation pressure checks

The tire inflation 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.

■ Tire inflation pressure warning system certification

- For vehicles sold in the U.S.A.

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.

NOTICE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 or television reception, 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.
- Consult the dealer or an experienced radio/TV technician for help.

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 vehicles sold in Canada

NOTE:

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

 CAUTION**■ When inspecting or replacing tires**

Observe the following precautions to prevent accidents. Failure to do so may cause damage to parts of the drive train, as well as dangerous handling characteristics, which may lead to fatal or injury accidents.

- Do not mix tires of different makes, models, tread patterns or tread wear.
- Do not use tire sizes other than those recommended by Lexus.
- Do not mix radial, bias-belted, or bias-ply tires.
- Do not mix summer, all season and winter tires.

 NOTICE**■ Repairing or replacing tires, wheels and sensors**

- When removing the tires from the wheels, be careful not to damage the system's tire inflation warning sensors. Contact your Lexus dealer for details regarding the removal and installation procedures.
- When replacing tires, make sure also to replace the tire inflation pressure sensor grommets.

■ Do not use puncture sealant sprays to repair flats

Puncture sealant sprays may damage tire inflation pressure sensors.

NOTICE

■ Driving on rough roads

Take particular care when driving on roads with loose surfaces or potholes. These conditions may cause losses in tire air 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.

■ Low profile tires and wheels

Wheels with profile tires like 17- and 18-inch tires may cause greater damage than usual to the tire wheel when receiving impact from the road surface. Therefore pay attention to the following:

- Be sure to use proper tire inflation pressure. If tires are under-inflated, they may be damaged more severely.
- Avoid hot holes, uneven pavement, curbs and other road hazards. Failure to do so can lead to severe tire and wheel damage.

■ If tire inflation pressures become low while driving

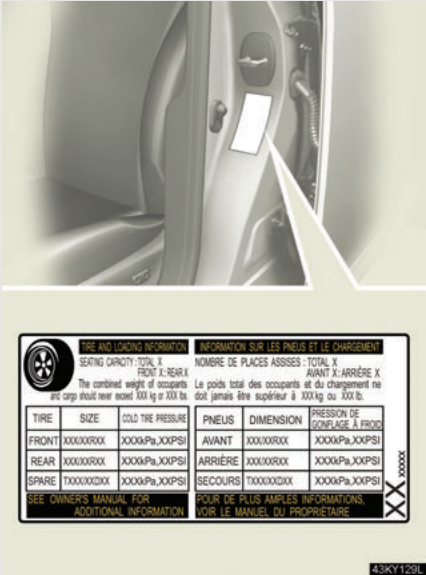
Do not continue driving, or your tires and/or wheels may be ruined.

4-3. Do-it-yourself maintenance

Tire inflation pressure

Tire inflation pressure

The recommended cold tire inflation pressure and tire size is displayed on the tire and loading information label. (→P. 378)



■ Inspection and adjustment procedure



STEP 1 Remove the tire valve cap.

STEP 2 Press the tip of the tire pressure gauge onto the tire valve.

STEP 3 Read the pressure using the graduations of the gauge.

STEP 4 If the tire inflation pressure is not within the recommended levels, adjust inflate the tire.
If you add too much air, press the center of the valve to lower.

STEP 5 After completing the tire inflation pressure measurement and adjustment, apply soapy water to the valve and check for leakage.

STEP 6 Reinstall the tire valve cap.

■ Tire inflation pressure check interval

You should check tire pressure every two weeks, or at least once a month.
Do not forget to check the spare.

■ Effects of incorrect tire inflation pressure

Driving with incorrect tire pressure may result in the following:

- Reduced fuel efficiency
- Reduced driving comfort and tire life
- Reduced safety
- Damage to the drive train

If a tire needs frequent refilling, have it checked by your Lexus dealer.

■ Instructions for checking tire 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 and has not been driven for more than 1 mile or 1.5 km, you will get an accurate cold tire inflation pressure reading.
- Always use a tire pressure gauge.
The appearance of the tire can be misleading. In addition, tire inflation pressures that are even just a few pounds off can degrade ride and handling.
- Do not bleed or reduce tire inflation pressure after driving. It is normal for the tire inflation pressure to be higher after driving.
- Never exceed the vehicle capacity weight.
Passengers and luggage weight should be placed so that the vehicle is balanced.

CAUTION

■ Proper inflation is critical to save tire performance

Keep your tires properly inflated. Otherwise, the following conditions may occur and result in an accident causing death or serious injury.

- Excessive wear
- Uneven wear
- Poor handling
- Possibility of blowouts resulting from overheated tires
- Poor sealing of the tire bead
- Wheel deformation and/or tire separation
- A greater possibility of tire damage from road hazards

NOTICE

■ When inspecting and adjusting tire pressure

Be sure to reinstall the tire valve caps.

Without the valve caps, dirt or moisture could get into the valve and cause air leakage, which could result in an accident. If the caps have been lost, replace them as soon as possible.

Wheels

If a wheel is bent, cracked or heavily corroded, it should be replaced. Otherwise, the tire may separate from the wheel or cause 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 offset.

Replacement wheels are available at your Lexus dealer.

Lexus does not recommend using:

- Wheels of different sizes or types
- Used wheels
- Bent wheels that have been straightened

■ 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.

■ When replacing wheels

The wheels of your Lexus are equipped with sensors that allow the tire pressure warning system sensors to provide advanced warning in the event of a loss in tire pressure. Whenever wheels are replaced, the tire inflation pressure sensors must be switched over from the old wheels. (→P. 277)

CAUTION

■ 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 loss of handling control.
- Never use an inner tube in a leaking wheel which is designed for a tubeless tire. Doing so may result in an accident, causing serious injury or death.

NOTICE

■ Replacing tire inflation pressure sensors

- Because tire repair or replacement may affect the tire pressure sensors, make sure to have tires serviced by your Lexus dealer or other qualified service shop. In addition, make sure to purchase your tire pressure sensors at your Lexus dealer.
- Ensure that only Genuine Lexus wheels are used on your vehicle.
Tire pressure sensors may not work properly with non-genuine wheels.

4-3. Do-it-yourself maintenance

Air conditioning filter

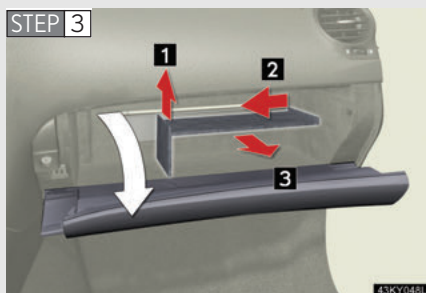
The air conditioning filter must be changed regularly to maintain air conditioning efficiency.

STEP 1 Set the air conditioning system to recirculated mode.

The air conditioning filter case cannot be removed with the system in the outside air mode.

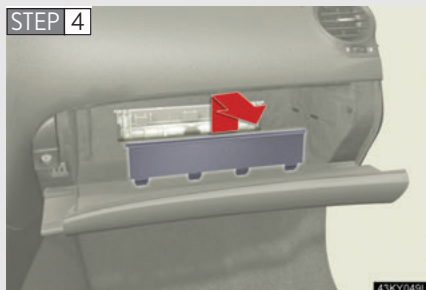
STEP 2 Turn the engine switch OFF.

STEP 3



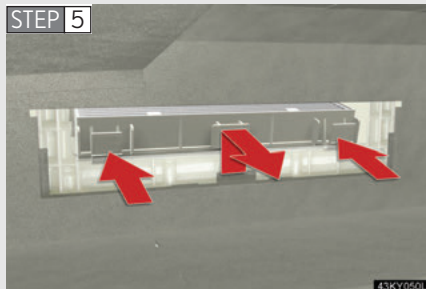
Open the glove box. Lift and remove the partition.

STEP 4



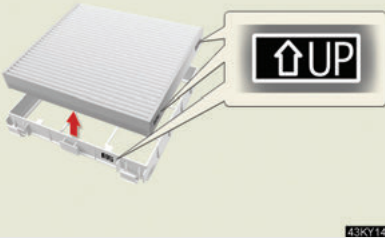
Remove the filter cover.

STEP 5



Remove the filter case.

STEP 6



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.

■ Changing 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/Scheduled Maintenance".)

■ If air flow from the vents decreases dramatically

The filter may be clogged. Check the filter and replace if necessary.

NOTICE

■ When using the air conditioning system

Make sure that a filter is always installed.

Using the air conditioning system without a filter may cause damage to the system.

4-3. Do-it-yourself maintenance

Electronic key battery

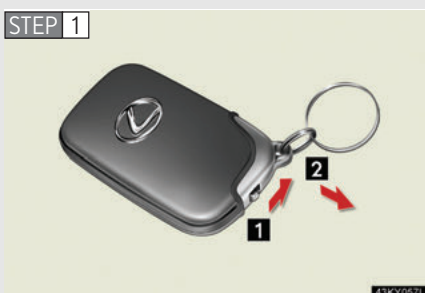
Replace the battery with a new one if it is discharged.

■ You will need the following items:

- Flathead screwdriver
- Small Phillips-head screwdriver
- Lithium battery (CR1632)

■ Replacing the battery

STEP 1



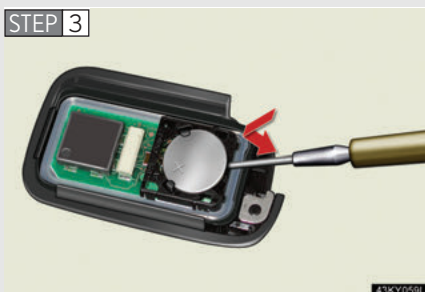
Take out the mechanical key.

STEP 2



Remove the cover.

STEP 3



Remove the depleted battery.

Insert a new battery with the + terminal facing up.

■ If the electronic key battery is discharged

The following symptoms may occur.

- The smart access system with push-button start and wireless remote control will not function properly.
- The operational range is reduced.

■ Use a CR1632 lithium battery

- Batteries can be purchased at your Lexus dealer, jewelers, or camera stores.
- Replace only with the same or equivalent type recommended by a Lexus dealer.
- Dispose of used batteries according to the local laws.

CAUTION

■ Removed battery and other parts

Keep away from children.

These parts are small and if swallowed by a child they can cause choking.

NOTICE

■ 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 components inside the remote control.
- Do not bend either of the battery terminals.

4-3. Do-it-yourself maintenance

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.

STEP 1 Turn the engine switch OFF.

STEP 2 Remove the engine compartment cover.

→P. 263

STEP 3 Open the fuse box cover.



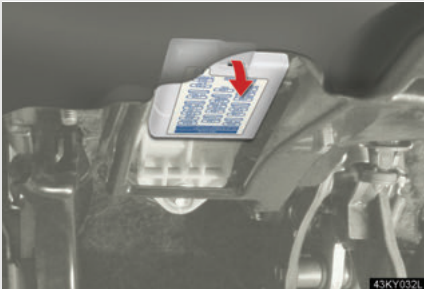
► Engine compartment (type A)

Push the tabs in and lift the lid off.



► Engine compartment (type B)

Push the tabs in and lift the lid off.

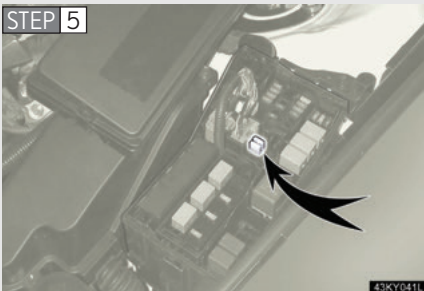


► Driver's side instrument panel
Remove the lid.

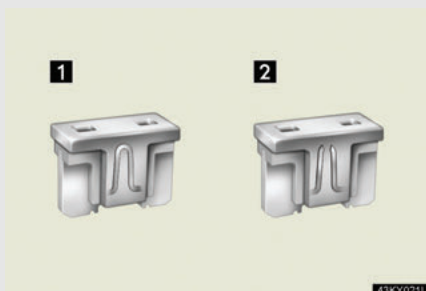


► Passenger's side instrument panel
Remove the lid.

STEP 4 After a system failure, see "Fuse layout and amperage ratings" (→P. 299) for details about which fuse to check.



STEP 5 Remove the fuse with the pull-out tool.

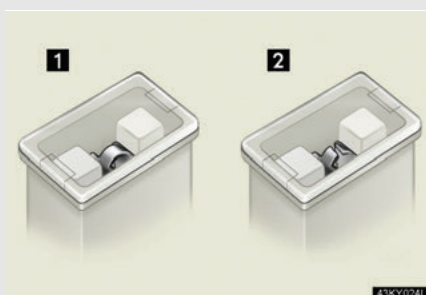
STEP 6 Check if the fuse has blown.

► Type A

1 Normal fuse

2 Blown fuse

Replace it with one of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

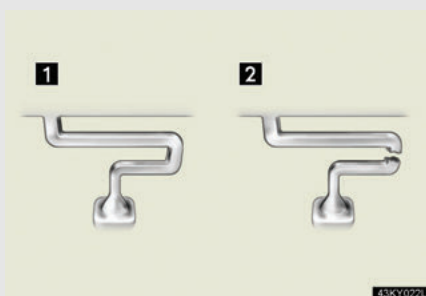


► Type B

1 Normal fuse

2 Blown fuse

Replace it with one of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

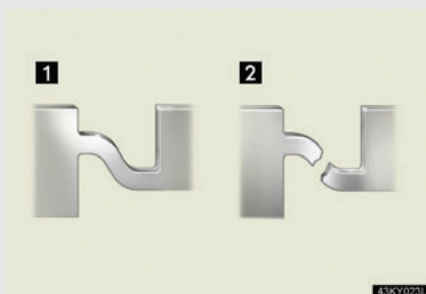


► Type C

1 Normal fuse

2 Blown fuse

Contact your Lexus dealer.



► Type D

1 Normal fuse

2 Blown fuse

Contact your Lexus dealer.

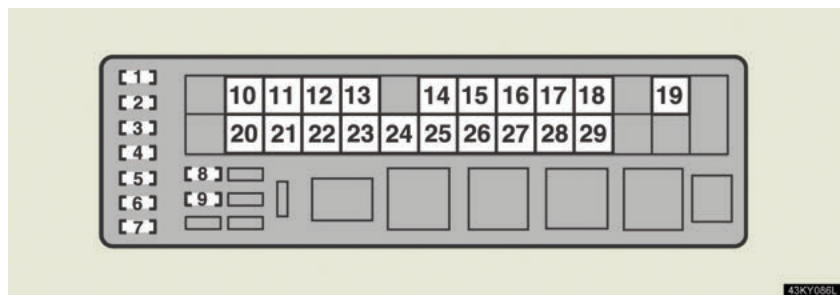
Removing the front controller (engine compartment: type B)



Lift the lid off while pushing the tabs on either side.

Fuse layout and amperage ratings

■ Engine compartment (type A)

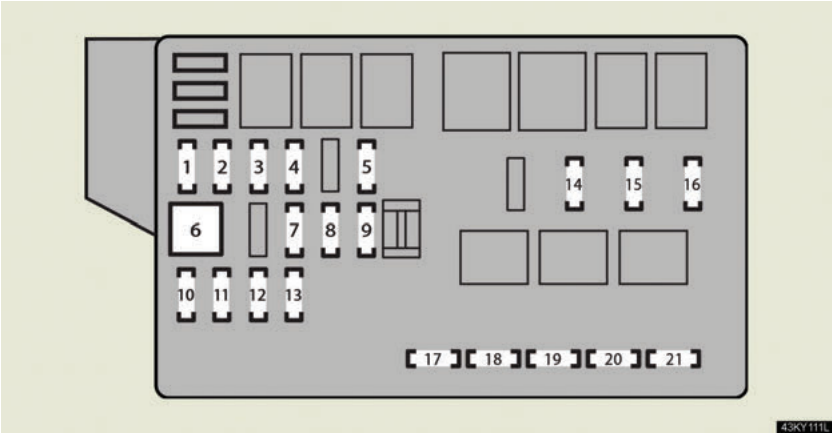


Fuse		Ampere	Circuit
1	ABS NO.3	25A	VDIM
2	PWR HTR	25A	—
3	TURN-HAZ	15A	Emergency flashers, turn signals
4	IG2 MAIN	20A	IG2, IGN, GAUGE
5	RAD NO.2	30A	Audio
6	D/C CUT	20A	DOME, MPX-B
7	RAD NO.1	30A	Audio
8	MPX-B	10A	Headlights, front fog lights, parking lights, license plate lights, windshield washer, horn, power door lock system, power windows, power seats, electric tilt and telescopic steering column, meter, smart access system with push-button start, outside rear view mirrors, air conditioning system, security system
9	DOME	10A	Interior lights, meter

Fuse		Ampere	Circuit
10	E/G-B	60 A	FR CTRL-B, ETCS, ALT-S, steering lock system, exhaust system
11	DIESEL GLW	80 A	——
12	ABS1	50 A	VSC, VDIM
13	RH J/B-B	30A	Power door lock system, smart access system with push-button start
14	MAIN	30A	Headlight low beams
15	STARTER	30A	Smart access system with push-button start
16	LH J/B-B	30A	Power door lock system, SECURITY
17	P/I-B	60 A	Multiport fuel injection system/ sequential multiport fuel injection system
18	EPS	80 A	Power steering
19	ALT	150 A	LH J/B-AM, E/G-AM, GLW PLG2, HEATER, FAN1, FAN2, DEFOG, ABS2, RH J/B-AM, GLW PLG1, LH J/B-B, RH J/B-B
20	GLW PLG1	50 A	PTC heater
21	RH J/B-AM	80 A	OBD, STOP SW, TI&TE, FR P/SEAT RH, RAD NO.3, ECU-IG RH, RH-IG, FR S/HTR RH, ACC, CIG, PWR OUTLET
22	ABS2	30A	VSC
23	DEFOG	50 A	Rear window defogger
24	FAN2	40 A	Electric cooling fans
25	FAN1	40 A	Electric cooling fans
26	HEATER	50 A	Air conditioning system

Fuse		Ampere	Circuit
27	GLW PLG2	50 A	PTC heater
28	E/G-AM	60 A	Headlight cleaners, front fog lights, parking lights, air conditioning system
29	LH J/B-AM	80 A	S/ROOF, FR P/SEAT LH, TV NO.1, A/C, FUEL/OPEN, PSB, FR WIP, H-LP LVL, LH-IG, ECU-IG LH, PANEL, TAIL, MIR HTR, FR S/HTR LH

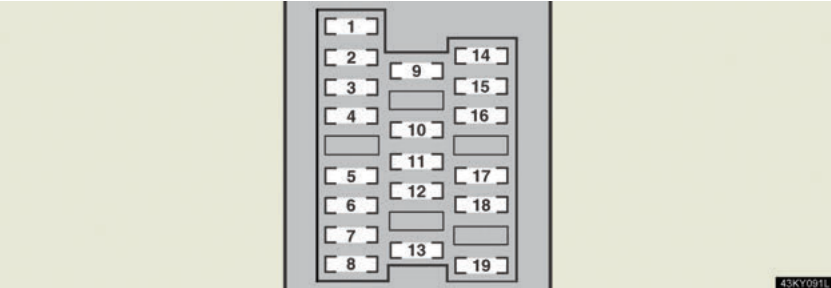
■ Engine compartment (type B)



Fuse		Ampere	Circuit
1	FR CTRL-B	25A	Headlight high beam, horn
2	A/F	15A	Exhaust system
3	ETCS	10A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
4	ALT-S	7.5 A	Charging system
5	STR LOCK	25A	Steering lock
6	H-LP CLN	30A	Headlight cleaner
7	A/C COMP	7.5 A	Air conditioning system
8	DEICER	25A	—
9	FR CTRL-AM	30A	Front fog lights, parking lights, wind- shield washer
10	IG2	10A	Ignition system
11	EFI NO.2	10A	Fuel system, exhaust system
12	H-LP R LWR	15A	Headlight low beam (right)
13	H-LP L LWR	15A	Headlight low beam (left)

	Fuse	Ampere	Circuit
14	F/PMP	25A	Fuel system
15	EFI	25A	Multiport fuel injection system/ sequential multiport fuel injection system
16	INJ	20A	Multiport fuel injection system/ sequential multiport fuel injection system
17	H-LP UPR	15A	Headlight high beams
18	HORN	10A	Horns
19	WASHER	20A	Windshield washer
20	FR TAIL	10A	Parking lights
21	FR FOG	15A	Front fog lights

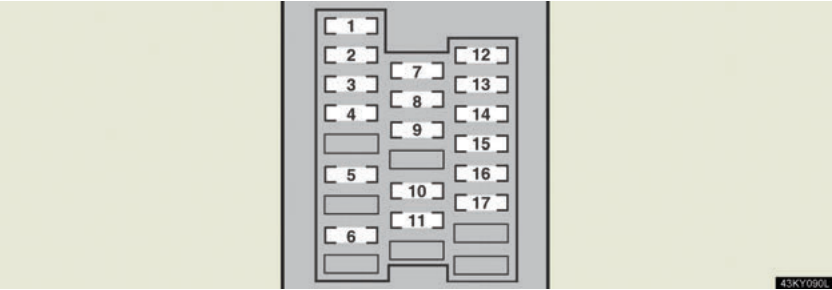
■ Driver’s side instrument panel



Fuse		Ampere	Circuit
1	FR P/SEAT LH	30A	Power seat
2	A/C	7.5 A	Air conditioning system
3	MIR HTR	15A	Outside rear view mirror defoggers
4	TV NO.1	10A	Display
5	FUEL OPEN	10A	Fuel filler door opener
6	TV NO.2	7.5 A	———
7	PSB	30A	Pre-collision seat belt
8	S/ROOF	25A	Electric moon roof
9	TAIL	10A	Tail lights, license plate lights, parking lights
10	PANEL	7.5 A	Switch illumination, air conditioning system, display
11	RR FOG	7.5 A	———
12	ECU-IG LH	10A	Cruise control, air conditioning system, power steering, rain sensor, anti-glare inside rear view mirror, shift lock system, moon roof, tire inflation pressure warning system
13	FR S/HTR LH	15A	Seat heaters and ventilators

Fuse		Ampere	Circuit
14	RR DOOR LH	20A	Power windows
15	FR DOOR LH	20A	Power windows
16	SECURITY	7.5 A	Smart access system with push-button start
17	H-LP LVL	7.5 A	AFS
18	LH-IG	10A	Charging system, headlight cleaner, rear window defogger, electric cooling fans, emergency flashers, turn signal lights, back-up lights, stop lights, mirror heaters, sun shade, seat belts, park assist system, cruise control, air conditioning system, PTC heater
19	FR WIP	30A	Windshield wipers

■ Passenger's side instrument panel



Fuse		Ampere	Circuit
1	FR P/SEAT RH	30A	Power seat
2	DOOR DL	15A	_____
3	OBD	7.5 A	On-board diagnosis system
4	STOP SW	7.5 A	Stop lights
5	TI & TE	20A	Electric tilt and telescopic steering column
6	RAD NO.3	10A	Audio
7	GAUGE	7.5 A	Meter
8	IGN	10A	SRS airbag system, Lexus link system, cruise control, steering lock system, fuel system
9	ACC	7.5 A	Lexus link system, clock, air conditioning system, audio, display, outside rear view mirrors, smart access system with push-button start
10	CIG	15A	Cigarette lighter
11	PWR OUTLET	15A	Power outlet
12	RR DOOR RH	20A	Power windows

Fuse		Ampere	Circuit
13	FR DOOR RH	20A	Power windows, outside rear view mirrors
14	AM2	15A	Smart access system with push-button start
15	RH-IG	7.5 A	Seat belts, park assist system, automatic transmission, seat heater and ventilator
16	FR S/HTR RH	15A	Seat heaters and ventilators
17	ECU-IG RH	10A	Power seats, smart access system with push-button start, AWD system, outside rear view mirrors, VDIM, VSC, air conditioning system, pre-collision safety belt, electric tilt and telescopic steering, power windows, navigation system

■ After a fuse is replaced

- If the lights do not turn on even after the fuse has been replaced, a bulb may need replacement. (→P. 310)
- If the replaced fuse blows again, have the vehicle inspected by your Lexus dealer.

■ If there is an overload in the circuits

The fuses are designed to blow before the entire wiring harness is damaged.

 CAUTION

■ **To prevent system breakdowns and vehicle fire**

- Observe the following precautions.
Failing to do so may cause damage, and possibly a fire or injury.
- Never use a fuse of a higher amperage rating than 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.
This can cause extensive damage or even fire.
- Do not modify fuses or the fuse box.

 NOTICE

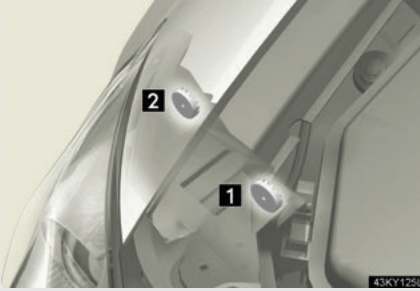
■ **Before replacing fuses**

Have the cause of electrical overload determined and repaired by your Lexus dealer.

4-3. Do-it-yourself maintenance

Headlight aim

Vertical movement adjusting bolts



1 Adjustment bolt A

2 Adjustment bolt B

Before checking the headlight aim

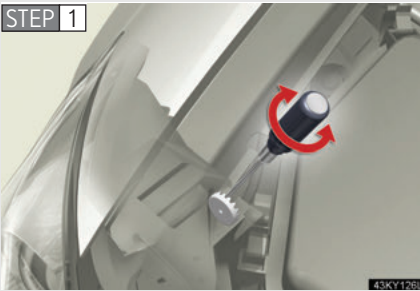
STEP 1 Make sure the vehicle has a full tank of gas and the area around the headlight is not deformed.

STEP 2 Park the vehicle on level ground.

STEP 3 Sit in the driver's seat.

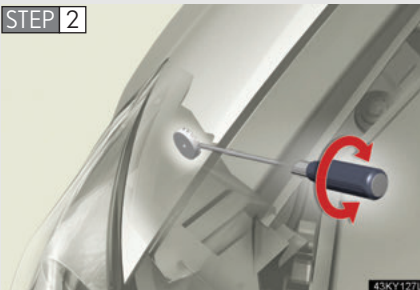
STEP 4 Bounce the vehicle several times.

Adjusting the headlight aim



Turn bolt A in either direction using a Phillips-head screwdriver.

Remember the turning direction and the number of turns in mind.



Turn bolt B the same number of turns and in the same direction as step 1 using a Phillips-head screwdriver.

If the error is over the value specified above, take the vehicle to your Lexus dealer to adjust the headlight aim.

4-3. Do-it-yourself maintenance

Light bulbs

You may replace the following bulbs yourself. For more information about replacing other light bulbs, contact your Lexus dealer.

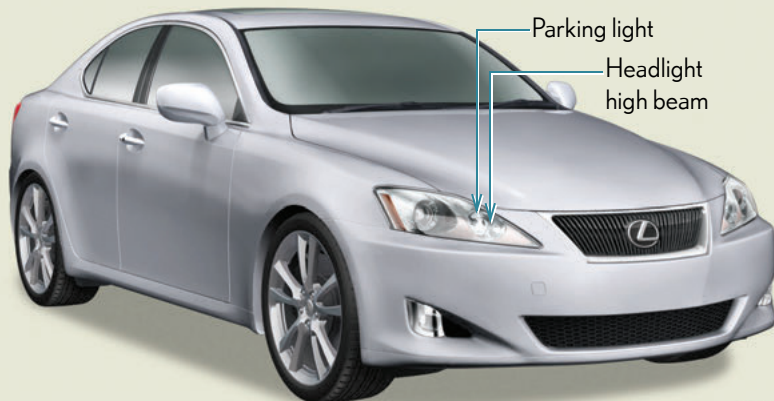
■ Prepare a replacement light bulb.

Check the wattage of the light bulb being replaced. (→P. 383)

■ Remove the engine compartment cover.

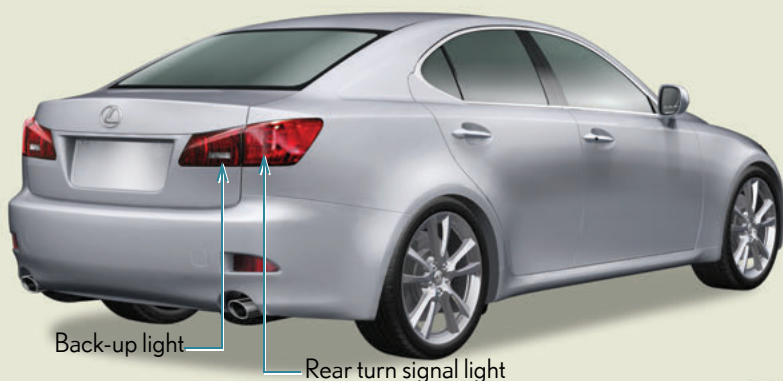
→P. 263

■ Front bulb locations



43KY121L

■ Rear bulb locations

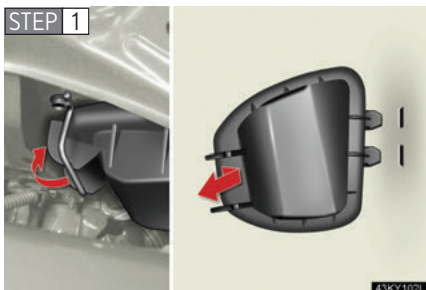


43KY154L

Replacing light bulbs

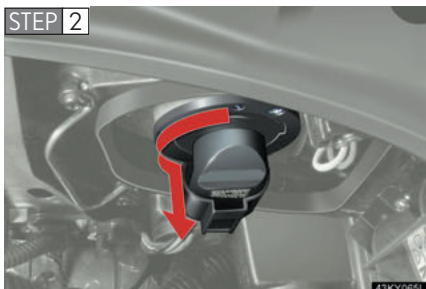
■ Headlight high beams

STEP 1



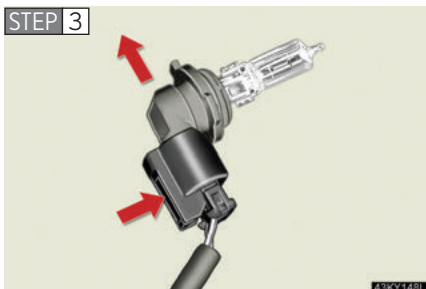
Release the lock and remove the cover.

STEP 2



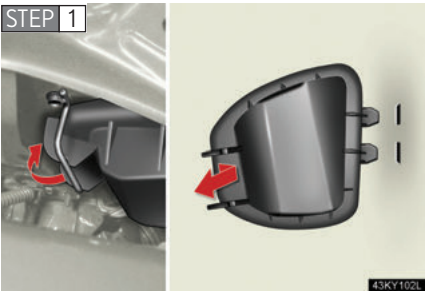
Turn the bulb base counterclockwise.

STEP 3



Unplug the connector while depressing the lock release.

Parking lights



Release the lock and remove the cover.

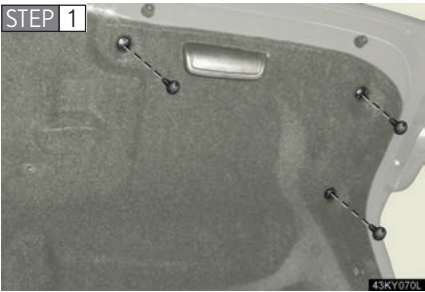


Turn the bulb base counterclockwise.

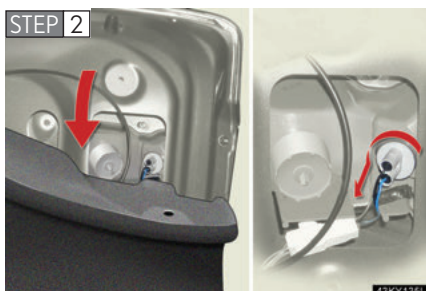


Remove the light bulb.

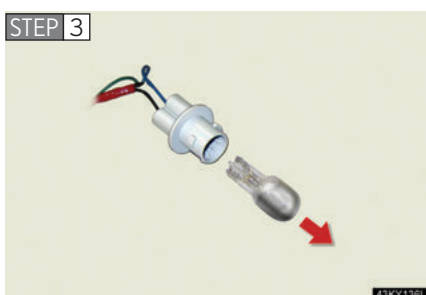
Back-up light



Open the trunk door and remove the trunk panel cover clips.

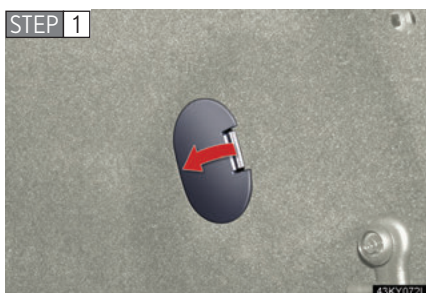


Partly remove the trunk panel cover and turn bulb bases counterclockwise.

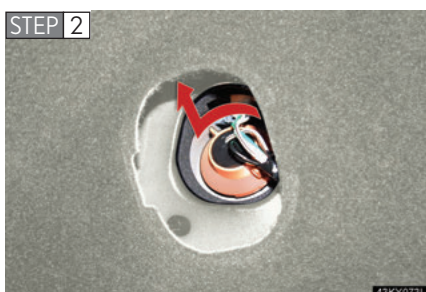


Remove the light bulb.

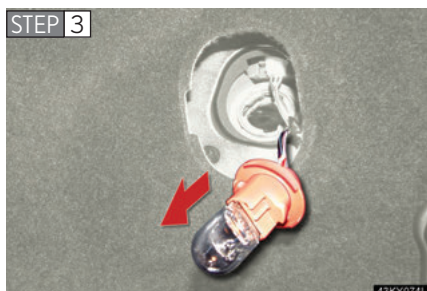
■ Rear turn signal lights



Open the trunk door and remove the cover.



Turn the bulb base counterclockwise.



Remove the light bulb.

Bulbs other than the above

If any of the bulbs listed below has burnt out, have your Lexus dealer replace it.

- Headlight low beams (halogen bulbs)
- Headlight high and low beams (discharge bulbs)
- Front fog lights
- Front turn signal lights
- Front side marker lights
- Stop/tail lights
- Tail lights
- Rear side marker lights
- High mounted stoplight
- License plate lights

■ When replacing the front left headlight and parking light bulbs



Remove the securing bolt and move the washer fluid filler opening to allow easy access to the light bulbs.

After replacing the bulbs, make sure to secure the washer fluid filler opening with the bolt.

■ Condensation build-up on the inside of the lens

Contact your Lexus dealer for more information in the following situations. Temporary condensation build-up on the inside of the headlight lens does not indicate a malfunction.

- Large drops of water are built up on the inside of the lens.
- Water has built up inside the headlight.

■ Discharge headlights

If voltage to the discharge bulbs is insufficient, the bulbs may not come on, or may go out temporarily. The discharge bulbs will come on when normal power is restored.

CAUTION

■ Replacing light bulbs

- Turn off the headlights. Do not attempt to replace the bulb immediately after turning off the headlights.
The bulbs become very hot and may cause burns.
- Do not touch the glass portion of the light bulb with bare hands. Hold the bulb by the plastic or metal portion.
If the bulb is scratched or dropped it may blow out or crack.
- Fully install light bulbs and any parts used to secure them. Failing to do so may result in heat damage, fire, or water entering the headlight unit. This may damage the headlights or cause condensation to build up on the lens.
- Do not attempt to repair or disassemble light bulbs, connectors, electric circuits or component parts.
Doing so may result in serious injury due to electric shock.

■ Discharge headlights

- Contact your Lexus dealer before replacing discharge headlights (including light bulbs).
- Do not touch the high voltage socket while the headlights are turned on.
20000 V is momentarily generated and may cause severe injury by electric shock.

■ To prevent damage or fire

Make sure bulbs are fully seated and locked.

When trouble arises

5

5-1. Essential information 318

If your vehicle needs to be
towed..... 318

If you think something is
wrong 325

Fuel pump shut off system 326

Event data recorder 327

If your vehicle overheats 365

If the vehicle becomes
stuck 367

5-2. Steps to take in an emergency 329

If a warning light turns on or
a warning buzzer
sounds..... 329

If a warning message is
displayed 334

If you have a flat tire 348

If the engine will not start 356

If the shift lever cannot
be shifted from P 357

If you lose your keys 358

When the electronic key
battery is discharged 359

If the vehicle battery is
discharged 362

5-1. Essential information

If your vehicle needs to be towed

If towing is necessary, we recommend having your vehicle towed by your Lexus dealer or a commercial towing service, using a lift-type truck or a flat bed truck.

Use a safety chain system for all towing, and abide by all state/provincial and local laws.

If towing from the rear, the vehicle's front wheels and axles must be in good condition. (→P. 322)

If they are damaged, use a towing dolly or flat bed truck.

Before towing

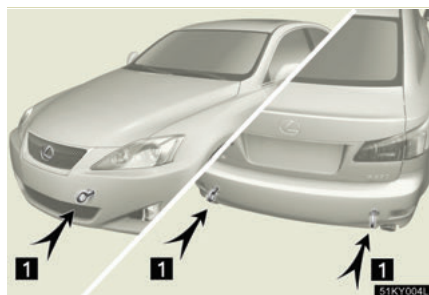
The following may indicate a problem with your transmission. Contact your Lexus dealer before towing.

- The engine is running, but the vehicle will not move.
- The vehicle makes an abnormal sound.

Emergency towing

If a tow truck is not available, in an emergency your vehicle may be temporarily towed using a cable or chain secured to the emergency towing eyelet(s). This should only be attempted on hard, surfaced roads for short distances at low speeds.

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.



1 Towing eyelets

■ Emergency towing procedure

STEP 1 Release the parking brake.

STEP 2 Put the transmission in N.

STEP 3 Put the engine switch in the ACC mode (engine off) or the IG-ON mode (engine running).

CAUTION

■ Caution while towing

- Use extreme caution when towing the vehicle.
Avoid sudden starts or erratic driving maneuvers which place excessive stress on the emergency towing eyelets and the cables or chains.
- If the engine is not running, the power assist for the brakes and steering will not function, making steering and braking more difficult.

NOTICE

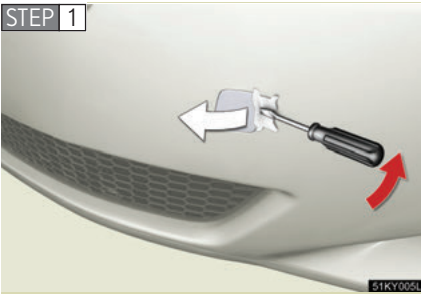
■ To prevent causing serious damage to the transmission (for vehicles with an automatic transmission)

Never tow this vehicle from the front with the rear wheels on the ground.
This may cause serious damage to the transmission.

■ When towing a vehicle without using a towing dolly (for vehicles with a manual transmission)

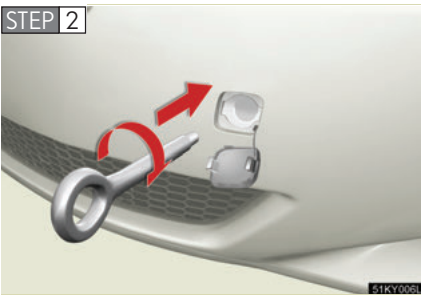
The engine switch must not be OFF.

Installing towing eyelets

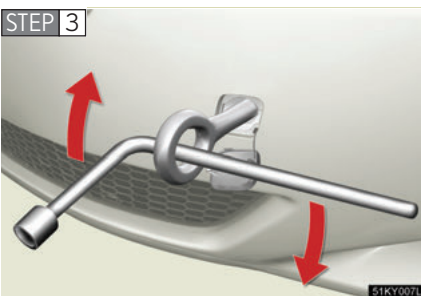


Remove the eyelet cover using a flat head screwdriver.

To protect the bodywork, place a rag between the screwdriver and the vehicle body, as shown in the illustration.



Insert the towing eyelet into the hole and tighten partially by hand.



Tighten down the towing eyelet securely using a wheel nut wrench.

■ Location of the emergency towing eyelet

→P. 348

! CAUTION**■ Installing towing eyelets to the vehicle**

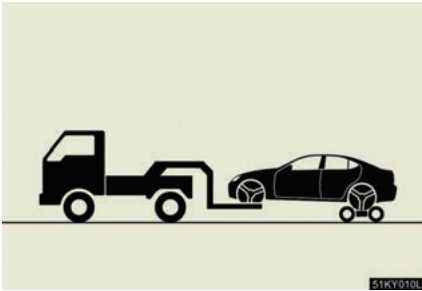
Make sure that towing eyelets are installed securely.

If not securely installed, towing eyelets may come loose during towing. This may lead to accidents that cause serious injury or even death.

Towing with a sling-type truck**! NOTICE****■ To prevent body damage**

Do not tow with a sling type truck, either from the front or rear.

Towing with a wheel lift-type truck



► From front

Vehicles with an automatic transmission: Use a towing dolly under the rear wheels.

Vehicles with a manual transmission: We recommend to use a towing dolly under the rear wheels.

When not using a towing dolly, turn the engine switch to ACC mode and shift the shift lever to N.

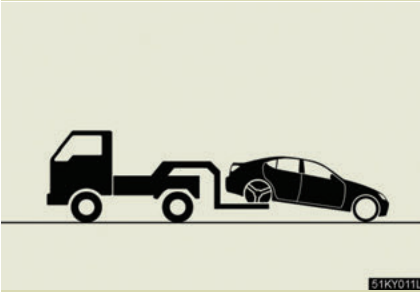
NOTICE

■ **To prevent causing serious damage to the transmission
(for vehicles with an automatic transmission)**

Never tow this vehicle from the front with the rear wheels on the ground.

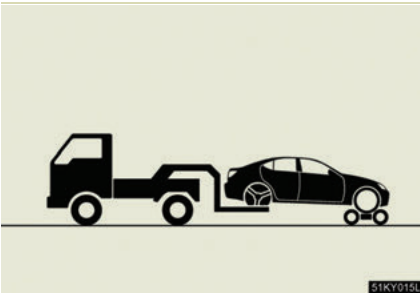
■ **When towing a vehicle without using a towing dolly
(for vehicles with a manual transmission)**

The engine switch must not be OFF.



Switch to ACC mode so that the steering wheel is unlocked.

From the rear (2WD models)



Use a towing dolly under the front wheel.

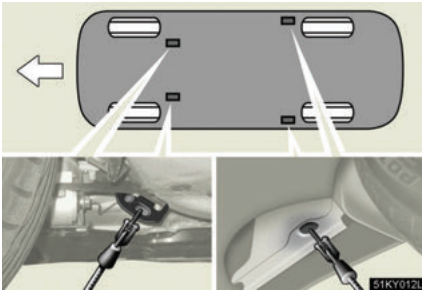
From the rear (AWD models)

NOTICE

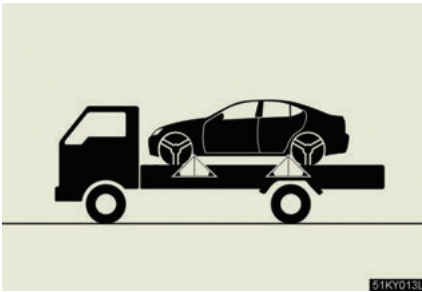
■ To prevent damaging the vehicle

- Do not tow the vehicle with the engine switch OFF.
The steering lock mechanism is not strong enough to hold the front wheel straight.
- 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.

Using a flat bed truck



If your Lexus is transported by a flat bed truck, it should be tied down at the locations shown in the illustration.



If you use chains or cables to tie down your vehicle, the angles shaded in black must be 45°.

Do not overly tighten the tie downs or the vehicle may be damaged.

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 needle 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 engine

■ Operational symptoms

- Engine missing, stumbling or running rough
- 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

5-1. Essential information

Fuel pump shut off system

To minimize the risk of fuel leakage when the engine stalls or an airbag inflates upon collision, the fuel pump shut off system stops supplying fuel to the engine.

Follow the procedure below to restart the engine after the system is activated.

STEP 1 Switch to ACC mode or OFF.

STEP 2 Restart the engine.



NOTICE

■ Before starting the engine

Inspect the ground under the vehicle.

If you find that fuel has leaked on to the ground, the fuel system has been damaged and it is in need of repair. Do not restart the engine.

5-1. Essential information

Event data recorder

Your vehicle has computers that monitor and control certain aspects of your vehicle. These computers assist in driving and maintaining optimal vehicle performance.

Besides storing data useful for troubleshooting, there is an event data recorder (EDR) that records data in a crash or a near car crash event.

In a crash or a near car crash event

The EDR may record some or all of the following information.

- Engine speed
- Whether the brake pedal was applied or not
- Vehicle speed
- To what extent the accelerator pedal was depressed
- Position of the transmission shift lever
- Whether the driver and front passenger wore seat belts or not
- Driver's seat position
- SRS airbag deployment data
- SRS airbag system diagnostic data

If your vehicle is equipped with a vehicle stability control (VSC) system

Your Lexus' Electronic Control Unit (ECU) may contain another EDR. There are a variety of driving situations which include activating the VSC under which the VSC EDR will record certain information. The VSC EDR may record some or all of the following information:

- Behavior of the vehicle
- Steering wheel angle
- Vehicle speed

- To what extent the accelerator pedal was depressed
- To what extent the brake pedal was applied
- To what extent the ECU controlled the condition of the 4 wheels
- Vehicle stability control system diagnostic data

Disclosure of the 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 leasing company for a leased vehicle) is obtained
- Officially requested by the police or other authorities
- Used as a defense for Lexus in a law suit
- Ordered by a court law

However, if necessary Lexus will:

- Use the data for research on Lexus vehicle safety performance
- Disclose the data to a third party for research purposes without disclosing details of the vehicle owner, and only when it is deemed necessary
- Disclose summarized data cleared of vehicle identification information to a non-Lexus organization for research purposes

5-2. Steps to take in an emergency

If a warning light turns on or a warning buzzer sounds...

Calmly perform the following actions if any of the warning lights turn on or flash. If a light turns on or flashes, but then turns off, this does not necessarily indicate a malfunction in the system.

Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details
 (U.S.A.)	Brake system warning light (warning buzzer)* • Low brake fluid • Malfunction in the brake booster system This light also comes on when the parking brake is not released. If the light turns off after the parking brake is fully released the system is operating normally.
 (Canada)	

*: Parking brake engaged warning buzzer:

→P. 339

Stop the vehicle immediately.

The following warnings indicate the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details
	Charging system warning light Indicates a malfunction in the vehicle's charging system.

Have the vehicle inspected by your Lexus dealer immediately.

Failing to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning light	Warning light/Details
 (U.S.A.)  (Canada)	Malfunction indicator lamp Indicates a malfunction in: • The electronic engine control system; • The electronic throttle control system; or • The electronic automatic transmission control system.
	SRS warning light Indicates a malfunction in: • The SRS airbag system; or • The seat belt pretensioner system.

Warning light	Warning light/Details
 (U.S.A.)  (Canada)	ABS warning light Indicates a malfunction in: • The ABS; or • The brake assist system.
	Electric power steering system warning light • Indicates a malfunction in the EPS (Electric Power Steering) system.
	Pre-collision system warning light (if equipped) • Indicates a malfunction in the pre-collision system.

Have the malfunction repaired immediately.

After taking the specified steps to correct the suspected problem, check that the warning light turns off.

Warning light	Warning light/Details	Correction procedure
	Open door warning light (warning buzzer)*¹ Indicates that a door or a trunk is not fully closed.	Check that all doors and the trunk are closed.
	Low fuel level warning light Remaining fuel (Approximately 2.9 gal. [11 L, 2.4 Imp.gal.] or less)	Refuel the vehicle.
	Driver's seat belt reminder light (warning buzzer)*² Warns the driver to fasten his/her seat belt.	Fasten the seat belt.

Warning light	Warning light/Details	Correction procedure
	Front passenger's seat belt reminder light (warning buzzer)*2 Warns the front passenger to fasten his/her seat belt.	Fasten the seat belt.
	Low tire pressure warning light	
	Indicates low tire pressure.	Adjust the tire pressure.
	A malfunction in the tire pressure warning system.	→P. 335
	Master warning light A buzzer sounds and the warning light comes on and flashes to indicate that the master warning system has detected a malfunction.	→P. 334

***1:Open door warning buzzer:**

→P. 339

***2:Driver's and front passenger's seat belt reminders:**

The driver's and front passenger's seat belts reminder sounds to alert the driver and front passenger that his or her seat belt is not fastened. The buzzer sounds intermittently for 10 seconds after the vehicle has reached a speed of at least 12 mph (20 km/h). Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds.

■ If the electronic engine control system warning light comes on while driving

First check the following:

- Is your vehicle low on gas?
If it is, refuel the vehicle immediately.
- Is the fuel tank cap loose?
If it is, tighten it securely.

The light will go off after taking several driving trips.

If the light does not go off even after several trips, contact your Lexus dealer as soon as possible.

■ Front passenger detection sensor and passenger seat belt reminder

- If luggage is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash, 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.

5-2. Steps to take in an emergency

If a warning message is displayed

If a warning is shown on the multi-information display, stay calm and perform the following actions:



- 1 Master warning light
The master warning light also comes on or flashes in order to indicate that a message is currently being displayed on the multi-information display.
- 2 Multi-information display

If any of the warning light turns on again after performing the following actions, contact your Lexus dealer.

Stop the vehicle immediately.

A buzzer sounds and a warning message is shown on the multi-information display. The following warnings indicate the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning message	Details
  (Flashing)	Indicates an abnormal engine oil pressure. The warning light may turn on if the engine oil pressure is too low.

Have the vehicle inspected by your Lexus dealer immediately.

A buzzer sounds and a warning message is shown on the multi-information display. Failing to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning message	Details
  (If equipped)	Indicates a malfunction in the AWD system.
  (Flashing and then continuously on) 	Indicates a malfunction in the tire pressure warning system. (→P. 276)
  (Flashing)	Indicates a malfunction in the steering lock system.

5-2. Steps to take in an emergency

Warning message	Details
 (If equipped)	Indicates a malfunction in the pre-collision system.
 (If equipped)	Indicates Lexus parking assist-sensor malfunction. The malfunctioning assist-sensor is shown flashing on the display.
 (If equipped)  (Flashing) 	Indicates a malfunction in the radar cruise control system. Stop the vehicle in a safe place. Switch the engine switch to OFF and then to IG-ON mode again to reset the cruise control system.

■ If the tire pressure warning system is inoperative

The tire pressure warning system may become inoperative in the following circumstances:

- The vehicle's wheels have not been equipped with tire pressure sensors.
- The sensor batteries are dead.
- If wireless frequencies the same as those used by the sensors are being used by other facilities or equipment in the vicinity of the vehicle.
- If snow or ice has collected on or around the wheel or wheelhouse.
- If non-genuine wheels are used on the vehicle.
- When driving with tire chains.
- If wireless devices or other equipment that operate on similar frequencies to those used by the sensors are being used
- If the select switch is used to select the wrong set of sensors (wheels)
- If the tire pressure was not set to the specified level when the system was initialized



NOTICE

■ Precaution when installing a different tire

When a tire of a different specification or maker is installed, the tire pressure warning system may not operate properly.

Have the vehicle inspected by your Lexus dealer immediately.

Failing to investigate the cause of the following warning may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning message	Details
	Indicates a malfunction in the TRAC, VSC, ABS, BA or hill-start assist control systems.

Have the malfunction repaired immediately.

A buzzer sounds and a warning message is shown on the multi-information display. After taking the specified steps to correct the suspected problem, check that the warning message turns off.

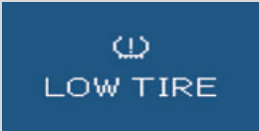
Warning message	Details	Correction procedure
 RIGHT FRONT DOOR  LEFT FRONT DOOR  RIGHT REAR DOOR  LEFT REAR DOOR	Indicates that one or more of the doors is not fully closed. The system also indicates which doors are not fully closed.  flashes and a buzzer sounds to indicate that one or more of the doors is not fully closed (with the vehicle having reached a speed of 3 mph [5 km/h]).	Make sure that all of the doors are closed.
 HOOD OPEN	Indicates that the hood is not fully closed.  flashes and a buzzer sounds to indicate that hood is not fully closed (with the vehicle having reached a speed of 3mph [5km/h]).	Close the hood.

5-2. Steps to take in an emergency

Warning message	Details	Correction procedure
	Indicates that the trunk is not fully closed.  flashes and a buzzer sounds to indicate that trunk is not fully closed (with the vehicle having reached a speed of 3mph [5km/h]).	Close the trunk.
  (Flashing)	Indicates that the moon roof is not fully closed (with the engine switch OFF and the driver's door opened).	Close the moon roof.
  (Flashing)	Indicates that the parking brake is still engaged (with the vehicle having reached a speed of more than 3 mph [5 km/h]).	Release the parking brake.
 	Indicates that the washer fluid level is low.	Add washer fluid.

Warning message	Details	Correction procedure
 	Indicates that engine oil level is low.	Check the level of engine oil, and add if necessary.
  (U.S.A. only)	Indicates that the engine oil is scheduled to be changed. Comes on approximately 4500 miles (7200 km) after the engine oil is changed. (The indicator will not work properly unless the oil maintenance data has been reset).	Check and the engine oil, and change if necessary.
  (U.S.A. only)	Indicates that the engine oil should be changed. Comes on approximately 5000 miles (8000 km) after the engine oil is changed (and the oil maintenance data has been reset).	Check and change the engine oil.

5-2. Steps to take in an emergency

Warning message	Details	Correction procedure
  	Indicates low tire pressure.	Check the tire pressure, and adjust to the appropriate level.
  (Flashing)  (If equipped)	Indicates that the pre-collision system is not currently functional.	Clean the grille and the sensor. This message appears when the pre-collision system is hot. In this case, wait until the system cools down.
 (If equipped) 	Indicates that Lexus parking assist-sensor is dirty or covered with ice.	Clean the sensor.
 (If equipped)  (Flashing) 	Indicates that the radar cruise control sensor is dirty or covered with ice.	Clean the sensor.

Warning message	Details	Correction procedure
 (Flashing and then continuously on) (If equipped)  (Flashing) 	Indicates that the radar cruise control system is unable to judge vehicle-to-vehicle distance.	• Switch the driving mode to either the normal or PWR mode. • If the windshield wipers are on, turn them off or set them to either the intermittent or the slow mode.
 (Flashing) (If equipped)	Indicates that your vehicle is nearing the vehicle ahead (in radar cruise mode).	Slow the vehicle by applying the brakes.

■ Changing the engine oil (U.S.A. only)

Make sure to reset the oil change system. (→P. 264)

■ Warning light display in radar cruise mode

In the following cases, the warning light may not be displayed even if vehicle-to-vehicle distance closes.

- When your vehicle and the vehicle ahead are traveling at the same speed or the vehicle ahead is traveling more quickly than your vehicle
- When the vehicle ahead is traveling at a very low speed
- Immediately after cruise control speed is set
- At the instant the accelerator pedal is depressed

CAUTION

■ 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 (low tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (low 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 (low tire pressure warning light).

Have the malfunction repaired immediately.

After taking the specified steps to correct the suspected problem, check that the warning light turns off.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	—	 (Comes on for 8 seconds.)  (Flashing)	Indicates that the electronic key is not present when attempting to start the engine.	Confirm the location of the electronic key.
Once	3 times	  (Flashing)	Indicates that a door other than the driver's door has been opened or closed with the engine switch OFF and the electronic key outside of the detection area.	Confirm the location of the electronic key.

5-2. Steps to take in an emergency

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	3 times	KEY IS NOT DETECTED (For vehicles with an automatic transmission)  (Flashing)	Indicates that the driver's door has been opened or closed with the shift lever in P, the engine switch in any mode other than OFF and the electronic key outside of the detection area.	Turn the engine switch OFF or confirm the location of the electronic key.
Once	Continuous	SHIFT TO P RANGE KEY IS NOT DETECTED (Displayed alternately) (For vehicles with an automatic transmission)  (Flashing)	Indicates that the driver's door has been opened or closed (with the shift lever out of in P, the engine switch in any mode other than OFF and the electronic key outside of the detection area).	• Shift the shift lever to P. • Confirm the location of the electronic key.
Once	—	LOW KEY BATTERY  (Flashing)	Indicates that the key battery is low.	Replace the battery. (→P. 293)

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	—	 (For vehicles with an automatic transmission)	Indicates that a door has been opened or closed and the engine switch has been switched twice to ACC mode from OFF.	Press the engine switch while applying the brakes.
Once	—	 (For vehicles with a manual transmission)	Indicates that a door has been opened or closed and the engine switch has been switched twice to ACC mode from OFF.	Press the engine switch while depressing the clutch pedal.
Once	—	  (Flashing)	Indicates that the steering lock has not released within 3 seconds of pressing the engine switch.	Press the engine switch again while turning the steering wheel with the brake pedal depressed.

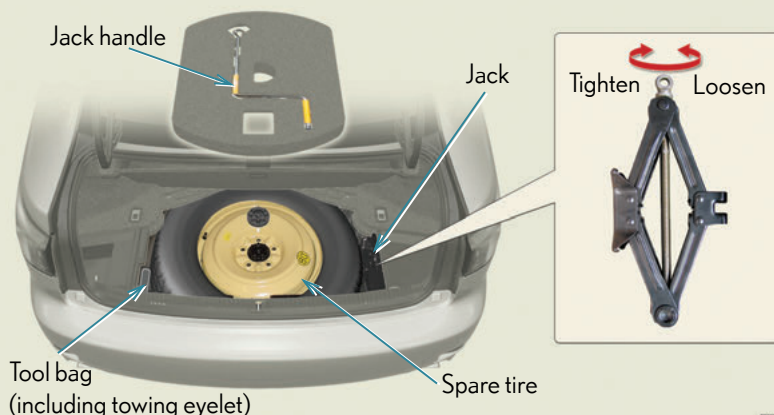
5-2. Steps to take in an emergency If you have a flat tire

Remove the flat tire and replace it with the spare provided.

■ Before jacking up the vehicle

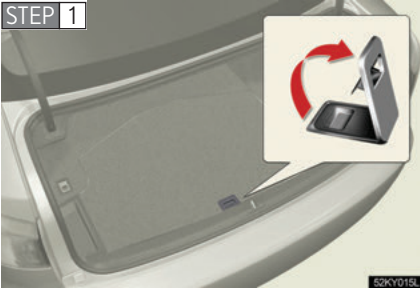
- Stop the vehicle on a hard, flat surface.
- Set the parking brake.
- Shift the shift lever to P (automatic) or R (manual).
- Stop the engine.
- Turn on the emergency flashers.

■ Location of the spare tire, jack and tools



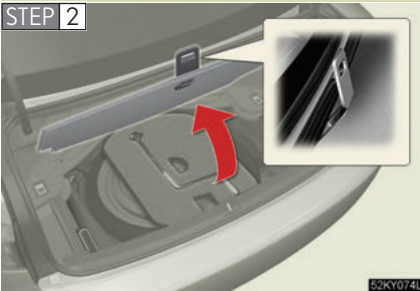
Taking out the spare tire

STEP 1



Lift up the hook of the panel on the trunk floor.

STEP 2



Secure the panel using the hook provided.

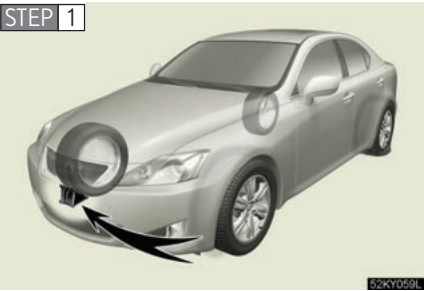
STEP 3



Loosen the center fastener that secures the spare tire.

Replacing a flat tire

STEP 1



Chock the tires.

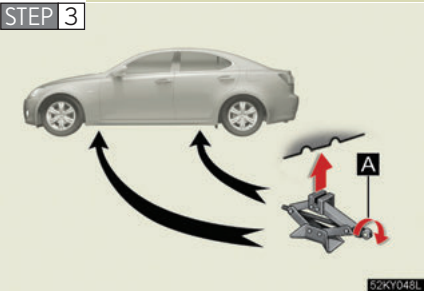
Flat tire		Wheel chock positions
Front	Left-hand side	Behind the rear right-hand side tire
	Right-hand side	Behind the rear left-hand side tire
Rear	Left-hand side	In front of the front right-hand side tire
	Right-hand side	In front of the front left-hand side tire

STEP 2

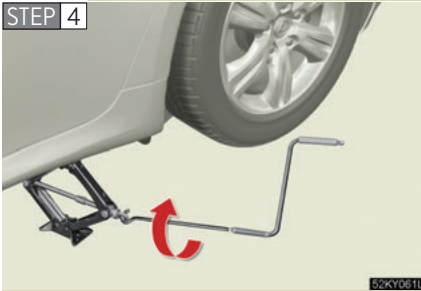


Slightly loosen the wheel nuts (one turn).

STEP 3



Turn the tire jack portion “A” by hand until the notch of the jack is in contact with the jack point.



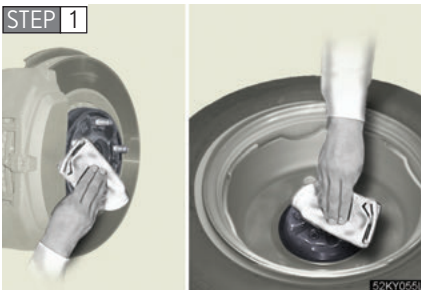
Raise the vehicle until the tire is slightly raised off the ground.



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.

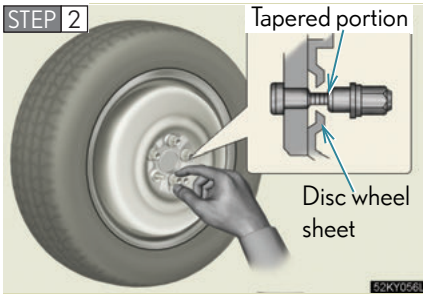
Installing the spare tire



Remove any dirt or foreign matter from the wheel contact surface.

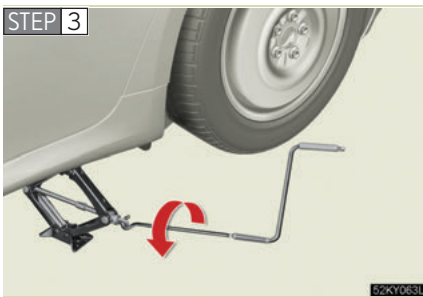
If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, and the tire may come off the vehicle.

5-2. Steps to take in an emergency

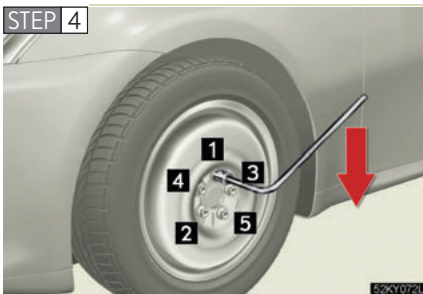


Install the spare tire and loosely tighten each nut by hand to approximately the same amount.

Tighten the wheel nuts until the tapered portion comes into loose contact with the disc wheel sheet.



Lower the vehicle.



Firmly tighten each nut two or three times in the order shown in the illustration.

Tightening torque:
10.5 kgf•m (103 N•m, 76 ft•lbf)

STEP 5 Stow the flat tire, tire jack and all tools.

■ The compact spare tire

- The compact spare tire is identified by the label TEMPORARY USE ONLY on the tire sidewall.
Use the compact spare tire temporarily only in an emergency.
- Make sure to check the tire pressure of the compact spare tire. (→P. 378)

■ If you have a flat rear tire on a road covered with snow or ice

Install the compact spare tire on the front of the vehicle. Perform the following steps and fit tire chains to the rear tires.

STEP 1 Replace a front tire with the compact spare tire.

STEP 2 Replace the flat rear tire with the tire removed from the front of the vehicle.

STEP 3 Fit tire chains to the rear tires.

■ After completing the tire change

The tire pressure warning system must be reset. (→P. 277)

CAUTION

■ Using the tire jack

Improper use of the tire jack may lead to death or injuries due to the vehicle suddenly falling off the jack.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire. Do not use it on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Always check that the tire jack is securely set to the jack point.
- Do not put any part of your body under the vehicle supported by a jack.
- Do not start or run the engine while your vehicle is supported by the jack.
- Do not raise the vehicle while someone is in it.
- 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.

Take particular care when lowering the vehicle to ensure that no one working on or near the vehicle may be injured.

■ Replacing a flat tire

Observe the following precautions to reduce the risk of injury.

- Never use oil or grease on the wheel bolts or wheel nuts.
The oil or grease can cause the wheel nuts to loosen, causing a serious accident. Remove any oil or grease on the wheel bolts or wheel nuts.
- Have the wheel nuts tightened with a torque wrench to 10.5 kgf•m (103 N•m, 76 ft•lbf) as soon as possible after changing wheels.
Failure to follow these precautions could cause the nuts to loosen and the wheels may fall off, which could lead to an accident causing death or serious injury.

 CAUTION**■ When using the spare tire**

- Remember that your spare tire is specifically designed for use with your vehicle. Do not use your spare tire on another vehicle.
- Do not use two spare tires simultaneously.
- Replace the spare tire with a standard tire as soon as possible.
- Avoid sudden acceleration, deceleration and braking, as well as sharp cornering.

■ Speed limit when using the compact spare tire

Do not drive at speeds in excess of 50 mph (80 km/h) when a compact spare tire is installed on the vehicle.

The compact spare tire is not designed for driving at high speeds. Failing to observe this precaution may lead to an accident.

 NOTICE**■ Do not drive the vehicle with 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.

■ Be careful when driving over bumps with the compact spare tire installed on the vehicle.

The vehicle becomes lower when driving with the compact spare tire compared to when driving with standard tires. Be careful when driving over uneven road surfaces.

■ Driving with tire chains and the compact spare tire

Do not fit tire chains to the compact spare tire.

Tire chains may damage the vehicle body and adversely affect driving performance.

5-2. Steps to take in an emergency

If the engine will not start

If the engine will not start, even though correct starting procedures are being followed (→P. 89), consider each of the following points.

■ **The engine will not start even when the starter motor operates normally.**

One of the following may be the cause of the problem.

- There may not be sufficient fuel in the vehicle's tank.

Add fuel to the vehicle.

- The engine may be flooded.

Try to restart the engine once more following correct starting procedures (→P. 89).

- There may be a malfunction in the engine immobilizer system.
(→P. 50)

■ **The starter motor turns over slowly, 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 battery may be discharged. (→P. 362)

- The battery terminal connections may be loose or corroded.

■ **The starter motor does not turn over, 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.

- One or both of the battery terminals may be disconnected.

- The battery may be discharged. (→P. 362)

- There may be a malfunction in the steering lock system.

Contact your Lexus dealer if the problem cannot be repaired, or if repair procedures are unknown.

5-2. Steps to take in an emergency

If the shift lever cannot be shifted from P

If the shift lever cannot be shifted with your foot on the brake, there may be a problem with the shift lock system (a system to prevent accidental operation of the shift lever). Have the vehicle inspected by your Lexus dealer immediately.

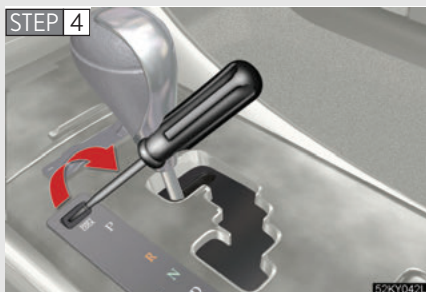
The following steps may be used as an emergency measure to ensure that the shift lever can be shifted.

STEP 1 Set the parking brake.

STEP 2 Turn the engine switch to the ACC mode.

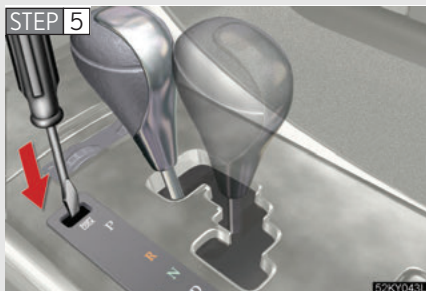
STEP 3 Depress the brake pedal.

STEP 4



Pry the cover up with a flathead screwdriver or equivalent.

STEP 5



Press the shift lock override button.

The shift lever can be shifted while the button is pressed.

5-2. Steps to take in an emergency

If you lose your keys

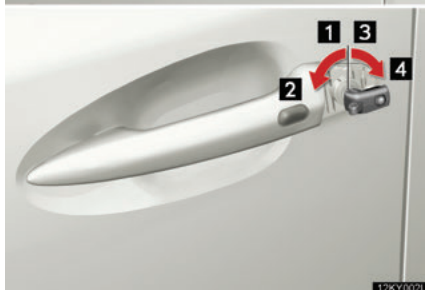
New genuine Lexus keys can be made by your Lexus dealer using one of the other keys or the key number stamped on your key number plate.

5-2. Steps to take in an emergency

When the electronic key battery is discharged

If the electronic key battery is discharged, the doors and trunk can be opened by the mechanical key. The engine can be still started by following the procedure.

Locking and unlocking the doors, unlocking the trunk and key linked functions



► Doors

Remove the cover on the driver's door handle using the mechanical key in order to perform the following operations.

- 1 Locks all doors
- 2 Closes the windows/moon roof (turn and hold)
- 3 Unlocks the door

Turning the key rearward unlocks the driver's door. Turning the key once again unlocks the other doors.

- 4 Opens the windows/moon roof (turn and hold)

Return the cover to the original position after use.

► Trunk

Turn the mechanical key clockwise to open.

Starting the engine

- STEP 1** For vehicles with an automatic transmission: Put the shift lever in P and apply the brakes.
For vehicles with a manual transmission: Depress the clutch pedal.



Hold the electronic key close to the engine switch (within 0.4 in. [10 mm]). Make sure that the button side of the key is facing away from the engine switch.

An alarm will sound to indicate that the start function cannot detect the key with the depleted battery if any of the doors will be opened and closed while this operation.

- STEP 3** For vehicles with an automatic transmission: Press the engine switch within 5 seconds [after the buzzer sounds], keeping the brake pedal depressed.
For vehicles with a manual transmission: Press the engine switch within 5 seconds [after the buzzer sounds], keeping the clutch pedal depressed.

In the event that the engine still cannot be started, contact your Lexus dealer.

■ Replacing the key battery

As this procedure is the temporary measure, it is recommended that the electronic battery be replaced immediately. (→P. 293)

5-2. Steps to take in an emergency

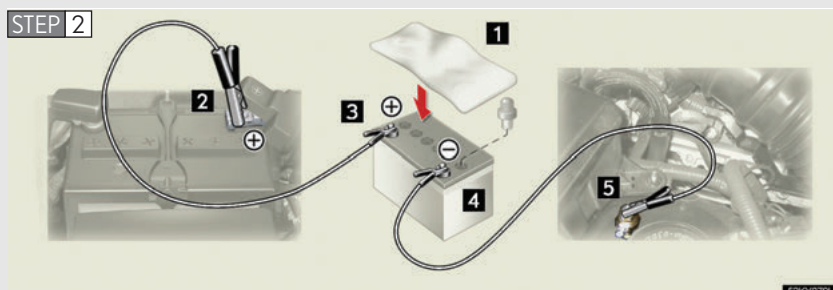
If the vehicle battery is discharged

The following procedures may be used to start the engine if the vehicle's battery is discharged.

You can call your Lexus dealer, Roadside Assistance or Lexus Customer Service Assistance.

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your Lexus following the steps below.

STEP 1 Remove the engine compartment covers. (→P. 263)



Connecting the jumper cables.

- 1** If required, remove all vent plugs from the booster battery. Lay a cloth over the open vents on the booster battery. (This helps reduce the explosion hazard, personal injuries and burns.)
- 2** Positive (+) battery terminal on your vehicle
- 3** Positive (+) battery terminal on the second vehicle
- 4** Negative (-) battery terminal on the second vehicle
- 5** Connect the jumper cable to ground on your vehicle as shown in the illustration.

STEP 3 Start the engine of the second vehicle. Increase the engine speed slightly and maintain at that level for approximately 5 minutes to recharge the battery of your vehicle.

STEP 4 Open and close any of the doors with the engine switch OFF.

STEP 5 Maintain the engine speed on the second vehicle and turn the ignition switch to the IG-ON mode, then start the vehicle's engine.

STEP 6 Once the vehicle's engine has started, remove the jumper cables in the exact reverse order in which they were connected.

Once the engine starts, have the vehicle checked at your Lexus dealer as soon as possible.

■ Avoiding a discharged battery

- Turn off the headlights and the audio system while the engine is turned off.
- Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic, etc.

■ When the battery is removed or discharged

The power windows and tire pressure warning system must be initialized. (→P. 41)

CAUTION

■ Avoiding battery fires or explosions

Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the battery.

- Make sure the jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any part other than the intended terminal.
- Do not allow the jumper cables to come into contact with the "+" and "-" terminals.
- Do not allow open flame or use matches, cigarette lighters or smoke near the battery.

CAUTION

■ Battery precautions

The battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the battery.

- When working with the 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 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 battery support, terminals, and other battery-related parts.
- Do not allow children near the battery.

NOTICE

■ To prevent damaging the vehicle

Do not pull- or push-start the vehicle, because the three-way catalytic converter may overheat and become a fire hazard.

■ When handling jumper cables

Be careful that the jumper cables do not become tangled in the cooling fan or any of the belts when connecting or disconnecting them.

5-2. Steps to take in an emergency If your vehicle overheats

If your engine overheats:

STEP 1 Stop the vehicle in a safe place and turn off the automatic air conditioning system.

STEP 2 Check to see if steam is coming out from under the hood.

If you see steam:

Stop the engine and carefully lift the hood.

If you do not see steam:

Leave the engine running and carefully lift the hood.

STEP 3 Remove the engine compartment cover. (→P. 263)

STEP 4 Check to see if the cooling fan is operating.

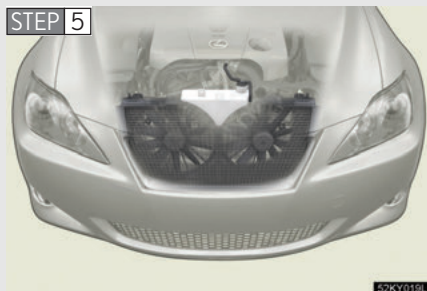
If the fan is operating:

Wait until the temperature of the engine (shown on the instrument cluster) begins to fall and then stop the engine.

If the fan is not operating:

Stop the engine immediately and call your local Lexus dealer.

STEP 5



After the engine has cooled down sufficiently, check the engine coolant level and inspect the radiator core (radiator) for any leaks.

STEP 6



Add engine coolant if required.

Water can be used in an emergency measure if engine coolant is unavailable. (→P. 374)

Have the vehicle checked at your nearest Lexus dealer as soon as possible.

■ Overheating

If you observe the following, your vehicle may be overheating.

- The engine coolant temperature gauge enters the red zone or a loss of power is experienced.
- Steam is coming from under the hood.

⚠ CAUTION

■ To prevent an accident or injury when inspecting under the hood of your vehicle

- Keep hands and clothing away from the fan and other belts while the engine is running.
- Do not loosen the radiator cap while the engine and radiator are hot. Serious injury, such as burns, may result from hot coolant and steam released under pressure.

⚠ NOTICE

■ When adding engine coolant

Wait until the engine has cooled down before adding engine coolant. When adding coolant, do so slowly. Adding cool coolant to a hot engine too quickly can cause damage to the engine.

5-2. Steps to take in an emergency

If the vehicle becomes stuck

Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt, or snow.

- Stop the engine. Set the parking brake and put the selector lever in P (vehicles with an automatic transmission) or N (vehicles with a manual transmission).
- Remove the mud, snow, or sand from around the stuck tire.
- Place wood, stones or some other material to help provide traction under the tires.
- Restart the engine.
- For 2WD vehicles only: Turn the traction control OFF. (→ P. 141)
- Carefully apply the accelerator to free the vehicle.

CAUTION

■ When attempting to free a stuck vehicle

If you choose to rock the vehicle back and forth to free it, make sure the surrounding area is clear, to avoid striking other vehicles, objects or persons. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution.

■ When shifting the shift lever

With automatic transmission vehicles, 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 and result in death or serious injury.

NOTICE

■ To avoid damaging the transmission and other components

- Avoid spinning the wheels and do not rev the engine.
- If the vehicle remains stuck after trying these procedures, the vehicle may require towing to be freed.

Vehicle specification

6

6-1. Specifications.....	370
Maintenance data	370
Fuel information	384
Tire information	387
 6-2. Customization	 395
Customizable features.....	395
 6-3. Initialization	 399
Items to initialize	399

6-1. Specifications

Maintenance data

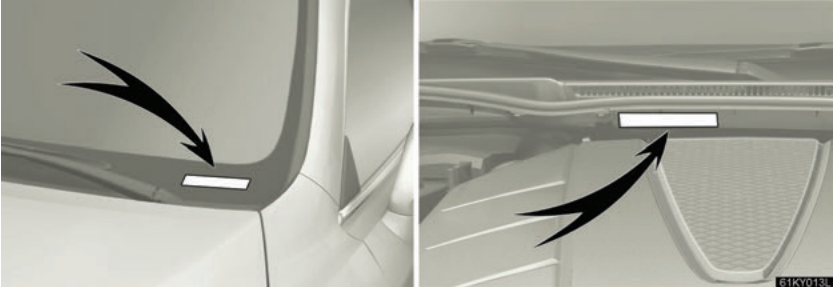
Dimensions and weight

Overall length		180.1 in. (4575 mm)
Overall width		70.9 in. (1800 mm)
Overall height *1	2WD models	56.1 in. (1425 mm)
	AWD models	56.7 in. (1440 mm)
Wheelbase		107.4 in. (2730 mm)
Tread	Front	60.4 in. (1535 mm)
	Rear	60.0 in. (1525 mm)*2 60.4 in. (1535 mm)*3
Vehicle capacity weight (Occupants + luggage)		825 lb. (374 kg)

*1: Unladen vehicle
*2: Vehicle with 255/40R18 tires
*3: Vehicle with tires other than the above

Vehicle identification

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 stamped on the top left of the instrument panel and in the engine compartment.



This number is also on the Certification Label.

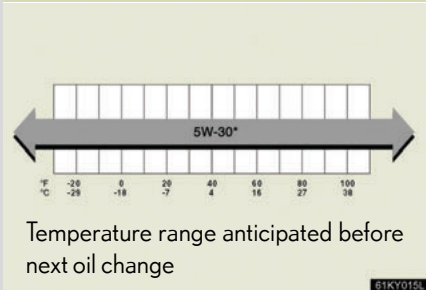
Engine

	IS250	IS350
Model	4GR-FSE	2GR-FSE
Type	6-cylinder V type, 4-cycle, gasoline	6-cylinder V type, 4-cycle, gasoline
Bore and stroke	3.27 × 3.03 in. (83.0 × 77.0 mm)	3.70 × 3.27 in. (94.0 × 83.0 mm)
Displacement	152.5 cu.in. (2500 cm ³)	210.9 cu.in. (3456 cm ³)
Drive belt tension	Automatic adjustment	

Fuel

Fuel type	Unleaded gasoline only
Octane rating	91 (Research octane number 96) or higher
Fuel tank capacity	17.2 gal. (65 L, 14.3 Imp.gal)

Lubrication system

	IS250	IS350
Oil capacity (drain and refill)		
with filter		
2WD models	6.6 qt. (6.3 L, 5.5 Imp.qt.)	6.6 qt. (6.3 L, 5.5 Imp.qt.)
AWD models	6.8 qt. (6.4 L, 5.7 Imp.qt.)	—
without filter		
2WD models	6.2 qt. (5.9 L, 5.2 Imp.qt.)	6.2 qt. (5.9 L, 5.2 Imp.qt.)
AWD models	6.3 qt. (6.0 L, 5.3 Imp.qt.)	—
Oil grade	ILSAC multi-grade engine oil	
Recommended oil viscosity	Use Lexus approved "Toyota Genuine Motor Oil" or equivalent to satisfy the above grade and viscosity.  Temperature range anticipated before next oil change	

*:5W-30 is an oil that provides optimal levels of fuel efficiency.

Oil viscosity

- 5W oils are for use in areas where the ambient temperature is -3°F (-25°C) or above. "10W" oils are for areas where the ambient temperature is -4°F (-20°C) or above. Oils with smaller figures are better for engine starting in cold weather and fuel efficiency.
- XX-30 indicates oil viscosity. Oils with higher numbers have better stability at higher temperatures and are good for high-speed driving.

Cooling system

Capacity	9.6 qt. (9.1 L, 8.0 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 organic acid technology Do not use plain water alone.

Ignition system

Spark plug	
Make	
DENSO	FK20HBR11
Gap	0.043 in. (1.1 mm)

 NOTICE

Iridium-tipped spark plugs

Use only iridium-tipped spark plugs. Do not adjust gap when tuning engine.

Electrical system

Battery	
Open voltage at 68°F (20°C):	12.6 — 12.8 Fully charged 12.2 — 12.4 Half charged 11.8 — 12.0 Discharged (Voltage checked 20 minutes after the key is removed with all the lights turned off)
Charging rates	5A max.

Differential

Oil capacity	Front	0.74 qt. (0.70 L, 0.61 Imp.qt.)
	Rear	IS350: 1.42 qt. (1.35 L, 1.19 Imp.qt.) IS250 (2WD models): 1.20 qt. (1.15 L, 1.01 Imp.qt.) IS250 (AWD models): 1.10 qt. (1.05 L, 0.92 Imp.qt.)
Oil type and viscosity	IS250 (2WD) with limited slip differential and IS250 (AWD)	Hypoid gear oil API GL-5 Above 0°F (-18°C): SAE90 Below 0°F (-18°C): SAE80W or SAE80W-90
	Others	Toyota Genuine Differential Gear Oil LT 75W-85 GL-5, Toyota Genuine Differential Synthetic Gear Oil or equivalent

Automatic Transmission

	IS350	IS250 (2WD)	IS250 (AWD)
Fluid capacity Drain and refill	1.8 qt. (1.7 L, 1.5 Imp.qt.)	1.6 qt. (1.5 L, 1.4 Imp.qt.)	2.8 qt. (2.7 L, 2.4 Imp.qt.)
Fluid type	Toyota Genuine ATF WS		

 NOTICE

Using automatic transmission fluid other than "Toyota Genuine ATF WS" may cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damage the automatic transmission of your vehicle.

Manual transmission

Gear oil capacity	1.9 qt. (1.8 L, 1.6 Imp.qt.)
Gear oil type	API GL-4 or GL-5
Recommended gear oil viscosity	SAE75W-90

Clutch

Clutch free play	0.2 — 0.6 in. (5 — 15 mm)
Fluid type	SAE J1703 or FMVSS No.116 DOT 3

Brakes

Pedal clearance ^{*1}	
IS 350	4.13 in. (105 mm) Min.
IS 250	
Manual transmission	4.09 in. (104 mm) Min.
Automatic transmission	4.3 in. (108 mm) Min.
Pedal free play	0.04 — 0.08 in. (1.0 — 2.0 mm)
Brake pad wear limit	0.04 in. (1.0 mm)
Parking brake lining wear limit	0.04 in. (1.0 mm)
Parking brake pedal travel ^{*2} / lever travel ^{*3}	
Pedal type	7 — 9 clicks
Lever type	4 — 6 clicks
Fluid type	SAE J1703 or FMVSS No. 116 DOT 3

^{*1}: Minimum pedal clearance when depressed with a force of 50 kgf (490 N, 110 lbf) while the engine is running.

^{*2}: Parking brake pedal travel when depressed with a force of 30.6 kgf (300 N, 67.4 lbf).

^{*3}: Parking brake lever travel when pulled up with a force of 20.4 kgf (200 N, 50.0 lbf).

Steering

Free play	Less than 1.2 in. (30 mm)
-----------	---------------------------

Tires and wheels

► Type A

Tire size	205/55R16 89W, T125/70D17 98M (spare)
Front and rear tire inflation pressure (Recommended cold tire inflation pressure)	Driving under normal conditions Front tires: 35 psi (240 kPa, 2.4 kgf/cm ² or bar) Rear tires: 38 psi (260 kPa, 2.6 kgf/cm ² or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 5.8 psi (40 kPa, 0.4 kgf/cm ² or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Spare tire inflation pressure (Recommended cold tire inflation pressure)	60 psi (420 kPa, 4.2 kgf/cm ² or bar,)
Wheel size	16 × 7JJ, 17 × 4T (spare)
Wheel nut torque	10.5 kgf•m (103 N•m, 76 ft•lbf)

► Type B

Tire size	225/45R17 90W, 245/45R17 95W, T125/70D17 98M (spare)
Front and rear tire inflation pressure (Recommended cold tire inflation pressure)	Driving under normal conditions Front tires: 35 psi (240 kPa, 2.4 kgf/cm² or bar) Rear tires: 38 psi (260 kPa, 2.6 kgf/cm² or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 4.5 psi (30 kPa, 0.3 kgf/cm² or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Spare tire inflation pressure (Recommended cold tire inflation pressure)	60 psi (420 kPa, 4.2 kgf/cm ² or bar)
Wheel size	17 × 8JJ, 17 × 4T (spare)
Wheel nut torque	10.5 kgf•m (103 N•m, 76 ft•lbf)

► Type C

Tire size	225/45R17 91V, 225/45R17 91V, T125/70D17 98M
Front and rear tire inflation pressure (Recommended cold tire inflation pressure)	Driving under normal conditions Front tires: 35 psi (240 kPa, 2.4 kgf/cm ² or bar) Rear tires: 38 psi (260 kPa, 2.6 kgf/cm ² or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 7.2 psi (50 kPa, 0.5 kgf/cm ² or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Spare tire inflation pressure (Recommended cold tire inflation pressure)	60 psi (420 kPa, 4.2 kgf/cm ² or bar)
Wheel size	17 × 8JJ, 17 × 4T (spare)
Wheel nut torque	10.5 kgf•m (103 N•m, 76 ft•lbf)

► Type D

Tire size	Front tires: 225/45R17 95V Rear tires: 245/45R17 95V Spare tire: T125/70R17 98M
Front and rear tire inflation pressure (Recommended cold tire inflation pressure)	Driving under normal conditions Front tires: 35 psi (240 kPa, 2.4 kgf/cm ² or bar) Rear tires: 38 psi (260 kPa, 2.6 kgf/cm ² or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 10 psi (70 kPa, 0.7 kgf/cm ² or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Spare tire inflation pressure (Recommended cold tire inflation pressure)	60 psi (420 kPa, 4.2 kgf/cm ² or bar)
Wheel size	17 × 8JJ, 17 × 4T (spare)
Wheel nut torque	10.5 kgf•m (103 N•m, 76 ft•lbf)

► Type E

Tire size	Front tires: 225/40R18 88Y Rear tires: 255/40R18 95Y Spare tire: T145/70R17 106M
Front and rear tire inflation pressure (Recommended cold tire inflation pressure)	Driving under normal conditions Front tires: 35 psi (240 kPa, 2.4 kgf/cm ² or bar) Rear tires: 38 psi (260 kPa, 2.6 kgf/cm ² or bar) Driving at high speeds above 100 mph (160 km/h) (in countries where such speeds are permitted by law) Add 7.2 psi (50 kPa, 0.5 kgf/cm ² or bar) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure indicated on the tire sidewall.
Spare tire inflation pressure (Recommended cold tire inflation pressure)	60 psi (420 kPa, 4.2 kgf/cm ² or bar)
Wheel size	Front wheels: 18 × 8J Rear wheels: 18 × 8 1/2J Spare wheel: 17 × 4T
Wheel nut torque	10.5 kgf•m (103 N•m, 76 ft•lbf)

Light bulbs

	Light Bulbs	Bulb No.	W	Type
Exterior	Headlights (low beam)	D4S	35	A
	Discharge bulbs	H11	55	B
	Front turn signal lights	—	21	C
	Headlights (high beam)	9005	65	D
	Parking lights	168	5	E
	Front fog lights	9006	55	F
	Trunk light	—	5	G
	Rear turn signal lights	7440	21	E
	Back-up lights	921	16	E
	Outer foot lights	—	5	E
Interior	Vanity lights	—	8	E
	Interior lights	—	10	E
	Front		3.0	G
	Rear	—	3.8	E
	Overhead courtesy lights		3.0	G
	Front		3.8	E
	Rear		3.8	G
	Door courtesy lights	—	3.8	E

- A: D4S discharge bulbs
B: H11 halogen bulbs
C: Wedge base bulbs (amber)
D: HB3 halogen bulbs
E: Wedge base bulbs (clear)
F: HB4 halogen bulbs
G: Double end bulbs

6-1. Specifications

Fuel information

Your vehicle must use only unleaded gasoline.

Premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher required for optimum engine performance.

At minimum, the gasoline you use should meet the specifications of ASTM D4814 in the U.S.A. and CGSB3.5-M93 in Canada.

■ Fuel tank opening for unleaded gasoline

To help prevent incorrect fueling, your Lexus has a fuel tank opening that only accommodates the special nozzle on unleaded fuel pumps.

■ If premium gasoline is not available

If this premium fuel is not available, you may use unleaded gasoline with an Octane Rating of 87 or so (Research Octane Number 91).

IS250: The use of such gasoline will cause persistent heavy knocking. If severe, this will lead to engine damage.

IS350: The use of such gasoline may cause the engine to knock or drastically reduce output to protect itself while driving with a heavy load. To avoid this, refill the tank with premium unleaded gasoline as soon as possible.

■ 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.

■ 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.

■ Gasoline quality standards

- Automotive manufacturers in the US, Europe and Japan have developed a specification for fuel quality called World-Wide Fuel Charter (WWFC) that is expected to be applied worldwide.
- The WWFC consists of four categories that are based on required emission levels. In the US, category 4 has been adopted.
- The WWFC improves air quality by lowering emissions in vehicle fleets, and customer satisfaction through better performance.

■ Lexus recommends the use of gasoline containing detergent additives

- Lexus recommends the use of gasoline that contains detergent additives to avoid build-up of engine deposits.
- All gasoline sold in the US contains detergent additives to clean and/or keep clean intake systems.

■ Lexus recommends the use of cleaner burning gasoline

Cleaner burning gasoline, including reformulated gasoline that contains oxygenates such as ethanol or MTBE (Methyl Tertiary Butyl Ether) is available in many areas.

Lexus recommends the use of cleaner burning gasoline and appropriately blended reformulated gasoline. These types of gasoline provide excellent vehicle performance, reduce vehicle emissions and improve air quality.

■ Lexus does not recommend blended gasoline

- Lexus allows the use of oxygenate blended gasoline where the oxygenate content is up to 10% ethanol or 15% MTBE.
- If you use gasohol in your Lexus, be sure that it has an octane rating no lower than 87.
- Lexus DOES NOT recommend the use of gasoline containing methanol.

■ Lexus does not recommend gasoline containing MMT

Some gasoline contains 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.

NOTICE

■ Notice on gasoline quality

- 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 that stated here.
Other gasohol may cause fuel system damage or vehicle performance problems.
- Using unleaded gasoline with an octane number or rating lower than that stated here will cause persistent heavy knocking.
At worst, this will lead to engine damage.

■ Fuel-related poor driveability

If after using a different type of fuel, poor driveability is encountered (poor hot starting, vaporization, engine knocking, etc.), 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.

6-1. Specifications

Tire information

Typical tire symbols



- 1 Tire size (→P. 389)
- 2 DOT and Tire Identification Number (TIN) (→P. 388)
- 3 Location of tread wear indicators (→P. 390)
- 4 Tire ply composition and materials

Ply is layers of rubber-coated parallel cords. Cords are the strands which form the plies in a tire.

- 5 Radial tires or bias-ply tires

A radial tire has RADIAL on the sidewall. A tire not marked RADIAL is a bias-ply tire.

- 6 TUBELESS or TUBE TYPE

A tubeless tire does not have a tube and air is directly filled in the tire. A tube type tire has a tube inside the tire and the tube maintains the air pressure.

- 7 Load limit at maximum cold tire inflation pressure (→P. 392)
- 8 Maximum cold tire inflation pressure (→P. 392)

This means the pressure to which a tire may be inflated.

- 9 Uniform tire quality grading

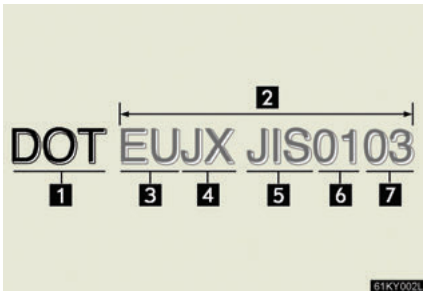
For details, see "Uniform tire quality grading" that follows.

10 Summer tire or all season tire

(→P. 390)

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)

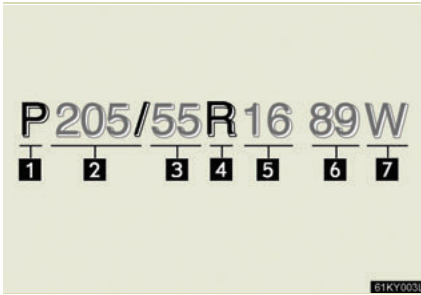


- 1 DOT symbol*
- 2 Tire Identification Number (TIN)
- 3 Tire manufacturer's identification mark
- 4 Tire size code
- 5 Manufacturer's optional tire type code (3 or 4 letters)
- 6 Manufacturing week
- 7 Manufacturing year

*: The DOT symbol certifies that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

Tire size

Typical tire size information



The illustration indicates typical tire size.

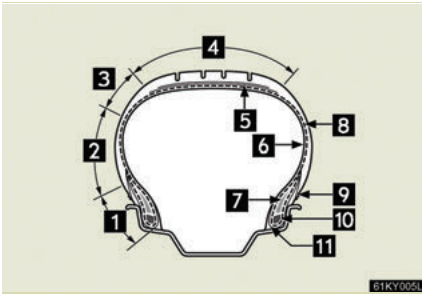
- 1 Tire use
(P = Passenger car,
T = Temporary use)
- 2 Section width (millimeters)
- 3 Aspect ratio
(tire height to section width)
- 4 Tire construction code
(R = Radial, D = Diagonal)
- 5 Wheel diameter (inches)
- 6 Load index (2 or 3 digits)
- 7 Speed symbol
(alphabet with one letter)

Tire dimensions



- 1 Section width
- 2 Tire height
- 3 Wheel diameter

Tire section names



- 1 Bead
- 2 Sidewall
- 3 Shoulder
- 4 Tread
- 5 Belt
- 6 Inner liner
- 7 Reinforcing rubber
- 8 Carcass
- 9 Rim lines
- 10 Bead wires
- 11 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.A. 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.

■ 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

■ 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, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

■ 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.

■ 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.

The 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 for this tire are established for a tire that 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
Accessory weight	The combined weight (in excess of those standard items which may be replaced) of automatic 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)
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
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 inflation pressure	The maximum cold inflated pressure to which a tire may be inflated, shown on the sidewall of the tire
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

Tire related term	Meaning
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 battery, and special trim
Vehicle capacity weight (Total load capacity)	The rated cargo and luggage load plus 150 lb. (68 kg) times the vehicle's designated seating capacity
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 asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle
Occupant distribution	Distribution of occupants in a vehicle as specified in the third column of Table 1* below
Recommended inflation pressure	Cold tire inflation pressure recommended by a manufacturer.
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

Tire related term	Meaning
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
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 it by two
Weather side	The surface area of the rim not covered by the inflated tire

*: 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

6-2. Customization

Customizable features

Your vehicle includes a variety of electronic features that can be personalized to your preferences. Programming these preferences requires specialized equipment and may be performed by an authorized Lexus dealership.

Some function settings are changed simultaneously with other functions being customized. Contact your Lexus dealer for further details.

Item	Function	Default setting	Customized setting
Smart access system with push-button start (→P. 4)	Smart access system with push-button start	ON	OFF
	Operation signal (Emergency flashers)	ON	OFF
	Operation signal (Buzzer)	ON	OFF
Wireless remote control (→P. 12)	Wireless remote control	ON	OFF
	Unlocking operation	Driver's door locked in one step, all doors locked in two steps	All doors locked in one step.
	Time elapsed before automatic door lock function is activated if door is not opened after being unlocked	30 seconds	60 seconds
	Operation signal (Emergency flashers)	ON	OFF
	Operation signal (Buzzer)	ON	OFF

Item	Function	Default setting	Customized setting
Wireless remote control (→P. 12)	Trunk unlocking function	ON	OFF
	Trunk unlocking operation	Push and hold	Push twice
			One short push
	Panic function	ON	OFF
Door lock (→P. 15)	Unlocking using a key	Driver's door locked in one step, all doors locked in two steps	All doors locked in one step.
	Speed-detecting automatic door lock function (Manual transmissions)	ON	OFF
	Speed-detecting automatic door lock function (Automatic transmissions)	OFF	ON
	Opening driver's door unlocks all doors (Manual transmissions)	ON	OFF
	Opening driver's door unlocks all doors (Automatic transmissions)	OFF	ON
	Shifting gears to P unlocks all doors.	ON	OFF
	Shifting gears to position other than P locks all doors.	ON	OFF

Item	Function	Default setting	Customized setting
Power windows (→P. 41)	Linked door lock operation	ON	OFF
	Linked door key operation	Open and close	Open only
			Close only
	Wireless remote control linked operation	ON	OFF
Moon roof (→P. 44)	Linked door lock operation	ON	OFF
	Linked door key operation	Open and close	Open only
			Close only
	Linked operation of components when door key is used	Slide only	Tilt only
	Wireless remote control linked operation	ON	OFF
	Linked operation of components when wireless remote control used	Slide only	Tilt only
Automatic light control system (→P. 113)	Light sensor sensitivity	Level 3	Levels 1 to 5
	Time elapsed before headlights automatically turn off after doors are closed	30 seconds	0 seconds
			60 seconds
			90 seconds

Item	Function	Default setting	Customized setting
Windshield wipers and washer (→P. 117)	Switching operation when the vehicle is stationary	ON	OFF
	Drip prevention function	ON	OFF
	Time elapsed before the drip prevention function operates	Variable depending on the vehicle speed	3 seconds
Lexus parking assist-sensor (→P. 133)	Back sensor operation display and buzzer	ON	OFF
	Buzzer volume	Level 3	Level 1 to 5
Illumination (→P. 201)	Time elapsed before lights turn off	15 seconds	7.5 seconds
			30 seconds
	Operation when the doors are unlocked	ON	OFF
	Operation after the engine switch turned OFF	ON	OFF
	Front foot well lighting	ON	OFF
	Shift lever lighting	ON	OFF
	Outer foot light	ON	OFF

6-3. Initialization

Items to initialize

After reconnecting or performing maintenance on the battery, the following items must be initialized for normal system operation.

Item	When to initialize	Reference
Power window	• After reconnecting or changing the battery • After changing a fuse	P. 41
Engine oil maintenance data	After changing engine oil	P. 264
Tire inflation pressure warning system	• When the standard tire pressure changes by replacing tires or wheels • When tires are rotated • When tire pressure sensors are replaced • When driving with the tires inflated to a higher than standard tire pressure	P. 276

Reporting safety defects for U.S.A. 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 either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in the Washington, D.C. area) or write to: NHTSA, U.S.A. Department of Transportation, Washington, D.C. 20590.

You can also obtain other information about motor vehicle safety from the Hotline.

Index

Alphabetical index..... 404

What to do if..... 413

Alphabetical index

Alphabetical index

A

A/C (Air conditioning system) 162

ABS (Anti-lock brake system) 139

Air conditioning filter 291

Air conditioning system (A/C)

 Air conditioning filter 291

 Automatic air conditioning system 162

Airbags

 Airbag operating conditions 59

 Airbag precautions for your child 63

 Airbag warning light 330

 Curtain shield airbag operating conditions 59

 Curtain shield airbag precautions 63

 General airbag precautions 63

 Locations of airbags 57

 Modification and disposal of airbags 67

 Proper driving posture 55, 63

 Side airbag operating conditions 59

 Side airbag precautions 63

 SRS airbags 57

Alarm 52

Antenna 178

Anti-lock brake system (ABS) 139

Armrest 224

Ashtrays 217

Audio system

 Antenna 178

 AUX adapter 198

 CD player/changer 181

 MP3/WMA disc 187

 Optimal use 195

 Radio 174

 Steering wheel audio switch 199

Automatic air conditioning system 162

Automatic headlight leveling system 115

Automatic light control system 113

Automatic transmission

 Automatic transmission 92

 If the shift lever cannot be shifted from P 357

 S mode 94

AUX adapter 198

B

BA (Brake assist) 139

Back-up lights

 Wattage 383

Battery

 Checking 271

 If the vehicle has discharged battery 362

 Preparing and checking before winter 151

Bottle holders 209

Brake

 Fluid 270

 Parking brake 99

Brake assist (BA) 139

C

Care

 Exterior 244

 Interior 246

 Seat belts 247

Cargo capacity 147

Cargo hooks 230

CD changer 181

CD player.....	181
Chains.....	153
Child restraint system (CRS)	
Booster seats, definition.....	68
Booster seats, installation.....	72
Convertible seats, definition.....	68
Convertible seats, installation.....	72
Infant seats, definition.....	68
Infant seats, installation.....	72
Installing CRS with lower anchorage.....	75
Installing CRS with seatbelts.....	72
Installing CRS with top straps.....	76
Child safety	
Airbag precautions.....	63
Battery precautions.....	273, 364
Child restraint system.....	68
Child-protectors.....	16
How your child should wear the seatbelt.....	33
Installing child restraints.....	71
Moon roof.....	46
Power window lock switch.....	41
Power window precautions.....	43
Removed electronic key battery precautions.....	294
Seat belt comfort guide.....	31
Seat belt extender precautions.....	35
Seat belt precautions.....	34
Seat heater precautions.....	221, 223
Trunk.....	21
Child-protectors.....	16
Cigarette lighter.....	218

Cleaning	
Exterior.....	244
Interior.....	246
Seat belts.....	247
Clock.....	213
Coat hooks.....	228
Compass.....	238
Condenser.....	270
Console box.....	206
Cooling system	
Engine overheating.....	365
Cornering assist sensors.....	133
Cruise control	
Cruise control.....	121
Dynamic radar cruise control.....	124
Cup holder.....	208
Curtain shield airbags.....	57
Customizable features.....	395

D

Daytime running light system.....	114
Defogger	
Rear window.....	170
Side mirror.....	170
Dimension.....	370
Dinghy towing.....	157, 158
Display	
Dynamic radar cruise control.....	124
Satellite switch mode.....	214
Trip information.....	110
Warning message.....	334
Do-it-yourself maintenance.....	255
Door courtesy lights	
Door courtesy lights.....	201
Wattage.....	383
Door pockets.....	209

Doors	
Door glasses.....	41
Door lock.....	15
Side mirrors.....	39
Driver's seat belt reminder light	331
Driving	
Correct posture.....	55
Procedures.....	82
Driving position memory	24
E	
Electric power steering (EPS).....	139
Electronic key	
If your electronic key battery	
is discharged.....	359
Emergency, in case of	
If the engine will not start	356
If the shift lever cannot be	
shifted from P	357
If the vehicle has discharged	
battery.....	362
If the warning buzzer sounds.....	329
If the warning light turns on.....	329
If the warning message is	
displayed	334
If you have a flat tire	348
If you lose your keys.....	358
If you think something is	
wrong.....	325
If your electronic key battery	
is discharged	359
If your vehicle becomes stuck.....	367
If your vehicle needs to be	
towed	318
If your vehicle overheats	365
Engine	
Compartment	261

Engine switch.....	89
Hood.....	258
How to start the engine	89
If the engine will not start.....	356
Overheating	365
Engine compartment cover	263
Engine coolant	
Capacity	374
Checking.....	268
Preparing and checking	
before winter.....	151
Engine coolant temperature	
gauge	100
Engine immobilizer system	50
Engine oil	
Capacity	373
Checking.....	264
Preparing and checking	
before winter.....	151
Engine oil maintenance data	267
EPS (Electric power steering)	139
Event data recorder	327

F	
First-aid kit storage belt	230
Floor mat.....	229
Fluid	
Brake.....	270
Washer.....	274
Fog lights	
Switch.....	116
Wattage.....	383
Foot well lighting.....	201
Front fog lights	
Switch.....	116
Wattage.....	383

Front passenger's seat belt	
reminder light	331
Front seats	
Adjustment	22
Driving position memory	24
Seat position memory	27
Front turn signal lights	
Wattage	383
Fuel	
Capacity	372
Fuel gauge	100
Fuel pump shut off system	326
Gas station information	415
Information	384
Refueling	47
Fuel filler door	47
Fuel pump shut off system	326
Fuses	295

G	Garage door opener	233
	Gas station information	415
	Gauges	100
	Glove box	205
	Glove box light	206

H	Head restraints	
	Adjusting	29
	Headlight aim	309
	Headlight cleaner	120
	Headlights	
	Discharge headlights	
	precautions	316
	Replacing light bulbs	310
	Switch	113
	Wattage	383

Heaters	
Seat heaters	220, 222
Side mirror	170
Hill-start assist control	139
Hood	258
Hooks	
Cargo	230
Coat	228
Shopping bag	230

I	I/M test	254
	Illuminated entry system	202
	Indicator lights	106
	Initialization	
	Items to initialize	399
	Inside rear view mirror	38
	Interior lights	
	Interior lights	201
	Switch	203
	Wattage	383

J	Jack	
	Positioning the jack	259
	Replacing the wheel	348
	Jack handle	348

K	Keys	
	Electronic key	2
	Engine switch	89
	If you lose your keys	358
	If your electronic key battery	
	is discharged	359
	Key number	2
	Keys	2
	Mechanical key	2
	Wireless remote control	12

L

Light bulbs	
Replacing.....	310
Wattage.....	383
Lights	
Door courtesy lights.....	201
Fog light switch.....	116
Headlights switch.....	113
Interior light switch.....	203
Outer foot lights.....	201
Overhead courtesy light.....	201
Personal light switch.....	203
Replacing light bulbs.....	310
Scuff lighting.....	201
Shift lever lighting.....	201
Turn signal lever.....	98
Vanity lights.....	212
Wattage.....	383
Limited slip differential (LSD).....	139
Load capacity.....	150
LSD (Limited slip differential).....	139

M

Maintenance	
Do-it-yourself maintenance.....	255
General maintenance.....	251
Maintenance data.....	370
Maintenance requirements.....	249
Manual transmission.....	96
Meter	
Instrument panel light control.....	101
Meters.....	100
Mirrors	
Inside rear view mirror.....	38
Side mirror heater.....	170
Side mirrors.....	39
Vanity mirrors.....	212
Moon roof.....	44

O

MP3 disc.....	187
Multi-information display.....	109
Odometer.....	100
Oil	
Engine oil.....	264
Opener	
Fuel filler door.....	47
Hood.....	258
Trunk.....	19
Outer foot lights	
Outer foot lights.....	201
Wattage.....	383
Outside rear view mirrors	
Adjusting and folding.....	39
Driving position memory.....	24
Outside temperature display.....	110
Overhead console.....	207
Overhead courtesy lights	
Overhead courtesy lights.....	201
Wattage.....	383
Overheating, Engine.....	365

P

Parking assist sensors.....	133
Parking brake.....	99
Parking lights	
Replacing light bulbs.....	310
Switch.....	113
Wattage.....	383
PCS (Pre-collision system).....	144
Personal lights	
Switch.....	203
Micro dust and pollen removal mode.....	166
Power outlet.....	219
Power windows.....	41

	Pre-collision system (PCS).....	144		Reminder light	331
R	Radar cruise control	124		Seat belt extenders	33
	Radiator.....	270		Seat belt pretensioners	31
	Radio	174		Seat heaters	220, 222
	RDS (Radio date system).....	175		Seat position memory	27
	Rear sunshade.....	225		Seat ventilators	222
	Rear turn signal lights			Seating capacity	150
	Replacing light bulbs	310		Seats	
	Wattage	383		Child seats/child restraint	
	Rear view mirror			system installation.....	71
	Compass	238		Cleaning.....	246
	Rear window defogger.....	170		Driving position memory	24
	Replacing			Front passenger seat position	
	Electronic key battery	293		memory	27
	Fuses	295		Head restraint.....	29
	Light bulbs	310		Properly sitting in the seat	55
	Reporting safety defects for			Seat adjustment	22
	U.S.A. owners	402		Seat adjustment precautions.....	23
				Seat heaters	220, 222
				Ventilated seats	222
S	Scuff lighting.....	201		Service reminder indicators	106
	Seat belts			Shift lever	
	Adjusting the seat belt	31		Automatic transmission	92
	Automatic Locking Retractor			If the shift lever cannot be	
	(ALR)	32		shifted from P	357
	Child restraint system			Manual transmission	96
	installation	71		Shift lever lighting	201
	Cleaning and maintaining			Shift lock system.....	357
	the seat belts.....	247		Shopping bag hooks.....	230
	Emergency Locking Retractor			Side airbags.....	57
	(ELR).....	32		Side marker lights	
	How to wear your seat belt.....	30		Switch.....	113
	How your child should wear			Side mirror	
	the seat belt.....	33		Adjusting and folding.....	39
	Pregnant women,			Driving position memory	24
	proper seat belt use.....	32			

Smart access system with push-button start	
Entry function.....	4
Starting the engine.....	89
Spare tire	
Inflation pressure.....	285
Spare tire.....	348
Spark plug.....	374
Specifications	370
Speedometer	
Speed indicator	100
Speedometer	100
Steering wheel	
Audio switches	199
Driving position memory.....	24
Manual adjustment	36
Power adjustment.....	37
Storage feature.....	205
Stuck	
If your vehicle becomes stuck.....	367
Sun visors	211
Sunshade	
Rear	225
Roof	45
Switch	
ECT switch	93
Engine switch.....	89
ETCS switch.....	96
Fog light switch.....	116
Light switches.....	113
Power door lock switch	15
Power window switch.....	41
Satellite switches	214
Transmission shift switches.....	94
Window lock switch	41
Wipers and washer switch.....	117

T Tachometer	
Tacho indicator	100
Tachometer	100
Tail lights	
Switch.....	113
Theft deterrent system	
Alarm.....	52
Engine immobilizer system.....	50
Theft prevention labels.....	54
Tire inflation pressure	285
Tire information	
Glossary	392
Size.....	389
Tire identification number.....	388
Uniform tire quality grading.....	390
Tires	
Chains.....	153
Checking.....	275
If you have a flat tire	348
Inflation pressure	285
Inflation pressure sensor	276
Information	387
Replacing	348
Rotating tires.....	275
Size.....	378
Snow tires.....	154
Tools.....	348
Total load capacity	150
Towing	
Dinghy towing	157, 158
Emergency towing.....	318
Trailer towing	156
TRAC (Traction control).....	139
Traction control (TRAC).....	139
Transmission shift switches.....	94
Trip meter	100

Trunk

- Extending a space227
- Opener.....19

Trunk light

- Trunk light 20
- Wattage383

Turn signal lights

- Replacing light bulbs310
- Switch..... 98
- Wattage383

V

Vanity lights

- Vanity lights..... 212
- Wattage383

Vanity mirrors 212

VDIM (Vehicle dynamics

- integrated management).....139

Vehicle dynamics integrated

- management (VDIM)139

Vehicle identification number371

Vehicle stability control (VSC)139

Ventilators.....222

VSC (Vehicle stability control)139

W

Warning buzzers

- Brake system329
- Downshifting..... 95
- Open door331
- Seat belt reminder330

Warning lights

- Anti-lock brake system (ABS) ...330
- Brake assist system330
- Brake system329
- Charging system330
- Electric power steering
 - warning light.....330

Electronic engine control

- system 330

Low fuel level 331

Low tire pressure warning

- light 331

Master warning light.....331

Open door 331

Pre-collision system.....330

Pretensioners330

Seat belt reminder light.....331

SRS airbags.....330

Warning messages

Anti-lock brake system (ABS) ...338

AWD system335

Brake assist (BA)338

Dynamic radar

- cruise control.....335, 339, 339

Engine oil level339

Engine oil maintenance339

Engine oil pressure334

Hill-start assist control.....338

Hood.....339

Lexus parking assist

- sensor.....335, 339

Moon roof339

Open door339

Parking brake339

Pre-collision system.....335, 339

Smart access system with

- push-button start.....345

Steering lock.....335

Tire inflation pressure

- warning system.....335, 339

Traction control (TRC)338

Trunk339

Vehicle stability control

- (VSC).....338

Washer fluid.....	339
Washer	
Checking	274
Preparing and checking	
before winter	151
Switch	117
Washing and waxing.....	244
Weight	
Cargo capacity.....	147
Load limits	150
Weight	370
Wheels	289
Window glasses	41
Window lock switch	41
Windows	
Power windows.....	41
Rear window defogger	170
Washer	117
Windshield wipers	117
Wireless remote control	
Replacing the battery	293
WMA disc	187

What to do if...
What to do if...

	A tire punctures	P. 348	If you have a flat tire
	The engine does not start	P. 356	If the engine will not start
		P. 50	Engine immobilizer system
		P. 359	If the battery is discharged
	The shift lever cannot be moved out	P. 357	If the shift lever cannot be shifted from P
	The engine coolant temperature gauge enters the red zone	P. 365	If your vehicle overheats
	Steam can be seen coming from under the hood		
	The key is lost	P. 358	If you lose your keys
	The battery runs out	P. 362	If the battery is discharged
	The doors cannot be locked	P. 15	Doors
	The horn begins to sound	P. 52	Alarm
	The vehicle is stuck in mud or sand	P. 367	If the vehicle becomes stuck



The warning light or indicator light comes on

P. 329 If the warning light turns on



■ Warning lights



Brake system warning light

or



P. 329



Malfunction indicator lamp

or



P. 330



"ABS" warning light

or



P. 330



Driver's seat belt reminder light

P. 331



Front passenger's seat belt reminder light

P. 331



Low fuel level warning light

P. 331



Master warning light

P. 331



SRS warning light

P. 330



Electric power steering warning light

P. 330



Open door warning light

P. 331



Pre-collision safety system warning light

P. 330



Charging system warning light

P. 330



Low tire pressure warning light

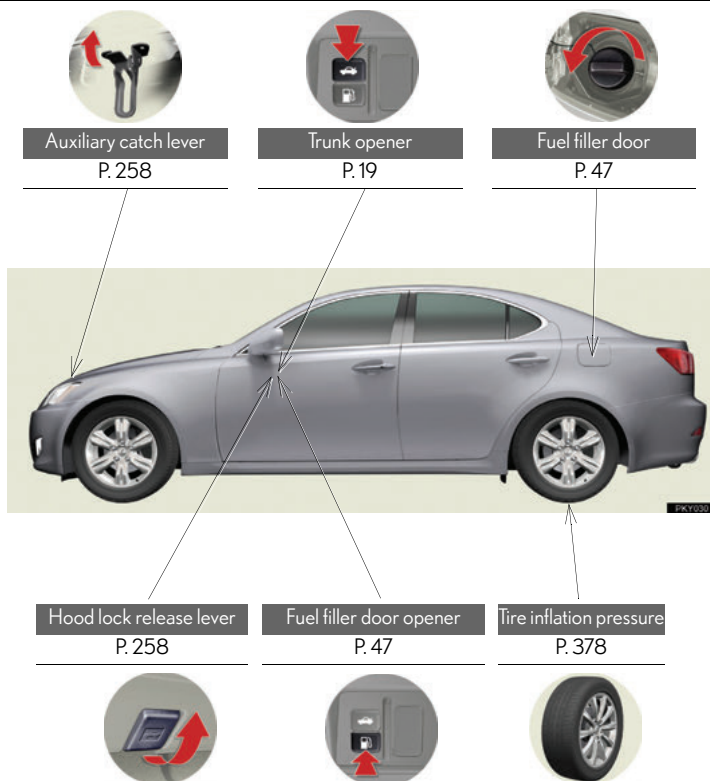
P. 331



The warning message is displayed

P. 334 If the warning message is displayed

GAS STATION INFORMATION



Fuel tank capacity	17.2 gal. (65L, 14.3 Imp.gal.)		
Fuel type	Unleaded gasoline only		P. 48, 372
Cold tire inflation pressure			P. 378
Engine oil capacity (Drain and refill)	qt. (L, Imp.qt.)		
	IS250	IS250	
	(2WD models)	(AWD models)	IS350
	With filler 6.6 (6.3, 5.5)	6.8 (6.4, 5.7)	6.6 (6.3, 5.5)
Engine oil type	Without filler 6.2 (5.9, 5.2)	6.3 (6.0, 5.3)	6.2 (5.9, 5.2)
	Toyota Genuine Motor Oil or equivalent Oil grade: ILSAC multigrade engine oil Recommended oil viscosity: SAE-5W-30		P. 373