

2016 GS200t/350/450h/F Pre-Delivery Service Manual

Lexus Technician:

Before you perform Pre-Delivery Service (PDS) on this vehicle, be sure you:

- Read and understand this PDS Manual
- Read and understand all applicable PDS Technical Service Information Bulletins (TSIBs) and Repair Manual information for this vehicle
- Read and understand the PDS Precautions in the TSIBs and on pages 0, 5 and 56.
- Attend the "Technical Introduction to Lexus Course L005" at the Lexus Area Office

When performing PDS on this vehicle:

- Use the PDS Manual when performing this service
- Check the Technical Information System (TIS) for any updated PDS TSIBs and applicable Repair Manual information.
- Verify that the Vehicle Identification Number (VIN) on repair order and vehicle match
- Lift vehicle and perform under vehicle safety/damage inspection
- Road test vehicle long enough to test hot engine and drive over rough road (Bott dots) to test for rattles/squeaks

The following TSIBs and Repair Manual information are available on TIS (on TIS, click on Check Sheet links):

Battery Maintenance for In-Stock Vehicles & Pre-Delivery
D/C Cut Fuse Installation during PDS
Enform Apps & Data Services Download & Installation Process
Floor Mat Installation during PDS
Front License Plate & Mounting Bracket Installation
Front Wheel Opening Extension Pad Installation during PDS
Hybrid System Electrical Safety Precautions
Long-Term Vehicle Storage Guidelines
Maintenance for HV & Auxiliary Batteries
Parking Assist Monitor System Initialization
Tire Positioning Before New Vehicle Delivery
Tire Pressure Warning System Initialization
VGRS/LDH System Initialization
Wheel Film for Brake Rotor Rust Prevention
XM Activation Confirmation during PDS

TPWS Operation Verification

1. Connect Techstream to DLC3.
2. Adjust all tires, except the compact spare tire*, to the standard tire inflation pressure as indicated on the tire and loading information label on vehicle.

NOTE:

- To adjust tire pressure correctly when outside temperature is significantly colder or warmer than shop temperature, perform a Health Check using Techstream and select the "Compensation Tire Pressure" check box. Compensation pressures will be displayed on the Health Check results screen.
- Adjust the tire pressure when the tires are cold.

* If equipped

To obtain PDS material:

Manual

- Download from TIS website or Lexus Customer Services website on Dealer Daily

Check Sheet

- Download and print from TIS website or Lexus Customer Services website on Dealer Daily
- Sheet is two-sided; back side has procedure tips

Other PDS TSIBs and Repair Manual information

- Download from TIS website

Contact your District Service & Parts Manager if you have any questions.

ENGINE = POWER switch on hybrid models

JBS 20151117

**2016MY
GS200t/350/450h/F
Pre-Delivery
Service Manual**



PRECAUTIONS

The GS 450h has unique operating modes, so always follow the precautions below when performing the PDS operation:

- The GS 450h contains high voltage (up to 650 volts) AC and DC Systems. All high voltage wiring and connections are orange in color. Do not carelessly touch these orange colored wiring harnesses and connectors.
- The hybrid system may start up and shut down suddenly whenever the “READY” light is illuminated. Be sure to put the vehicle in “P”, apply the parking brake, and push the “POWER” switch OFF in order to stop the hybrid system (the “READY” light turns OFF), before working in the engine compartment.
- The hybrid transaxle, engine radiator, and inverter radiator may reach high temperatures during inspection. Carefully observe all caution labels and instructions on these components.
- Be sure to keep the vehicle in “P” at all times unless otherwise instructed. When the selector lever is in “N”, the hybrid vehicle battery will not charge even if the gasoline engine is operating.
- When leaving the vehicle, put the selector lever in “P”, apply the parking brake, and push the “POWER” switch OFF in order to stop the hybrid system (the “READY” light turns OFF).
- Air vents are located on the sides of the rear seats to cool the hybrid vehicle battery. Do not block these air vents.
- Do not splash water on the electric components in the engine compartment.

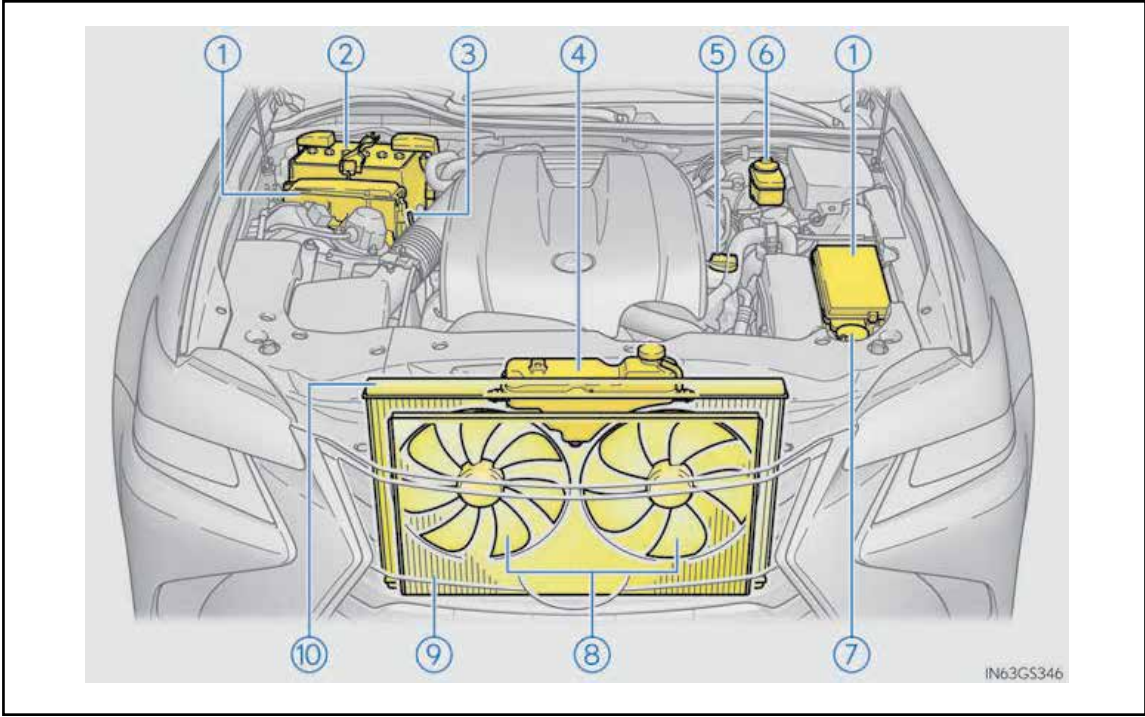
READ AND UNDERSTAND TSIB “Hybrid System Electrical Safety Precautions.”

TABLE OF CONTENTS

INSPECTION DETAILS

A. ENGINE COMPARTMENT	1
B. LOCKS AND LIGHTS	6
C. LEFT FRONT	13
D. LEFT REAR	39
E. CARGO AREA	43
F. RIGHT REAR.....	45
G. RIGHT FRONT	46
H. FRONT BUMPER	49
I. UNDER VEHICLE (SAFETY/DAMAGE).....	50
J. ROAD TEST	54
COMPLETION.....	64
INDEX	67

TABLE OF CONTENTS



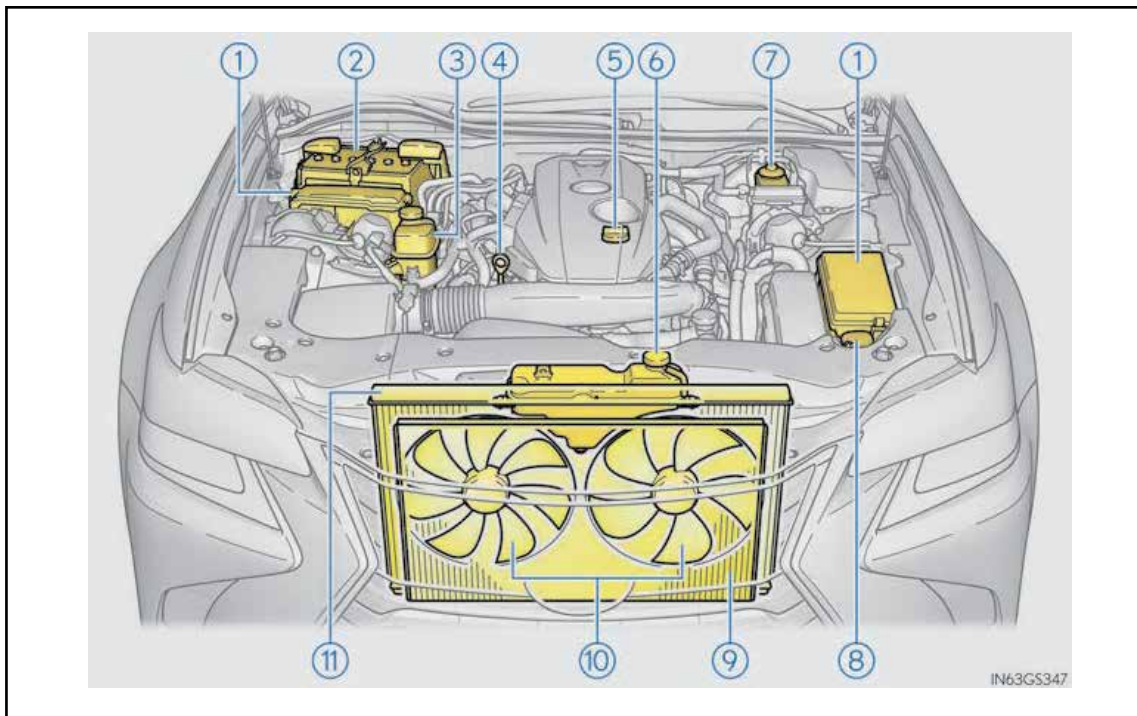
Gasoline Vehicle - GS350

	Page
① Fuse boxes	-
② Battery	3
③ Engine oil level dipstick	2
④ Engine coolant reservoir.....	5
⑤ Engine oil filler cap	-
⑥ Brake fluid reservoir.....	4
⑦ Washer fluid tank.....	4
⑧ Electric cooling fans.....	56
⑨ Condenser	-
⑩ Radiator	-

NOTE:

Install protective fender covers prior to beginning the under-hood inspection.

TABLE OF CONTENTS



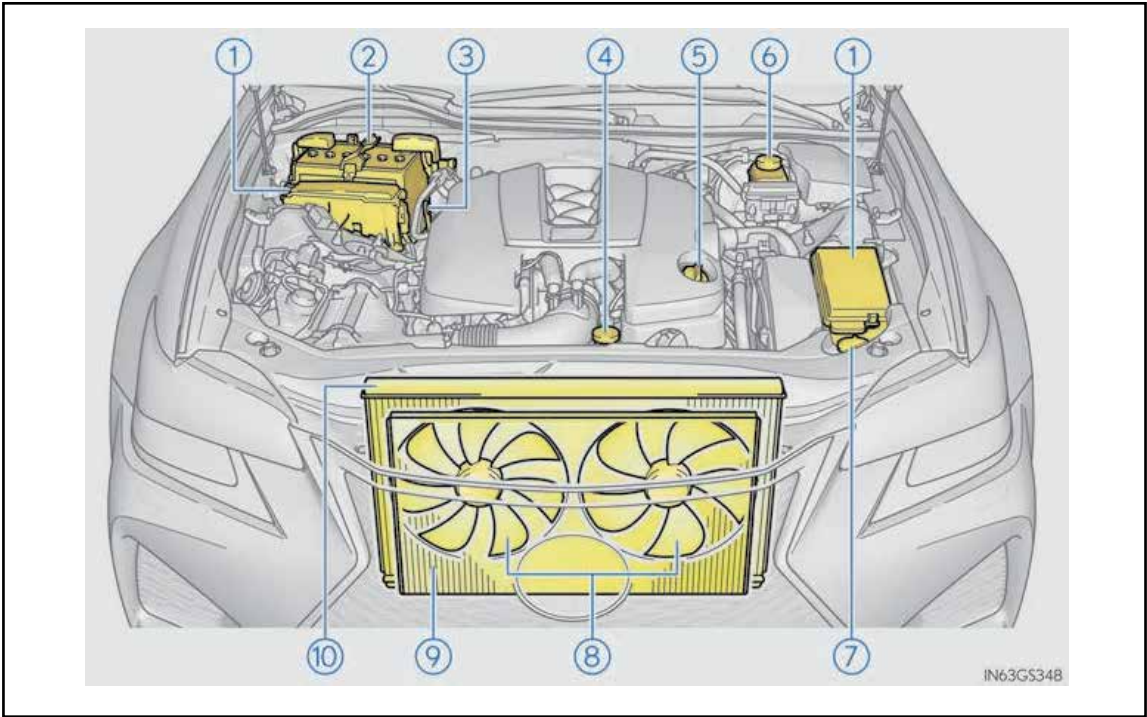
Gasoline Vehicle - GS200t

	Page
① Fuse boxes	-
② Battery	3
③ Intercooler coolant reservoir	5
④ Engine oil level dipstick	2
⑤ Engine oil filler cap	-
⑥ Engine coolant reservoir	5
⑦ Brake fluid reservoir	4
⑧ Washer fluid tank	4
⑨ Condenser	-
⑩ Electric cooling fans	56
⑪ Radiator	-

NOTE:

Install protective fender covers prior to beginning the under-hood inspection.

TABLE OF CONTENTS



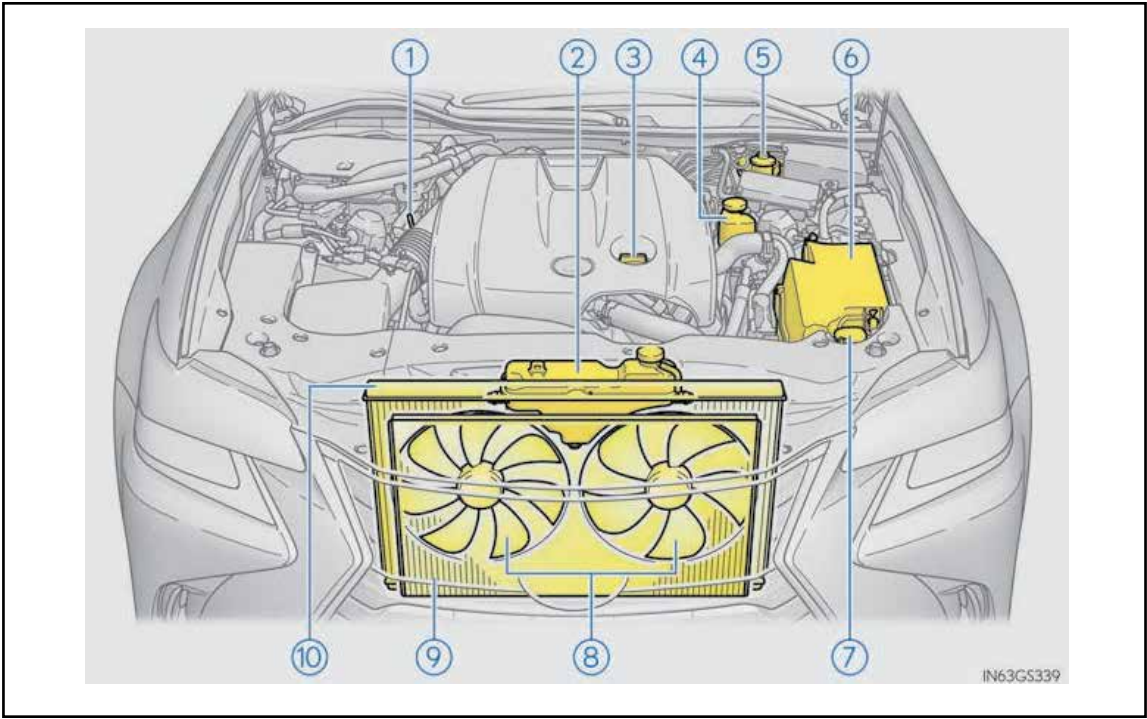
Gasoline Vehicle - GS F

	Page
① Fuse boxes	-
② Battery	3
③ Engine oil level dipstick	2
④ Engine coolant reservoir.....	5
⑤ Engine oil filler cap	-
⑥ Brake fluid reservoir.....	4
⑦ Washer fluid tank.....	4
⑧ Electric cooling fans.....	56
⑨ Condenser	-
⑩ Radiator	-

NOTE:

Install protective fender covers prior to beginning the under-hood inspection.

TABLE OF CONTENTS



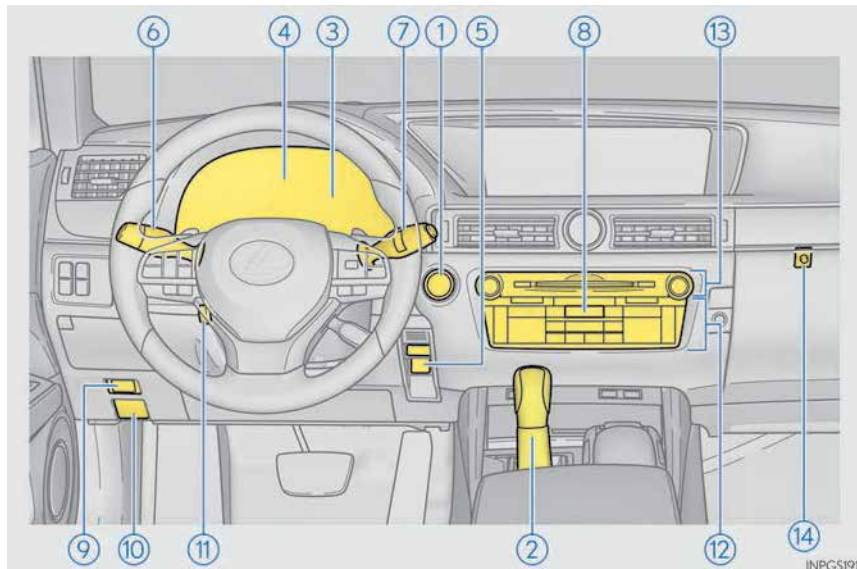
Hybrid Vehicle - GS450h

	Page
① Engine oil level dipstick	2
② Engine coolant reservoir.....	5
③ Engine oil filler cap	-
④ Power control unit coolant reservoir	5
⑤ Brake fluid reservoir.....	4
⑥ Fuse box.....	-
⑦ Washer fluid tank.....	4
⑧ Electric cooling fans.....	56
⑨ Condenser	-
⑩ Radiator	-

NOTE:

Install protective fender covers prior to beginning the under-hood inspection.

TABLE OF CONTENTS



	Page
① Engine switch	9
② Shift lever.....	55
③ Meters	22
④ Multi-information display.....	27
⑤ Parking brake switches.....	57
⑥ Turn signal lever	11
⑦ Windshield wiper and washer switch.....	20
⑧ Emergency flasher switch.....	12
⑨ Trunk opener	21
⑩ Hood lock release lever	2
⑪ Tilt and telescopic steering control switch*	27
⑫ Air conditioning system.....	28
⑬ Audio system.....	29
⑭ Trunk opener main switch	48

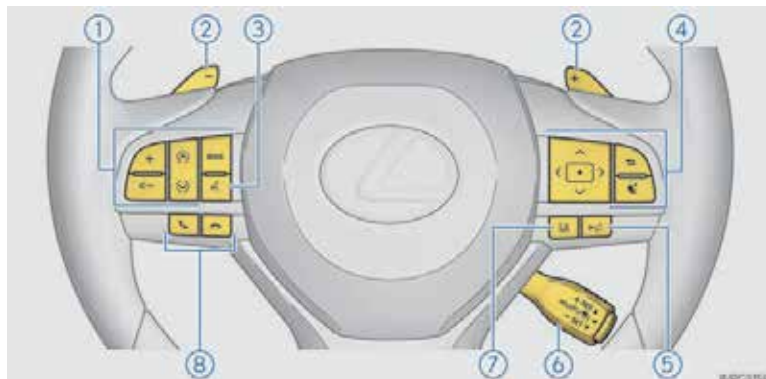
* If equipped

TABLE OF CONTENTS

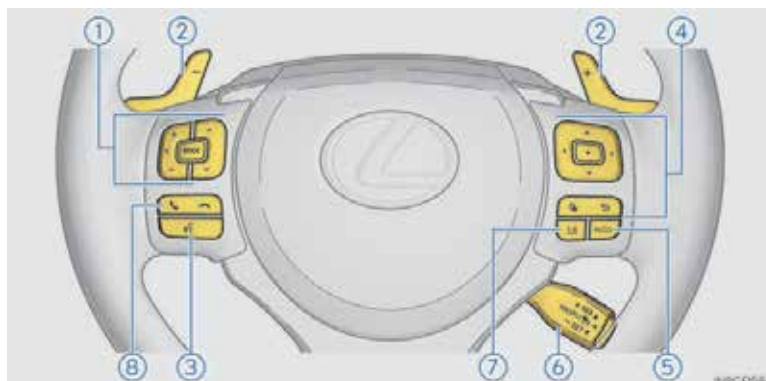
GS 200t

GS 350

GS 450h



GS F

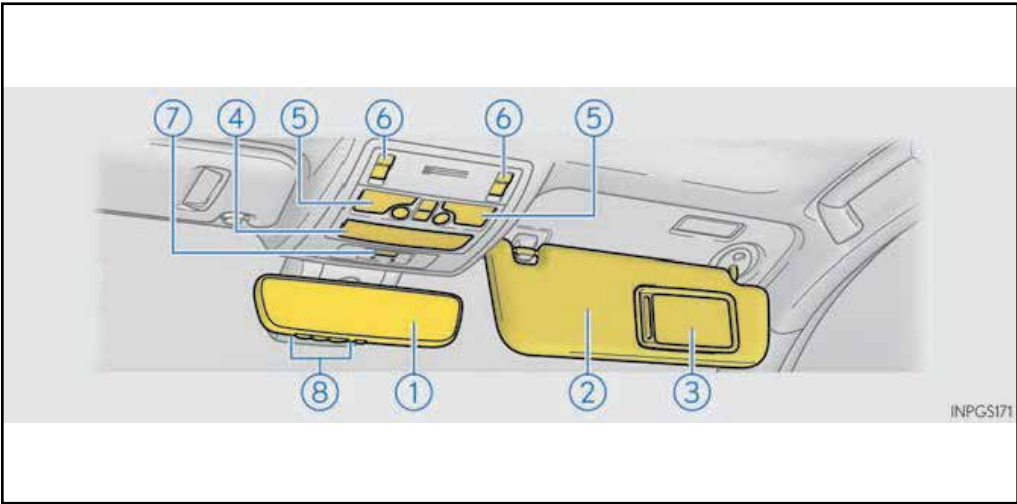


	Page
① Audio remote control switches.....	30
② Paddle shift switches	-
③ Talk switch	30
④ Meter control switches.....	30
⑤ Vehicle-to-vehicle distance button*	60
⑥ Cruise control switch*	60
⑦ LKA (Lane-Keeping Assist) switch*	58
⑧ Telephone switches	30

* If equipped

GS200t/350/450h/F

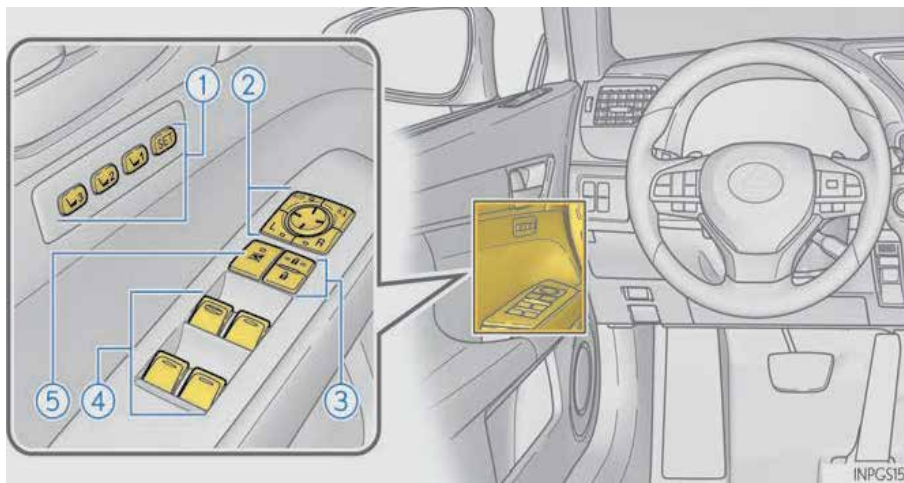
TABLE OF CONTENTS



	Page
① Inside rearview mirror	36
② Sun visors	36
③ Vanity mirrors	36
④ Interior light	35
⑤ Personal lights	35
⑥ Moonroof switches	37
⑦ “SOS” button*	38
⑧ Garage door opener switches	38

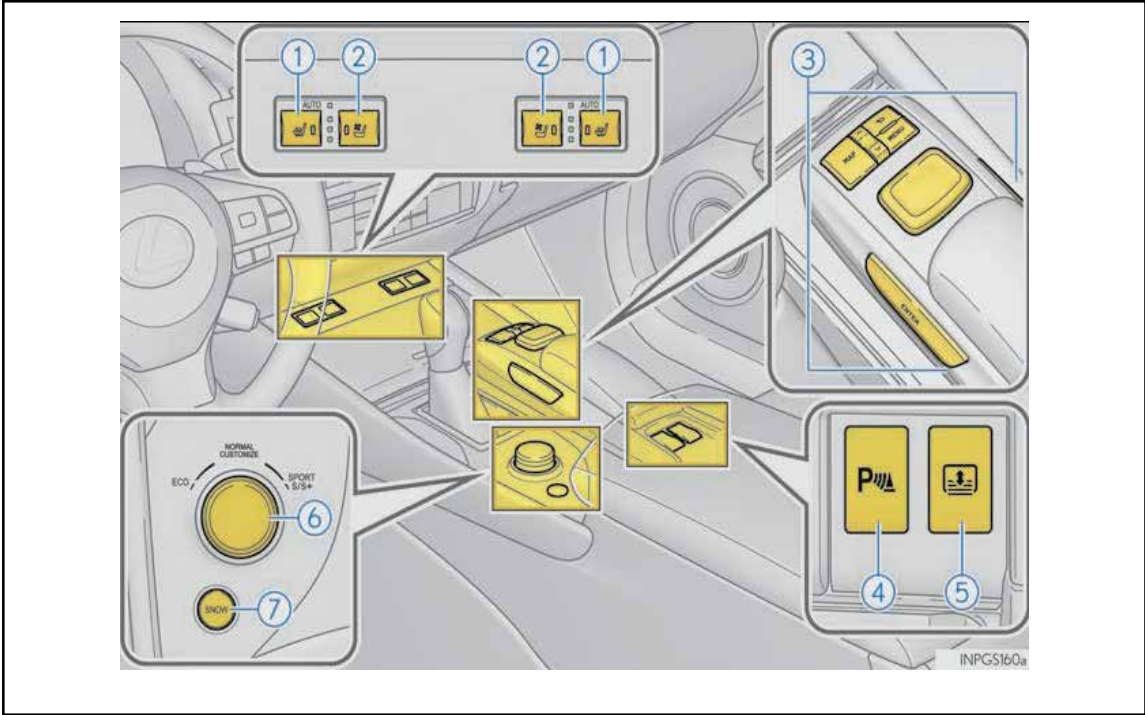
* If equipped

TABLE OF CONTENTS



	Page
① Driving position memory switches	16
② Outside rearview mirror switches	18
③ Door lock switches	17
④ Power window switches.....	17
⑤ Window lock switch	17

TABLE OF CONTENTS



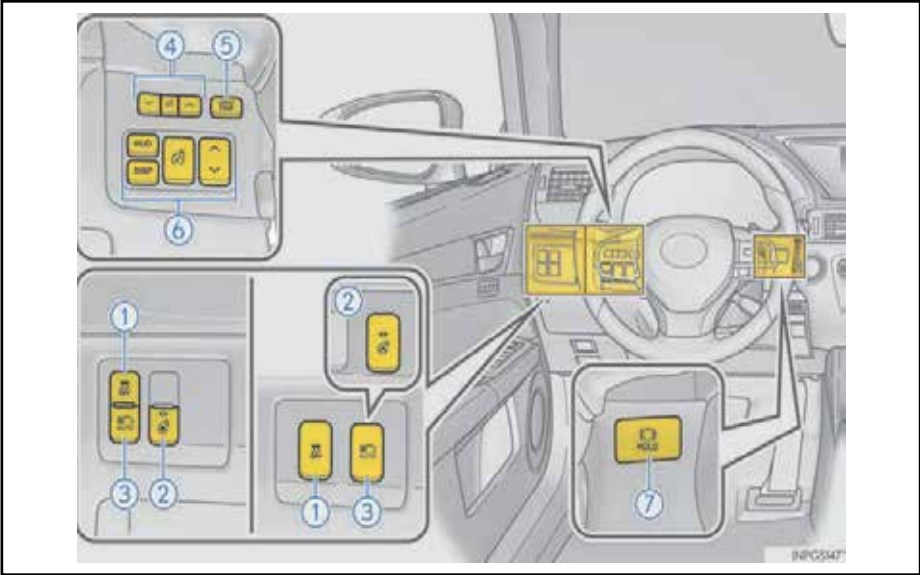
	Page
① Seat heater switches*	35
② Seat ventilator switches*	35
③ Remote Touch	31
④ Intuitive parking assist switch*	34
⑤ Rear sunshade switch	37
⑥ Driving mode select switch	61
⑦ Snow mode switch.....	57
⑧ TVD switch**	-

* If equipped

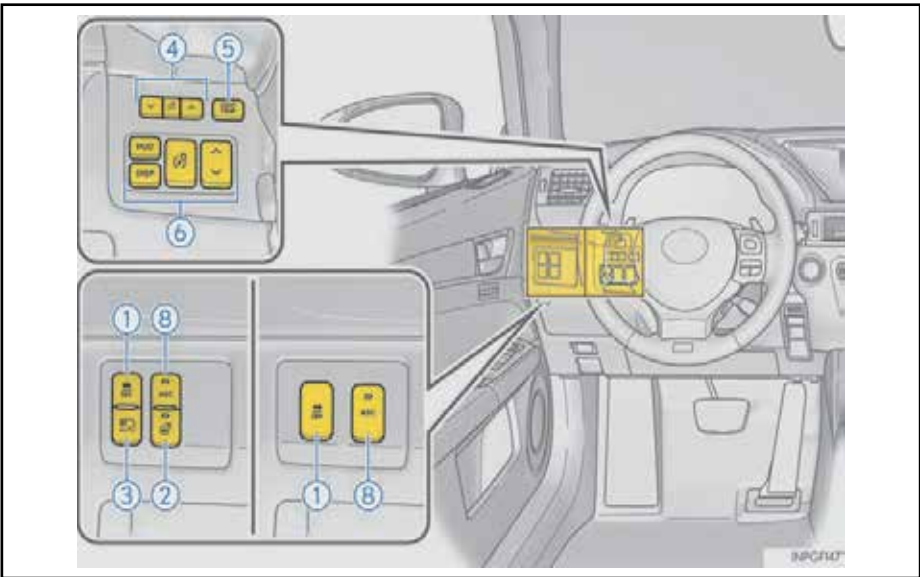
** GS F only - not shown here
(located near Snow mode switch)

TABLE OF CONTENTS

GS 200t
GS 350
GS 450h



GS F



	Page
① VSC OFF switch	62
② Heated steering wheel switch*	34
③ Automatic high beam switch*	12
④ Instrument panel light control switches.....	19
⑤ Odometer/Trip meter and trip meter reset button	19
⑥ HUD (Head-Up Display) switches*	19
⑦ Brake hold switch*	58
⑧ ASC (Active Sound Control) switch*	63

* If equipped
GS200t/350/450h/F

INSPECTION DETAILS

WASHING VEHICLE

After washing vehicle, make sure all adhesive wrapping film is removed.

NOTE:

Hand washing is recommended.

WATER LEAK TEST

Visually and by hand check for water leaks in the vehicle interior from each of the following areas (make sure that the trim and floor carpet are not damp):

- a) Door glass weather strips
- b) Front cowl sides
- c) Around the windshield
- d) Around the moonroof area
- e) Around the quarter window
- f) Around the rear window

PAINT FINISH (PAINT DEFECTS, DAMAGE)

Visually and by hand inspect all body panels (doors, trunk, fenders, engine hood, roof panel) for surface damage from shipment or for any abnormalities (surface rust, paint flaking, chips, dents or scratches).

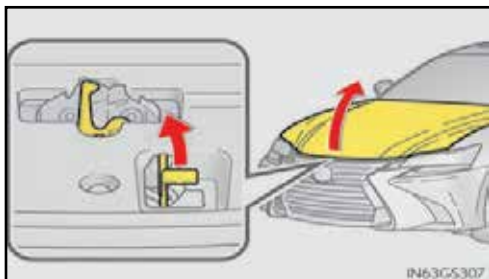
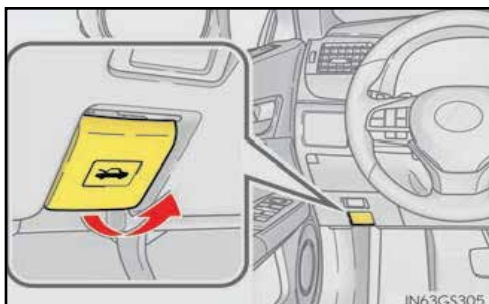
NOTE:

Carefully inspect all painted surfaces in a well-illuminated area (800-lux illumination is recommended).

EXTERIOR PARTS FOR FIT

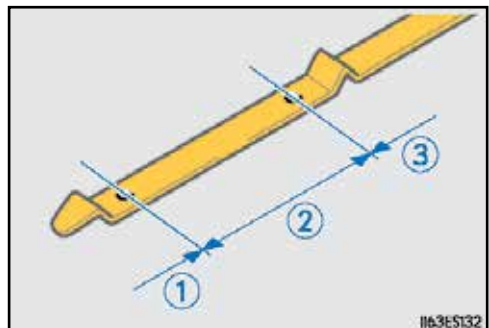
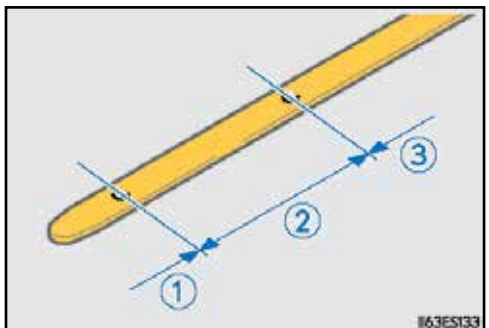
Visually and by hand check the following parts for proper installation, rust, fit, misalignment and loose items:

- a) Front and rear bumpers
- b) Window moldings (front, side and rear)
- c) Lexus emblems (front and rear)
- d) Outside rearview mirrors
- e) Exterior lights such as headlights, turn signal lights, side marker lights and tail light lenses
- f) Doors, engine hood and fuel filler door
- g) Moonroof
- h) Front/Rear door panel protector
- i) Outside door handle
- j) Radiator grille
- k) Vehicle name emblems



ENGINE HOOD RELEASE LEVER

Use the engine hood release lever to check that the latch operates properly. Ensure that the engine hood opens and closes smoothly.



ENGINE OIL LEVEL (ENGINE NOT RUNNING)

a) Remove the engine oil level dipstick and wipe it clean. Reinsert the dipstick and pull it out to check the oil level. The level should be between the two marks.

- ① Low
- ② Normal
- ③ Excessive

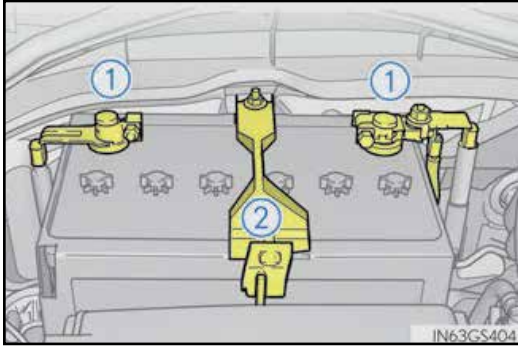
b) Check the oil for dirt or impurities.

NOTE:

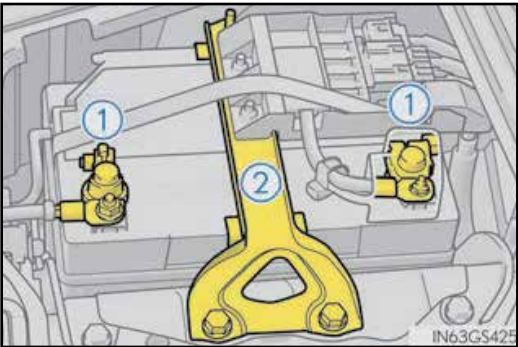
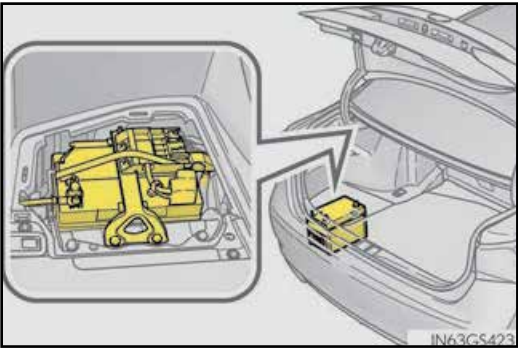
If the oil level is low, add specified engine oil and check for oil leaks.

INSPECTION DETAILS - A. ENGINE COMPARTMENT

Gasoline vehicles



Hybrid vehicles



BATTERY TERMINAL TIGHTNESS AND CHARGE

- a) Check the electrolyte level. If the electrolyte level is low, check the battery case for leakage.
- b) Check the battery charge. Measure the open-circuit battery voltage between the terminals. If the voltage reading is less than 12.6 volts, recharge the battery.

NOTE:

Before measuring the voltage, turn off the engine and all electrical systems. Wait 60 seconds to remove the surface charge. If the engine was running before measuring the voltage, wait 20 minutes after the engine stops to remove the surface charge.

- c) Check that the battery terminals are properly connected and that the clamp is firmly installed.

- ① Terminals
- ② Hold-down clamp

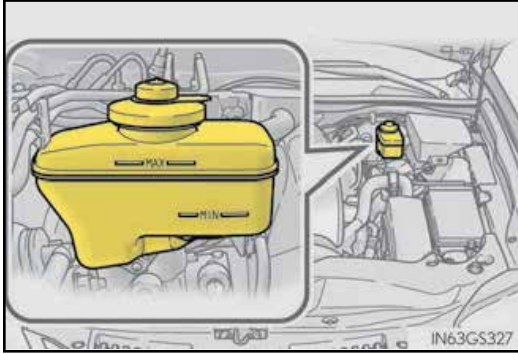
- d) Print out battery charge test.

WIRING AND HOSES

- a) Check the hoses, hose connectors and various clamps for tightness.
- b) Visually inspect the condition of all harness connectors and terminals for proper installation and tightness.

INSPECTION DETAILS - A. ENGINE COMPARTMENT

GS 200t/350/450h



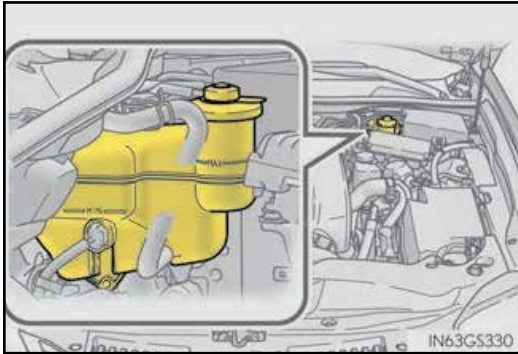
BRAKE FLUID LEVEL

Visually check the fluid level through the reservoir. If the fluid level is low, replenish the brake fluid reservoir with FMVSS No. 116 DOT 3 or SAE J1703 brake fluid and check for fluid leaks. Brake fluid level should be at the "MAX" line (within 0.2 inches [5.0 mm] below).

NOTE:

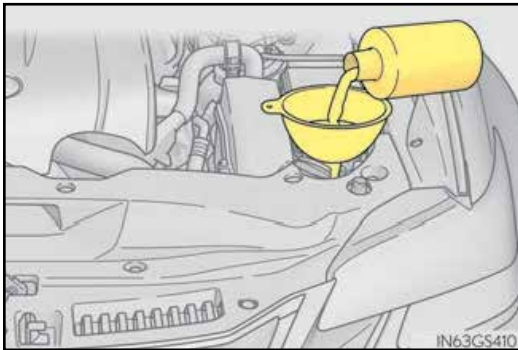
Refer to the *Repair Manual* for fluid specifications.

GS F



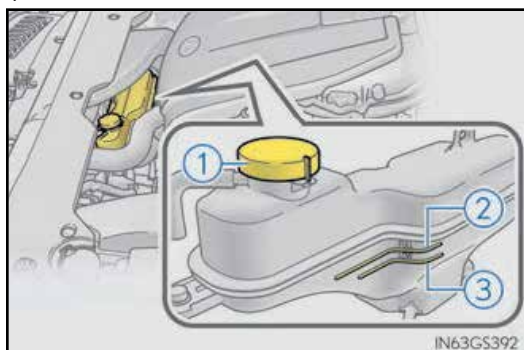
WASHER FLUID LEVEL

Open the washer tank cap and visually check the washer fluid level in the washer tank. The fluid level should be filled to within 2 inches of the cap.

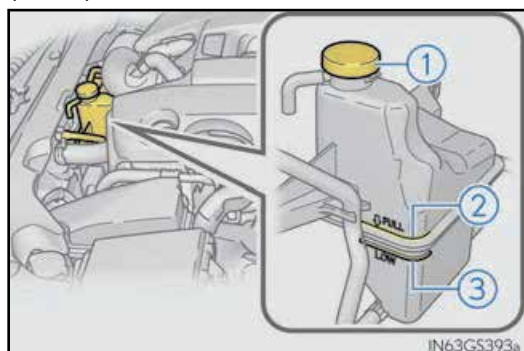


INSPECTION DETAILS - A. ENGINE COMPARTMENT

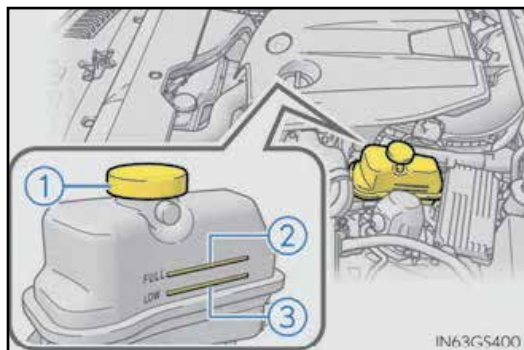
Engine coolant
(GS350 shown; GS200t & GS450h similar)



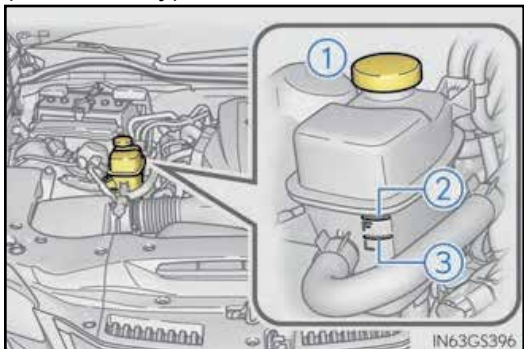
Engine coolant
(GS F)



Power Control Unit coolant
(GS450h only)



Intercooler coolant reservoir
(GS200t only)



ENGINE COOLANT LEVEL / HYBRID SYSTEM POWER CONTROL UNIT COOLANT LEVEL*

Visually check the coolant level through the coolant reservoir tank when the engine/hybrid system is cool. The coolant level is satisfactory if the level is between the "FULL" and "LOW."

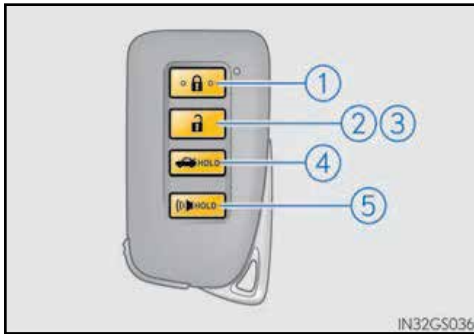
- ① Reservoir cap
- ② FULL / "F" line
- ③ LOW / "L" line

Only use "Toyota Super Long Life Coolant."

CAUTION:

To avoid burning yourself, do not remove the radiator cap when the engine/hybrid system is hot.

* If equipped



WIRELESS REMOTE CONTROL

Inspect the five functions of the system.

- ① Locks the doors
- ② Unlocks the doors
- ③ Opens the windows and moonroof
- ④ Opens the trunk
- ⑤ Sounds the alarm

a) Locking the doors

1. Close all the doors.
2. Press  on the electronic key to lock all the doors from outside the vehicle.

NOTE:

When  is pressed to lock doors, a beep will sound and all turn signal lights will flash once. However, if any door is not closed securely, pressing  will cause the buzzer to sound continuously until all doors are properly closed.

b) Unlocking the doors

1. Press  on the electronic key once to unlock the driver's door.
2. Press  once again within 3 seconds to unlock the other doors.

NOTE:

The interior light and outer footlights will turn on and all the turn signal lights flash twice, sounding two beeps.

3. Check that all doors automatically re-lock after 60 seconds if any door is not opened.

c) Opening/closing the trunk

Press and hold  to open the trunk.

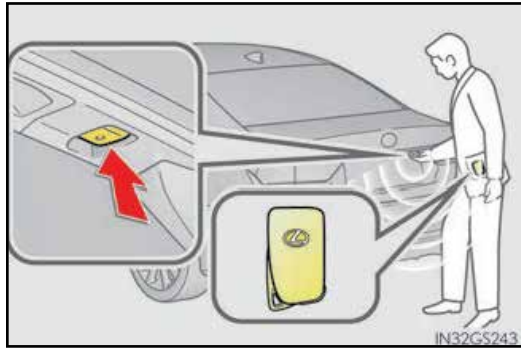
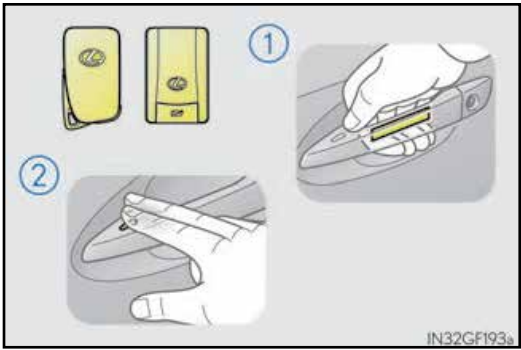
NOTE:

A buzzer sounds to indicate the trunk is opening.

d) Sounding the alarm

1. Press and hold  to sound the alarm.
2. To stop the alarm, press any button.





SMART ACCESS SYSTEM

a) With electronic key inside the vehicle, touch the lock sensor (on the upper part of the outside door handle) and the trunk lock button. Check that the buzzer sounds and that the doors do not lock.

b) Take the electronic key out of the vehicle and touch the lock sensor again. Check that the door locks.

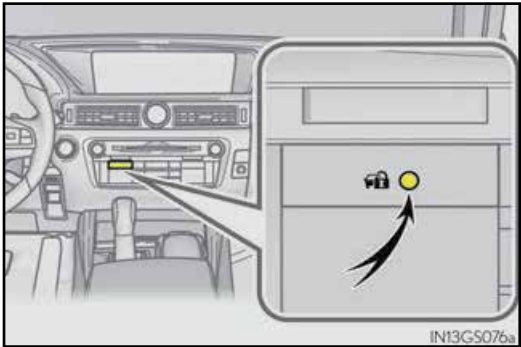
NOTE:

Recognition signals for the lock operation will operate up to two consecutive times.

c) From a distance of at least 2.3 ft. (0.7 m), approach the vehicle and pull the driver and passenger side door handles, and the trunk opener. Check that the doors unlock.

NOTE:

The doors cannot be unlocked for 3 seconds after they were locked.



THEFT DETERRENT SYSTEM

With the doors locked, check that the system operates properly.

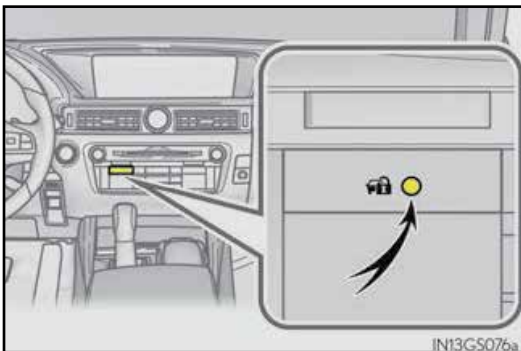
System Test:

a) Open the windows.

b) Lock the doors by smart access system, wireless remote control or mechanical key. Be sure to wait until the security light on the center panel starts flashing.

c) Unlock one of the doors using the inside door lock. The system should activate the alarm (horn sounds, headlights, tail lights and emergency flasher blink, interior light illuminates).

d) Cancel the system by unlocking doors with the smart access system, wireless remote control or mechanical key.

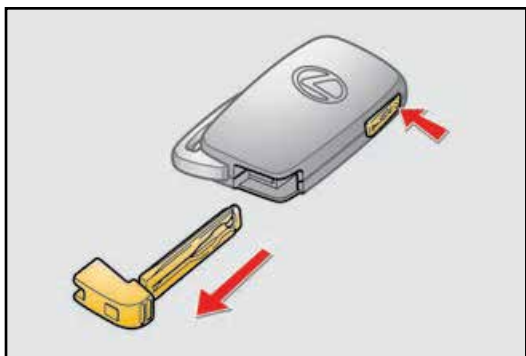


IMMOBILIZER SYSTEM

a) Check that the security indicator light flashes when the engine switch is OFF.

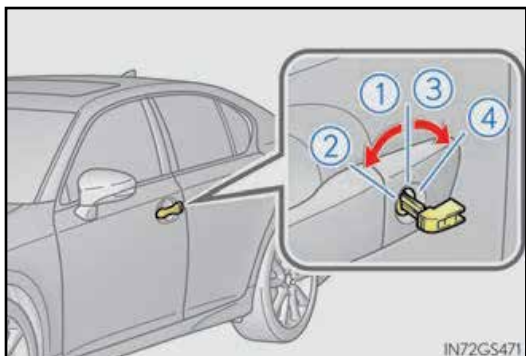
b) Check that the engine can be started using all the keys.

c) Check that the security indicator light turns off when starting the engine.



DOOR LOCK SYSTEM AND ILLUMINATED ENTRY SYSTEM

- a) Check that all doors open and close smoothly using the inside and outside door handles.
- b) Check that the doors cannot be opened by using the inside and outside door handles when the lock button is in the locked position (except front inside door handles).
- c) For front inside door handles: Check that the front doors can be opened by using the inside door handles when the lock button is in the lock position.
- d) Check exterior key lock control system operation by mechanical key (with driver's door).

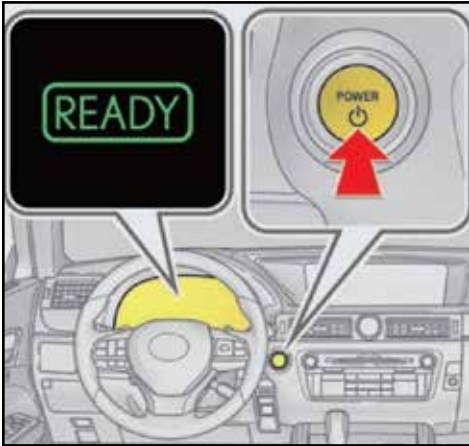


- ① Locks all doors
- ② Closes the windows and moonroof (turn and hold)
- ③ Unlocks the door (two-step unlock function):
 - 1. Turn the key once to unlock the driver's door.
 - 2. Turn the key again to unlock all the doors.
- ④ Opens the windows and moonroof (turn and hold)



- e) Check that the outer footlight illuminates when the door is opened.

Hybrid vehicles; gasoline similar



POWER SUPPLY CHANGEOVER AND ENGINE START/STOP

Check for proper activation of the “START STOP/ENGINE”/“POWER” switch.

Power supply changeover

- a) Carry the electronic key in the vehicle and apply the parking brake.
- b) Without depressing the brake pedal, press the engine switch and change the power supply.
 - ① OFF
 - ② Press once: “ACCESSORY” mode
 - ③ Press twice: “IGNITION ON” modePress three times: OFF
- c) In each mode, check that the power supply has changed properly.

Engine start/stop

- a) Carry the electronic key in the vehicle and apply the parking brake.
- b) Check that the shift lever is in the “P” position.
- c) While depressing the brake pedal, press the “START/STOP ENGINE” switch.

Hybrid system start/stop

- a) Carry the electronic key in the vehicle and apply the parking brake.
- b) Check that the shift lever is in the “P” position.
- c) While depressing the brake pedal, press the “POWER” switch.
- d) Check that the “READY” indicator is illuminated.
- e) Push the “POWER” switch (regardless of whether brake pedal is depressed or not) to stop the hybrid system.

NOTE:

If the hybrid system is stopped with the shift lever in a position other than “P” the power supply mode is switched to “ACCESSORY” mode, not to OFF, and the battery will deplete.

EXTERIOR LIGHTS

Walk around the vehicle and check that the following lights illuminate:

- a) Headlights
- b) Parking lights and daytime running lights
- c) Side marker lights (front)
- d) Front/Side turn signal lights
- e) Stop/Tail lights*
- e) Rear turn signal lights
- f) Side marker lights (rear)
- g) License plate lights
- h) High-mounted stoplight
- i) Back-up lights
- j) Outer footlights

HEADLIGHT AIM

If headlight aim is not correct, see *Repair Manual* for headlight aim procedure.



ADAPTIVE FRONT LIGHTING (AFS)*

Check that the indicator light illuminates when the AFS is deactivated.

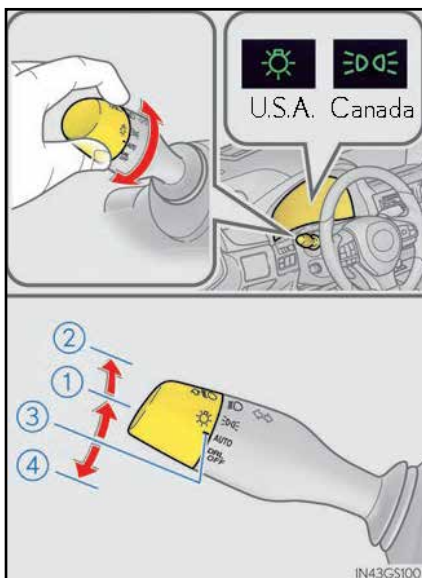
* If equipped



TURN SIGNAL, HEADLIGHT, HIGH BEAM, AUTOMATIC HIGH BEAM* AND EMERGENCY FLASHER INDICATOR LIGHTS

a) Check that the turn signal indicator lights on the instrument panel illuminate when the turn signal lever is moved up or down.

- ① Right turn
- ② Move the lever partway and release to signal a lane change (Right)
- ③ Move the lever partway and release to signal a lane change (Left)
- ④ Left turn



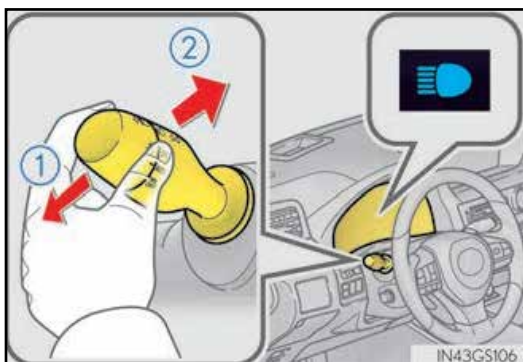
b) Check that the headlight or tail light indicator illuminates when the headlight switch is on.

- ① The side marker, parking, tail, license plate and instrument panel lights turn on
- ② The headlights and all lights listed above turn on.
- ③ The headlights, daytime running lights, and all lights listed above turn on and off automatically (when the engine switch is in ON mode.)
- ④ Turn off the daytime running light system

NOTE:

- Headlights and tail lights automatically turn off 30 seconds after a door is opened and closed if the engine switch is turned OFF.
- When only the tail lights are on, the lights automatically turn off with the driver's door opened and the engine switch turned OFF.

c) Check operation of the automatic light control function.

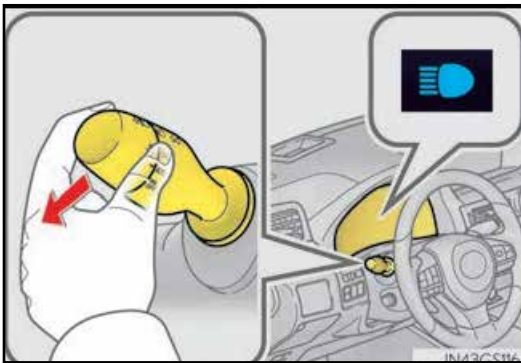


d) Check that the high beam indicator light illuminates when the high beams are on.

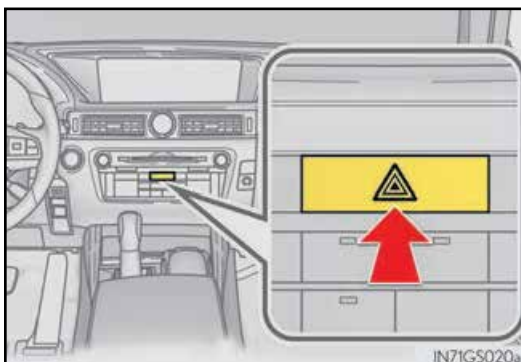
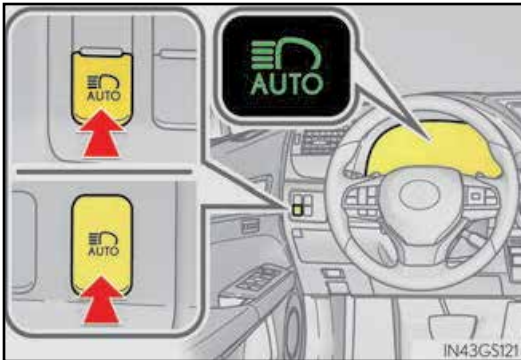
- ① With the headlights on, push the lever forward to turn on the high beams. Pull back to center to turn off.
- ② Pull the lever toward you and release it to flash the high beams once.

* If equipped

INSPECTION DETAILS - B. LOCKS AND LIGHTS



e) Check operation of the automatic high beam* switch.



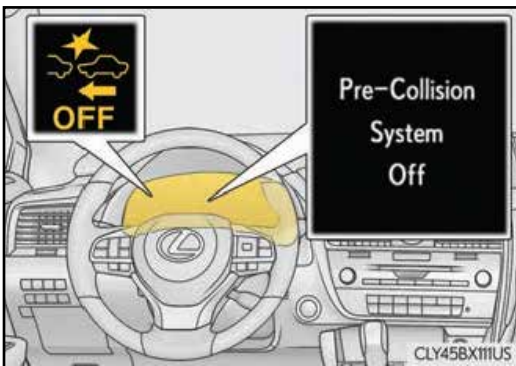
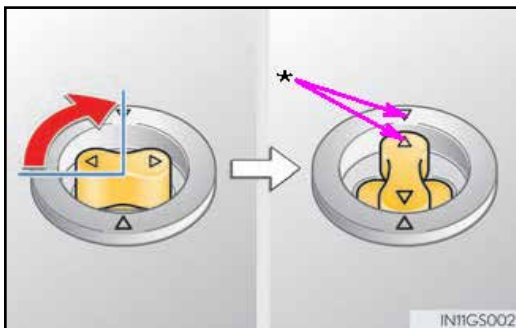
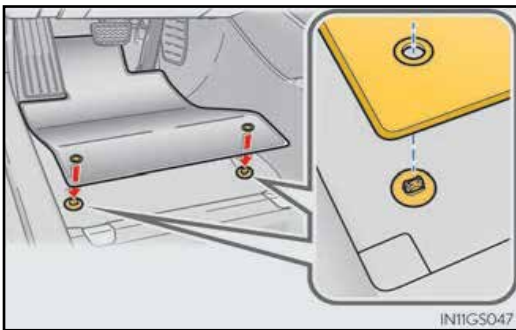
f) Check that the turn signal lights and turn signal indicator lights blink when the emergency flasher switch is on.

* If equipped

INTERIOR PARTS FOR DAMAGE AND FIT

Visually inspect the following interior parts for dirt, damage, and proper fit and alignment:

- a) Instrument panel, dashboard and glove box
- b) Roof headliner, pillar, roof side garnish and sun visors
- c) Door trim and quarter trim panels
- d) Seat upholstery, floor carpeting and door scuff plates
- e) Console box
- f) Steering wheel



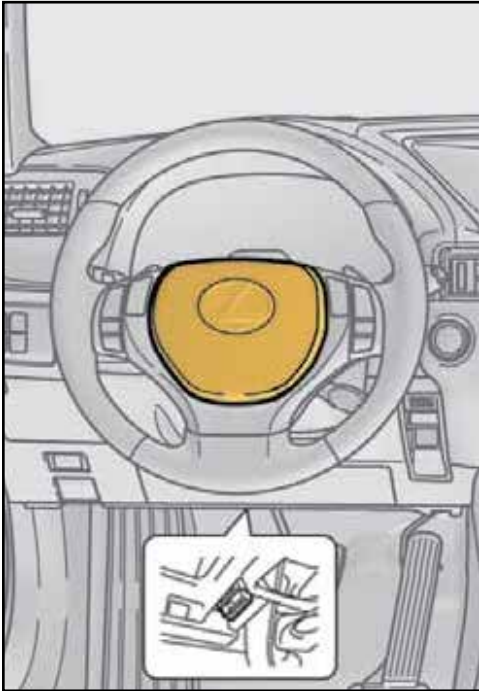
FLOOR MATS

Check that the floor mats are designed specifically for this car. Fix them securely in place onto the carpet.

PRE-COLLISION SYSTEM*

Check the multi-information display to confirm that the PCS feature is ON.

* If equipped



SYSTEMS CHECK & ENFORM DOWNLOAD

- Check all systems with Techstream tester. For details on this procedure, refer to the engine troubleshooting section of the Repair Manual
- Tire Pressure Warning System initialization - refer to TSIB.
- TPWS Operation Verification
 - Connect Techstream to DLC3.
 - Adjust all tires (except the compact spare tire*) to the standard tire inflation pressure, as indicated on the tire and loading information label on vehicle.

NOTE:

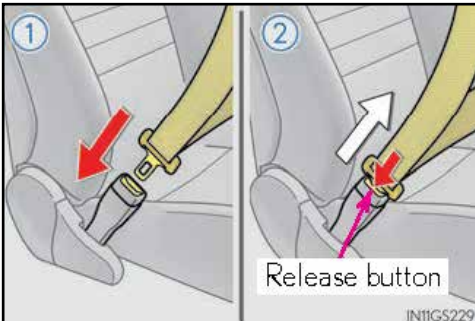
To adjust tire pressure correctly when outside temperature is significantly colder or warmer than shop temperature, perform a Health Check using Techstream and select the "Compensation Tire Pressure" check box. Compensation pressures will be displayed on the Health Check results screen.

Adjust the tire pressure when the tires are cold.

- Techstream Tire Pressure Information - print out.

- Health Check - print out.

- Enform Apps & Data Services Download & Installation Process - see TSIB.



SEAT BELT

Check seat belt operation.

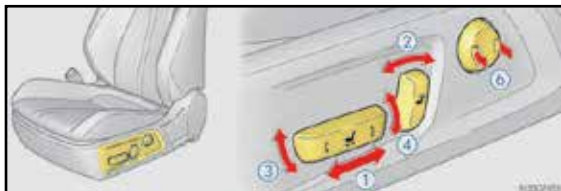
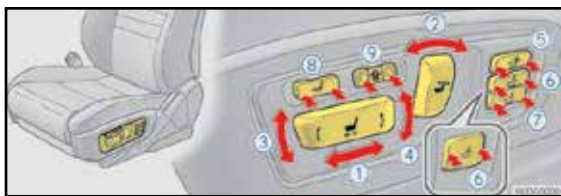
- Check that the belt extends and retracts smoothly.
- Check that the belt is not twisted.
- Check that the buckle locks securely and releases smoothly.

- Fasten
- Release

- Check that the adjustable seat belt anchor operates properly and that it securely locks in position.

- Push the anchor down while pressing release button.
- Push the anchor up.

* If equipped



SEAT ADJUSTMENT

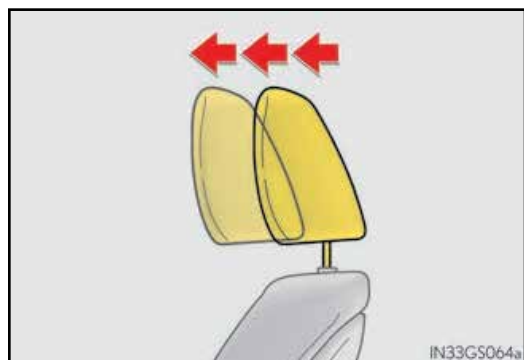
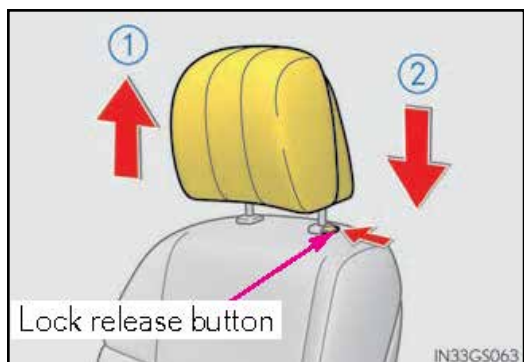
Check seat adjustment operation.

a) Seat adjustment

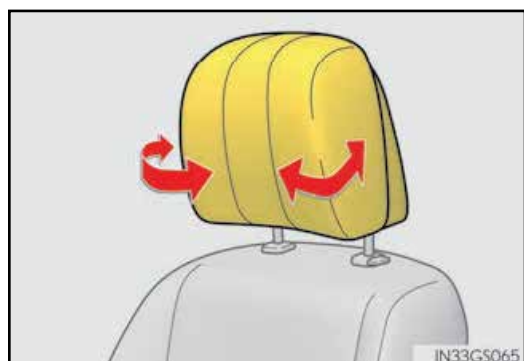
- ① Seat position adjustment switch
- ② Seatback angle adjustment switch
- ③ Seat cushion (front) angle adjustment switch
- ④ Vertical height adjustment switch
- ⑤ Seatback upper angle adjustment switch*
- ⑥ Lumbar support adjustment switch*
- ⑦ Pelvic support adjustment switch*
- ⑧ Seat cushion length adjustment switch*
- ⑨ Seatback side support adjustment switch*

b) Head restraint adjustment

- ① Up
Pull the head restraints up
- ② Down
Push the head restraint down while pressing the lock release button.

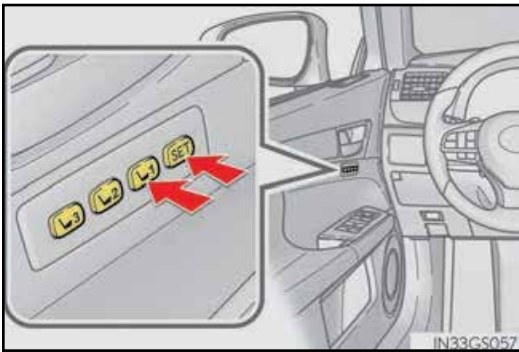


c) Angle adjustment*



d) Side support adjustment*

* If equipped



DRIVING POSITION MEMORY SYSTEM

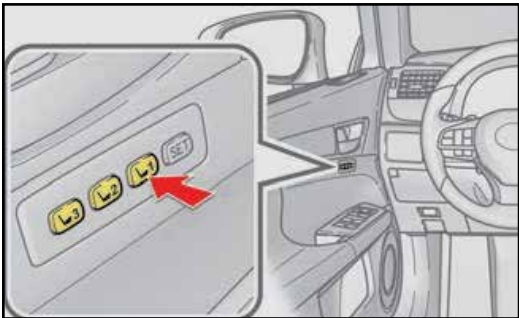
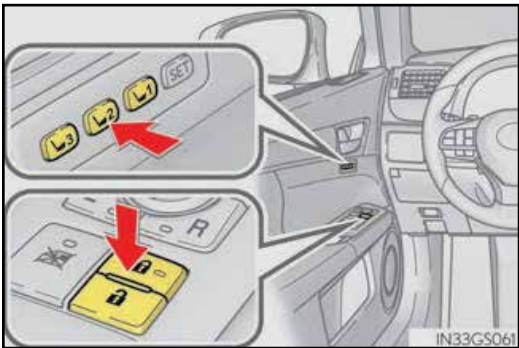
a) Set driving position: With the engine switch in ON mode and the shift lever in the "P" position, check the operation:

1. Adjust the driver's seat, steering wheel, outside rearview mirrors and HUD* to the desired positions.
2. While pressing the "SET" button, press button "1," "2" or "3" until the buzzer sounds.
3. Check all buttons (1, 2 and 3) to make sure that all memorized settings operate correctly.

b) Register set driving positions to a key: With the shift lever in the "P" position, close the driver's door and turn the engine switch to ON mode.

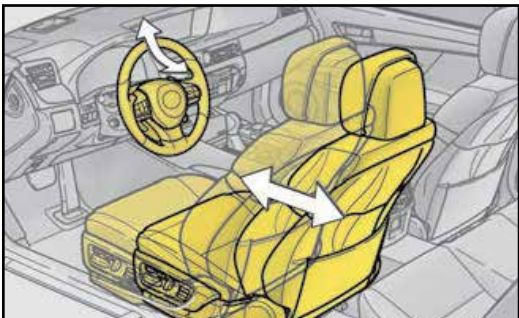
1. Register a driving position to the button "1," "2" or "3."
2. Do not carry more than one key (including a card key*) when registering. While pressing the button "1," "2" or "3," press the driver's door lock switch (either lock or unlock switch) until a signal beeps.

3. Unlock the driver's door using the entry function or wireless remote control, open the driver's door, and check that the stored driving position is recalled.

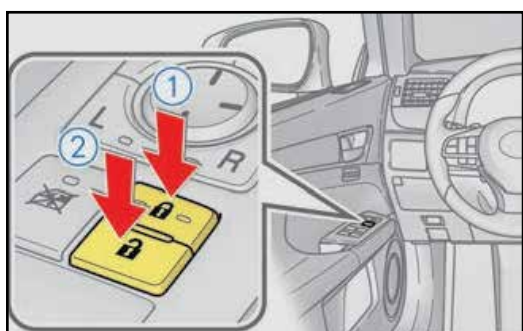
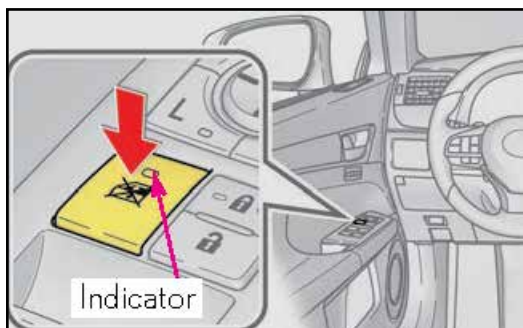
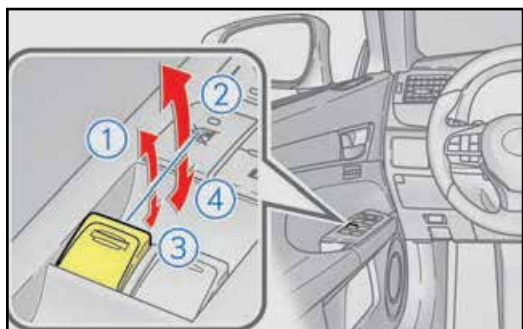


c) Power easy access system

Check that the steering wheel and driver seat automatically adjust to allow the driver to enter and exit the vehicle easily.



* If equipped



POWER WINDOWS AND DOOR LOCKS

a) With the engine switch in ON mode, operate the power window switch for each window. Check that the power window up and down operation is smooth.

- ① Closing
- ② One-touch closing
- ③ Opening
- ④ One-touch opening

b) Check that the windows (other than the driver's window) cannot be operated when the window lock switch is on.

c) Check operation of the power door lock switches from the driver's and passengers' doors.

- ① Locks all doors
- ② Unlocks all doors

d) With the doors closed, check that the power windows can be fully operated after the engine switch has been switched to ACCESSORY or OFF mode.

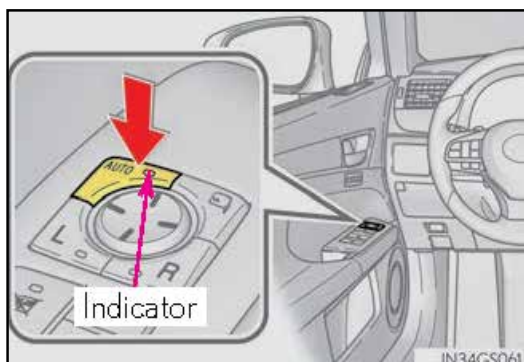
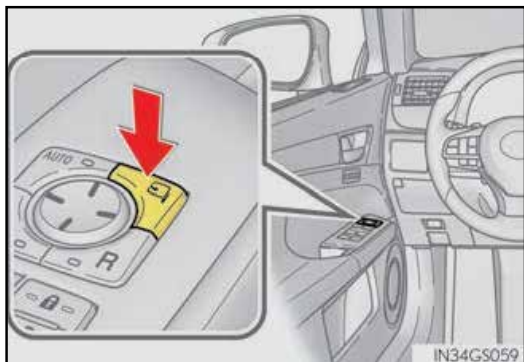
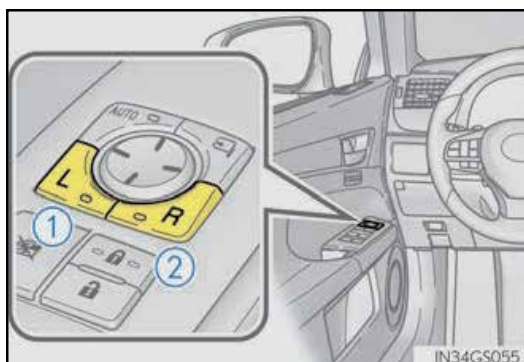
NOTE:

This feature is canceled after 45 seconds or if either front door is opened.

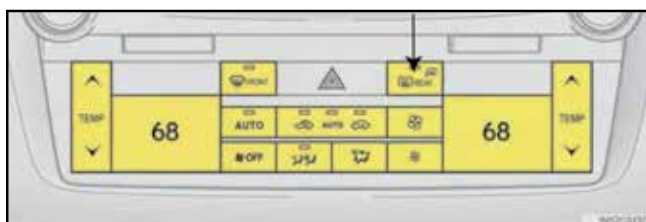
OUTSIDE REARVIEW MIRRORS

a) Check power outside rearview mirror operation with the engine switch in the ACCESSORY or ON mode.

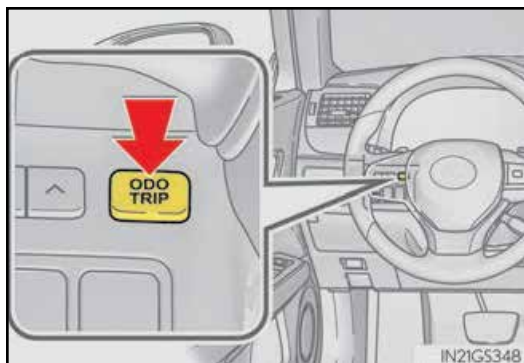
1. Press the master switch "L" (left) and "R" (right) and press the control switch in the desired direction (up, down or side-to-side). Check that the mirrors operate smoothly.
2. Press the switch to fold the mirrors. Press again to extend them to the original position.



b) Press the "AUTO" switch to set automatic mode (folding/extending of the mirrors links to locking/unlocking of the doors). Check that the indicator illuminates.

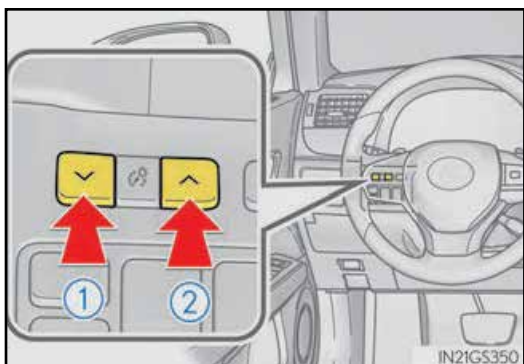


c) Check the operation of the mirror defoggers. Press the rear window and outside rearview mirror defogger switch with the engine switch in ON mode.



ODOMETER AND TRIP METER DISPLAY

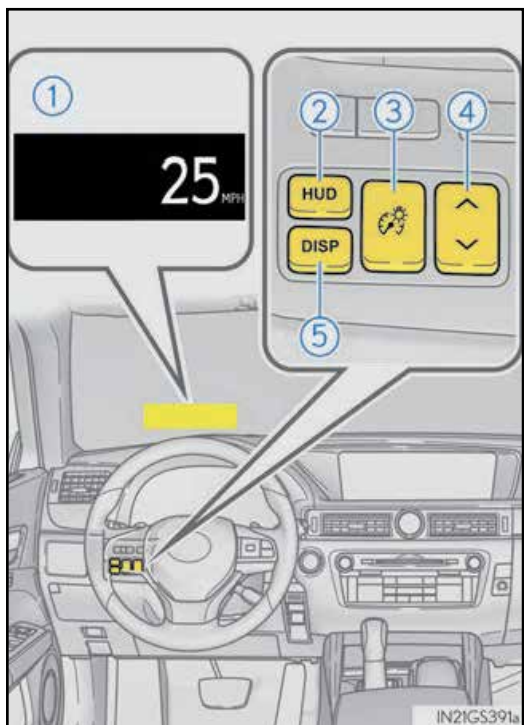
Check operation of the odometer and trip meter display switch.



INSTRUMENT PANEL LIGHT CONTROL

Check that the instrument panel light control switch operates properly.

- ① Darker
- ② Brighter

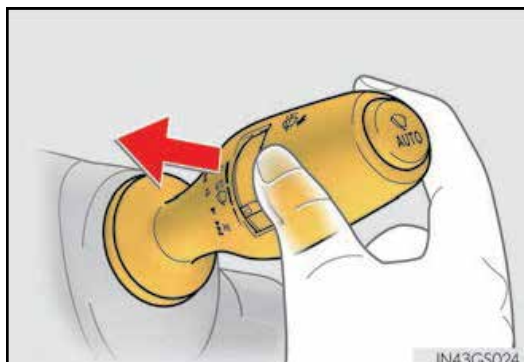


HEAD-UP DISPLAY*

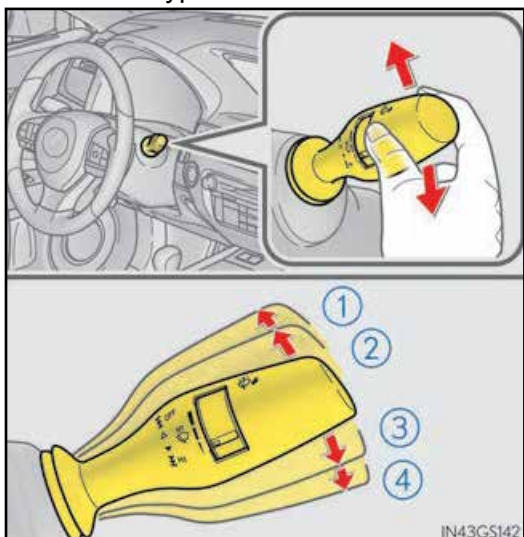
- a) Press the head-up display main switch ("HUD") and check that the head-up display appears on the windshield on the driver's side.
- b) Use the switches to change brightness and location of the head-up display. Check that both operate properly.

- ① Head-up display
Display brightness will change automatically according to the brightness of the surrounding area.
- ② "HUD" button
- ③ Display brightness adjustment switch
Display brightness can be adjusted to the desired level.
- ④ Display position adjustment switch
- ⑤ "DISP" button

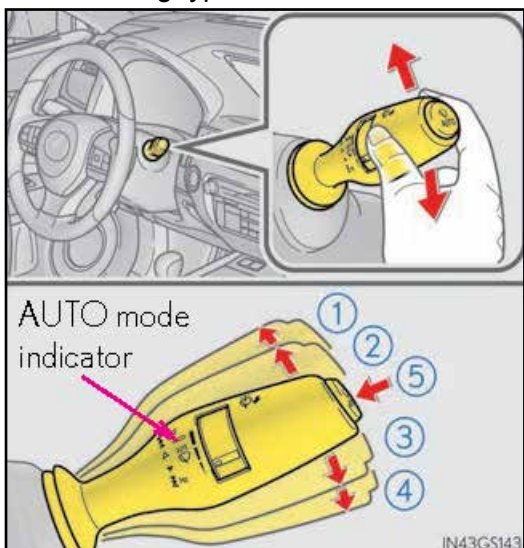
* If equipped



Intermittent type*



Rain-sensing type*



WINDSHIELD WIPERS AND WASHER

With the engine switch in ON mode:

- Pull the lever toward you and check that washer fluid squirts onto the proper area of the windshield and that wipers are activated. Wipers will make one additional pass after a short delay.
- Check wiper speed operation on all settings. Check that the wiper blades wipe off the washer fluid cleanly.
- The wipers should not make any abnormal noise when operating.

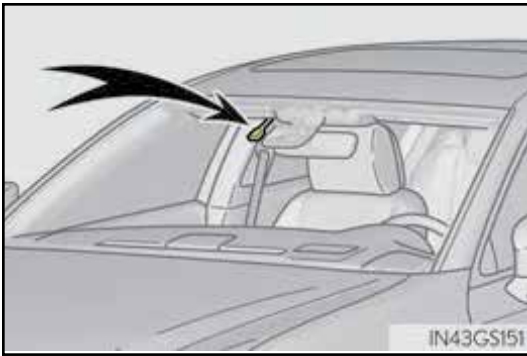
NOTE:

- Intermittent type - The frequency of the intermittent wiper can be adjusted by turning the knob.
- Rain-sensing type - The sensitivity of the sensor can be adjusted by turning the knob.
- Add washer fluid up to the proper level.

- ① "OFF" - Move lever up two levels
- ② Move lever up one level
- ③ Move lever down one level
- ④ "HI" - Move lever down two levels
- ⑤ AUTO mode on/off switch*

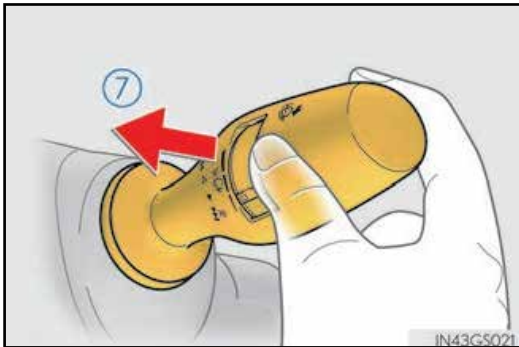
* If equipped

INSPECTION DETAILS - C. LEFT FRONT



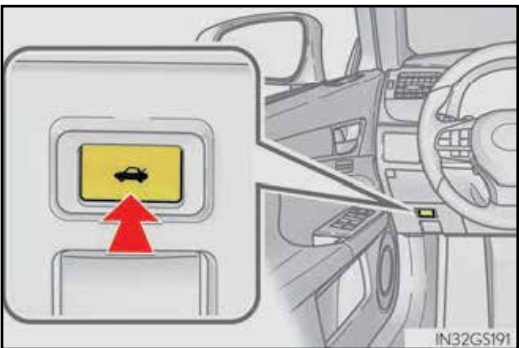
Rain-Sensing Function*

d) With the wiper switch lever in the "AUTO" position, splash the water on the windshield around the windshield sensor and check that the wipers operate.



HEADLIGHT CLEANERS*

With the engine switch in ON mode and the headlights on, pull and hold the lever to check that washer fluid splashes on the headlights.



TRUNK OPENER SWITCH

Check operation of the trunk opener switch.

* If equipped

INDICATOR AND WARNING LIGHTS

- a) With the engine switch in ON mode, check that each warning and/or indicator light operates properly.
- b) With the engine switch in ON mode, check that the following warning and/or indicator lights come on and then go off after a few seconds:

- Brake system warning
- Charging system warning*
- Malfunction indicator
- SRS airbag warning
- ABS warning
- Electric power steering system warning
- Slip indicator
- PCS (Pre-Collision System) warning*
- AFS OFF indicator*
- Brake hold operated indicator*
- Brake system warning
- Tire pressure warning
- Master warning
- VSC OFF indicator
- TRAC OFF indicator*
- Brake hold standby indicator*
- Eco driving indicator
- Air bag ON/OFF indicator



See illustrations on next page.

Refer to “Warning Lights and Buzzers” on page 24 for details.



2016 GS F

* If equipped

INSPECTION DETAILS - C. LEFT FRONT

Except F SPORT models



2016 GS200t/350

F SPORT models



Except F SPORT models



2016 GS450h

F SPORT models



Warning Lights and Buzzers

Light/Buzzer		Function/Condition
	Brake System Warning Light and buzzer	Brake system warning light • Low brake fluid • Malfunction in the brake system
	Brake System Warning Light	Indicates a malfunction in the parking brake system
	Seat Belt Reminder Light and Buzzer	The driver's and front passenger's seat belt reminders sound 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.
	SRS Warning Light	Indicates a malfunction in: • The SRS airbag system. • The front passenger occupant classification system. • The seat belt pretensioner system.
	Charging System Warning Light	Indicates a malfunction in the vehicle's charging system.
	Malfunction Indicator Lamp	Indicates a malfunction in: • The electronic engine control system. • The electronic throttle control system. • The electronic automatic transmission control system
	Parking Brake Indicator	Indicates that the parking brake is not fully engaged or released.
	Brake Hold Operated Indicator	Indicates a malfunction in the brake hold system.

INSPECTION DETAILS - C. LEFT FRONT

Light/Buzzer		Function/Condition
	Master Warning Light	A buzzer sounds and the warning light comes on or flashes to indicate that the master warning system has detected a malfunction. If the master warning light comes on, a message appears on the multi-information display.
	ABS (Anti-lock Brake System) Warning Light	The light comes on when the "ENGINE" switch is in the "IG-ON" mode and will go off after 3 seconds. This means that the system is operating properly. This light warns that there is a problem somewhere in the ABS and the brake assist system.
 (Flashes)	PCS (Pre-Collision System) Warning Light	The light warns that there is a problem somewhere in the PCS. The light comes on when the "ENGINE" switch in the "IG-ON" mode. If the system works properly, the light turns off after a few seconds.
	Tire Pressure Warning Light	Indicates low tire pressure. When the light stays on after blinking for 1 minute, it indicates a malfunction in the tire pressure warning system.
 (Flashes)	AFS (Adaptive Front-lighting System) Off Indicator	Indicates a malfunction in the AFS. Have the vehicle inspected by your Lexus dealer immediately.
	Electric Power Steering System Warning Light	This light comes on when the "ENGINE" switch is selected in the "IG-ON" mode and goes off when the hybrid system is started. This means that the system is operating properly. This light warns that there is a problem somewhere in the electric power steering system. Also when the battery charge is not enough or the electricity temporarily decreases, the light might come on.

INSPECTION DETAILS - C. LEFT FRONT

Light/Buzzer		Function/Condition
	Low Fuel Level Warning Light	Indicates remaining fuel is approximately 2.6 gal. (9.7 L, 2.1 Imp.gal.) or less
	Slip Indicator	Indicates a malfunction in: • Vehicle stability control • Traction control • Hill-start assist control

Warning Message (on the Multi- Information Display)

The multi-information display shows warning of system malfunctions, incorrectly performed operations, or shows messages that indicate a need for maintenance. When a message is shown, perform the correction procedure appropriate to the message.



All models except F-Sport and F



F-Sport models



F models

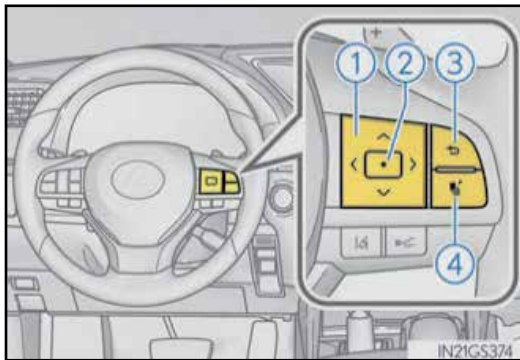
① Master warning light

The master warning light comes on or flashes when a message is being shown on the multi-information display.

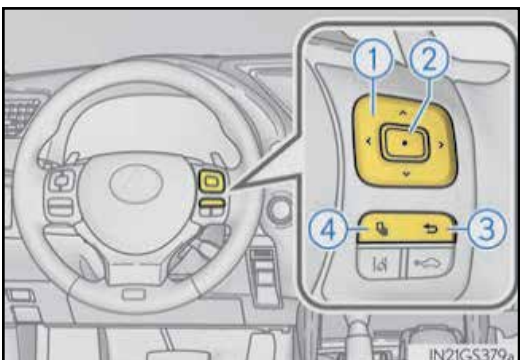
② Multi-information display

INSPECTION DETAILS - C. LEFT FRONT

GS 200t/350/450h



GS F



MULTI-INFORMATION DISPLAY

The multi-information display provides information on vehicle driving conditions and warning messages.

- ① Switch menu, change displayed content, scroll up/down the screen and move the cursor
- ② Press: Enter/Set
Press and hold: Reset
- ③ Return to previous screen
- ④ Display top screen
Press and hold: Register current screen as top screen

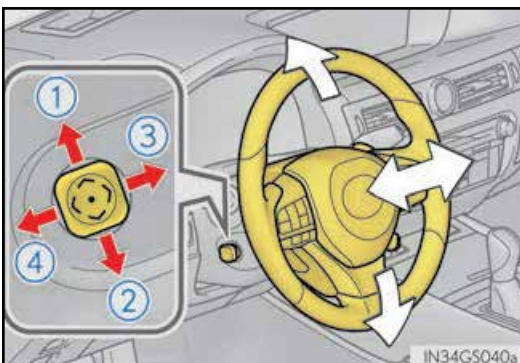
NOTE:

Refer to the multi-information display section in the vehicle's *Owner's Manual* for a comprehensive list of the system's functions and displays.

TILT AND TELESCOPIC STEERING WHEEL

Check steering wheel adjustment operation:

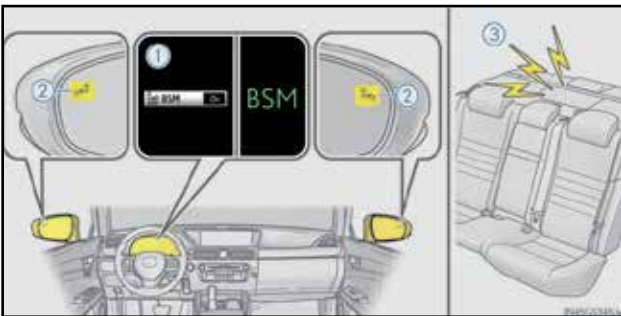
- ① Up
- ② Down
- ③ Toward the driver
- ④ Away from the driver



BLIND SPOT MONITOR*

Check the multi-information display to confirm that BSM and RCTA are ON.

- ① Switching the BSM function (multi-information display)
- ② Outside rearview mirror indicators
- ③ RCTA buzzer (RCTA function only)



* If equipped



With rear air conditioning



AIR CONDITIONING AND HEATER

Warm up the engine and check for smooth operation of each control:

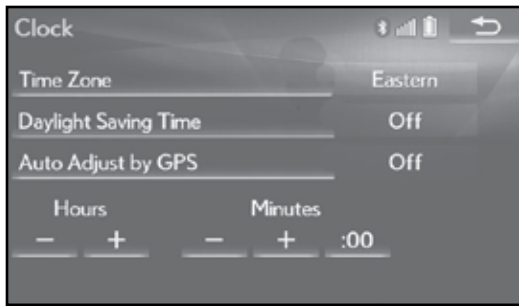
Select the "MENU" button on the Remote Touch.

Select " " to display the air conditioning screen.

- Select high fan speed and set the temperature to 85 °F (29.5 °C) with the "TEMP" controls.
- Select windshield defogger from the control panel and check that hot air flows out of the front defogger vents.
- Select downward air flow and check that hot air flows out of the foot vents.
- Check that the airflow volume changes when the fan speed button is pressed on the control panel.
- Select "AUTO" followed by "DUAL" or "3-ZONE" (indicator on) and set the temperature of the driver's side to 65 °F (18.5 °C).
- Check that the displays of the airflow mode and the air flow volume changes automatically by changing the temperature in auto mode.
- Check that the temperature of the passenger side remained at 85 °F (29.5 °C).
- Select upper body air flow mode (center vents).
- Check that cool air flows out of the driver's side center vent and hot air flows out of the passenger's side center vent.
- Press the "DUAL" or "3-ZONE" button (indicator off) and check that cool air flows out of both center vents. Set the temperature to 72 °F (22.2 °C).
- Check that cool air flows out of the side vents and the rear console box vents.
- Push the " " button to test S-FLOW function. Check that indicator illuminates, and then check that airflow to the rear seats is reduced.
- Press the "OFF" button.
- Press the rear window defogger button on the control panel and check that the indicator light illuminates.
- Press the "AUTO" button.
- Select the windshield wiper de-icer* and check for proper operation.

* If equipped

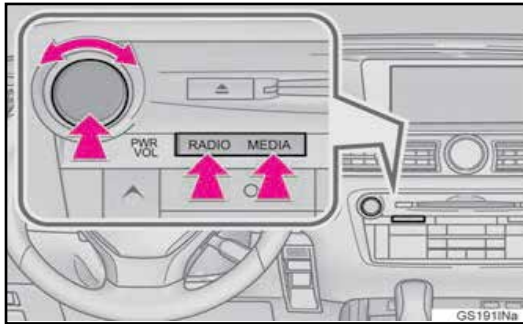
INSPECTION DETAILS - C. LEFT FRONT



CLOCK

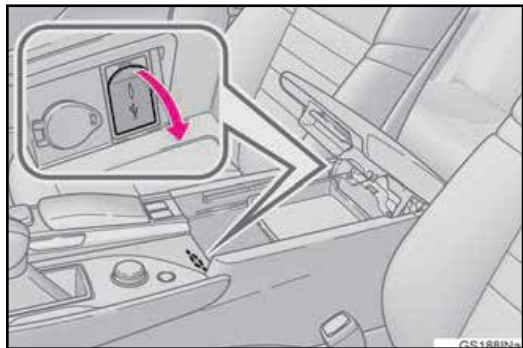
Check/set clock so it displays correct time.

- Press the "MENU" button on the remote touch.
- Select "Setup" and then "General" to display the General Settings screen.
- Select "Clock" and adjust clock settings.



AUDIO SYSTEM

- With the engine switch in the ACCESSORY or ON mode, press the "RADIO" button and check for proper operation of both AM and FM stations.
- Preset all the station memory buttons to local broadcast frequencies.
- CD/DVD player should be inspected for proper operation.
- USB and AUX port should be tested for proper operation.

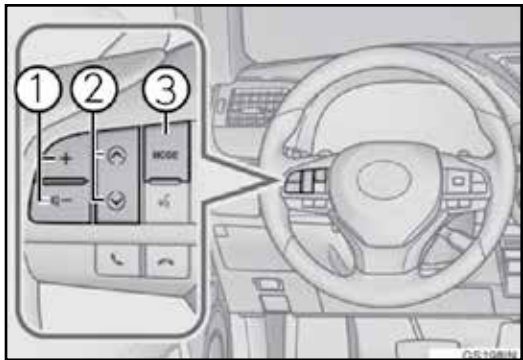


XM ACTIVATION CONFIRMATION

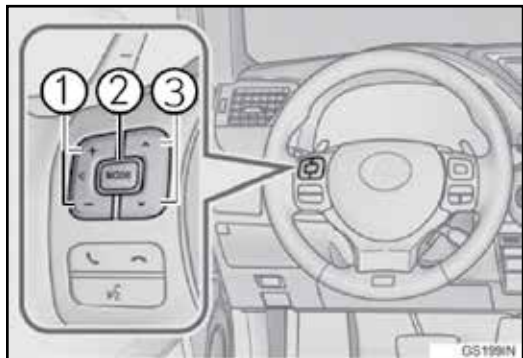
Refer to TSIB.

INSPECTION DETAILS - C. LEFT FRONT

GS 200t/350/450h



GS F



STEERING WHEEL AUDIO SWITCHES

With the engine switch in ON mode, check each of the highlighted switches.

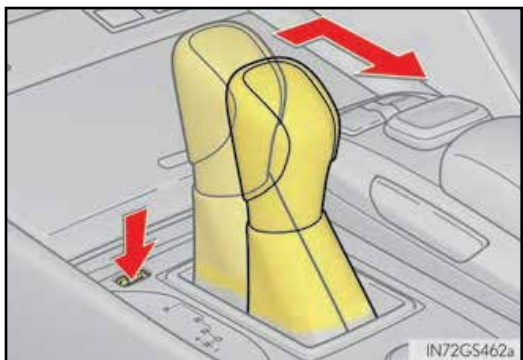
- ① Volume control switch
Check that audio volume changes when the volume button on the steering wheel is pressed.
- ② RADIO mode
Selects a radio station
CD mode
Selects tracks, files (MP3 and WMA) and discs
DVD mode
Selects chapter and fast forwards/rewinds
iPod® player mode
Selects a track
USB memory player mode
Selects a file and folder
Bluetooth® audio mode:
Selects a track and album
- ③ "MODE"
Turns the power on; selects audio source
Check that the select function for each mode works properly.

SHIFT LOCK OVERRIDE BUTTON COVER INSTALLATION

Install the cover into the shift lock override button hole.

NOTE:

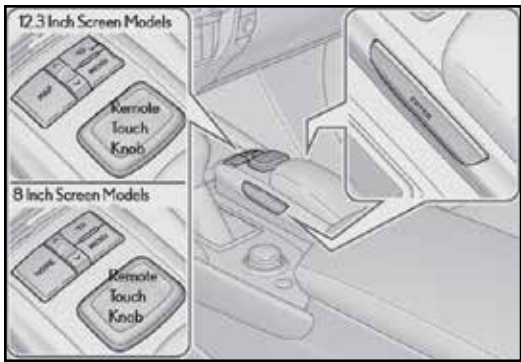
The cover is in a plastic envelope attached to the shift lever.



STEERING WHEEL SWITCHES

Check the following steering wheel switches:

- a) Off hook switch
- b) On hook switch
- c) Talk switch



LEXUS NAVIGATION SYSTEM*

- a) With the engine switch in ACCESSORY or ON mode, check that the initial “LEXUS” screen appears for a few seconds and then changes to the “CAUTION” screen.

NOTE:

“CAUTION” screen appears if map or destination screen was displayed during last use.

- b) Press the “MENU” button on the remote touch to check each icon. Push the “ENTER” button for each and check that the display changes.

NOTE:

After about 5 seconds, the “CAUTION” screen automatically switches to the last display screen.

HD TRAFFIC*

To confirm activation, press the “MENU” button, select “Info” then select “Traffic Incidents.”

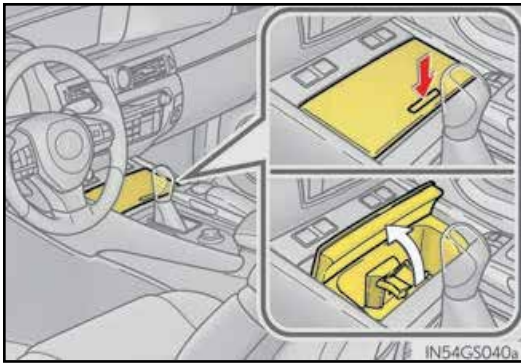
Is traffic information displayed?

NOTE:

If service is currently unavailable, this may mean HD Data is not received by the vehicle after vehicle startup.

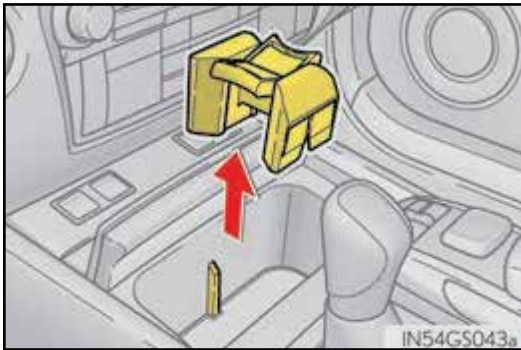
Consult TIS for further diagnosis and repairs.

* If equipped



CUP HOLDERS

Check that the cup holders open and close smoothly and that they do not make noise during operation.



Check that the cup holder insert may be removed and reinserted without problem.

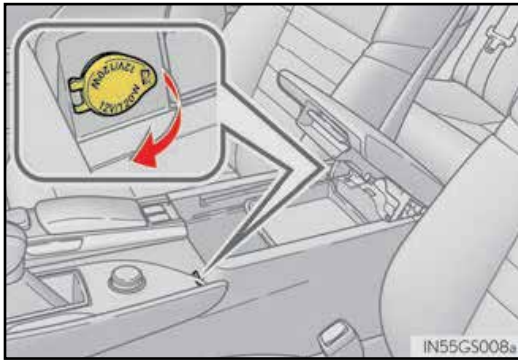


CONSOLE BOX

Check that the console box opens and closes smoothly and that it does not make any noise during operation.

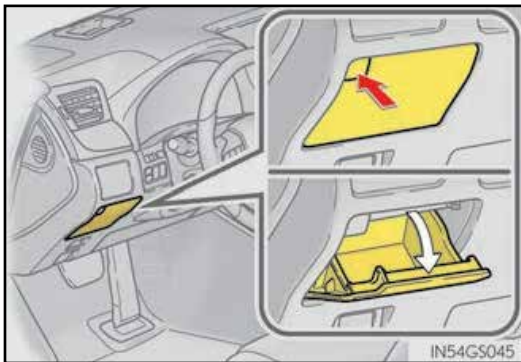


Check that the tray slides forward/backward and can be removed.



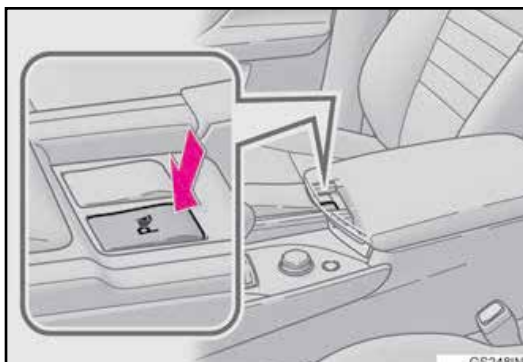
POWER OUTLETS (12V)

With the engine switch in ACCESSORY or ON mode, check the power outlets using an electrical accessory designed for this use.



AUXILIARY BOX

Check that the auxiliary box opens and closes smoothly and that it does not make any noise during operation.



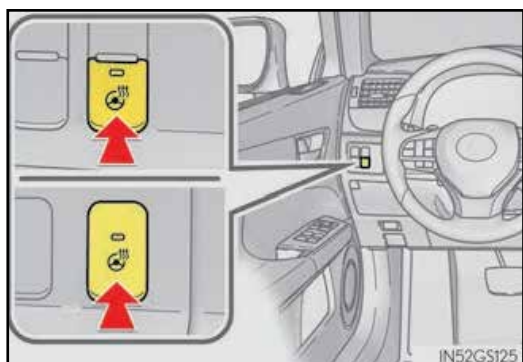
INTUITIVE PARKING ASSIST*

This procedure is performed by placing safety cones at 6 points:

- a) With the engine switch in ON mode, press the intuitive parking assist switch.
- b) Check that the indicator light illuminates.
- c) The safety cones gradually approach the vehicle.
 1. Front center sensor - about 3.3 ft. (100 cm)
 2. Rear center sensor - about 4.9 ft. (150 cm)
 3. Corner sensors - about 2.0 ft. (60 cm)

d) Check that the buzzer sounds and the indicator bar is displayed on the screens.

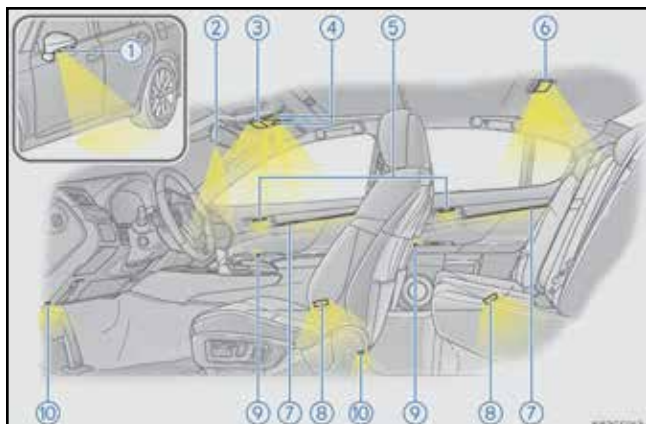
- ① Front corner sensor operation
- ② Front center sensor operation
- ③ Rear corner sensor operation
- ④ Rear center sensor operation



HEATED STEERING WHEEL*

With the engine switch in ON mode, check that the indicator light comes on when the button is pressed.

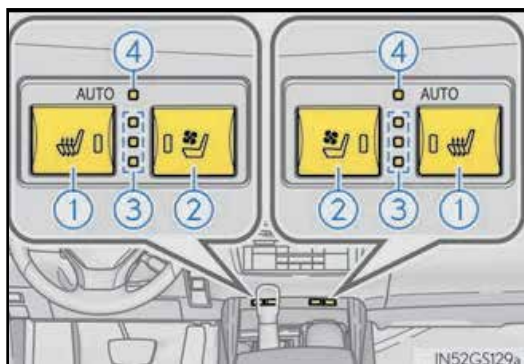
* If equipped



INTERIOR LIGHTS

Check operation of the following interior lights:

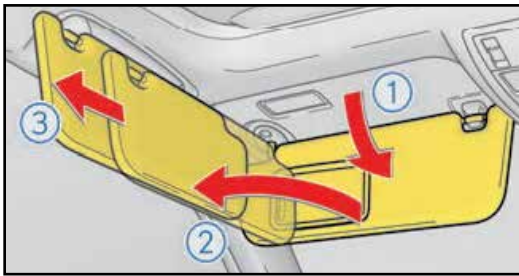
- ① Outer foot lights
- ② Shift lever light
- ③ Front interior light
- ④ Front personal lights
- ⑤ Inside door handle lights
- ⑥ Rear personal lights
- ⑦ Ornament lights
- ⑧ Door courtesy lights
- ⑨ Power window switch lights
- ⑩ Footwell lights



SEAT VENTILATORS* AND HEATERS*

With the engine switch in ON mode, check that the indicator lights come on when each button is pressed.

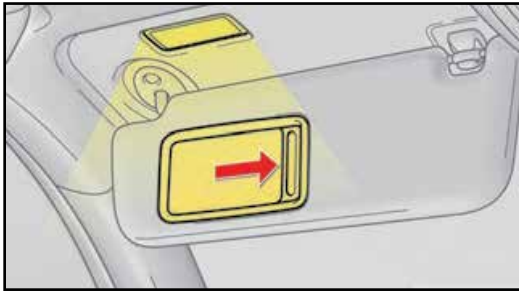
* If equipped



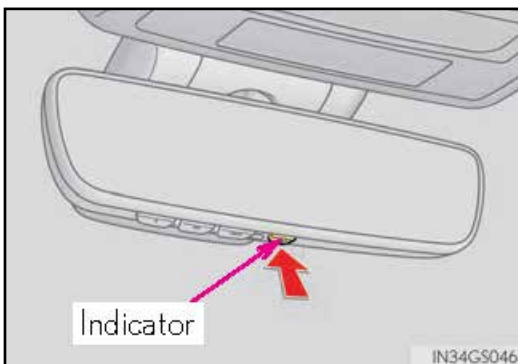
SUN VISOR AND VANITY MIRROR

a) Check that the sun visor is easy to use:

- ① Flip down
- ② Unhook and swing to the side
- ③ Side extender

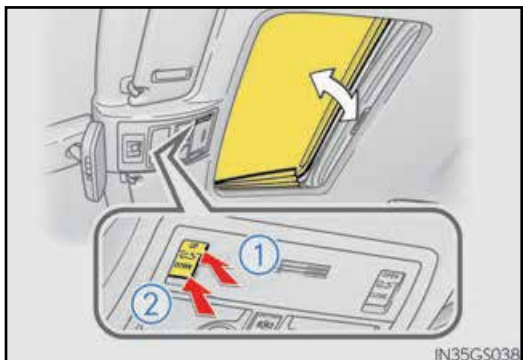
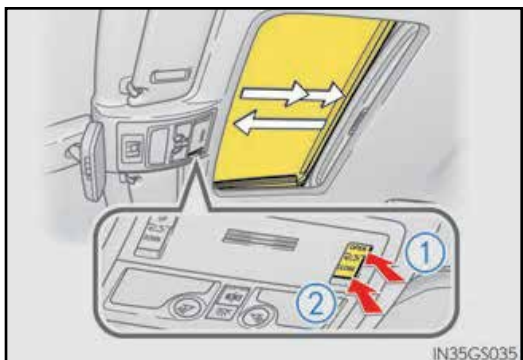


b) Slide the cover of the vanity mirror and check that the light comes on.



ANTI-GLARE INSIDE REARVIEW MIRROR

Check the anti-glare function switch operates properly.
Indicator illuminates when in ON mode.



MOONROOF

With the engine switch in ON mode, check for smooth operation and any unusual noise.

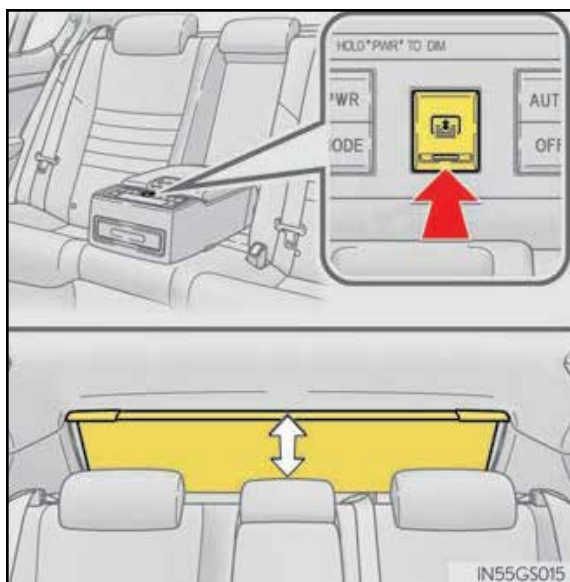
a) Open and close the moonroof

- ① Open: The moonroof stops slightly before the fully open position. Press switch again to fully open.
- ② Close: Lightly press either side of the moonroof switch to stop the moonroof partway

c) Check the tilt function - up and down.

- ① Tilt up
- ② Tilt down

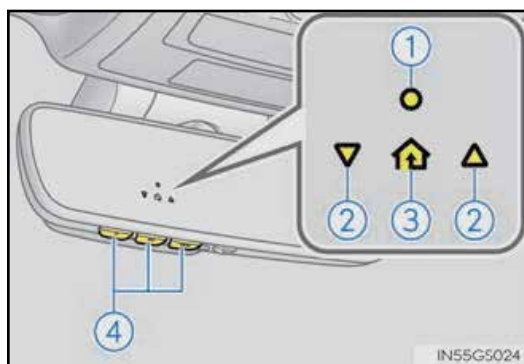
d) The sun shade can be opened or closed manually; however, it will automatically open with the moonroof.



REAR SUNSHADE CONTROL*

With the engine switch in ON mode, check that the rear sunshade raises and lowers smoothly.

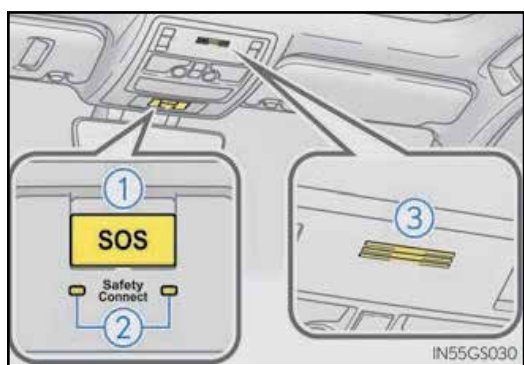
* If equipped



HomeLink® GARAGE DOOR OPENER

Check the HomeLink® garage door opener by pressing each of the three buttons and observing that the indicator light illuminates. Final operational check requires programming.

- ① HomeLink® indicator light
- ② Garage door operation indicators
- ③ HomeLink® icon - Illuminates while HomeLink® is operating
- ④ Buttons



SAFETY CONNECT®*

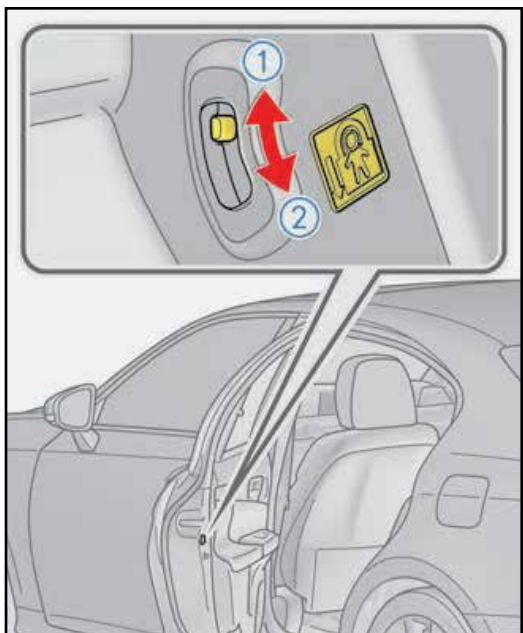
Inspect the Safety Connect LED (located in the overhead console) for a green activation status indicator. If green LED is not illuminated, press the SOS button once, wait for voice prompt, and press the button again within 5 seconds. If successful, tones will be heard followed by voice prompt saying "Activation is complete. Good-bye." Green light will illuminate after call has ended. If the green light does not illuminate, please refer to TIS for troubleshooting procedures.

- ① "SOS" button
- ② LED light indicators
- ③ Microphone

NOTE:

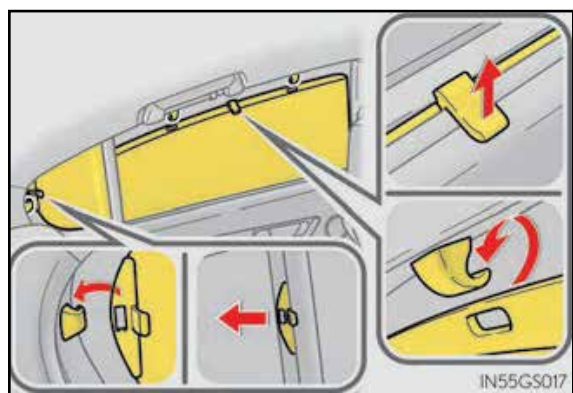
Vehicles may arrive with hanger requesting inspection to Safety Connect system. If system is working properly and green light is illuminated, disregard hanger.

* If equipped



CHILD PROTECTOR LOCK

Check that the rear door cannot be opened by the inside door handle but can be opened by the outside door handle when the child protector is in the locked position.



SIDE WINDOW SUNSHADE*

Pull the tab and hook the shade on the anchors. Check that the side window sunshade can be raised and lowered smoothly.

POWER WINDOW

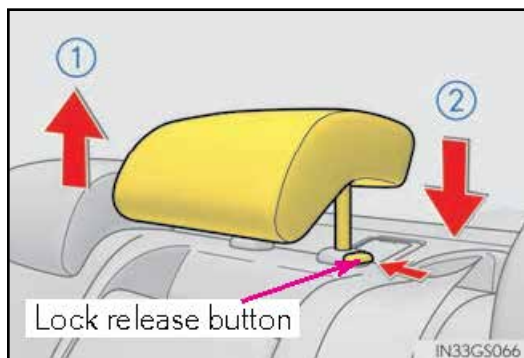
With the engine switch in ON mode, operate the power window switch. Check that the power window opens and closes smoothly.

SEAT BELT

Check seat belt operation.

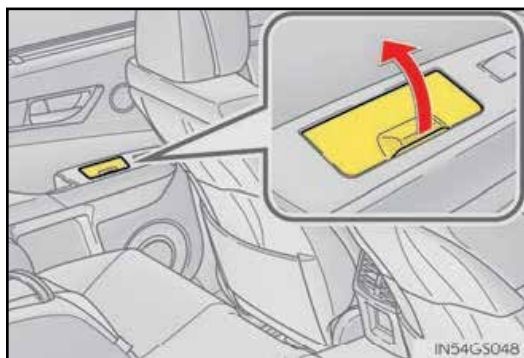
- a) Check that the belt extends and retracts smoothly.
- b) Check that the belt is not twisted.
- c) Check that the buckle locks securely and releases smoothly.
- d) Check that the adjustable seat belt anchor operates properly and that it securely locks in position.

* If equipped



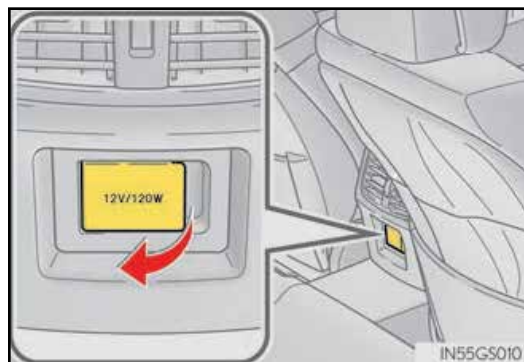
REAR SEAT HEAD RESTRAINTS

Check that the head restraints operate smoothly.



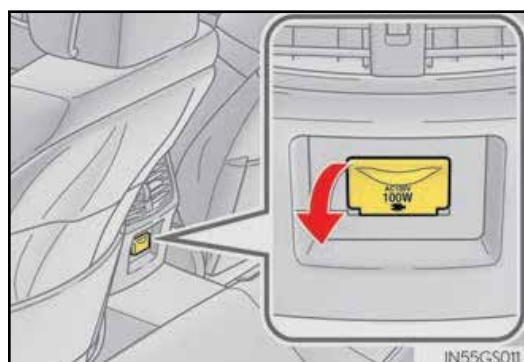
AUXILIARY BOX*

Check that the auxiliary box opens and closes smoothly and that it does not make noise during operation.



POWER OUTLET (12V)*

With the engine switch in the ACCESSORY or ON mode, check the power outlet using an electrical accessory designed for this use.



POWER OUTLET (120V AC)*

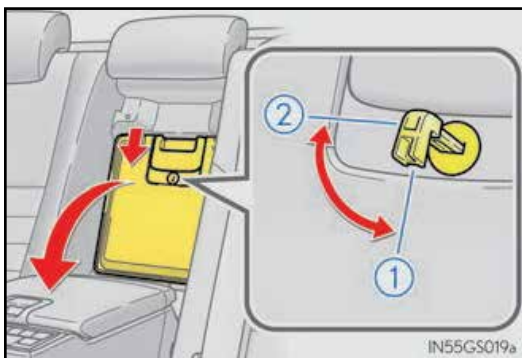
With the engine switch in the ACCESSORY or ON mode, check the power outlet using an electrical accessory designed for this use.

* If equipped



ARMREST

Check that the center armrest operates smoothly.



TRUNK STORAGE EXTENSION

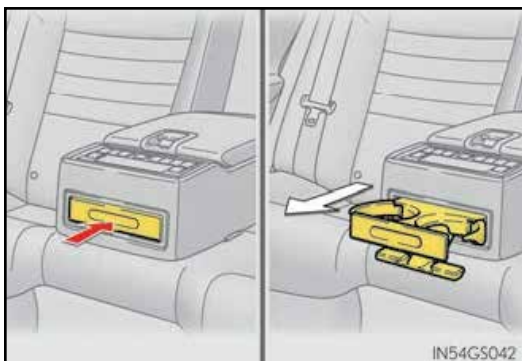
Check that the armrest door can be locked and unlocked using the mechanical key.



REAR CONSOLE BOX

a) Auxiliary box

Pull up the lever to release the lock. Check that the cover opens and closes smoothly.



b) Rear cup holders

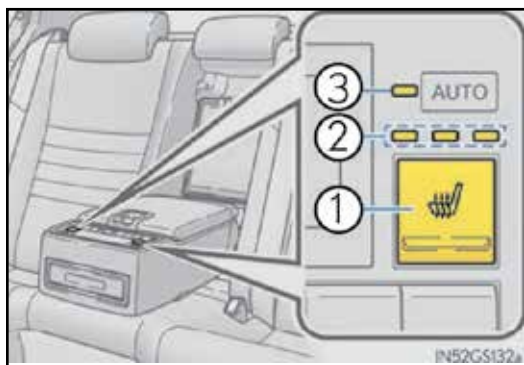
Pull down armrest and push in and release to extend cup holders. Check that the cup holders open and close smoothly and that they do not make noise during operation.

INSPECTION DETAILS - D. LEFT REAR



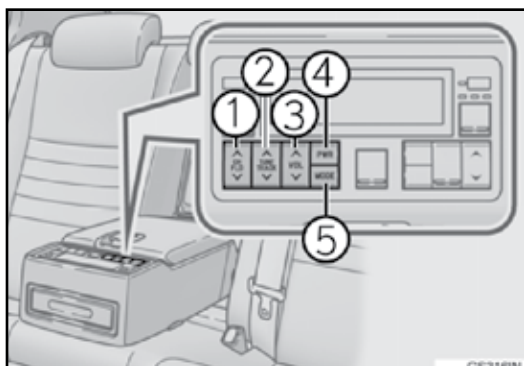
REAR AIR CONDITIONING SYSTEM*

Check that the rear air conditioning controls on rear center console operate smoothly.



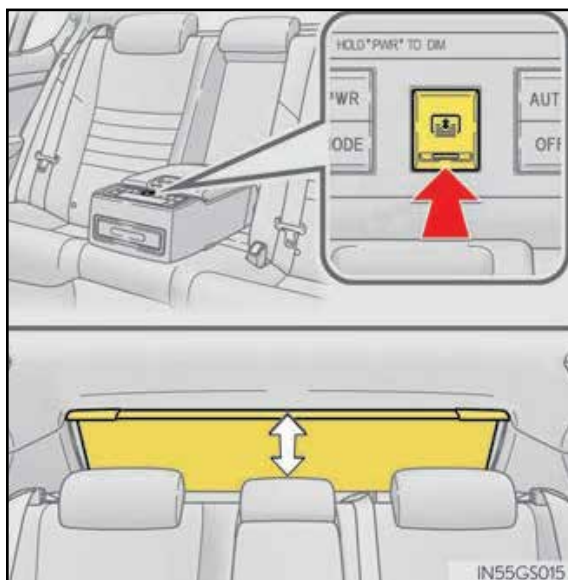
REAR SEAT HEATERS*

With the engine switch in ON mode, check that the indicator light changes each time a button is pressed.



REAR AUDIO CONTROLS*

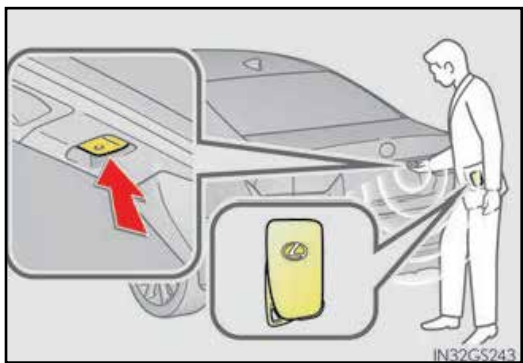
Check that the rear audio controls operate properly.



REAR SUNSHADE CONTROL*

With the engine switch in ON mode, check that the rear sunshade raises and lowers smoothly.

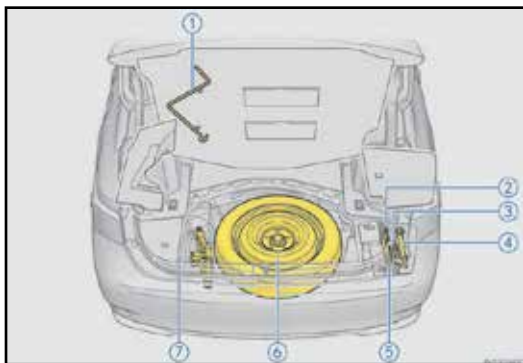
* If equipped



TRUNK

- a) Check that the trunk unlocks using the exterior button.
- b) When out of range, check that the trunk cannot be unlocked by pressing the trunk opener button when all the doors are locked by power door lock switch, wireless remote control, smart access system or key.
- c) Check that the trunk light comes on when the trunk is opened.

GS 200t/350/450h

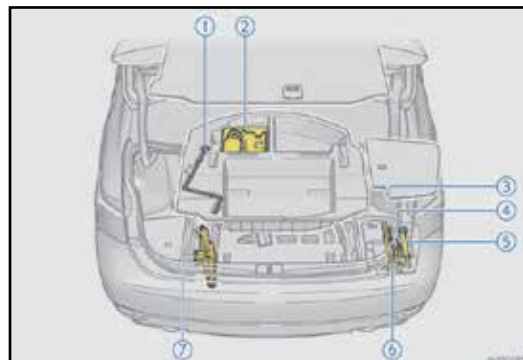


TOOLS, JACK AND JACK HANDLE

Check that the tools, jack and jack handle are properly installed.

- ① Jack handle
- ② Parking brake release tool
- ③ Screwdriver
- ④ Towing eyelet
- ⑤ Wheel nut wrench
- ⑥ Spare tire
- ⑦ Jack

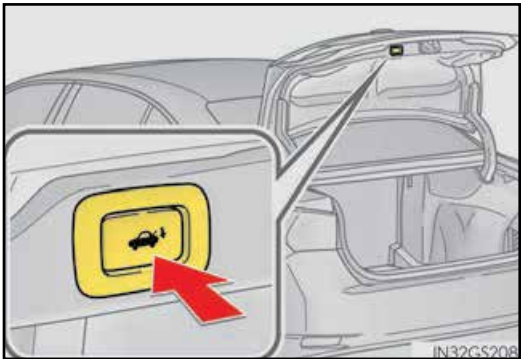
GS F



- ① Jack handle
- ② Emergency tire puncture repair kit
- ③ Parking brake release tool
- ④ Screwdriver
- ⑤ Towing eyelet
- ⑥ Wheel nut wrench
- ⑦ Jack

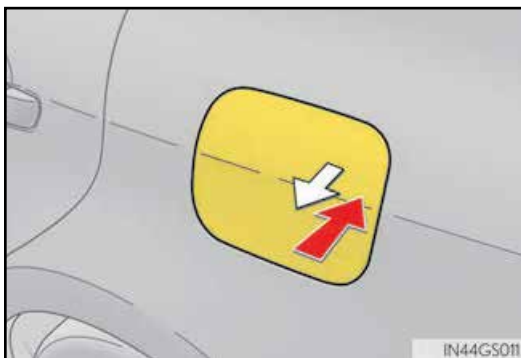
TRIM APPEARANCE AND LUGGAGE CARPET FIT

Inspect the luggage trim and luggage carpet for proper installation and appearance.



TRUNK CLOSER SWITCH*

1. Check that the trunk closes automatically when the power trunk closer switch is pressed.
2. Press the switch while trunk lid is closing and check that the trunk lid opens again.



FUEL FILLER DOOR

Check that the fuel door opens and closes smoothly.

* If equipped

SIDE WINDOW SUNSHADE*

Check that the side window sunshade can be raised and lowered smoothly.

POWER WINDOW

With the engine switch in ON mode, operate the power window switch. Check that the power window up and down operation is smooth.

AUXILIARY BOX*

Check that the auxiliary box opens and closes smoothly and that it does not make noise during operation.

SEAT BELT

Check seat belt operation.

- a) Check that the belt extends and retracts smoothly.
- b) Check that the belt is not twisted.
- c) Check that the buckle locks securely and releases smoothly.
- d) Check that the adjustable seat belt anchor operates properly and that it securely locks in position.

CHILD PROTECTOR LOCK

Check that the rear door cannot be opened by the inside door handle but can still be opened by the outside door handle when the child protector is in the locked position.

POWER WINDOW AND DOOR LOCKS

- a) With the engine switch in ON mode, operate the power window switch. Check that the power window up and down operation is smooth.
- b) Check operation of the power door lock switch.
- c) With the doors closed, check that the power window can be fully operated after the engine switch has been switched to the ACCESSORY or OFF mode.

NOTE:

This feature is canceled after 45 seconds or if either front door is opened.

* If equipped

DRIVING POSITION MEMORY SYSTEM

a) With the engine switch in ON mode and the shift lever in the "P" position, check the operation:

1. Adjust the passenger's seat to the desired position.
2. While pressing the "SET" button, press button "1," "2" or "3" until the buzzer sounds.
3. Check all buttons (1, 2 and 3) to make sure that all memorized settings operate correctly.

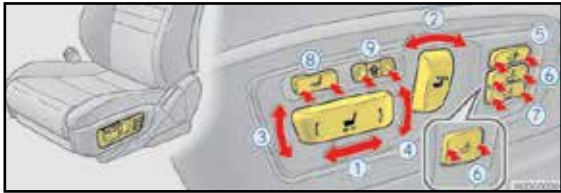
b) Power easy access system*

Check that the adjusted lumbar support, side support*, etc. will return to its original position when the front passenger door is opened.

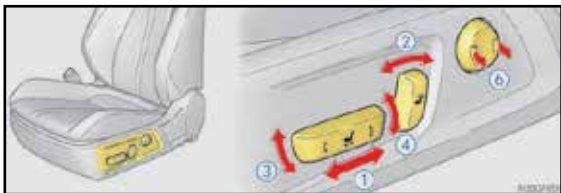
* If equipped

INSPECTION DETAILS - G. RIGHT FRONT

GS 200t/350/450h



GS F



SEAT ADJUSTMENT

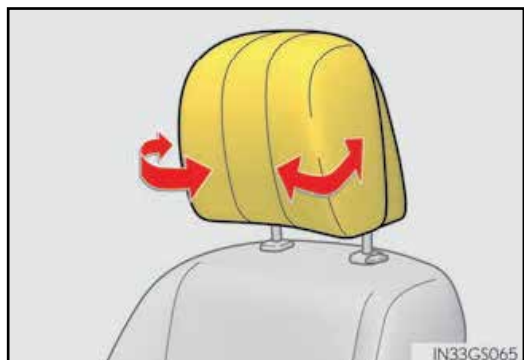
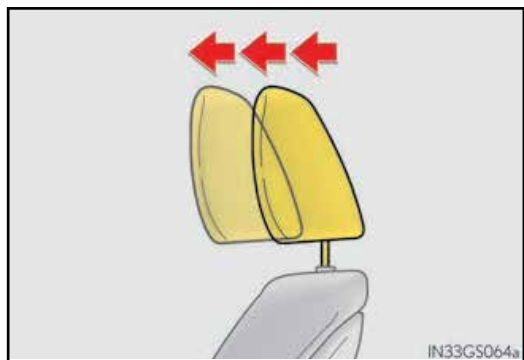
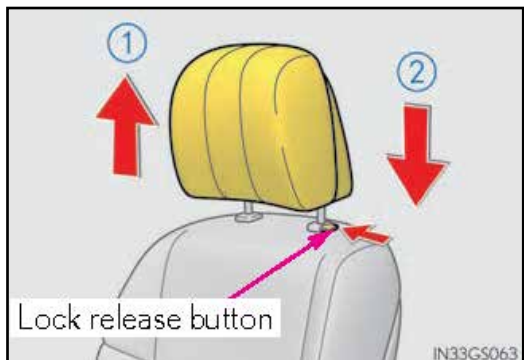
Check seat adjustment operation.

a) Seat adjustment

- ① Seat position adjustment switch
- ② Seatback angle adjustment switch
- ③ Seat cushion (front) angle adjustment switch
- ④ Vertical height adjustment switch
- ⑤ Seatback upper angle adjustment switch*
- ⑥ Lumbar support adjustment switch*
- ⑦ Pelvic support adjustment switch*
- ⑧ Seat cushion length adjustment switch*
- ⑨ Seatback side support adjustment switch*

b) Head restraint adjustment

- ① Up
Pull the head restraints up
- ② Down
Push the head restraint down while pressing the lock release button



c) Angle adjustment*

d) Side support adjustment*

* If equipped

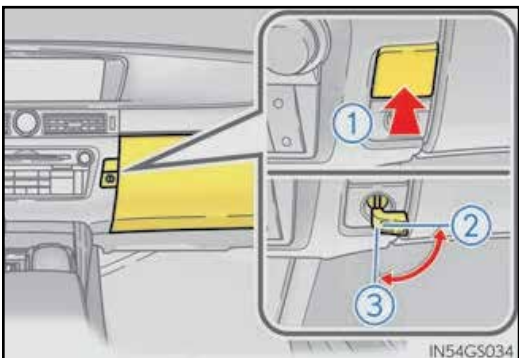
SEAT BELT

Check seat belt operation.

- a) Check that the belt extends and retracts smoothly.
- b) Check that the belt is not twisted.
- c) Check that the buckle locks securely and releases smoothly.
- d) Check that the adjustable seat belt anchor operates properly and that it securely locks in position.

SUN VISOR AND VANITY MIRROR

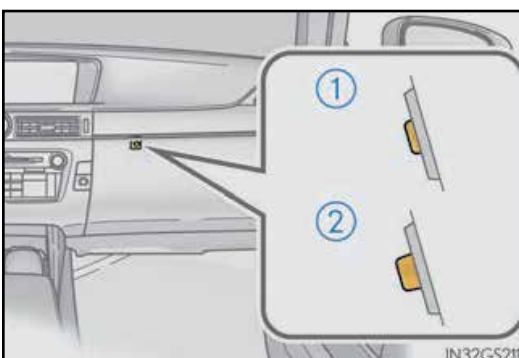
- a) Check that the sun visor is easy to use:
 - 1. Flip down, unhook and swing to the side.
 - 2. Check side extender operation.
- b) Slide the cover of the vanity mirror and check that the light comes on.



GLOVE BOX

Check that the glove box opens and closes smoothly and that it does not make any noise during operation.

- ① Open (push button)
- ② Unlock with mechanical key
- ③ Lock with mechanical key



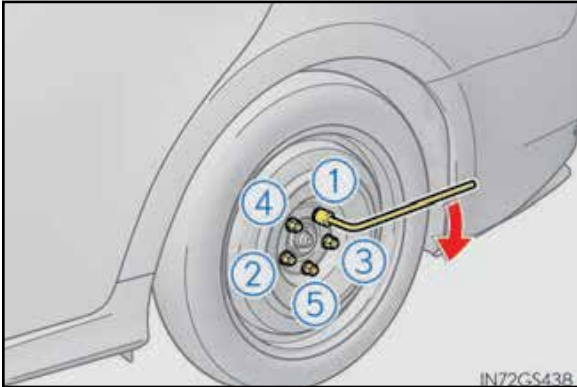
LUGGAGE SECURITY SYSTEM

Check that the luggage security system operates properly.

FRONT LICENSE PLATE & MOUNTING BRACKET INSTALLATION

Refer to TSIB.

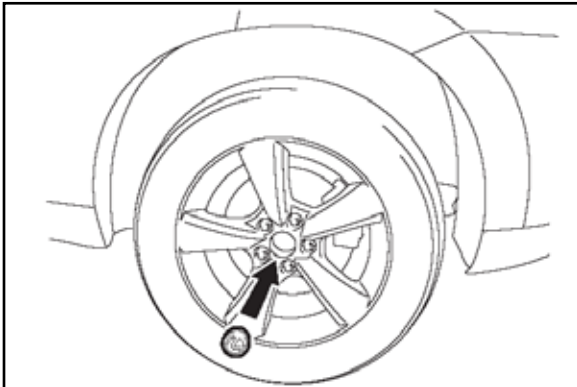
BEFORE LIFTING VEHICLE



WHEEL LUG NUT TORQUE (Should be checked if wheels have been taken off)

Using a torque wrench, tighten all wheel lug nuts to the specified torque in the order of the numbers in the illustration to the left.

Torque specifications:
76 ft-lbf (103 N•m, 10.5 kgf•m)



INSTALL WHEEL CENTER CAPS

Install the wheel center caps on the wheels.

TIRES

Visually inspect all tires for damage and/or defects.

AFTER LIFTING VEHICLE

REMOVE WHEEL FILM

Visually inspect rotors for rust.

NOTE:

For the best rotor rust prevention, retain wheel film on vehicle until just prior to customer delivery. If leakage is found, see *Repair Manual*.

CHASSIS INSPECTION FOR LEAKAGE OR DAMAGE

- a) Visually and by hand check the following components for proper installation, clamping, connection and damage:
 - Brake lines, hoses and protectors
 - Fuel lines, hoses and protectors
 - Steering linkage and dust boots
 - Drive shaft boots
 - Parking brake cable
- b) Visually check the entire underside of the body for proper rust-resistant coating.

CHECK AND TIGHTEN ALL CHASSIS BOLTS OF COMPONENTS THAT ARE REPLACED DUE TO REPAIRS

Check that all chassis bolts and nuts and suspension components are tight. See the *Repair Manual* for proper bolt torque specification.

- a) Front and rear suspensions
- b) Steering linkages
- c) Front/Rear cross members
- d) Front/Rear brakes
- e) Drive shaft(s)*
- f) Axle shafts

FLUID LEAKS

Visually check the following components for fluid leakage:

- a) Engine (cylinder head and around the head cover)
- b) Front brake system and lines
- c) Radiator and hoses
- d) Fuel lines and hoses
- e) Front differential*, transaxle*
- f) Front shocks
- g) Rear brake system and lines
- h) Rear shocks
- i) Rear differential*

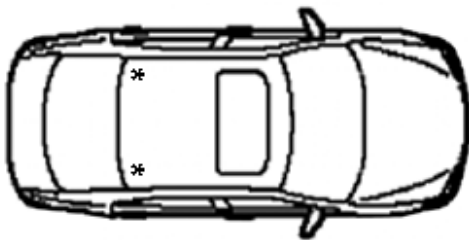
* If equipped



EXHAUST SYSTEM

Visually check for leaks and damage to the exhaust pipes and mufflers. Ensure they are properly installed.

Softly hit cold pipes with fist.



RUBBER BODY PLUGS

Install the rubber body plugs into the torque box holes.

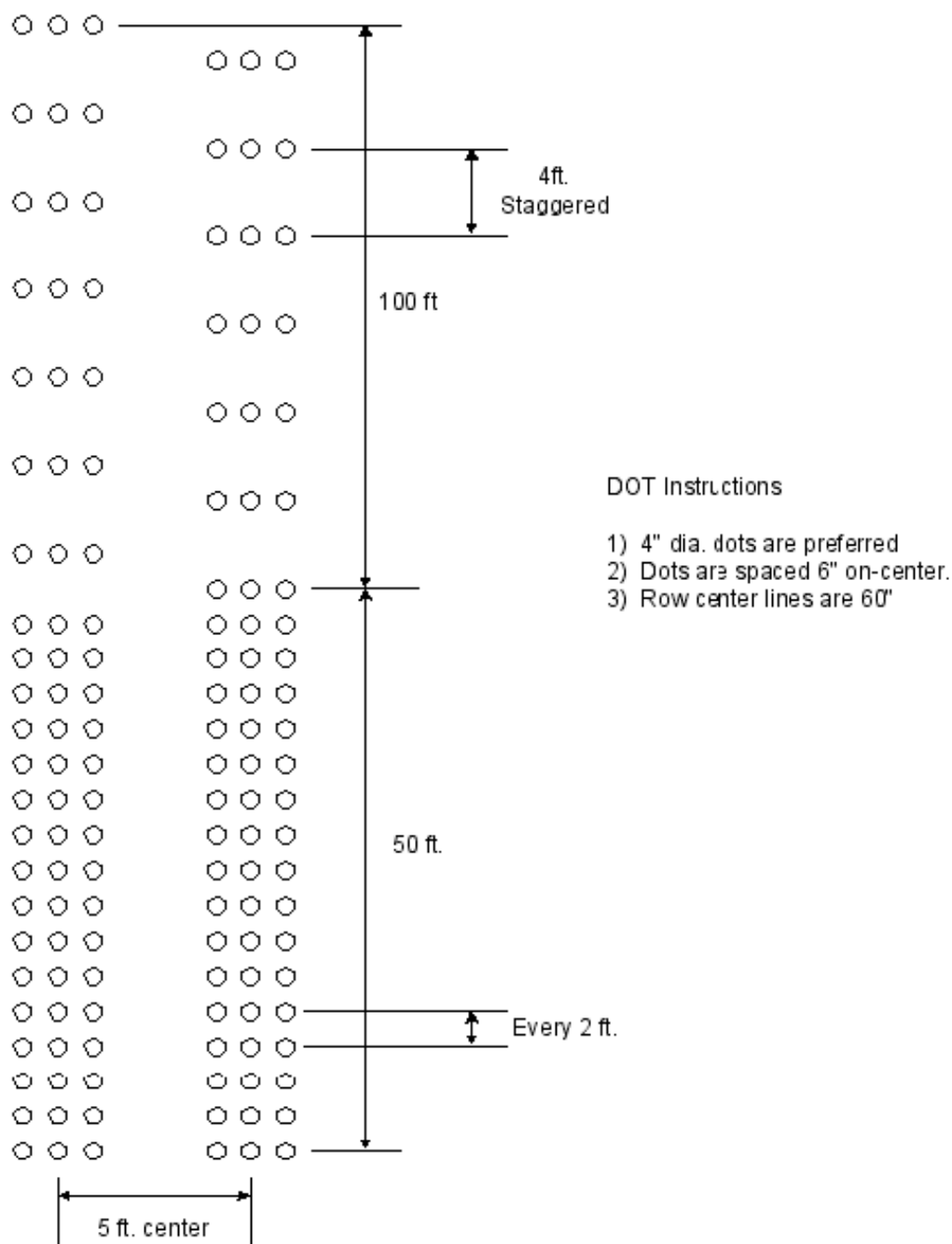
NOTE:

Plugs are shipped with the vehicle and put in the glove compartment.

INSPECTION DETAILS - J. ROAD TEST

BOTT DOT ROAD TEST LAYOUT

As part of the PDS road test, the vehicle must be driven over a rough road surface or over Bott Dots in order to check for squeaks and rattles. If a rough surface is not available for this road test, Bott Dots should be installed on the dealership property where vehicles can be safely driven 5 to 10 mph. (See Bott Dots installation instructions below, as recommended and provided by TMC Quality Division.) Bott Dots are available at industrial supply outlets.



INSPECTION DETAILS - J. ROAD TEST

A comprehensive road test is vital in order to ensure that a perfect automobile is delivered to a Lexus customer. We recommend that you map out a specific road test course that includes a variety of road conditions including stop and go, highway speed and rough road surfaces. This will help you check for squeaks, rattles, drifts, pulls and a variety of other conditions that must be corrected prior to delivery.

NOTE:

Make sure protective covers are in place on the seats and carpet prior to starting the road test.

FILL UP FUEL TANK

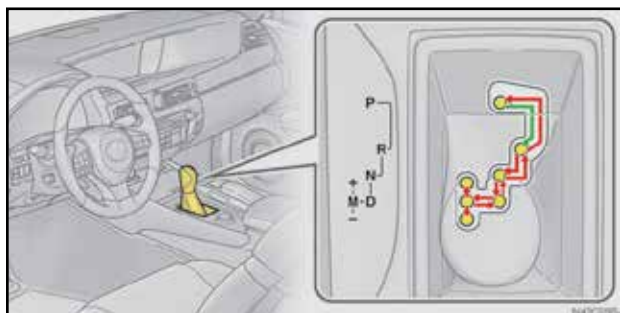
Fill the fuel tank to the "FULL" level with premium unleaded fuel that has an Octane Rating **91** (Research No. 96) or higher.

READY LIGHT*

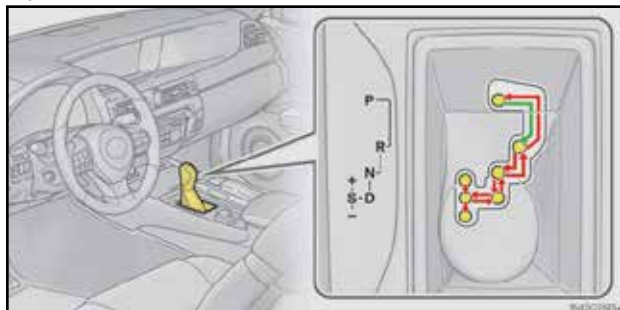
ENGINE IDLE SPEED

Check that the engine idle speed is smooth at normal operating temperature with the shift lever in "N" or "P" position.

Gasoline models



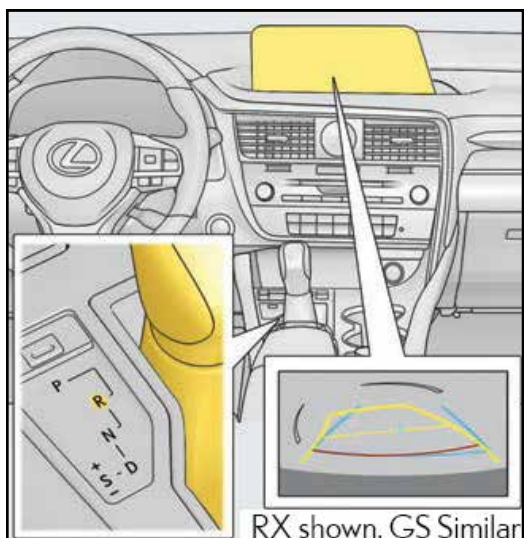
Hybrid models



ENGINE TRANSMISSION OPERATION

- Check that the engine will not start if the shift lever is in any other range except for "P" or "N" position.
- Check that the shift lever cannot be moved from the "P" position without depressing the brake pedal.
- Check for smooth up-shift and down-shift operation over a broad range of driving conditions.
- Check for smooth up-shift and down-shift operation when the shift lever is in the "M" or "S" range.
 - Check that the transmission shifts up when the shift lever is moved forward.
 - Check that the transmission shifts down when the shift lever is moved backward.

* If equipped



PARKING ASSIST MONITOR*

To initialize, see Repair Manual.

With the engine switch in ON mode, and the shift lever in the "R" position, check that the rearview monitor system is displayed.

ENGINE OPERATION WHILE DRIVING

- a) Check engine performance over a broad range of driving conditions including acceleration, cruising and deceleration.
- b) Make sure engine operation is smooth and responsive.
- c) Make sure that all the gauges operate properly.

ENGINE OPERATION COLD AND HOT

ELECTRIC COOLING FANS

- a) Check that the engine cooling fans rotate smoothly.

CAUTION:

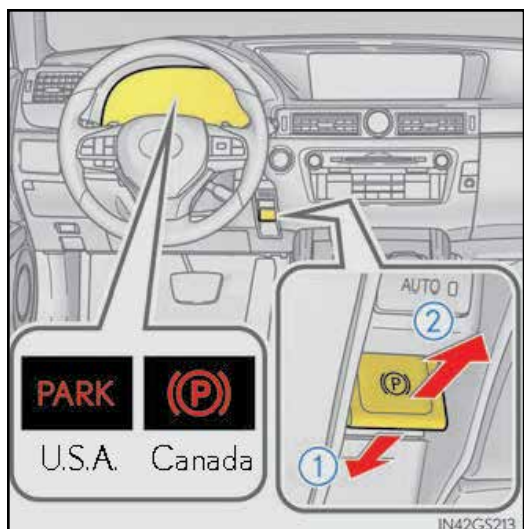
The engine cooling fans are controlled depending on engine coolant temperature. Do not touch the fans when the engine is hot.

- b) Turn the air conditioning on and build up sufficient pressure. Check that the electric cooling fans turn on and rotate smoothly.

CAUTION:

The electric cooling fans are controlled depending on air conditioning refrigerant pressure. Do not touch the fans when the "A/C" switch is turned on.

* If equipped



PARKING BRAKE

Check effort required to set the parking brake. Check for pull or any abnormal noise.

a) Manual mode:

- ① Set the parking brake
Press and hold switch and check that the parking brake indicator comes on.
- ② Release the parking brake
Operate the parking brake while depressing the brake pedal and check that the parking brake indicator goes off.



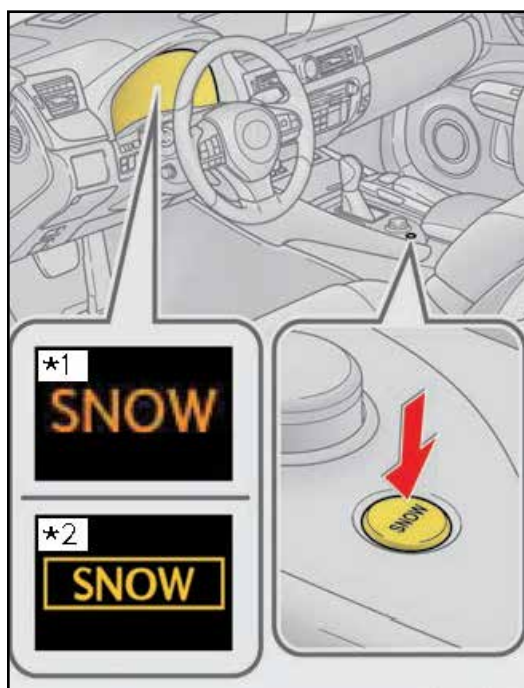
b) Automatic mode:

With the vehicle stopped and the engine switch in ON mode, check that the brake warning light goes off when the shift lever is moved from the "P" position (and goes back on when it is moved into "P").

NOTE:

When vehicle is in ON mode, the parking brake indicator light comes on until parking brake is released.

When not in ON mode, or if the engine switch is turned off, the indicator stays on for approximately 15 seconds.



SNOW MODE

Check that the indicator light illuminates on the multi-information display when the switch is pressed.



BRAKE HOLD*

- Check that the green standby indicator light comes on when the brake hold system is activated.
- Check that the yellow brake hold indicator light comes on while the system is holding the brake.



LKA (LANE-KEEPING ASSIST)*

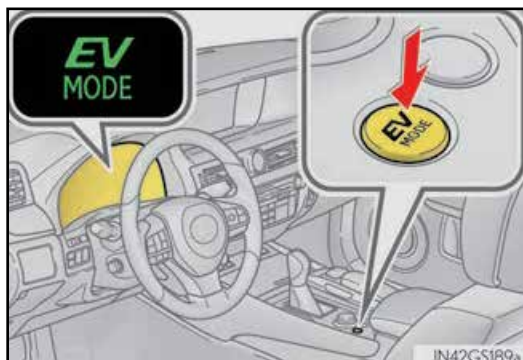
Check that the indicator light illuminates and a message is displayed on the multi-information display when the switch is pressed and released.

The color of the LKA indicator signifies the following:

White - LKA system is operating

Green - Steering wheel assistance of the lane departure control function or lane-keeping assist function is operating

Orange (flashing) - Lane departure alert function is operating



EV DRIVE MODE*

Check that EV drive mode operates properly and that the indicator illuminates on the multi-information display when the button is pressed.

* If equipped

CHECK BLIND SPOT MONITOR WITH REAR CROSS TRAFFIC ALERT FUNCTION*

STEERING OPERATION AND OFF-CENTER

- a) Check steering for smooth turning operation and any unusual noise.
- b) Check that the steering wheel is correctly aligned when driving on a level road surface.

NOTE:

For details about adjustment and inspection, refer to the *Repair Manual*.

AIR CONDITIONING AND HEATER FUNCTIONS

SQUEAKS AND RATTLES

Check for squeaks and rattles in the following:

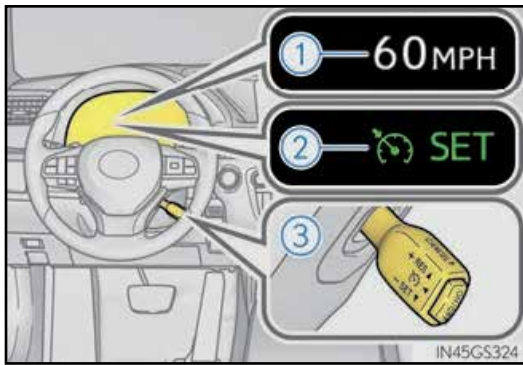
- a) Instrument panel
- b) Doors
- c) Trim
- d) Body
- e) Other

TRANSAXLE OPERATION

IF BRAKE PEDAL DOES NOT OPERATE CORRECTLY, USE REPAIR MANUAL TO CHECK, ADJUST, AND TROUBLESHOOT

See *Repair Manual* if needed.

* If equipped



CRUISE CONTROL*

a) Check the cruise control functions:

- ON-OFF
- SET
- CANCEL
- RESUME

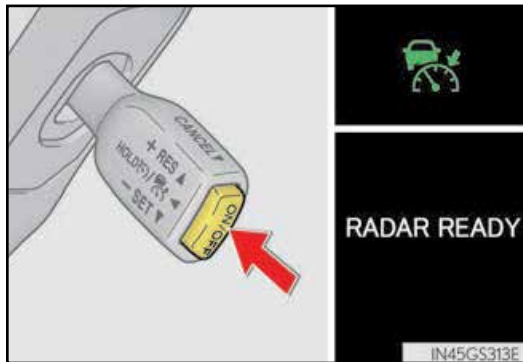
b) Check that the preset speed is canceled by:

- Depressing the brake pedal
- Using cancel switch and “ON-OFF” button

For details regarding the operation of the cruise control, refer to the *Owner's Manual*.

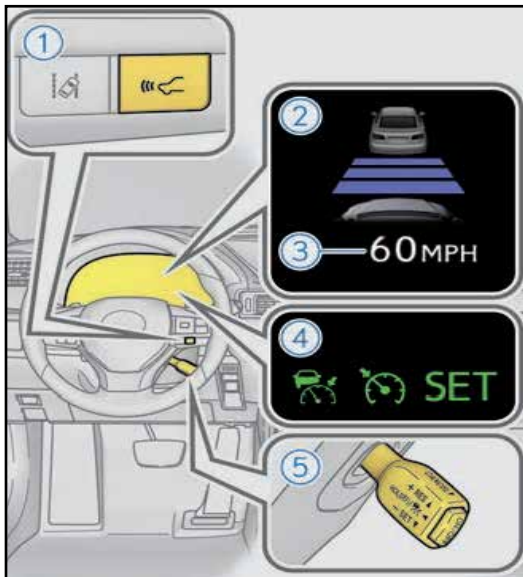
Dynamic Radar Cruise Control System*

c) Press the “ON-OFF” button and check that the indicator in the instrument cluster comes on and “RADAR READY” appears on the multi-information display. (Vehicle-to-vehicle distance control mode)



d) Press the “ON-OFF” button for 1.5 seconds or more to check that dynamic radar cruise control changes to conventional (fixed speed) cruise control. (Indicator in the instrument cluster will change.)

- ① Vehicle-to-vehicle distance button
- ② Display
- ③ Set speed
- ④ Indicators
- ⑤ Cruise control switch



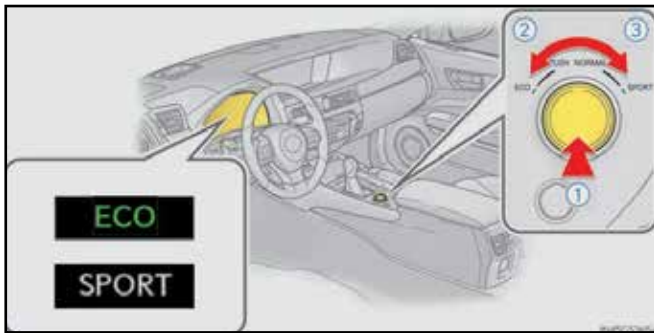
e) Check that the vehicle-to-vehicle distance setting is changed from “Long” to “Medium” to “Short” and then back to “Long” by pushing the distance switch on the steering wheel.

- ① Long
- ② Medium
- ③ Short

NOTE:

Always keep the millimeter wave radar sensor glass clean.

* If equipped

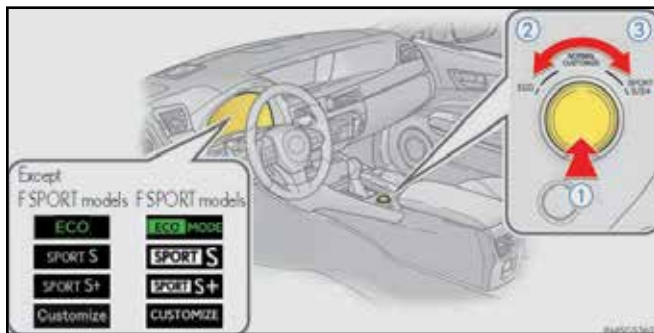


DRIVING MODE SELECT

Check that the driving modes operate properly.

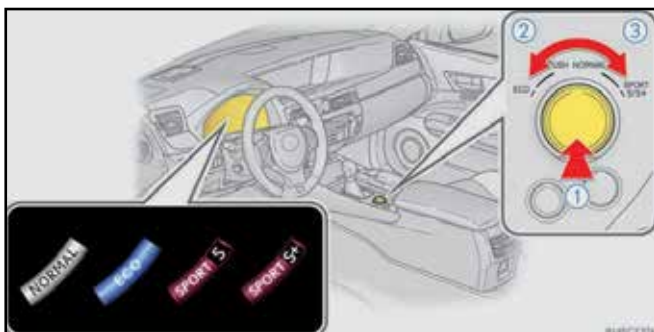
Vehicles without AVS (GS 200t/350)

- ① Normal mode
Press switch to change the driving mode to normal mode if eco or sport mode is already selected.
- ② Eco driving mode
When not in eco drive mode, turn switch to the left and check that the "ECO" light illuminates.
- ③ Sport mode
When not in sport mode, turn switch to the right and check that the indicator light illuminates.



Vehicles with AVS (GS 200t/350/450h)

- ① Normal mode/Customized mode
Press switch to toggle between Normal and Customized mode. Check that the "CUSTOMIZE" indicator illuminates on the display when customized mode is selected.
- ② Eco drive mode
When not in eco drive mode, turn switch to the left and check that the "ECO" light illuminates.
- ③ Sport mode
Turn switch to the right to toggle between Sport S and SPORT S+ mode. Check that the corresponding indicator light illuminates on the display.



GS F

- ① Normal mode
Press switch to change the driving mode to normal mode if eco or sport mode is already selected.
- ② Eco drive mode
When not in eco drive mode, turn switch to the left and check that the "ECO" light illuminates.
- ③ Sport mode
Turn switch to the right to toggle between Sport S and SPORT S+ mode. Check that the corresponding indicator light illuminates on the display.

GS 200t/350/450h



TRAC AND/OR VSC SYSTEM

a) Disabling the TRAC system

Check that the indicator light illuminates or a message is shown on the multi-information display when the switch is quickly pressed and released. Push again to turn the system back on.

b) Turning off the TRAC and VSC systems

Check that the VSC OFF indicator light illuminates and a message is shown on the multi-information display when the switch is pressed and held for more than 3 seconds.

GS F



GS F - Expert mode



c) Expert mode (GS F only)

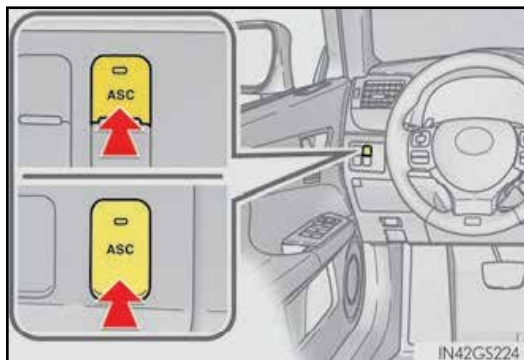
Press the VSC off switch when in SPORT S+ mode to select expert mode; check that the "EXPERT" indicator light illuminates along with the TRAC OFF and VSC OFF indicators.

To cancel expert mode, press the VSC OFF switch again or change driving mode to a mode other than SPORT S+.

ABNORMAL NOISE OR VIBRATION

Check for vibration or abnormal noise while the vehicle is in motion.

- a) Wind noise
- b) Power train (engine, transaxle, rear differential*)
- c) Road noise (tires)
- d) Other



ASC (ACTIVE SOUND CONTROL)

The ASC system can be operated when in sport mode.

SPORT S mode: Sounds are output from the rear

SPORT S+ mode: Sounds are output from the front and rear

Disable: Press the ASC switch and check that the indicator on switch turns off.

BRAKE LIGHTS AND BACKUP LIGHTS

CHECK HORN

TURN OFF RADIO, AIR CONDITIONING, SEAT HEATERS, LIGHTS

OWNER'S MANUALS AND PORTFOLIO

- a) Place the Quick Guide booklet(s) in the glove box.
- b) Check that the *Owner's Manual Portfolio* contains the *Owner's Manual(s)* and place in the cargo area.
- c) Check that the airbag information label is affixed to the glove box door and is visible with the glove box closed.

REMOVE INTERIOR PROTECTIVE COVERS, ETC.

Remove the remaining plastic covers from the driver knee airbag, front passenger knee airbag, side trim, seats, head restraints, console box cap, and sun visors as required. Remove any unnecessary labels, tags and stickers. It is recommended that the interior protective covers be removed just before delivery of the vehicle to the customer.

* If equipped

COMPLETION

COMPLETION

BATTERY MAINTENANCE FOR IN-STOCK VEHICLES & PRE-DELIVERY

Refer to TSIB.

MAINTENANCE FOR HV/AUXILIARY BATTERY BEFORE DELIVERY

Refer to TSIB.

LONG TERM VEHICLE STORAGE GUIDELINES

Refer to TSIB.

FLOOR MAT INSTALLATION DURING PDS

Refer to TSIB.

INDEX

Technical Service Information

Bulletins Available on TIS

SEE LIST ON FRONT COVER

Manual

Active sound control	63
Adaptive front lighting	10
Air conditioning	28,42
Anti-glare inside rearview mirror	36
Armrest	41
Audio system	29,42
Automatic high beam	12
Auxiliary box	33,40,45
Battery	3
Blind spot monitor	27
Bott Dot road test layout	54
Brake	57
Brake hold	58
Brake fluid level	4
Chassis	51,52
Check Sheet (PDS)	65
Child protector lock	39,45
Clock	29
Console box	32,41
Coolant level	5
Cruise control	60
Cup holders	32,41
Door lock	17,45
Door lock system	8
Driving mode	61
Driving position memory	16,46
Dynamic radar cruise control	60
Electric cooling fans	56
Emergency flasher	12
Enform	14
Engine coolant level	5
Engine hood release	2
Engine oil level	2
EV drive mode	58
Exhaust system	53

Exterior lights	10	Power supply changeover	9
Floor mats	13	Power window	17,39,45
Fuel door	44	Pre-collision system	13
Glove box	48	Rubber body plugs	53
Glove box portfolio	63	Safety Connect	38
HD traffic	31	Seat adjustment	15,47
Headlight aim	10	Seat belt	14,39,45,48
Headlight cleaners	21	Seat heaters/ventilators	35
Headlights	11	Seat heaters, rear	42
Head restraints	15,40,47	Shift lock override	30
Head-up display	19	Smart Access system	7
Heater	28	Steering wheel audio switches	30
Heated steering wheel	34	SNOW mode	57
High beam indicator light	11	Steering wheel switches	30
HomeLink® garage door opener	38	Sunshade, rear	37,42
Hybrid system coolant level	5	Sunshade, side window	39,45
Illuminated entry	8	Sun visor	36,48
Immobilizer system	7	Theft deterrent system	7
Indicator lights	22	Tilt & telescopic steering wheel	27
Inside rearview mirror	36	Tools, jack and jack handle	43
Intercooler coolant reservoir	5	TRAC/VSC	62
Intuitive parking assist	34	Transmission	55
Instrument panel light control	19	Trunk	43
Interior lights	35	Trunk closer switch	44
Lane departure alert	58	Trunk opener switch	21
Lane-keeping assist	58	Trunk storage extension	41
Luggage security system	48	Turn signal	11
Mirror defoggers	18	Vanity mirror	36,48
Moonroof	37	VSC	62
Multi-information display	27	Warning lights	22
Navigation system	31	Washer fluid level	4
Odometer and trip meter	19	Wheel center caps	50
Outside rearview mirrors	18	Wheel lug nut torque	50
Owner's Manual	63	Windshield wiper de-icer	28
Parking assist	34	Wireless remote control	6
Parking assist monitor	56	Wipers & washer	20
Parking brake	57	Wiring & hoses	3
Portfolio	63	XM activation confirmation	29
Power easy access system	16,46		
Power outlet	33,40		