

GS 450h Pre-Delivery Service Manual

Lexus Technician:

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

- Attend the “Technical Introduction to Lexus Course L005” at the Lexus Area Office
- Read and understand this PDS Manual
- Read and understand the PDS Precautions on p. 2, 51
- Read and understand all applicable PDS Technical Service Information Bulletins (TSIBs) for this vehicle

When performing a PDS on this vehicle:

- Check that indicator light by standard Safety Connect™p. button is green
- Use the PDS Manual when performing this service
- Check the Technical Information System (TIS) for PDS Technical Service Information Bulletins (TSIBs) that apply to the model you are servicing
- Verify 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 driven over rough road/Bott dots to test for rattles/squeaks.
- When completed, sign Vehicle Delivery Certificate, Located in the glovebox

The following TSIBs are available on TIS:

DCC Fuse Installation During PDS
Floor Mat Installation During PDS
Front License Plate Mounting Bracket & License Plate Installation
Hybrid System Electrical Safety Precautions (Revised)
Initialization of Driver's Seat Position & Head Restraint Height
Initialization of Power Windows During PDS
Initialization of VGRS System During PDS
Initial Calibration of Compass During PDS
Initial Calibration of Intuitive Parking Assist System During PDS
Maintenance for HV Battery & Auxiliary Battery
Removal of Front Wheel Opening Extension Pad Protective Covers
Tire Positioning Before New Vehicle Delivery
Tire Pressure Warning Valve/Sensor Activation

To obtain PDS material:

Manual, above TSIBs included

- Download from TIS website or Lexus Customer Services website on Dealer daily
- Order from MDC, 00242-PDSGS-HMN10

Check Sheet

- Sheet is two-sided, back side has procedure tips
- Order from MDC, 00242-PDSGS-HCK10, each packet contains 25 Check Sheets
- Download from TIS website or Lexus Customer Services website on Dealer Daily

Vehicle Delivery Certificate

- Order from MDC, 00242-TIQ10

Other PDS TSIBs

- Download from TIS website

Binders

Contact your District Service and Parts Manager if you have any questions. 09152009-CJE

GS 450h PDS MANUAL



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Technical Service Information Bulletins

TSBs available on TIS

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 Floor Mat Installation During PDS
 Front License Plate Installation
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 Initial Calibration of Compass
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 Remove Front Wheel Ext. Pad Covers
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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 squeeks 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 commonly available at industrial supply outlets.

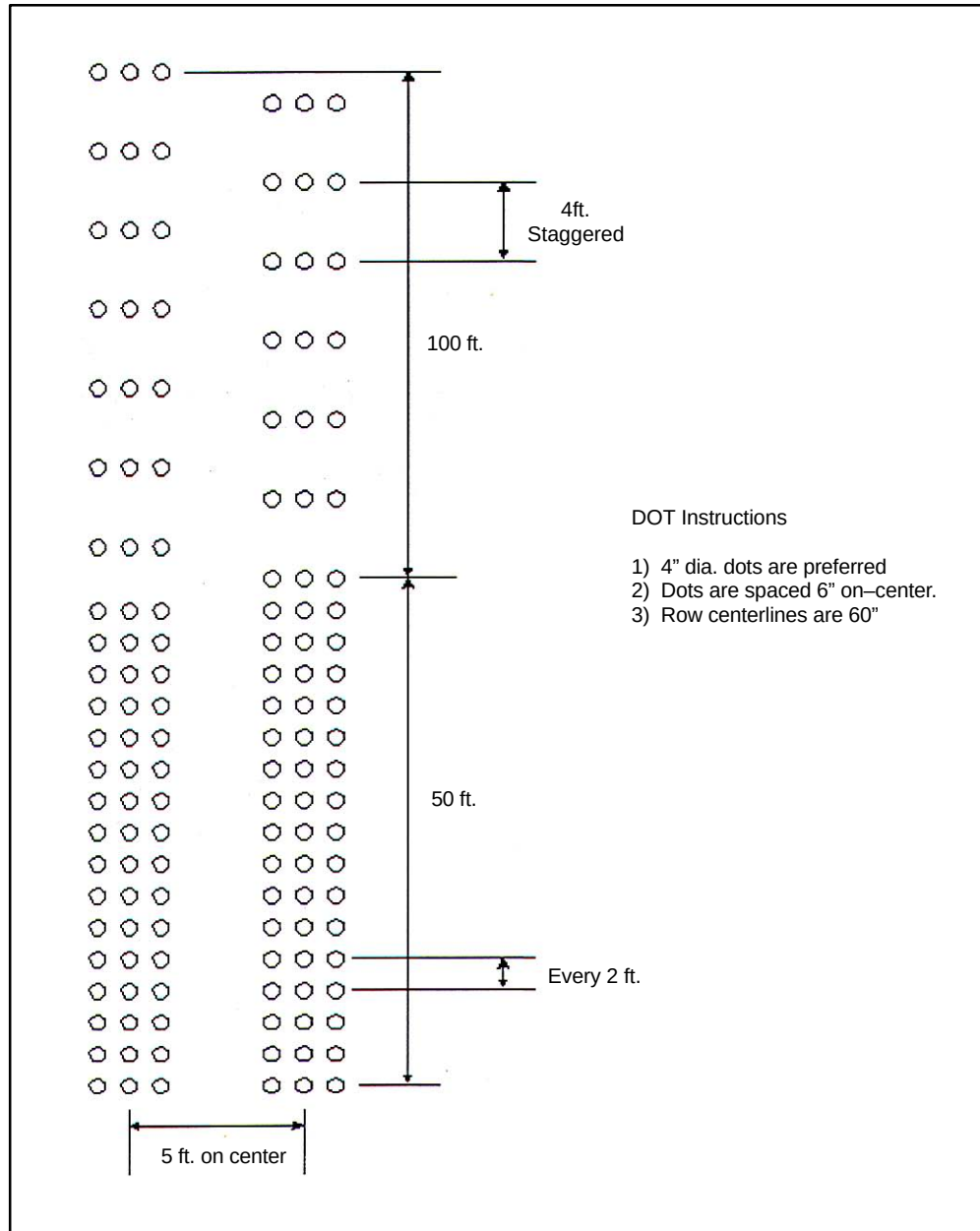


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PRECAUTIONS

The GS450h has unique operating modes, so always follow the precautions below when performing the PDS operation:

- The GS450h contains high voltage (288–650 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 gasoline engine may start up and shut down suddenly whenever the “READY” light is illuminated. **Be sure to put the selector lever in “P”, apply the parking brake, and select the “POWER” switch in the “OFF” mode in order to stop the hybrid system (the “READY” light goes OFF), before working in the engine compartment.**
- The hybrid transmission, 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 selector lever 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 in the “OFF” mode in order to stop the hybrid system (the “READY” light goes OFF).
- Air vents are located on the package tray trim to cool the hybrid vehicle battery. Do not block these air vents.
- If the hybrid battery cooling system operates when the air conditioning is off, a message will be shown on the multi-information display and the air conditioning will automatically turn on.
- Do not splash water on the electric components in the engine compartment.

I. BEFORE STARTING PRE-DELIVERY SERVICE



1. WASHING VEHICLE

After thoroughly washing vehicle, check it to make sure all adhesive wrapping films have been removed.

HINT:

Hand washing of the vehicle is recommended.

2. 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):

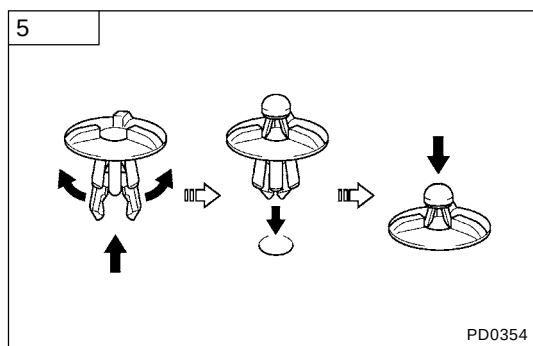
- a) Door glass weather strips
- b) Front cowl sides
- c) Around the front windshield
- d) Around the sliding roof area
- e) Around the rear window

3. REMOVAL OF THE ENGINE ROOM COVER

Refer to the provided ***Technical Service Information Bulletin***.

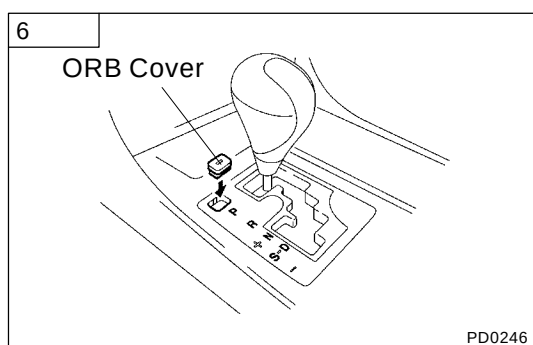
4. D/C CUT FUSE INSTALLATION

Refer to the provided *Technical Service Information Bulletin*.



5. ENGINE ROOM COVER INSTALLATION

Refer to the provided *Technical Service Information Bulletin*.



6. SHIFT LOCK OVERRIDE BUTTON COVER INSTALLATION

Install the cover into the shift lock override button hole.

HINT:

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

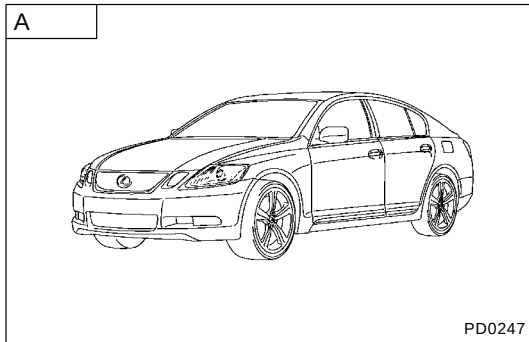
II. INSPECTION OVERVIEW



HINT:

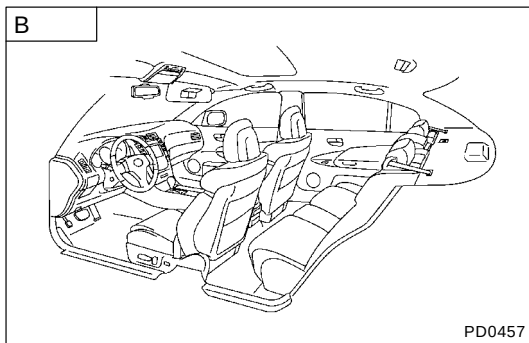
Pages throughout represent an overview of the pre-delivery service only.
For details of each inspection procedure, please refer to Section III - INSPECTION DETAIL starting on page 12.

A. VEHICLE EXTERIOR



- A01. Inspect paint finish for blemishes, imperfections, scratches, etc.
- A02. Inspect exterior body parts for installation damage, rust, alignment, etc.
- A03. Check luggage compartment door operation.
- A04. Check door lock system and illuminated entry system operation.
- A05. Check smart access system operation.
- A06. Check wireless door lock remote control system.
- A07. Check theft deterrent system.
- A08. Check illumination of exterior lights.
Detail starts on page 13.

B. VEHICLE INTERIOR



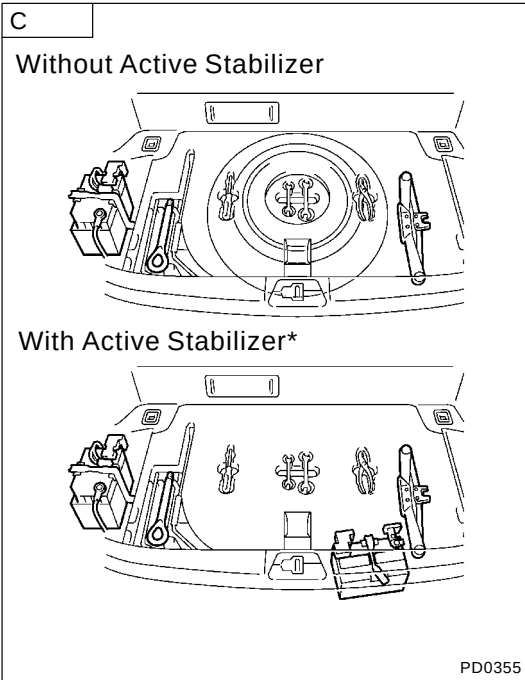
- B01. Inspect interior parts for dirt, damage and proper fit and alignment.
- B02. Check power supply changeover and hybrid system start/stop.
- B03. Check HV immobilizer system.
- B04. Check seat belts and operation.
- B05. Check child protector lock operation.
- B06. Check driver's head restraint.
- B07. Check seat adjustments.
- B08. Check tilt and telescopic steering wheel.
- B09. Check outside rearview mirrors operation.
- B10. Check front seat position memory system.
- B11. Check power window.
- B12. Check door locks.
- B13. Check luggage compartment and fuel filler door openers.
- B14. Check turn signal, headlight, high beam and emergency flasher indicator lights, and horn operation.
- B15. Check wipers and washers.
- B16. Check headlight cleaner.
- B17. Check warning and indicator lights.
- B18. Check Multi-Information Display.

B. VEHICLE INTERIOR (Continued)

- B19. Check Lexus Navigation System operation.
 - B20. Check seat heater* and ventilator/heater*.
 - B21. Check air conditioning and heater.
 - B22. Check audio system.
 - B23. Check intuitive parking assist operation.
 - B24. Check rear view monitor system.
 - B25. Check clock and outside temperature display.
 - B26. Check cigarette lighters, ashtrays (front and rear) and power outlet operation.
 - B27. Check rear console box, glove box and auxiliary boxes.
 - B28. Check cup holder operation (front and rear).
 - B29. Check interior, personal, foot, map, vanity, door courtesy, door inside handle, glove box, ashtray, console box and rear seat spot light.
 - B30. Check sliding roof* operation (slide and tilt).
 - B31. Check inside rear view mirror operation.
 - B32. Check Home Link[®] garage door opener.
 - B33. Check overhead console box.
 - B34. Check power rear sunshade.
 - B35. Check front door pockets.
 - B36. Check center armrest.
 - B37. Check on-board diagnostic system operation.
- Detail starts on page 20.

*: Optional equipment

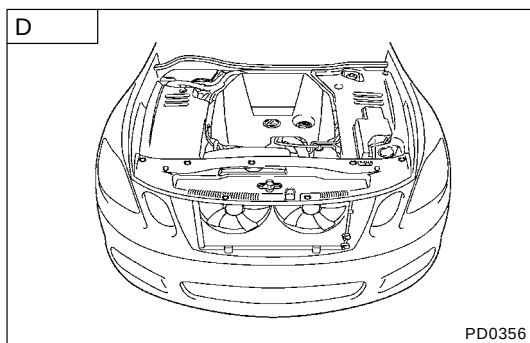
C. LUGGAGE COMPARTMENT



- C01. Check spare tire pressure.
- C02. Check spare tire and cover, tools, jack and jack handle.
- C03. Check manual fuel filler door lever operation.
- C04. Check auxiliary battery (and auxiliary battery for active stabilizer*) terminal tightness and charge level.
- C05. Inspect trim appearance and deck board fit.

Detail starts on page 51.

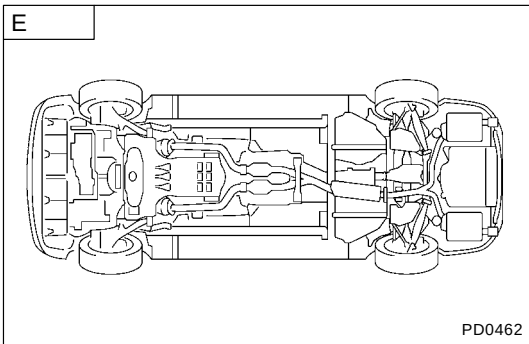
D. UNDER HOOD



- D01. Check engine hood release lever.
 - D02. Check engine oil level (hybrid system not running).
 - D03. Check brake fluid level.
 - D04. Check hybrid system inverter and engine coolant level.
 - D05. Check washer fluid level.
 - D06. Inspect wiring and hose condition.
 - D07. Check hybrid system operation.
 - D08. Check electric cooling fans.
 - D09. Inspect for fluid leaks.
 - D10. Activate tire pressure warning valve and transmitter.
 - D11. Inspect tires for defects or damage.
 - D12. Install wheel center caps.
 - D13. Check headlight aim if not correct.
 - D14. Install front license plate bracket and license plate.
- Detail starts on page 53.

*: Optional equipment

E. UNDER VEHICLE (On Hoist)



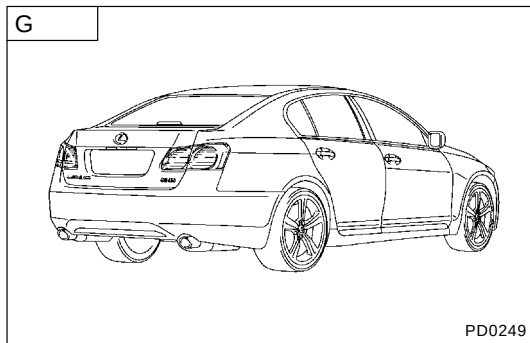
- E01. Check wheel lug nut torque, if wheels have been taken off.
- E02. Check brake rotors.
- E03. Inspect chassis for leakage or damage.
- E04. Check and tighten all chassis bolts of components that are replaced due to repairs.
- E05. Inspect exhaust system.
- E06. Install rubber body plugs.
- E07. Remove the front wheel opening extension pad covers.

Detail starts on page 64.

F. ROAD TEST

- F01. Check hybrid system operation while driving.
 - F02. Check brake and parking brake functions.
 - F03. Check brake pedal height, free play and reserve distance if pedal does not operate correctly.
 - F04. Check hybrid transmission operation.
 - F05. Initialize VGRS system.
 - F06. Check hybrid mode select and TRAC (Traction Control System)
 - F07. Check adaptive variable suspension system.
 - F08. Check cruise control operation.
 - F09. Check steering operation and off-center.
 - F10. Inspect for any abnormal noise or vibration.
 - F11. Inspect for squeaks and rattles.
 - F12. Initial calibrate compass.
- Detail starts on page 66.

G. FINAL INSPECTION



- G01. Set mode select switch for customer comfort.
 - G02. Remove interior protective covers, etc.
 - G03. Complete and sign the PDS check sheet.
 - G04. Sign the Teamwork in Quality Vehicle Delivery Certificate.
- Detail starts on page 75.

H. TWO HOURS BEFORE DELIVERY

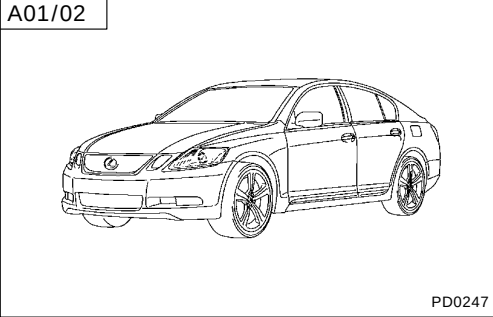
- H01. Place the Quick Guide booklets in the glove box. Check that the Owners Manual Portfolio contains the Owners Manuals and place in trunk.
 - H02. Fill up the fuel tank.
 - H03. Wash and clean the vehicle.
- Detail starts on page 77.

III. INSPECTION DETAIL



A. VEHICLE EXTERIOR

A01/02



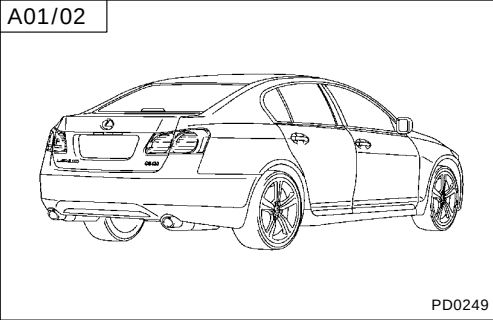
A01. PAINT FINISH

- a) Wash the vehicle. (Hand washing is recommended.)
- b) Visually and by hand inspect all body panels (doors, luggage compartment door, fenders, roof panel) for surface damage from shipment or any abnormalities (surface rust, paint flaking, chips, dents or scratches).

HINT:

Use a well-illuminated area to clearly inspect all painted surfaces. 800-lux illumination is recommended.

A01/02

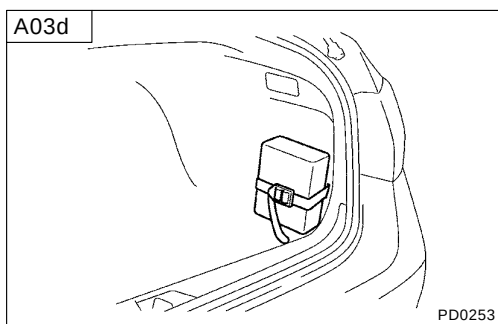
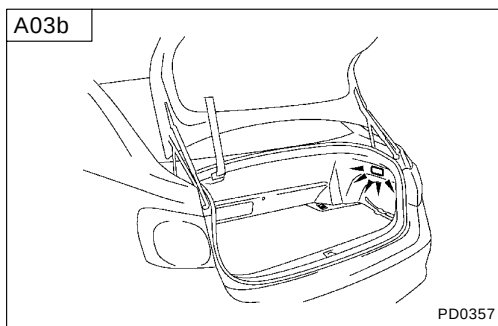
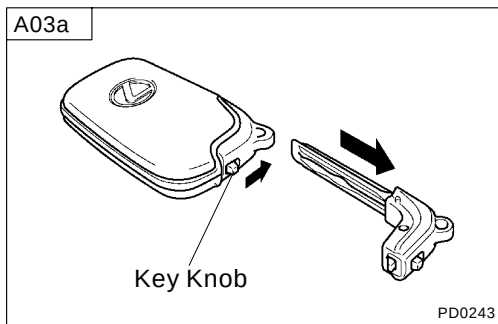
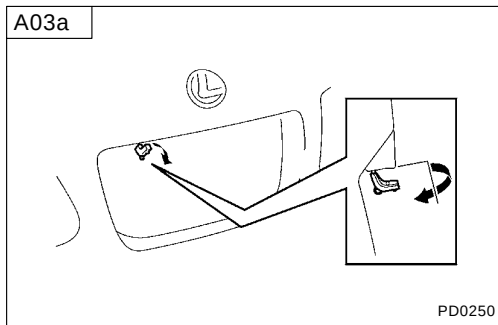


A02. EXTERIOR COMPONENT ALIGNMENT

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 rear view mirrors
- e) Headlights, turn signal lights, side marker lights, fog lights and tail light lenses
- f) Doors, engine hood, luggage compartment door and fuel door
- g) Sliding roof
- h) Front/Rear door panel protector
- i) Door outside handle
- j) Radiator grille
- k) Vehicle name mark

A03. LUGGAGE COMPARTMENT DOOR



- a) Check opening, closing, locking and unlocking of the luggage compartment door using the mechanical key. Each operation should be smooth.

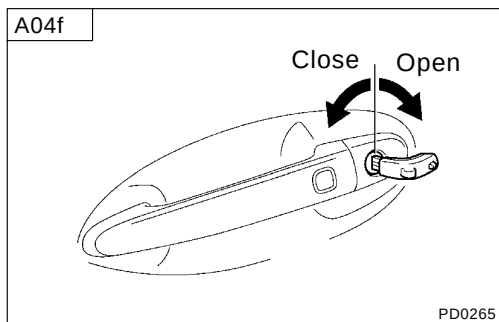
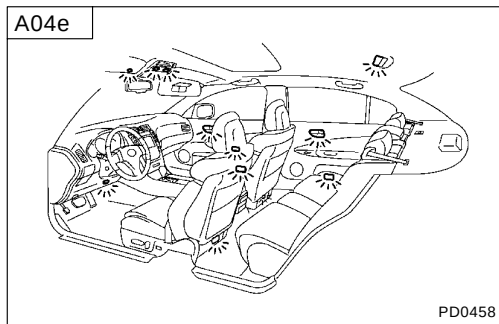
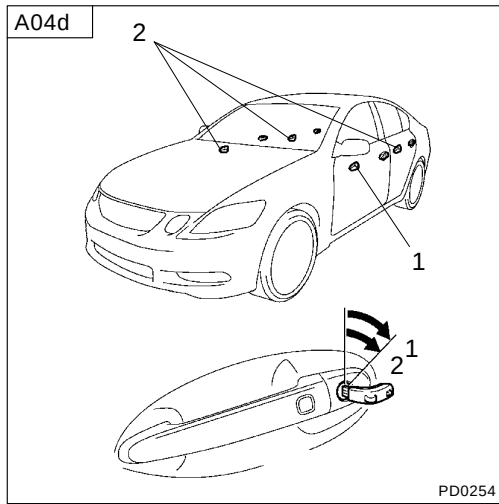
HINT:

How to remove and store the mechanical key.

- To remove the key, slide and hold the key knob in the direction of the arrow to release the lock and remove the mechanical key.
- To store the key, keep sliding the key knob in the direction of the arrow to release the lock, and insert the mechanical key until it locks securely.

- b) When the luggage compartment door is open, check that the luggage compartment light illuminates.
- c) When the luggage compartment door is not fully closed or is half closed, check that the system functions to automatically close completely. For detailed information, please refer to the luggage compartment door section in the vehicle's *Owner's Manual*.
- d) Check first aid kit.
Check that the first aid kit is properly installed inside the luggage compartment.

A04. DOOR LOCK SYSTEM AND ILLUMINATED ENTRY SYSTEM



- Check that all doors open and close smoothly using the interior and exterior door handles.
- Check that the doors cannot be opened by using the interior and exterior door handles when the lock button is in the locked position (except front interior handles).
- Check that the front doors can be opened by using the interior door handles when the lock button is in the locked position (front interior doors).
- Check exterior key lock control system operation with driver's door.
(two-step unlock function):
 - Turn the key once to unlock the driver's door.
 - Turn the key twice to unlock all the doors.
- Check the illuminated entry system operation. The following lights will illuminate when the door is opened:
 - Steering spot light
 - Seat spot lights
(with the interior light in "DOOR" position)
 - Selector spot lights
 - Inside door handle lights
 - Door courtesy lights
 - Foot lights
 - Outer scuff lights.
 - Personal lights
- Check the operation of the window and sliding roof* from outside the vehicle:
 - To close the window and sliding roof, insert the mechanical key into the door key cylinder and turn it in the locking direction.
 - To open the window and sliding roof, turn the mechanical key in the unlocking direction.

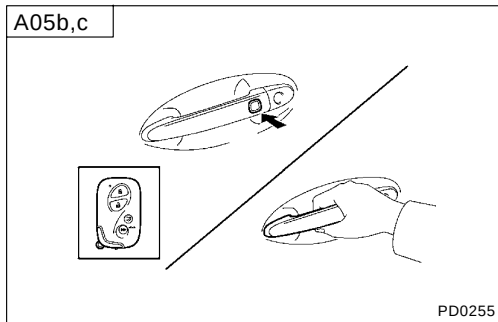
HINT:

The mechanical key must be held in the lock or unlock direction for the window and sliding roof to close or open.

*: Optional equipment

A05. SMART ACCESS SYSTEM

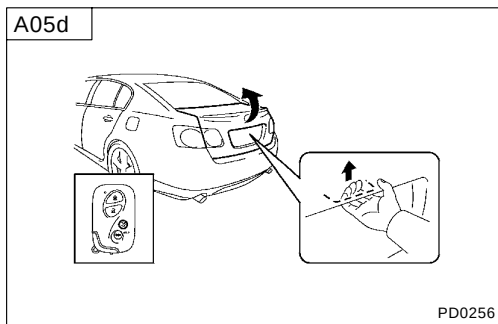
- a) With the electronic key within the vehicle, push the lock button on the outside handle and check that the buzzer sounds and that the door does not lock.
- b) Take the electronic key and get out of the vehicle. Push the lock button on the outside handle and check that the door locks.
- c) From a distance of at least 1 meter, approach the vehicle and pull the outside handle of left and right sides. Check that the door unlocks.

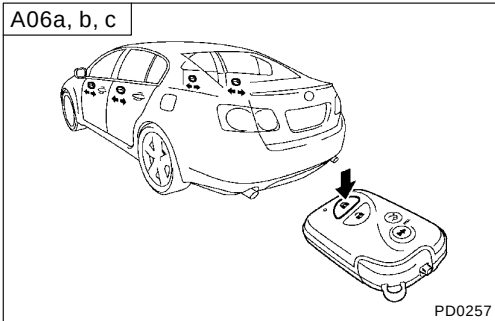


HINT:

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

- d) Check that the luggage compartment door is unlocked by pushing the luggage compartment door button.





A06. WIRELESS DOOR LOCK REMOTE CONTROL SYSTEM

Inspect the five functions of the system.

a) Locking the doors

1. Close all the doors.
2. Push the "LOCK" button on the electronic key to lock all the doors from outside the vehicle.

HINT:

At this time, all the turn signal lights flash once and one beep sounds. However, when you push the "LOCK" button with any door not closed securely, the buzzer sounds for 10 seconds or until all the doors are closed securely.

b) Unlocking the doors

1. Push the "UNLOCK" button on the electronic key once to unlock the driver's door.
2. Push the "UNLOCK" button once again within 3 seconds from the first push to unlock other doors.

HINT:

At this time, the interior and outer foot lights turn on for about 15 seconds and all the turn signal lights flash twice, and two beeps sound.

3. Check that all doors automatically relock after 30 seconds, if a door is not opened.

c) Unlocking the luggage compartment door

4. Keep the "LUGGAGE COMPARTMENT DOOR" button pushed for about 1 second to unlock the luggage compartment door.

HINT:

At this time, one beep sounds.

A. VEHICLE EXTERIOR (Continued)

- d) Opening the windows and sliding roof*
 - 1. Push the "UNLOCK" button until the windows and sliding roof start to move. When the button is released, they stop opening.

HINT:

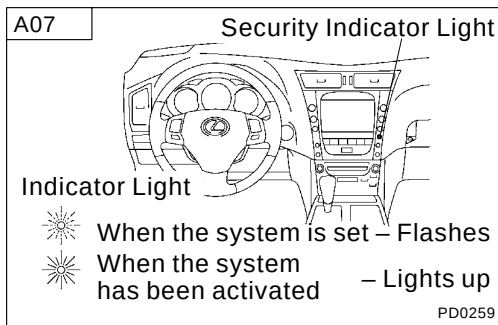
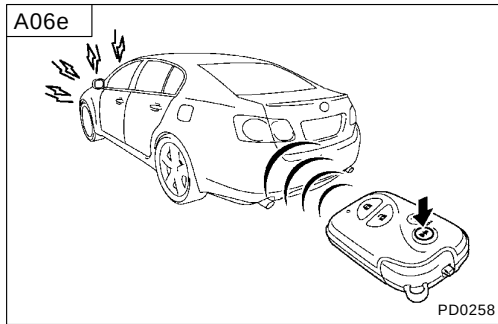
When all the windows and the sliding roof start to open, one beep sounds.

- e) Sounding an alarm
 - 1. Keep the "PANIC" button pushed for about 1 second to sound an alarm.

HINT:

At this time, all the headlights, taillights and turn signal lights flash.

- 1. To stop the alarm, push any button.



A07. THEFT DETERRENT SYSTEM

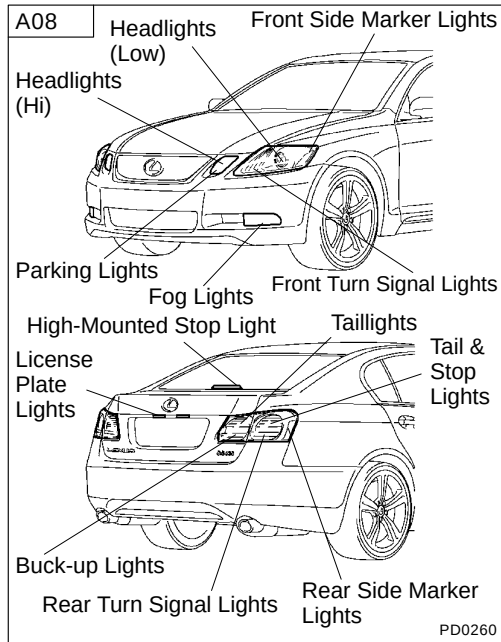
With the doors, hood and luggage compartment door locked, check that the system operates properly.

System test:

- a) Open the windows.
- b) Lock all the doors using the electronic key. Be sure to wait until the security indicator light on the dash panel starts flashing.
- c) Unlock one of the doors using the inside door lock. The system should activate the alarm (sounding of the horn, blinking of the headlights, taillights and emergency flasher, lighting up interior light) and lock all doors at the same time.
- d) Cancel the system by unlocking either door with the electrical key.

*: Optional equipment

A. VEHICLE EXTERIOR (Continued)



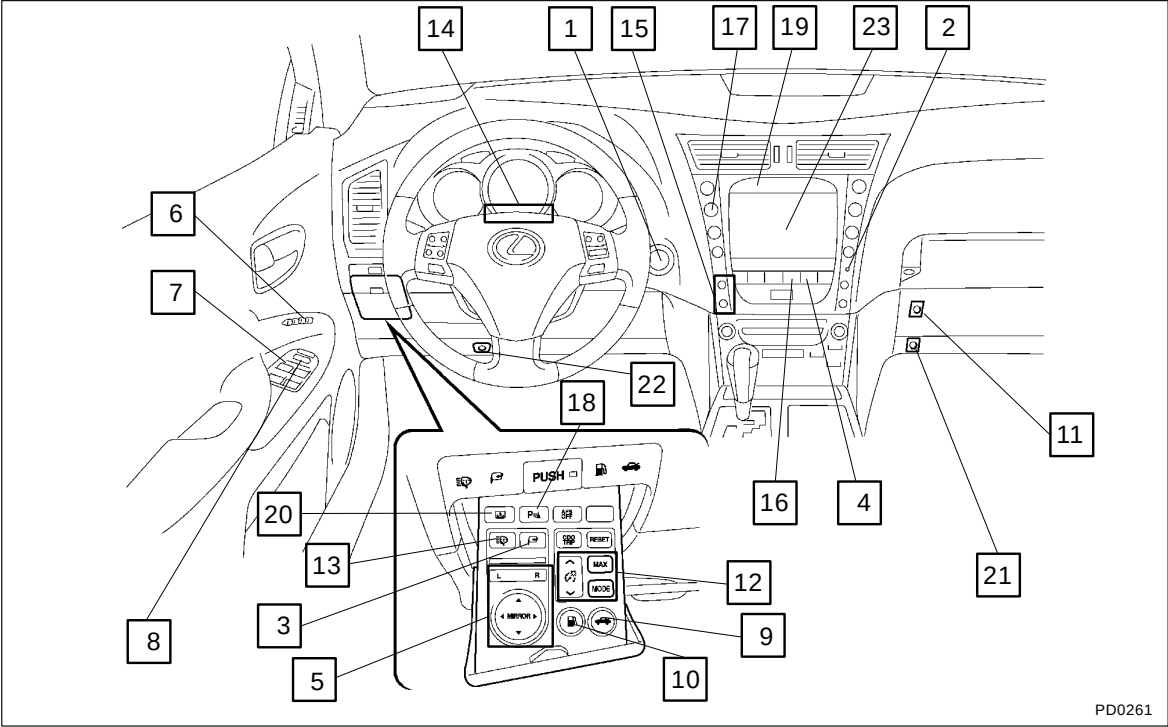
A08. HEADLIGHTS, PARKING, SIDE MARKER, TURN SIGNAL, FOG, LICENSE PLATE, STOP AND BACK-UP LIGHTS

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

- Headlights
- Parking lights
- Side marker lights
- Taillights
- Turn signal lights
- Fog lights
- License plate lights
- Stop and high-mounted stop lights (when brake pedal is depressed)
- Back-up lights (when selector lever is placed in "R" position with the power switch in "IG-ON" mode)

B. VEHICLE INTERIOR

ELECTRICAL SYSTEM/ACCESSORY OPERATION

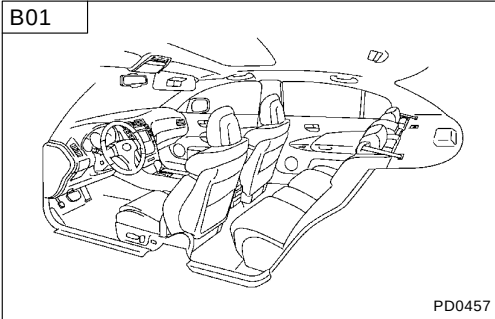


PD0261

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7	Power Window Switch	26	B11	18	Intuitive Parking Assist Switch ...	40 B23
8	Door Lock Switch	26	B12	19	Clock	41 B25
9	Luggage Compartment Door Opener	27	B13	20	Power Rear Sunshade Switch	47 B34
10	Fuel Filler Door Opener	27	B13	21	Tire Selector Switch	53 D10
11	Luggage Compartment Door Opener Main Switch	27	B13	22	Tire Pressure Warning System Reset Switch	53 D10
				23	Touch Screen	- e.t.c.

HINT:
Inspect interior parts after removing the necessary factory interior protective covering.
To prevent the auxiliary battery from being discharged, the engine should be running when the electrical control switches are turned on.

B. VEHICLE INTERIOR (Continued)



B01. INTERIOR PARTS

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

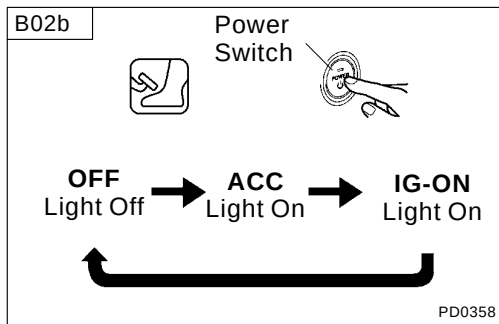
- Instrument panel, dashboard and glove box
- Roof headliner, front pillar, center pillar, roof side garnish and sun visors
- Door trim and quarter trim panels
- Seat upholstery, floor carpeting and door scuff plates
- Console box
- Steering wheel

B02. POWER SUPPLY CHANGEOVER AND HYBRID SYSTEM START/STOP

Check for proper activation of the power switch.

Power Supply Changeover

- Carry the electronic key in the vehicle and apply the parking brake.
- Without depressing the brake pedal, press the power switch. Check for the power supply mode changeover and the indicator light illumination.



Pressed once (from "OFF" mode):
Power supply mode is in the "ACC" mode. The amber indicator light illumination.

Pressed twice (from "OFF" mode):
Power supply mode is in the "IG-ON" mode. The amber indicator light illumination.

Pressed three times (from "OFF" mode):
Power supply mode is in the "OFF" mode. The indicator light goes off.

- In each mode, check that the power supply has changed properly.

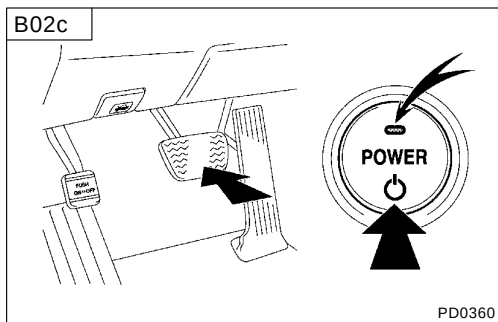
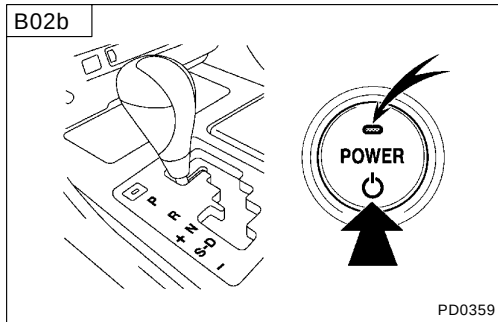
HINT:

If the power switch illuminator blinks in amber, refer to the *Repair Manual*.

B. VEHICLE INTERIOR (Continued)

Hybrid System Start/Stop

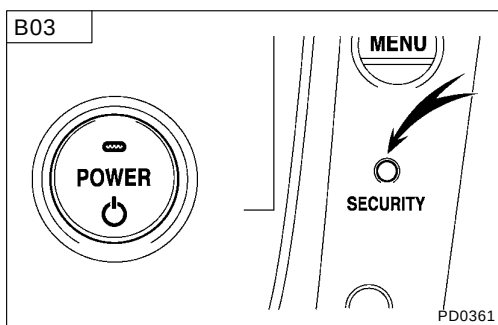
- Carry the electronic key in the vehicle and apply the parking brake.
- Check that the selector lever is in the "P" position.



- When depressing the brake pedal, check that the green power switch illuminator comes on and push the power switch to start the hybrid system.
- Push the power switch regardless of brake position to stop the hybrid system.

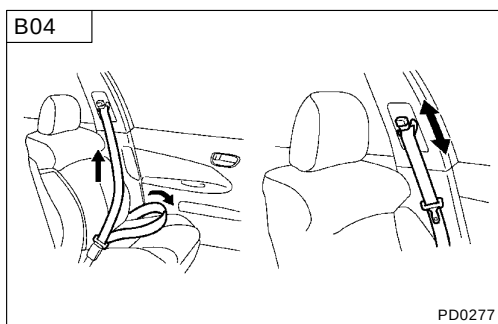
HINT:

If the hybrid system is stopped with the selector lever in a position other than "P", the power supply mode is switched to the "ACC" mode and the battery will be depleted.



B03. HV IMMOBILIZER SYSTEM

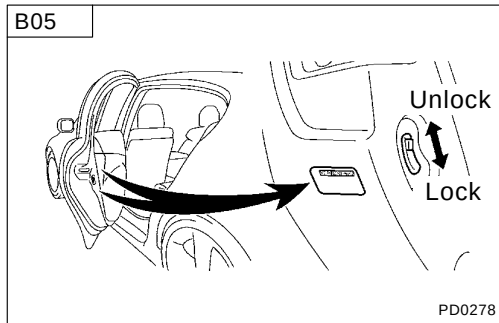
- Check that the security indicator light flashes when the power switch is selected in the "OFF" mode.
- Check that the hybrid system can be started using all the keys.
- Check that the security indicator light turns off when starting the hybrid system.



B04. SEAT BELTS

- Check each seat belts operation.
- Check that each belt extends and retracts smoothly.
- Check that the belts are not twisted.
- Check that the buckles lock securely and release smoothly.
- Check that the adjustable seat belt anchors operate properly and that they securely lock in position.

B. VEHICLE INTERIOR (Continued)



B05. CHILD PROTECTOR LOCKS

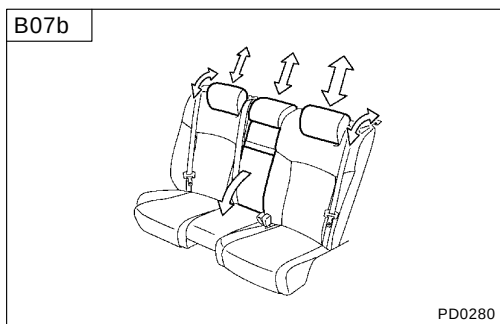
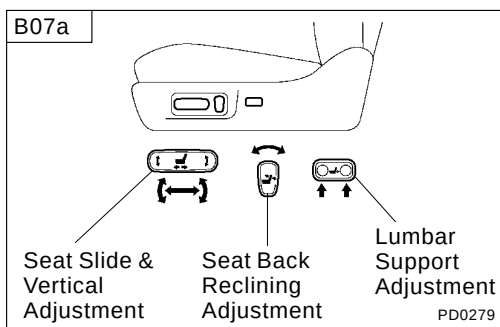
Check that the rear doors cannot be opened by the inside handle but can be opened by the outside handle when the child protector is in the locked position.

B06. DRIVER'S HEAD RESTRAINT

Refer to the provided ***Technical Service Information Bulletin***.

B. VEHICLE INTERIOR (Continued)

B07. SEAT ADJUSTMENTS



a) Front Seats

Check that the driver's and passenger's seats slide smoothly, recline properly and lock securely in any position.

- Seat slide adjustment
- Seat back reclining adjustment
- Seat vertical adjustment
- Lumbar support adjustment
- Head restraints adjustment

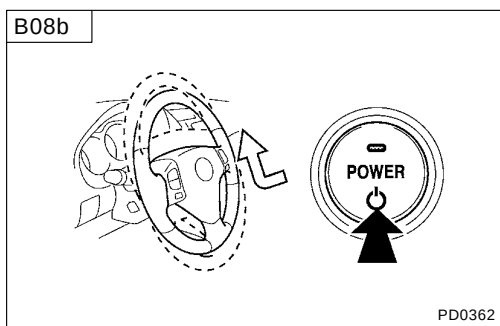
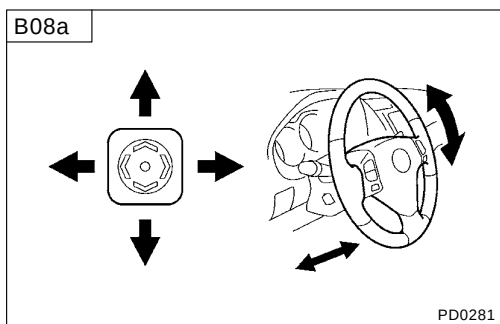
b) Rear Seats

Check that the head restraints and center armrest move smoothly.

- Head restraints adjustment
- Center armrest

B08. TILT AND TELESCOPIC STEERING WHEEL

Check tilt and telescopic steering wheel operation.



a) Manual Switch Operation

Tilt Steering Wheel:

With the power switch in the "IG-ON" mode, push the control switch up or down to set the steering wheel in the desired height position.

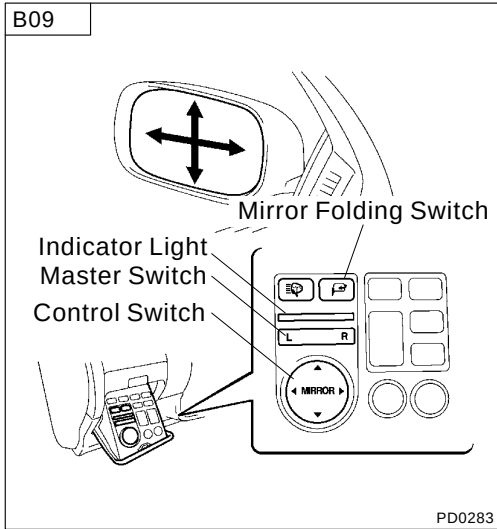
Telescopic Steering Wheel:

With the power switch in the "IG-ON" mode, push the control switch forward or backward to set the steering wheel in the desired position.

b) Automatic Tilt-Away Operation

- When the power switch is selected in the "OFF" mode, the steering column moves forward away from the driver and also tilts up.
- When the power switch is selected in the "IG-ON" mode, the steering column returns to the previously set position.

B. VEHICLE INTERIOR (Continued)

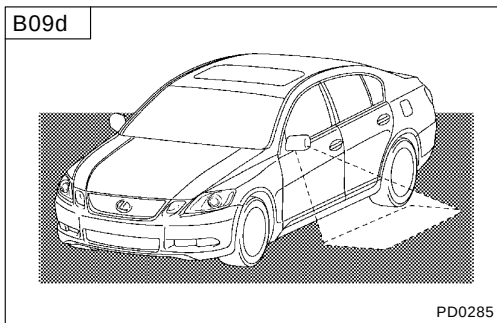
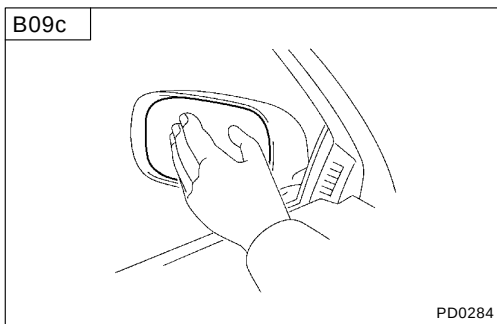


B09. OUTSIDE REAR VIEW MIRRORS

- a) Check power outside rear view mirror operation with the power switch in the "ACC" or "IG-ON" mode.
 2. Check that the indicator light comes on when the master switch is pushed, and goes off when the master switch is pushed to the same side again.
 3. Check that the mirror moves smoothly when the control switch is pushed in the desired direction.
 4. Push the mirror folding switch to fold the mirror and push the switch again to extend the mirror.
- b) With the power switch in the "IG-ON" mode, check that the mirrors move down quickly by the following operation.
 - Put the selector lever in the "R" position.
 - Push "L" (left mirror) or "R" (right mirror) on the master switch.
- c) Check the operation of the mirror heaters.

HINT:

The mirror heaters are activated when the rear window defogger is "ON".

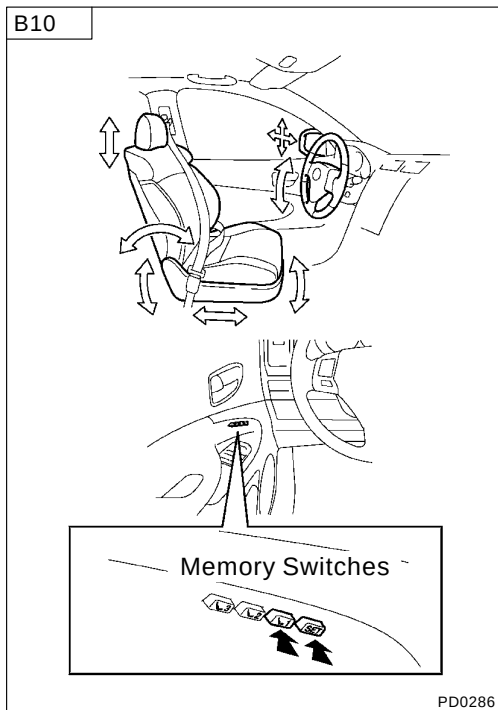


- d) Check that the outer foot light operates properly in the following conditions.
 - When entering the effective range of the smart access function (about 1 m (3 ft.) from each outside door handle) with carrying the electronic key.
 - The doors are unlocked with the wireless remote control.
 - The doors are unlocked with power door lock switch on the driver's side.

HINT:

Check that the outer foot lights illuminate for 15 seconds and they will go off.

B. VEHICLE INTERIOR (Continued)



B10. FRONT SEAT POSITION MEMORY SYSTEM*

With the power switch in the "IG-ON" mode and the selector lever in the "P" position, test the operation:

a) **Driver's Seat:**

Adjust the driver's seat, tilt and telescopic steering and outside rear view mirrors to the desired positions.

Front Passenger Seat:

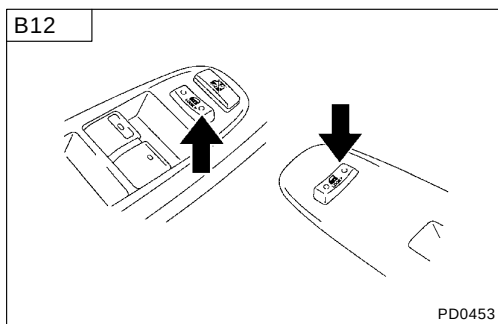
Adjust the front passenger seat to the desired position.

b) While pushing the "SET" button, push down the button "1", "2" or "3" until the beep sounds.

c) Check all buttons (1, 2 and 3) to make sure that all memorized settings operate correctly.

B11. POWER WINDOW

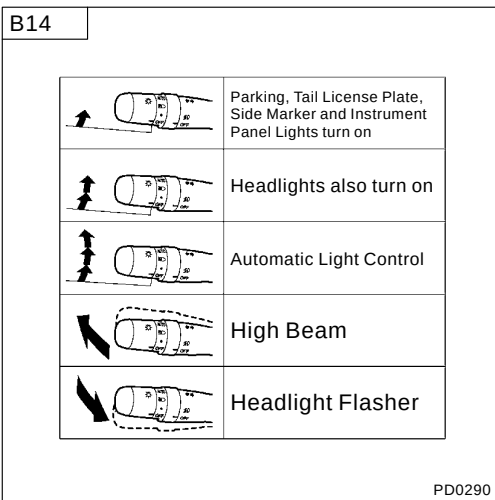
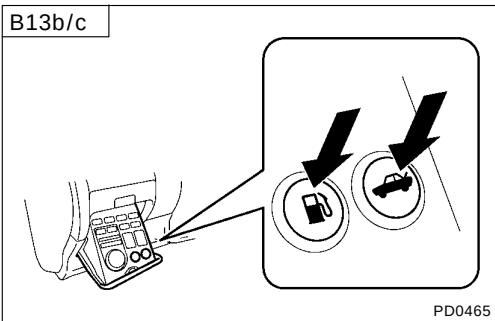
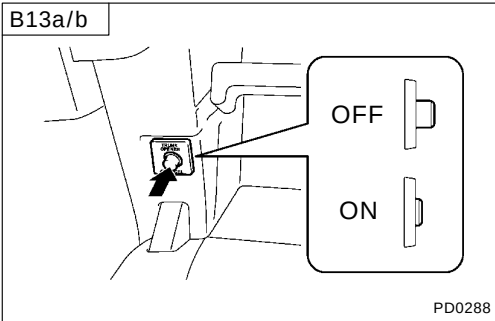
Refer to the provided **Technical Service Information Bulletin**.



B12. DOOR LOCKS

Check operation of the power door lock switches on the driver's and passengers' doors.

B. VEHICLE INTERIOR (Continued)



B13. LUGGAGE COMPARTMENT AND FUEL FILLER DOOR OPENERS

- Check that the luggage compartment door opener does not operate when the main switch located in the glove box is in the OFF position.
- Turn on the main switch, and check operation of the luggage compartment door opener.
- Check operation of the fuel filler door opener.

HINT:

It might take a while to open the fuel filler door after the main switch is pressed.

B14. TURN SIGNAL, HEADLIGHT, HIGH BEAM, AND EMERGENCY FLASHER INDICATOR LIGHTS AND HORN

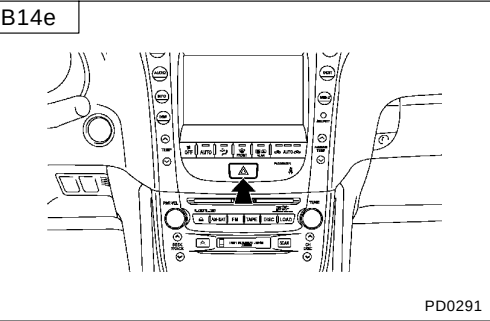
- Check that the turn signal indicator lights on the instrument panel illuminate when the turn signal lever is moved up or down.
- Check that the headlight indicator light illuminates when the headlights are on.

HINT:

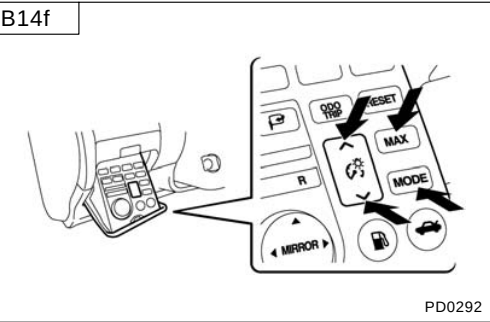
Headlights automatically turn off about 30 seconds after any of the doors is opened and closed with the power switch in the "OFF" mode.

- Check operation of the automatic light control function.
- Check that the high beam indicator light illuminates when the high beams are on.

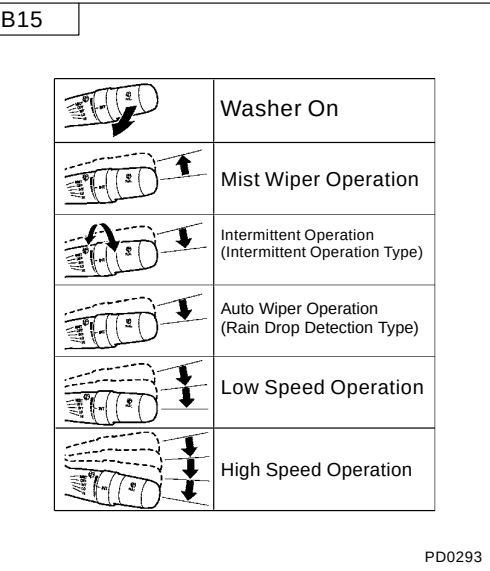
B. VEHICLE INTERIOR (Continued)



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



- f) Check that the instrument panel light control switch operates properly.
- g) Check that the horn sounds when the horn button is depressed.
- h) Check that the front fog lights are on when front fog light switch is on with the headlights on.



B15. WIPERS AND WASHERS

With the power switch in the “IG-ON” mode:

- a) Push the lever toward you and check that washer fluid squirts onto the proper area of the windshield and that wipers activate. Wipers will make one additional pass after a 3-second delay.
- b) Check wiper speed operation on mist, intermittent, low and high cycles. Check that the wiper blades wipe off the washer fluid cleanly.
- c) The wipers should not make any abnormal noise when operating.

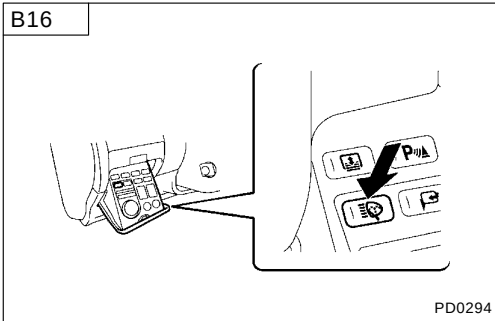
For Raindrop Detection Type:

- 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 automatically.

HINT:

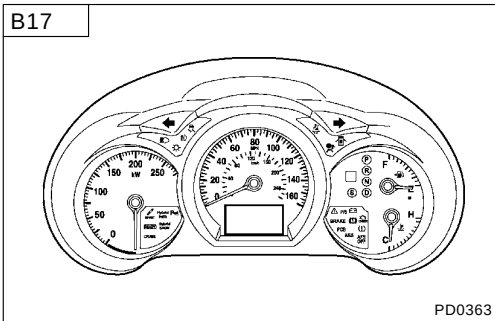
Add washer fluid up to the proper level.

B. VEHICLE INTERIOR (Continued)



B16. HEADLIGHT CLEANER

With the power switch in the “IG-ON” mode and the headlights “ON”, push the headlight cleaner switch and check that washer fluid splashes on the headlights.



B17. WARNING AND INDICATOR LIGHTS

- With the power switch in the “IG-ON” mode, check that each warning and/or indicator light operates properly.
- With the power switch in the “IG-ON” mode, check that the following warning and/or indicator lights turn on and then go off after a few seconds:
 - Slip indicator light
 - AFS (Adaptive Front-lighting System) OFF indicator light
 - ABS warning light
 - SRS airbag warning light
 - Low tire pressure warning light
 - Master warning light
 - Pre-collision system warning light
 - Electric power steering system warning light
 - Brake system warning light
 - Charge warning light
 - AVS (Adaptive Variable Suspension System) operation indicator light.

Refer to “Warning Lights and Buzzers” on page 30 for details.

B. VEHICLE INTERIOR (Continued)

Warning Lights and Alarm		
Item		Function/Condition
BRAKE PD0364	- Parking Brake Operation Indicator Light* - EBD System Warning Light* - Brake Fluid Level Warning Light*	- When the parking brake is ON or a failure occurs in the EBD (Electronic Brake force Distribution) system, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the skid control ECU and effects control to illuminate this light. - When the brake fluid level switch turns ON as a result of a low brake fluid level, this light illuminates.
 PD0365	ECB (Electronically Controlled Brake System) Warning Light*	When a failure occurs in the ECB (Electronically Controlled Brake System), the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the skid control ECU and effects control to illuminate or flash this light.
 PASSENGER PD0366	Seat Belt Reminder Light	When the power switch is in the "IG-ON" mode and the seat belt is unbuckled, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the center airbag sensor assembly and effects control to flash this light.
CRUISE PD0367	Cruise Operation / Warning Light	- When the cruise control system is operating (main switch ON), the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the HV ECU and effects control to illuminate this light. - When a failure occurs in the cruise control system, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the HV ECU and effects control to flash this light.
 SPORT PD0368	AVS Operation Indicator Light*	When the AVS (Adaptive Variable Suspension System) SPORT mode is selected, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the suspension control ECU and effects control to illuminate or flash this light.
Hybrid PWR PD0369	Hybrid Power Operation Indicator Light	When the HYBRID POWER mode is selected, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the ECM and effects control to illuminate this light.
Hybrid SNOW PD0370	Hybrid SNOW Operation Indicator Light	When the HYBRID SNOW mode is selected, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the ECM and effects control to illuminate this light.
 PD0371	SRS Airbag Warning Light*	If a failure associated with the SRS airbags occurs, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the center airbag sensor assembly and effects control to illuminate this light.
 PD0372	Charge Warning Light*	When a failure occurs in the L terminal voltage of the alternator, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the HV ECU and effects control to illuminate this light.
 CHECK PD0373	Check Engine Warning Light	When a failure occurs in the engine control system, the HV ECU effects control to illuminate this light.
ABS PD0374	ABS Warning Light*	When a failure associated with the ABS occurs, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the skid control ECU and effects control to illuminate this light.

*: This light goes off a few seconds after the power switch is selected in the "IG-ON" mode

B. VEHICLE INTERIOR (Continued)

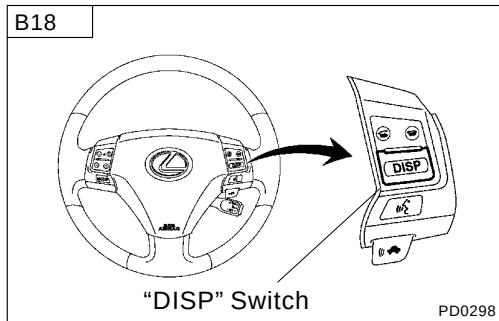
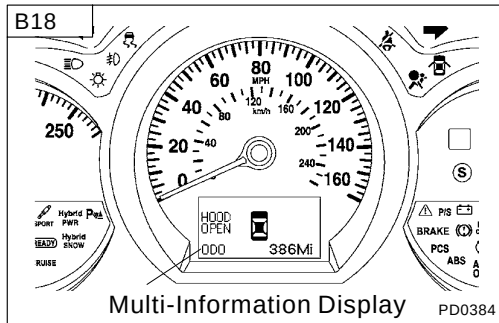
Warning Lights and Alarm		
Item		Function/Condition
 PD0375	Ajar Door Warning Light	When any of the individual doors or the luggage compartment door is open or ajar, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the MPX body No. 1 ECU and the MPX rear junction block ECU and effects control to illuminate this light.
 PD0376	Slip Indicator Light	- When the TRAC and VSC are operating, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the skid control ECU and effects control to flash this light. - When the TRAC operation is canceled at the TRAC OFF switch, the meter ECU receives the input of BEAN (Body Electronic Area Network) signals from the skid control ECU and effects control to illuminate this light.
 PD0377	Master Warning Light	When a failure occurs in the system that corresponds to the warning indicated by the master warning, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the ECU in which the failure occurred and effects control to illuminate or flash this light.
 PD0378	AFS OFF Operation / Warning Light*	- When the AFS (Adaptive Front-lighting System) operation is canceled at the AFS OFF switch, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the AFS ECU and effects control to illuminate this light. - When a failure occurs in the AFS system, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the AFS ECU and effects control to flash this light.
 PD0379	Tire Pressure Operation / Warning Light*	- When the tire pressure warning system is operating, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the tire pressure control ECU and effects control to illuminate this light. - When a failure occurs in the tire pressure warning system, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the tire pressure control ECU and effects control to flash this light.
 PD0380	Electric Power Steering Warning Light*	If a failure occurs in the electric power steering system, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the electric power steering ECU and effects control to illuminate this light.
 PD0381	Pre-collision System Operation / Warning Light	- When the pre-collision system is operating, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the HV ECU and effects control to illuminate this light. - When a failure occurs in the tire pressure warning system, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the tire pressure control ECU and effects control to flash this light.

*: This light goes off a few seconds after the power switch is selected in the "IG-ON" mode

B. VEHICLE INTERIOR (Continued)

Warning Lights and Alarm		
Item		Function/Condition
 PD0382	Intuitive Parking Assist System Operation / Warning Light	- When the intuitive parking assist system is operating, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the clearance warning ECU and effects control to illuminate this light. - When a failure occurs in the intuitive parking assist system, the meter ECU receives the input of BEAN (Body Electronics Area Network) signals from the clearance warning ECU and effects control to flash this light.
 PD0383	READY Light	This light brinks when the driver simultaneously presses the brake pedal and the push start switch while the selector lever position is in the "P" position. Thereafter, the light changes to illumination and the buzzer sounds when the system starts. Thus, it informs the driver whether the vehicle is drivable.
Alarm	Exterior Alarm (Sounds once for 2 seconds)	When the lock button on the outside door handle is pushed with the electronic key left in the vehicle.
		When the lock button on the outside door handle is pushed while carrying the electronic key with the power switch not in the "OFF" mode.
		When the electronic key is locked in the luggage compartment door when all doors are locked.
	Exterior Alarm (Sounds once for 10 seconds)	When the lock button on the outside door handle is pushed while any door is not completely closed.
	Interior Alarm (Sounds continuously)	When the electronic key is not in the vehicle, the driver's door opened and closed with the power switch selected in "ACC" or "IG-ON" mode and selector lever is in a position other than "P".
	Interior Alarm (Chimes continuously)	When the driver's door is opened with the power switch selected in "ACC" mode and the selector lever is in "P".
		When the power switch is selected in the "OFF" mode while the driver's door is open.

B. VEHICLE INTERIOR (Continued)



B18. MULTI-INFORMATION DISPLAY

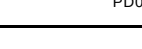
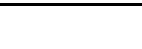
The multi-information display provides information on vehicle driving conditions and warning messages. Review the following functions:

- a) Press the "DISP" switch located on the steering wheel and cycle through the following modes:
 - Energy monitor
 - Available driving distance
 - Average fuel consumption after refueling
 - Current fuel consumption
 - Blank
- b) Open any doors, luggage compartment door, hood and sliding roof and check that the opening condition is displayed by graphic information.

HINT:

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.

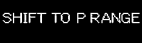
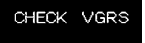
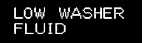
B. VEHICLE INTERIOR (Continued)

Warning Message		
Item		Function
 PD0385	Low Engine Oil Pressure Warning Message	If the engine oil pressure is too low, the message appears with the master warning light and a warning tone sounds when the power switch is selected in the "IG-ON" mode.
 PD0386	Low Engine Oil Level Warning Message	When the engine oil level is too low, the message appears with the master warning light comes on, a warning tone sounds when the power switch is selected in the "IG-ON" mode.
 PD0389	Tire Pressure Warning System Warning Message	If a malfunction of the tire pressure warning system, the message appears with the master warning light, low tire pressure warning light and a warning tone sounds when the power switch is selected in the "IG-ON" mode.
 PD0390	Low Tire Inflation Pressure Warning Message	If a malfunction of low tire inflation pressure is detected while driving, the message appears with the master warning light, the low tire pressure warning light flashes and a warning tone sounds when the power switch is selected in the "IG-ON" mode.
 PD0391	Tire Pressure Warning System Initialized Message	This message indicates the tire pressure warning system is initialized. After replacing the tires or wheels, adjust all 4 tires to specified tire inflation pressure and initialize the tire pressure warning system.
 PD0394	Pre-collision System Warning Message	If a malfunction of pre-collision system is detected, the message appears with the master warning light flashes, pre-collision system warning light and warning tone sounds when the power switch is selected in the "IG-ON" mode.
 PD0395		If the following conditions, the message appears with the master warning light flashes, the pre-collision system warning light and a warning tone sounds when the power switch is selected in the "IG-ON" mode. • The millimeter wave radar sensor or the grill cover is dirty. • The pre-collision seat belts are activated repeatedly for a short time.
 PD0396	Intuitive Parking Assist System Warning Message	If the ultrasonic sensor of the intuitive park assist system is malfunctioning or a sensor cable is broken when the system is on, the malfunctioning sensor flashes, 2 beeps sound 5 times and the message on the left appears.
 PD0397		If icicles, snowflakes or mud gets on the ultrasonic sensors of the intuitive park assist system when the system is on, the message on the left appears with the master warning light and warning light and warning tone sounds, and the vehicle symbol and indicator bars continue flashing until the suspected sensor is cleaned.
 PD0398	Dynamic Radar Cruise Control Warning Message	If a malfunction of the dynamic radar cruise control is detected, the message appears with the master warning light, warning tone and "CRUISE" indicator light when the dynamic radar cruise control is on.

B. VEHICLE INTERIOR (Continued)

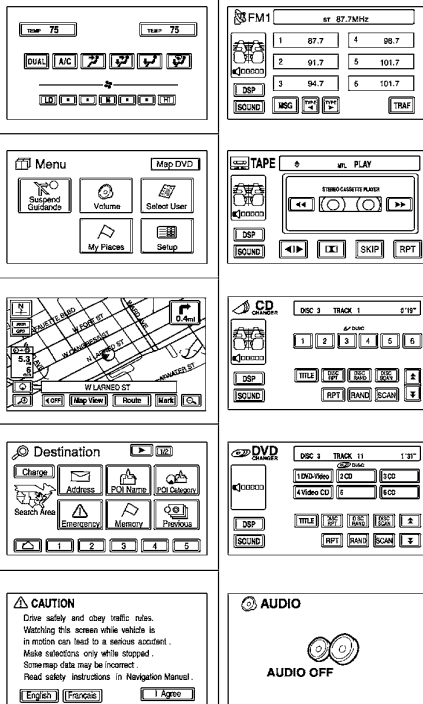
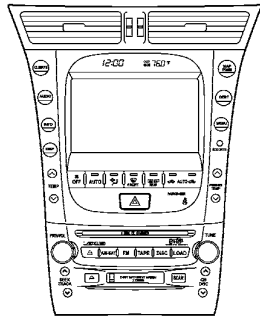
Warning Message		
Item		Function
 PD0399	Dynamic Radar Cruise Control Warning Message	If the following distance control mode is not available, the message appears with the master warning light and warning tone sounds when the dynamic radar cruise control is on in the conditions listed below. - It is determined that it is difficult to make a measurement because of bad weather (such as rainy, foggy, or snowy weather). - The wipers are operated at high speed with the wiper lever in the "AUTO" position or HI position.
 PD0400		If your vehicle is nearing the vehicle ahead (in radar cruise control mode), the message appears with a warning tone sounds.
 PD0401		If the radar sensor glass is tainted, the message appears with the master warning light and a warning tone sounds when the dynamic radar cruise control is on.
 PD0402	Open Door Warning Message	The message specifies the door, hood or luggage compartment door that is open. When the vehicle speed exceeds 3 mph, the master warning light flashes and a warning tone sounds.
 PD0403		
 PD0404		
 PD0405		
 PD0406	Hood Open Warning Message	
 PD0407	Luggage Compartment Door Open Warning Message	
 PD0408	Sliding Roof Open Warning Message	If the sliding roof is open with the power switch is selected in the "OFF" mode, the message appears with the master warning light flashes and a buzzer sounds when the driver opens the door.

B. VEHICLE INTERIOR (Continued)

Warning Message		
Item		Function
 PD0409	Electronic Key System Warning Message	If an electronic key is not detected in the vehicle when you push the power switch, the message on the left appears for 8 seconds. If a door other than the driver's door has been opened or closed with the power switch in the "OFF" and key is outside of the detection area, the message appears with the master warning light flashes, a buzzer sounds once and an exterior buzzer sounds three times. If the driver's door has been opened or closed with the selector lever in "P", the power switch is in any mode other than "OFF" and key outside of the detection area, the message appears with the master warning light flashes, an interior buzzer sounds once and a buzzer sounds three times.
 PD0410	Unengaged "P" Position Warning Message	If the selector lever is not in the "P" position with the power switch is selected in the "IG-ON" mode, the message appears with the master warning light flashes and a warning tone sounds when the driver's door is opened.
 PD0409		
 PD0413	VGRS Warning Message	If there is problem in the VGRS (Variable Gear Ratio Steering) system, the master warning light comes on and the message on the left appears.
 PD0414	Parking Brake Warning Message	This message is to remind the driver that the parking brake is not released. When the vehicle speed exceeds 3 mph, the message appears, master warning light flashes and a warning tone sounds.
 PD0415	Engine is not running Warning Message	If a door has been opened or closed and the power switch has been switched twice to "ACC" mode from "OFF", the message appears with an interior buzzer sounds once.
 PD0416	Low Windshield Washer Fluid Level Warning Message	If the washer fluid level is low, the message appears with the master warning light and a warning tone sounds when the power switch is selected in the "IG-ON" mode.
 PD0419	Hybrid System Warning Message	If a malfunction of the hybrid system is detected, this message appears with the master warning light flashes and warning tone sounds when the "READY" indicator lamp illuminated.

B. VEHICLE INTERIOR (Continued)

B18



PD0302

B19. THE LEXUS NAVIGATION SYSTEM

- a) With the engine switch in the "ACC" or "IG-ON" mode, check that the initial "LEXUS" screen appears for a few seconds and then changes to the "AUDIO", "AIR CONDITIONER", "MENU" or "CAUTION" screen, depending on the previous display.

NOTE:

"CAUTION" screen appears if "MAP/GUIDE" or "DESTINATION" screen was displayed during last use.

- b) Push the "CLIMATE", "AUDIO", "MENU", "MAP/GUIDE" or "DESTINATION" buttons and check that the display changes according to the pressed button.

- (c) XM NavWeather

This service is active on all new Lexus vehicles with navigation systems. To confirm activation, press the "MENU" button, select "Info.Phone" then select "XM NavWeather".

NOTE:

If service is currently unavailable, the nav screen will show the following pop up message: "XM signal not available or active XM subscription needed."

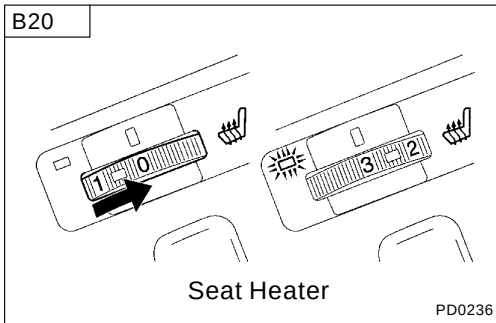
This means one of the following:

- a) XM tuner is looking for active subscription confirmation from XM.
(b) XM data is not received by the vehicle after vehicle startup. XM signal is most likely blocked, allow vehicle to idle in an unobstructed area for approximately 3 minutes.
c) 90 day trial subscription has expired. Consult TIS for further diagnosis and repairs.

NOTE:

After about 5 seconds, the "CAUTION" screen automatically switches to the map

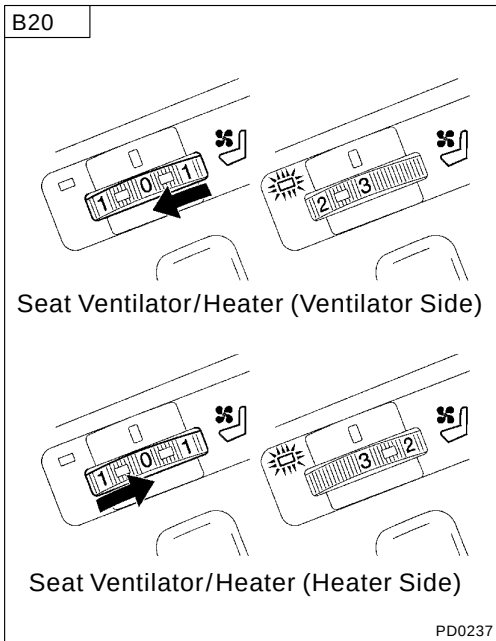
B. VEHICLE INTERIOR (Continued)



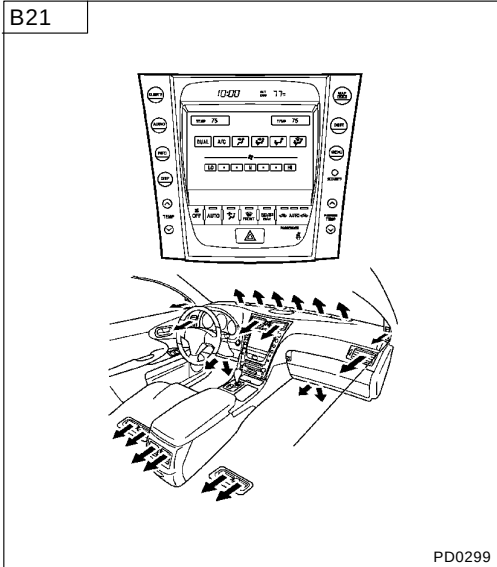
B20. SEAT HEATER* AND VENTILATOR/HEATER*

With the power switch in the "IG-ON" mode, pull the lever to slide the rear console box cover backward.

Check that the indicator light comes on properly after the switch is turned and on. Turn the switch again and the light goes off after testing.



*: Optional equipment



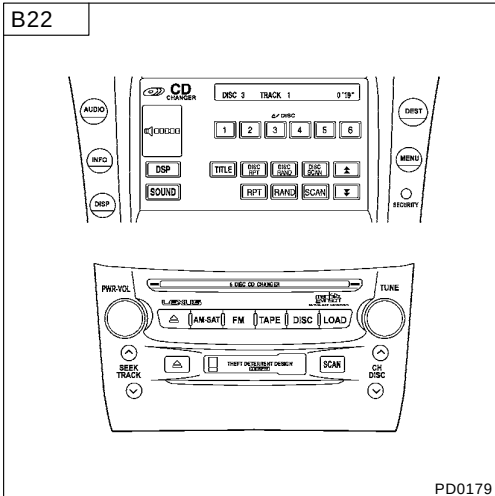
B21. AIR CONDITIONING AND HEATER

Warm up the hybrid system and turn on the "A/C" button, then check for smooth operation of each control as follows:

Before checking the air conditioning and heater, push the "CLIMATE" button to display switches for automatic air conditioning control.

- Press the blower button (Hi) and set the temperature to "29.5 °C (85 °F)" with the "TEMP" button.
- Press the windshield air flow button and check that hot air flows out of the front defroster vents.
- Set the air flow mode in "FOOT" with the "MODE" button and check that hot air flows out of the foot vents.
- Check that the air flow volume changes when the air intake control button is pressed.
- Press the "AUTO" button and the "DUAL" button (indicator on) in order and lower the temperature of the driver's side with the "TEMP" button.
- Check that the display of the air flow mode and the air flow volume changes automatically.
- Set the temperature of the driver's side at "18.5 °C (65 °F)".
- Check that the temperature of the passenger side remains at "29.5 °C (85 °F)".
- Set the air flow mode in "FACE" with the "MODE" button.
- 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" button (indicator off) and check that cool air flows out of both center vents.
- Check that cool air flows out of the side vents and the rear console box vent.
- Check that the outside temperature displays.
- Press the "OFF" button.
- Turn on the rear window defogger switch and check that the indicator light illuminates.
- Turn on the micro dust and pollen filter switch and check that the indicator light illuminates.

B. VEHICLE INTERIOR (Continued)

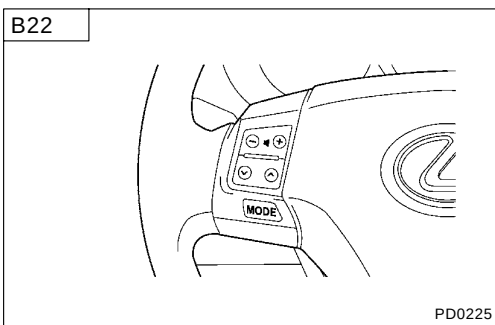


B22. AUDIO SYSTEM

- When the power switch is selected in the "ACC" or "IG-ON" mode, push the "PWR-VOL" knob on and check for proper operation of both AM and FM stations.
- Pre-set all the station selector buttons to local broadcast frequencies.
- Check the cassette operation by inserting a cassette into the tape player (scan, seek, rewind, fast-forward).
- CD player should be inspected for proper operation prior to delivery.

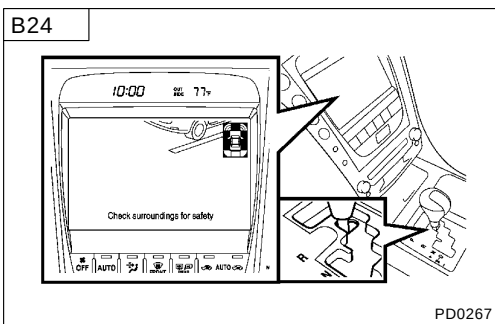
Checking Audio Function of the Audio Remote Control Switch

- When the power switch is selected in the "IG-ON" mode, push the "MODE" button located on the steering wheel and check that the mode changes as follows:
FM → TAPE → CD → AM
- Check that audio volume changes when the "VOL" button on the steering wheel is pressed.



B23. INTUITIVE PARKING ASSIST

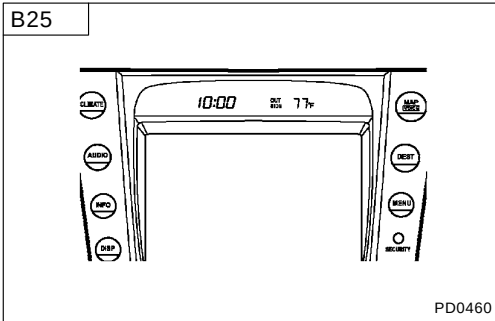
Refer to the provided **Technical Service Information Bulletin**.



B24. REAR VIEW MONITOR SYSTEM

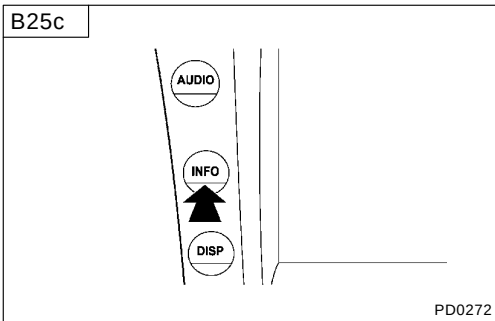
When the power switch is selected in the "IG-ON" mode and the selector lever is shifted in the "R" position, check that the rear view is displayed on the screen.

B. VEHICLE INTERIOR (Continued)



B25. CLOCK AND OUTSIDE TEMPERATURE DISPLAY

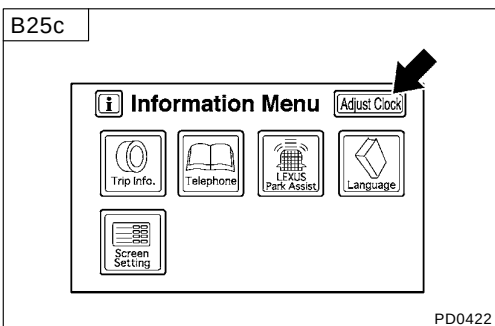
- With the power switch in the "ACC" or "IG-ON" mode, check that the clock is operating.
- Check that the outside temperature display is operating.



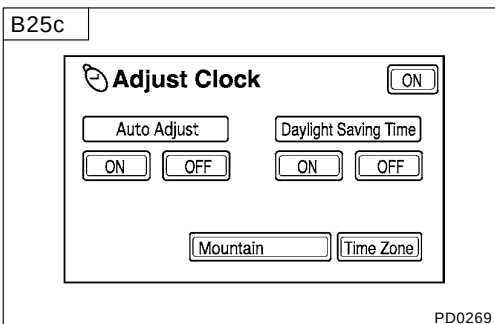
- Set the clock to the proper time using the touch panel.

With Navigation System

- Push the "INFO" button to display the setting screen.

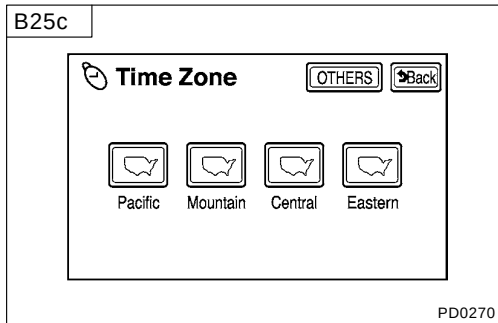


- Touch the "Adjust Clock" switch to display the adjust clock screen.

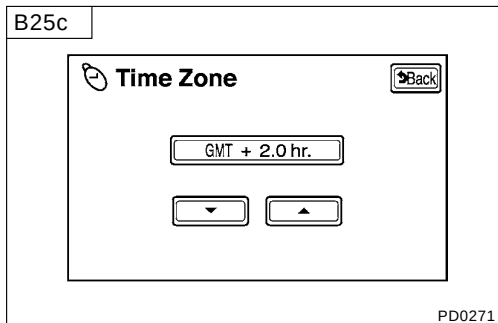


- Check that the auto adjust is on, and set the daylight saving time at an appropriate time.

B. VEHICLE INTERIOR (Continued)

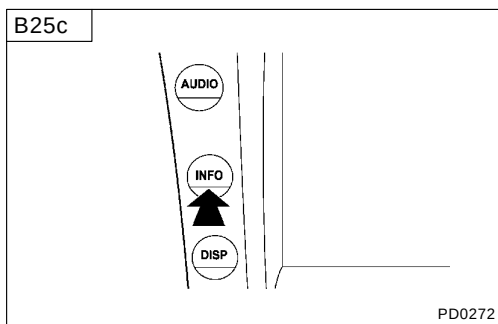


4. Set the time zone to desired area.



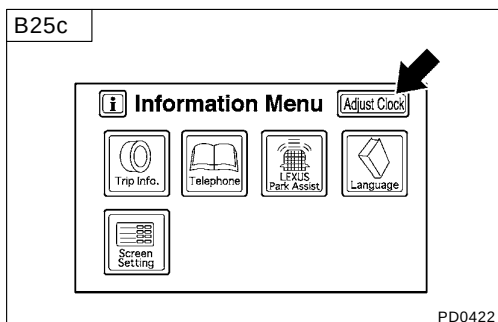
When you touch "OTHERS", this screen is displayed.

Touch "▲" or "▼" to adjust the time zone.



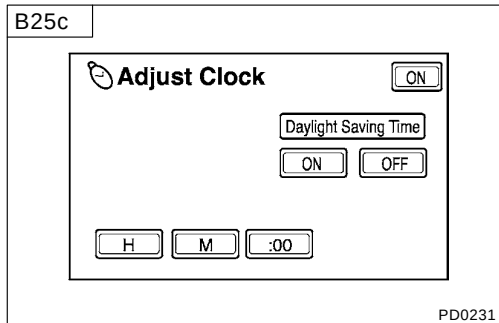
Without Navigation System

1. Push the "INFO" button to display the setting screen.

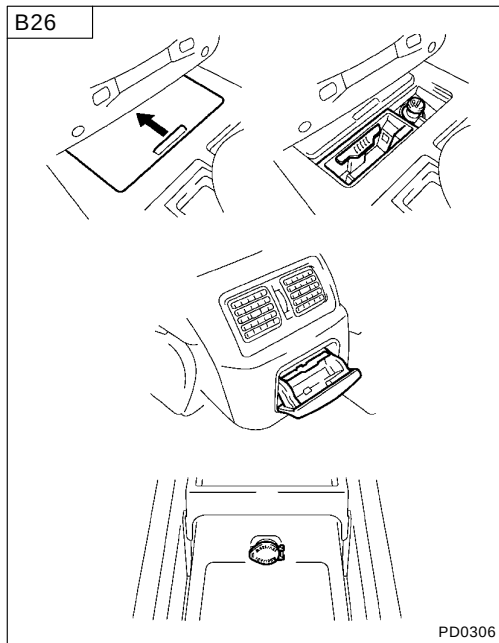


2. Touch the "Adjust Clock" switch to display the adjust clock screen.

B. VEHICLE INTERIOR (Continued)



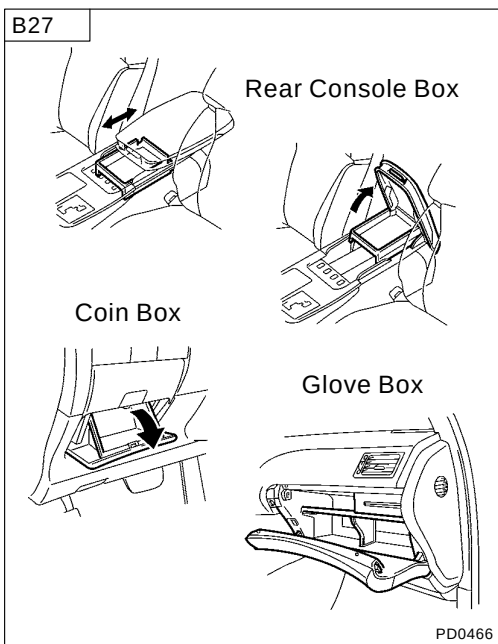
3. Adjust the clock manually with “H”, “M” and “:00” switches.
4. Set the daylight saving time.



B26. CIGARETTE LIGHTERS, ASHTRAYS AND POWER OUTLET

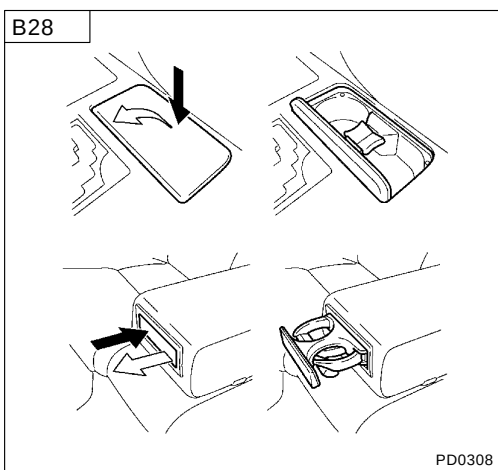
- a) Check opening and closing of front and rear ashtrays.
- b) With the power switch in the “ACC” mode, push in the cigarette lighters and check that the coils are bright red when the lighters automatically pop out.
- c) With the power switch in the “ACC” or “IG-ON” mode, check the power outlet in the console box using an electrical accessory designed for this use.

B. VEHICLE INTERIOR (Continued)



B27. REAR CONSOLE BOX, GLOVE BOX AND AUXILIARY BOXES

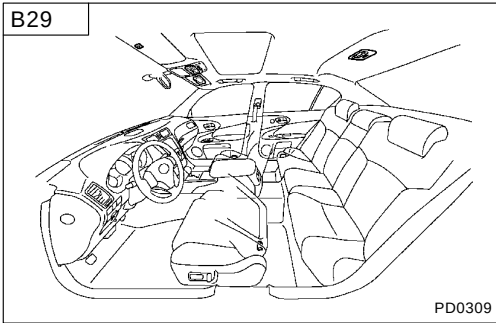
Check that the rear console box, glove box and auxiliary boxes open and close smoothly.



B28. CUP HOLDERS

Check that the cup holders (front and rear) operate smoothly and that they do not make any noise during operation.

B. VEHICLE INTERIOR (Continued)



B29. INTERIOR, PERSONAL, FOOT, MAP, VANITY, DOOR COURTESY, DOOR INSIDE HANDLE, GLOVE BOX, ASHTRAY, CONSOLE BOX AND REAR SEAT SPOT LIGHTS

Check operation of the following interior lights:

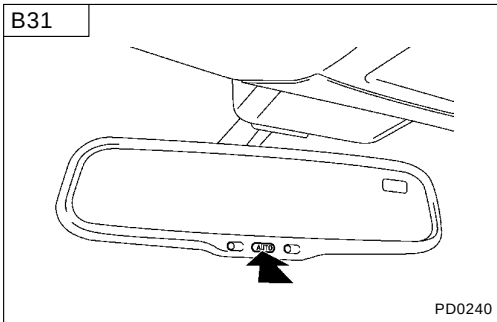
- a) Interior lights (Front/Rear)
- b) Personal lights (Front/Rear)
- c) Foot lights (Front/Rear)
- d) Map lights
- e) Vanity lights
- f) Door courtesy lights
- g) Door inside handle illumination lights
- h) Glove box lights (illuminates only when the headlight switch is "ON")
- i) Ashtray lights (illuminates only when the headlight switch is "ON")
- j) Console box light (illuminates only when the headlight switch is "ON")
- k) Rear seat spot light (with the interior light in "DOOR" position)

B30. SLIDING ROOF*

Refer to the provided **Technical Service Information Bulletin**.

*: Optional equipment

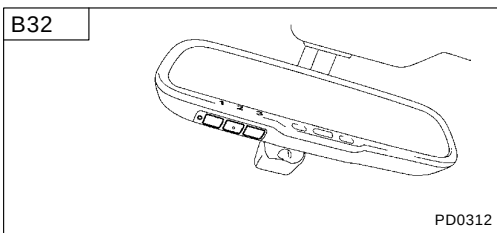
B. VEHICLE INTERIOR (Continued)



B31. INSIDE REAR VIEW MIRROR

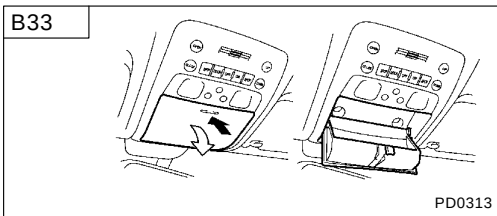
Check that the inside rear view mirror operation.

- Push the power switch to select the "IG-ON" mode, and check that the mode indicator on the inside rear view mirror illuminates ("AUTO" mode).
- Check that the mode changes between "AUTO" mode (mode indicator on) and "DAY" mode (mode indicator off) alternately by pushing the "AUTO" switch.
- Turn the interior light to the "ON" position and cover the rear view mirror forward light sensor (located in front side of mirror). The rear view mirror and both outside mirrors should darken. When the interior light is "OFF" and your finger is removed, the mirrors should be brighten.



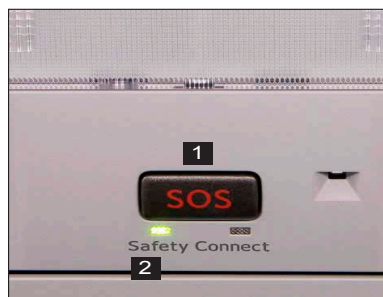
B32. Home Link® GARAGE DOOR OPENER

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



B33. OVERHEAD CONSOLE BOX

Check that the overhead console box opens and closes smoothly.



SAFETY CONNECT®

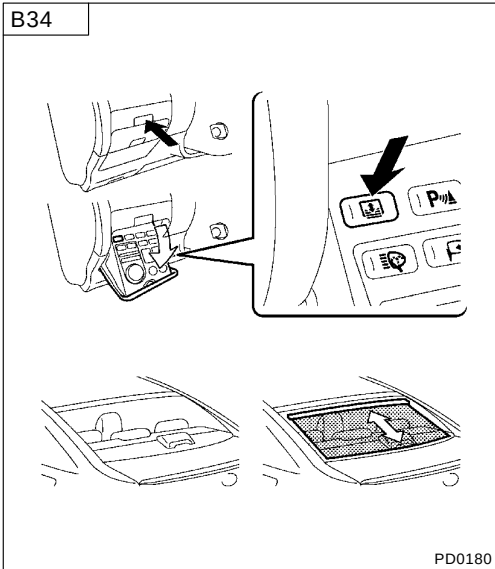
Inspect the Safety Connect LED (located in the overhead console) for a green activation indicator. If green LED is not illuminated, press the SOS button once, wait for voice prompt, and press the button again within 5 seconds. If successful, tones will be heard followed by voice prompt saying "Activation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

- SOS Button
- Light indicator

NOTE:

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

B. VEHICLE INTERIOR (Continued)

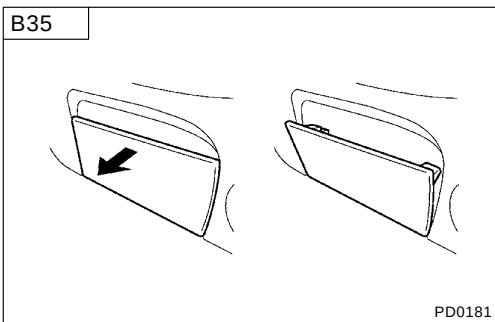


B34. POWER REAR SUNSHADE

- With the power switch in the "IG-ON" mode, press the sunshade switch in the switch box and check the smooth operation of the power rear sunshade.
- When the selector lever is shifted into the "R" position, check that the sunshade lowers. Then check that the sunshade raises when the selector lever is shifted into the "P" position.

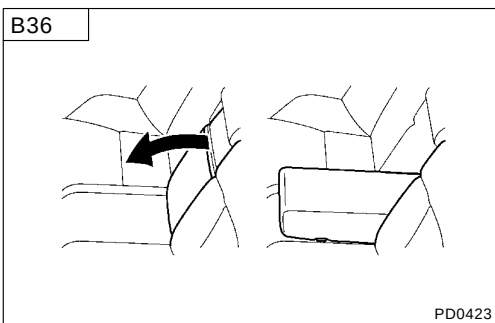
HINT:

When the power switch is selected in the "OFF" mode, the power rear sunshade can be operated for 60 seconds.



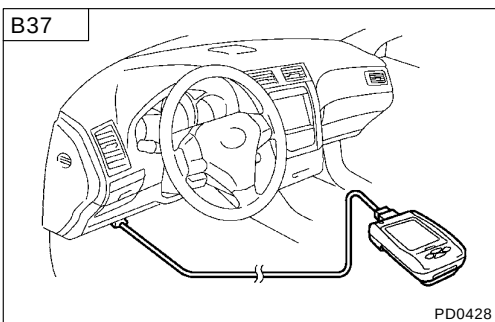
B35. FRONT DOOR POCKETS

Check that the front door pockets open and close smoothly.



B36. CENTER ARMREST

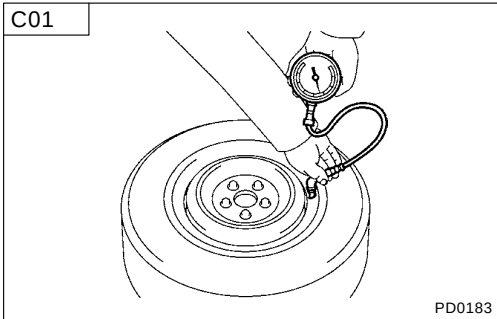
Check that the center armrest moves smoothly.



B37. ON-BOARD DIAGNOSTIC SYSTEM OPERATION

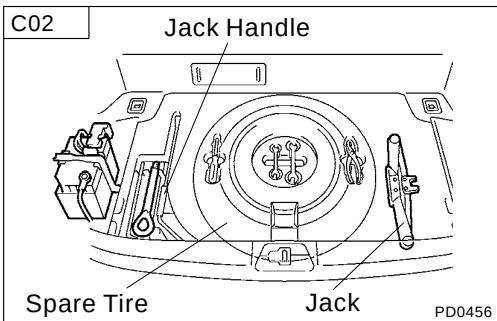
Using the intelligent tester, check the on-board diagnostic system function. For details of this procedure, refer to the Engine Troubleshooting section of the *Repair Manual*.

C. LUGGAGE COMPARTMENT



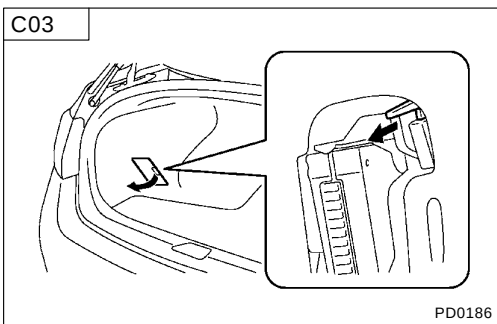
C01. SPARE TIRE PRESSURE

Check and adjust inflation pressure to specification. Air pressure for the spare tire should be 420 kPa (4.3 kgf/cm², 4.2 bar, 60 psi).



C02. SPARE TIRE AND COVER, TOOLS, JACK AND JACK HANDLE

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

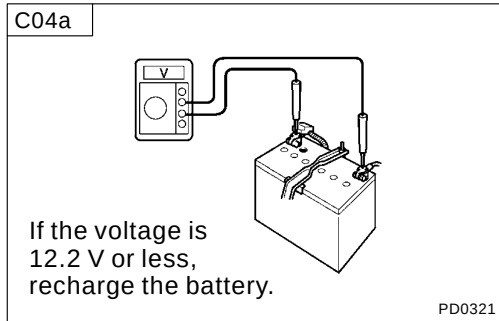


C03. MANUAL FUEL FILLER DOOR LEVER

Check for proper operation of the manual fuel filler door lever located in the luggage compartment.

C. LUGGAGE COMPARTMENT (Continued)

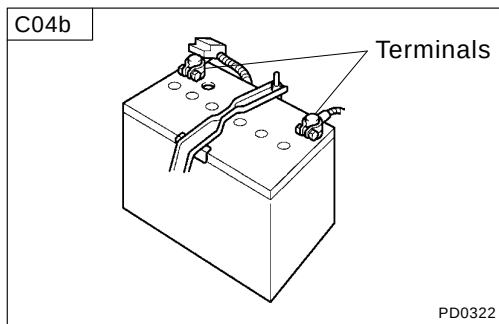
C04. AUXILIARY BATTERY (AND AUXILIARY BATTERY FOR ACTIVE STABILIZER*) TERMINAL TIGHTNESS AND CHARGE



- a) Check the battery charge. Measure the open-circuit battery voltage between the terminals. If the voltage reading is 12.2 volts or less, recharge the battery on low current of 5 amps or less.

HINT:

Before measuring the voltage, select the power switch in the "OFF" mode and turn off all electrical systems. Wait 60 seconds or more to remove the surface charge. If the hybrid system was running before measuring the voltage, wait 20 minutes or more after the hybrid system stops to remove the surface charge.



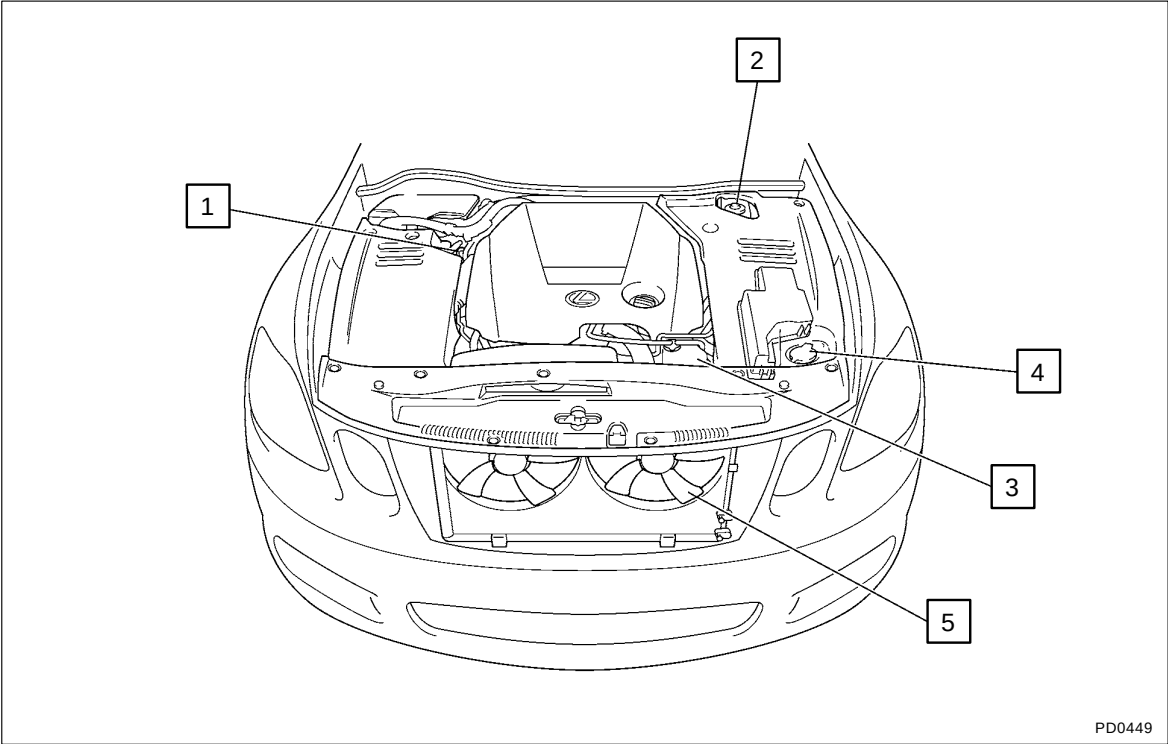
- b) Check that the battery terminals are properly connected and that the clamp is firmly installed.

C05. TRIM APPEARANCE AND DECK BOARD FIT

Inspect the luggage trim and deck board for proper installation and appearance.

*: Optional equipment

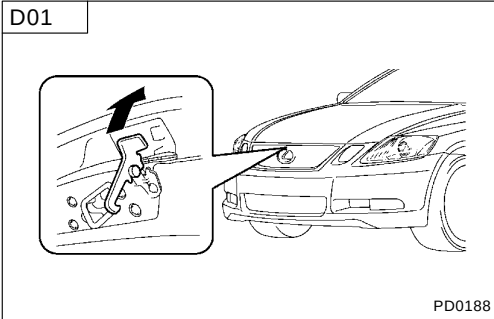
D. UNDER HOOD



		Page	Item No.		Page	Item No.	
1	Engine Oil Level Dipstick	51	D02	4	Windshield Washer Tank	52	D05
2	Brake Fluid Reservoir Tank	51	D03	5	Electric Cooling Fans	52	D08
3	Hybrid System Inverter and Engine Coolant Reservoir Tank . .	51	D04				

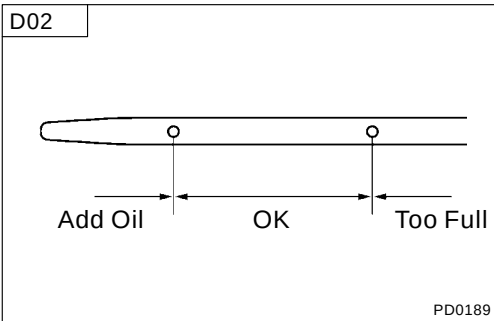
HINT:
Install protective fender covers prior to beginning the under hood inspection.

D. UNDER HOOD (Continued)



D01. ENGINE HOOD RELEASE LEVER

Check that the opening and closing of the hood is smooth and that the latch operates properly using the hood release lever.

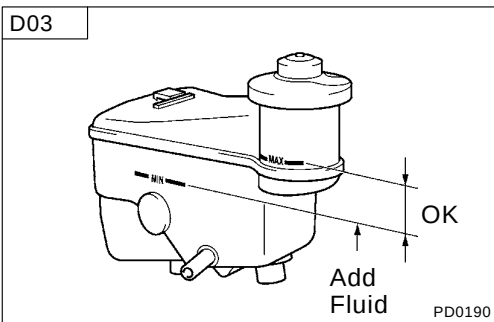


D02. ENGINE OIL LEVEL (HYBRID SYSTEM NOT RUNNING)

- Remove the engine oil 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.
- Check for dirt or impurities in the oil.

HINT:

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



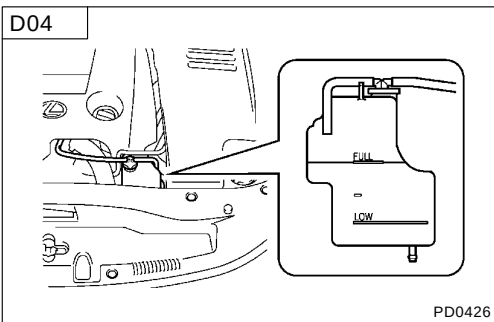
D03. BRAKE FLUID LEVEL

Visually check the fluid level through the reservoir. If 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 the "MAX" line (within 5 mm (0.2 in.) below).

HINT:

Refer to the *Repair Manual* for fluid specifications.

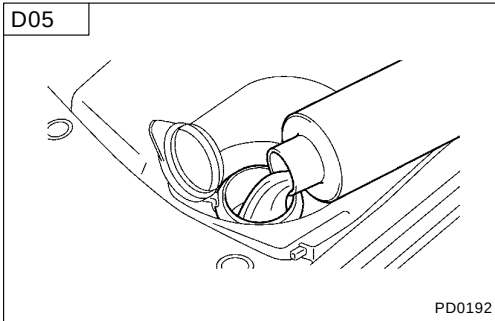


D04. HYBRID SYSTEM INVERTER AND ENGINE COOLANT LEVEL

Visually check the coolant level through the coolant reservoir tank when the hybrid system is cool. The coolant level is suitable if the level is between the "FULL" and "LOW" lines on the tank.

CAUTION:

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



D05. WASHER FLUID LEVEL

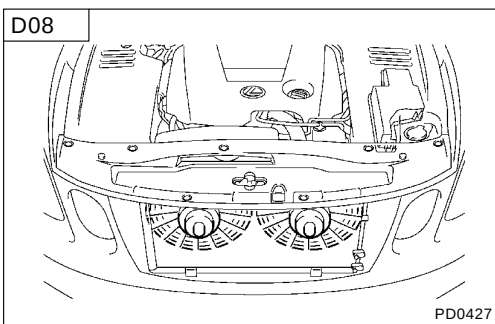
Open the washer tank cap and visually check the washer fluid level in the washer tank. The fluid level should be visible from top. Add fluid if necessary.

D06. 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.

D07. HYBRID SYSTEM OPERATION

Check that the hybrid system operates smoothly (no abnormal noise, engine vibration, rough idle, etc.).



D08. ELECTRIC COOLING FANS

- a) Check that the electric cooling fans rotate smoothly.
- b) With the air conditioning turned on and after sufficient pressure has built up, check that the electric cooling fans turn on and rotate smoothly.

HINT:

The electric cooling fans are controlled by engine coolant temperature and air conditioning refrigerant pressure. Do not touch the fans even if the fans stop.

D09. FLUID LEAKS

Check for fuel, oil, coolant or other fuel leaks around the following components:

- a) Engine (cylinder head and around the head cover)
- b) Transmission
- c) Brake lines and hoses
- d) Radiator and hoses
- e) Fuel lines and hoses

D10. ACTIVATION OF TIRE PRESSURE WARNING VALVE AND TRANSMITTER

Refer to the provided **Technical Service Information Bulletin**.

1. Using the intelligent tester, enter the TPWS test mode, and check that there are 5 to 6 test mode DTCs.

HINT:

If the test mode DTCs are not output, turn the tires 90 to 270 degrees. And then check that the test mode DTCs are output.

2. Adjust tire pressure to the specified level.

HINT:

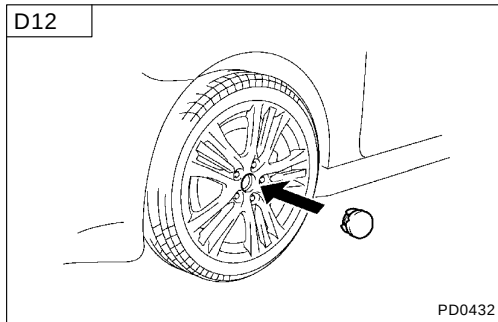
- If there is a great difference between the current temperature of the tire and wheel (for example: shop temperature) and expected temperature (outdoor temperature), this needs to be considered when adjusting the tire pressure.
- Adjust tire pressure when the tires are cold.

D. UNDER HOOD (Continued)

D11. TIRES

Visually inspect all tires for damage and/or defects.

If the wheels are replaced or refinished before vehicle delivery. Refer to the provided **Technical Service Information Bulletin**.



D12. WHEEL CENTER CAPS

Install the wheel center caps on the wheels.

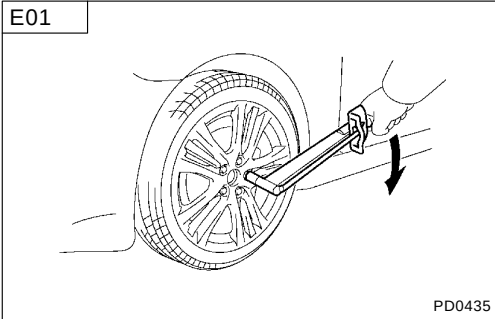
D13. HEADLIGHT AIM

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

D14. FRONT LICENSE PLATE BRACKET AND LICENSE PLATE

Refer to the provided **Technical Service Information Bulletin**.

E. UNDER VEHICLE (On Hoist)



E01. 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.

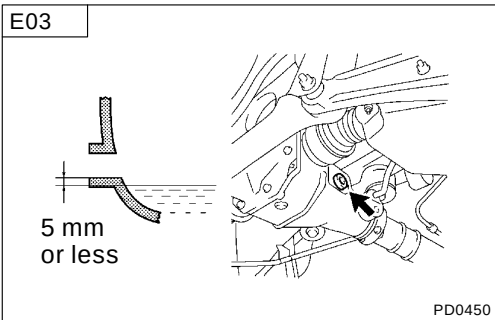
Torque specifications:
103 N·m (1050 kgf·cm, 76 ft·lbf)

E02. BRAKE ROTORS

Visually inspect rotors for rust.

HINT:

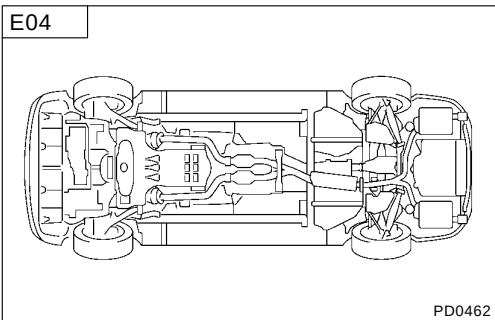
For the best rust prevention of the rotor, retain wheel film on vehicle until just prior to customer delivery.



E03. DIFFERENTIAL OIL

Inspect for leakage. If leakage is found, perform the required repairs.

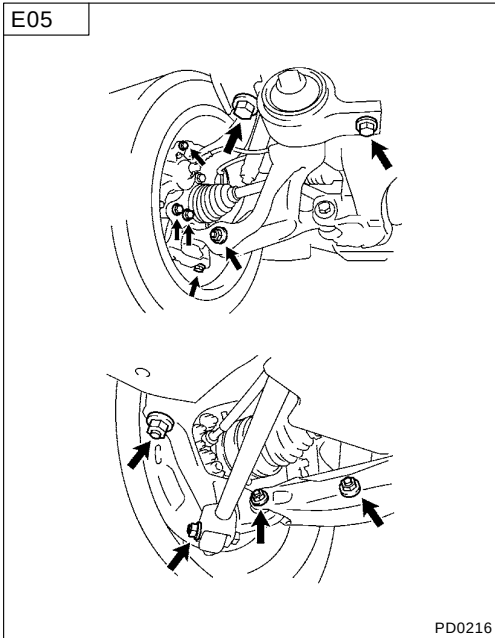
Use a 10 mm hexagon wrench to remove the filler plug and inspect the differential oil level, when refilling.



E04. CHASSIS INSPECTION FOR LEAKAGE OR DAMAGE

- Visually and by hand check the following components for 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
- Visually check the following components for fluid leakage:
 - Engine
 - Hybrid transmission
 - Brake lines
 - Fuel lines
 - Rear axle
- Visually check the entire underside of the body for proper rust-resistant coating.

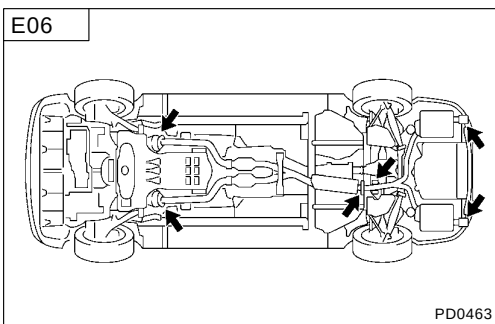
E. UNDER VEHICLE (On Hoist) (Continued)



E05. CHECK AND TIGHTEN ALL CHASSIS BOLTS OF COMPONENTS THAT ARE REPLACED DUE TO REPAIRS

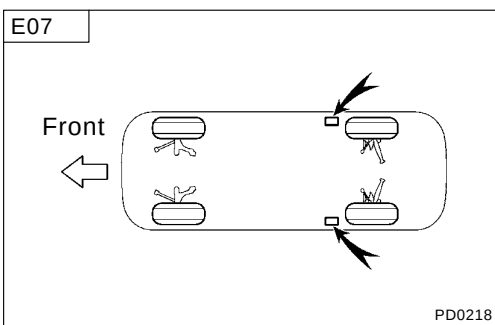
Check that all chassis bolts, nuts and suspension components are tight. See the *Repair Manual* for proper bolt torque specification.

- a) Front and rear suspension
- b) Steering linkages
- c) Propeller shaft
- d) Front/rear cross member
- e) Front/rear brakes
- f) Drive shaft



E06. EXHAUST SYSTEM

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



E07. RUBBER BODY PLUGS

Install the rubber body plugs into the torque box holes.

HINT:

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

E08. REMOVE FRONT WHEEL OPENING EXTENSION PAD PROTECTIVE COVERS

Refer to the provided *Technical Service Information Bulletin*.

F. ROAD TEST

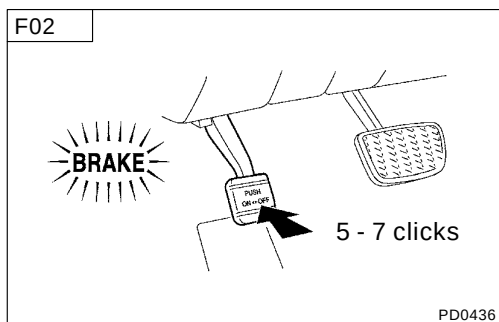
A comprehensive road test is vital to ensure that a perfect automobile is delivered to each Lexus customer. We recommend that you map out a specific road test course that includes a variety of road conditions including stop and go, highway speed and rough road surfaces. This will help you check for squeaks,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

HINT:

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

F01. HYBRID SYSTEM OPERATION WHILE DRIVING

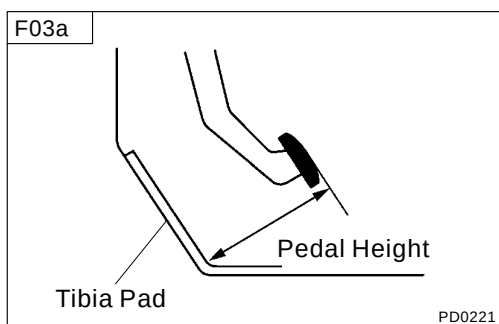
- Check hybrid system performance over a broad range of driving conditions including acceleration, cruising and deceleration.
- Make sure hybrid system operation is smooth and responsive.
- Make sure the gauges, speedometer and power meter operations are smooth and accurate.



F02. BRAKE AND PARKING BRAKE

- Check braking effort. Check for pull or any abnormal noise.
- Check the parking brake:
With the power switch "IG-ON" mode, check that the brake warning light comes on when the parking brake is applied (and goes off when it is released).

Parking brake pedal travel at 300 N (31 kgf, 68.3 lbf): 5 - 7 clicks

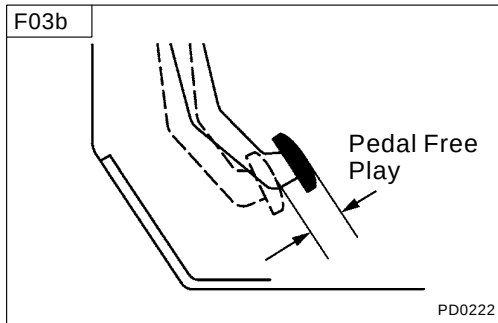


F03. CHECK BRAKE PEDAL HEIGHT, FREEPLAY, AND RESERVE DISTANCE IF PEDAL DOES NOT OPERATE CORRECTLY

- Check the brake pedal height.

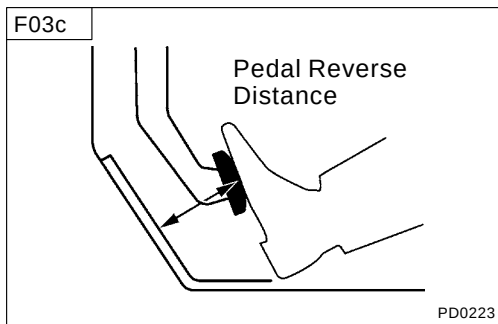
Pedal height from tibia pad:
120.5 - 130.5 mm (4.7 - 5.1 in.)

F. ROAD TEST (Continued)



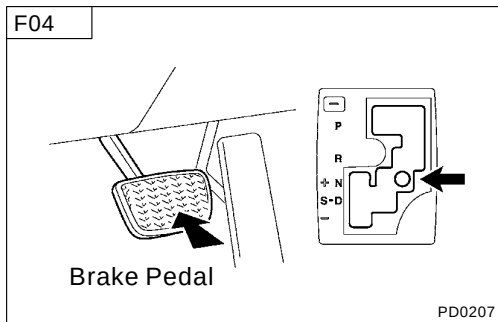
- b) Check the brake pedal free play.
Push in the pedal by hand and check that the pedal free play is within the specification.

Pedal free play: 1 - 2 mm (0.04 - 0.08 in.)



- c) Check brake pedal reserve distance.
Release the parking brake. With the hybrid system running, depress the brake pedal and measure the pedal reserve distance.

Pedal reserve distance from tibia pad at 490 N (50 kgf, 110 lbf): more than 73 mm (2.87 in.)



F04. HYBRID TRANSMISSION OPERATION

- a) Check that the hybrid system will not start if the selector lever is in any range except for "P" or "N".
- b) Check that the selector lever cannot be moved from the "P" position without depressing the brake pedal.
- c) Check for smooth selector lever operation when the selector lever position is in the "S".
- Check that the engine braking force decreases when the selector lever is operated toward "+".
 - Check that the engine braking force increases when the selector lever is operated toward "-".
 - Check that figure displayed on the indicator in the combination meter changes when the selector lever is operated toward "+" or "-".

F05. INITIALIZATION OF VGRS SYSTEM

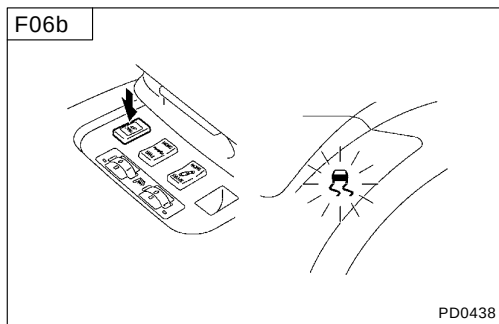
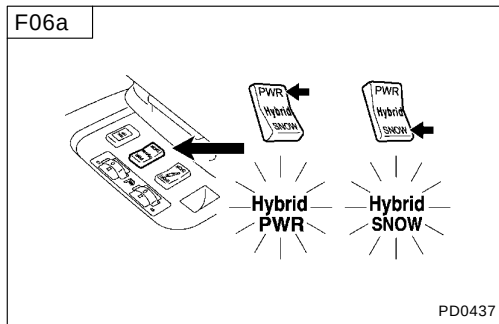
Refer to the provided **Technical Service Information Bulletin**.

F06. HYBRID MODE SELECT AND TRAC

Check that the indicator lights come on when the switches are selected.

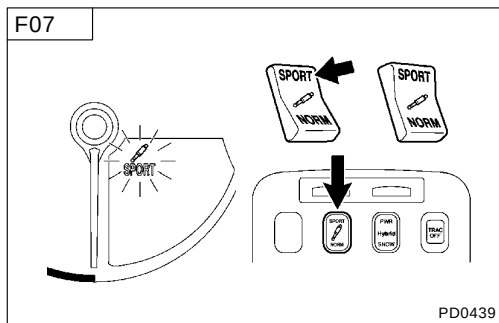
a) Hybrid Mode Select

- The “Hybrid PWR” indicator light will illuminate when the “PWR” mode is selected.
- The “Hybrid SNOW” indicator light will illuminate when the “SNOW” mode is selected.



b) Traction Control System (TRAC)

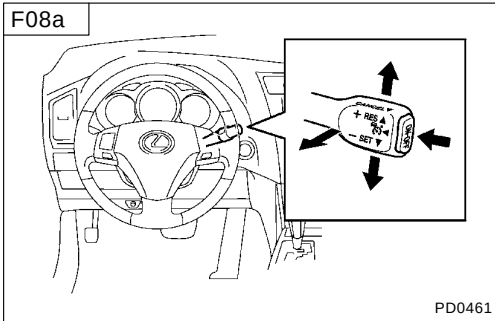
Turn off the traction control system by pushing the “TRAC OFF” switch and check that the “TRAC OFF” indicator light illuminates.



F07. ADAPTIVE VARIABLE SUSPENSION SYSTEM

Damping Mode Select Control

- The “SPORT” indicator light will illuminate when the “SPORT” mode is selected.
- The indicator light will go off when the “NORM” mode is selected.



F08. CRUISE CONTROL

- a) Check the cruise control functions:
 - ON-OFF
 - SET/COAST
 - RES/ACC
 - CANCEL
- b) Check that the preset speed is canceled by:
 - Depressing the brake pedal
 - Shifting the selector lever to "N" (neutral) or 3, 2, or 1 range of "S".
 - Using cancel switch and "OFF" button

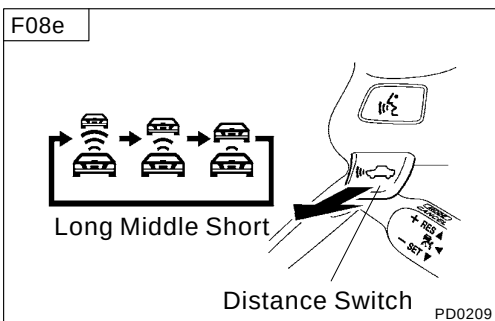
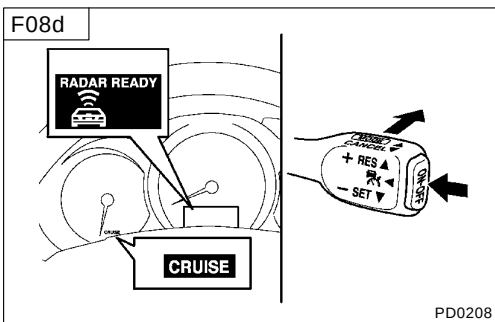
For details regarding the operation of the cruise control, refer to the *Owner's Manual*.

For Vehicle with Dynamic Radar Cruise Control System*

- c) Push the main switch and check that the "CRUISE" indicator in the instrument cluster comes on and "RADAR READY" appears on the multi-information display. (Vehicle to vehicle distance control mode)
- d) Check that cruise control mode is changed between vehicle to vehicle distance control mode and conventional (fixed speed) control mode by pushing the cruise control lever for longer than about 1 second. (No indication in the fixed speed control mode)
- e) Check that the vehicle to vehicle distance setting is changed from "Long" to "Middle" to "Short" and then back to "Long" by pulling the distance switch on the steering wheel.

HINT:

Always keep the radar sensor glass clean.



*: Optional equipment

F09. 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.

HINT:

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

F10. ABNORMAL NOISE OR VIBRATION

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

- a) Wind noise
- b) Power train (engine, hybrid transmission, differential, propeller shaft)
- c) Road noise (tires)
- d) Others

F11. SQUEAKS AND RATTLES

Check for squeaks and rattles in the following:

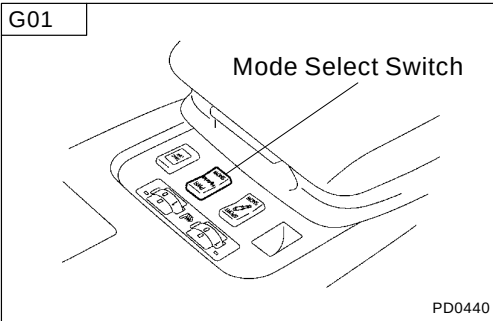
- a) Instrument panel
- b) Doors
- c) Trim
- d) Body
- e) Others

F12. INITIAL CALIBRATION OF COMPASS

Refer to the provided *Technical Service Information Bulletin*.

G. FINAL INSPECTION

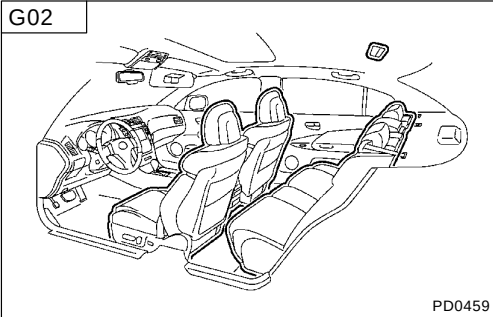
G01



G01. SET MODE SELECT SWITCH

Set the mode select switch to the "NORMAL" mode to provide the customer the best driving conditions.

G02



G02. 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, rear vanity lights 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.

HINT:

If the interior color is light white for some vehicle, plastic cover will be set for front, center and roof side garnish.

G03a

LEXUS GS 450h PRE-DELIVERY SERVICE (PDS) CHECK SHEET		1 of 2
• Use the PDS Manual when performing this service. Download manual from TIS or Dealer Daily or order from MDC 00242-PDSGS-4HMANR. • Check the Technical Information System (TIS) for PDS Technical Service Information Bulletins (TSIBs) that apply to the model you are servicing. • Verify the Vehicle Identification Number (VIN) on repair order and vehicle match. (1) Do not touch orange high-voltage wiring (See Hybrid System Electrical Safety Precautions p. 2, also see TSIB).		
Check, diagnosis, damage through process 1. Prepare tools & supplies (p. 2) 2. Full vehicle inspection (p. 2) 3. Engine Compartment (p. 2) 4. Service accessories and keep cover sheet on installation, if needed (see TSIB) 5. Engine room (engine not running), oil/dipstick 6. Fuel tank cover, cap 7. Engine coolant level, visual 8. Add fluid to level/dipstick within 2" of cap 9. Add water reservoir with fan sensor 10. Remote check for fluid leaks 11. General wiring - check visually for damage 12. Remote check for fuse damage 13. Remote check for fuse damage 14. Remote check for fuse damage 15. Remote check for fuse damage 16. Remote check for fuse damage 17. Remote check for fuse damage 18. Remote check for fuse damage 19. Remote check for fuse damage 20. Remote check for fuse damage 21. Remote check for fuse damage 22. Remote check for fuse damage 23. Remote check for fuse damage 24. Remote check for fuse damage 25. Remote check for fuse damage 26. Remote check for fuse damage 27. 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G03. 1. ATTACH THE FOLLOWING PRINTOUTS TO THE PDS CHECK SHEET:

- TIRE PRESSURE PRINTOUT
- 12-V BATTERY PRINTOUT
- ECU HEALTH CHECK PRINTOUT

See back of PDS Check Sheet for printout examples.

2. COMPLETE AND SIGN THE PDS CHECK SHEET, AND FILE WITH THE PDS REPAIR ORDER

3. SUBMIT PRODUCT TECHNICAL REPORTS REGARDING QUALITY ISSUES AS APPLICABLE

G. FINAL INSPECTION (Continued)

G03b
LEXUS GS 450h PRE-DELIVERY SERVICE (PDS) 2 of 2

HYBRID SYSTEM ELECTRICAL SAFETY PRECAUTIONS (Also see TSB)

- Do not touch the orange high-voltage wiring and connectors (288V-650Vdc).
- The gasoline engine may start suddenly whenever the "READY" light is on. Before working under the hood, set the transmission selector lever in "P", apply the parking brake, and set the power switch to "OFF" ("READY" light will stop the hybrid system).
- The hybrid transmission, 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 transmission selector lever 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 running.
- When leaving the vehicle, put the selector lever in "P", apply the parking brake, and press the power switch to the "OFF" mode in order to stop the hybrid system (the "READY" light goes OFF).
- Air vents are located on the package tray to cool the hybrid vehicle battery. Do not block these air vents.
- Do not splash water on the electric components in the engine compartment.

LEXUS DAMAGE PREVENTION STANDARDS

HDC Supplies (800-422-2033)

Fender Cover	00042 L8817-2832
Non-scratch Mat (28" x 36")	00042 L8817-3438
Non-scratch Mat (40" x 44")	00042 L8817-4044
Non-scratch Mat (46" x 50")	00042 L8817-4650
Brake Tape	00042 IN623P
Wash Cover	00042 IN014COVER

TIRE PRESSURE

See tire info label

TPMS SWITCH

BATTERY CHARGE PRINTOUT - ATTACH

TECHSTREAM TIRE PRESSURE PRINTOUT - ATTACH

TECHSTREAM HEALTH CHECK PRINTOUT - ATTACH

COMPASS INITIALIZATION MAGNETIC ZONES

TOOLS AND SUPPLIES

- Technician Diagnostic Tester
- Power port checker
- Qualifier pressure gauge
- 10mm socket wrench, Torx drill
- Bumper plate (new & broken)
- Non-metallic fuse tool
- Flashlight with fresh batteries
- Clear gloves, clean shoes, eyeglasses, scratchless belt
- Clearings fender covers
- Wet/dry vacuum
- Washer fluid, water (rain-sparing wiper check)
- CD (for checking audio system)
- Convex mirror - use dealer mirror to check brake & reverse light
- If 2nd technician not available
- Best road rough road not available

WORK FLOW

G04

Vehicle Delivery Certificate

Vehicle Identification Number: _____

We certify that taking delivery of your new Lexus vehicle will be exceptional. You can expect the following experiences:

Your vehicle and vehicle features will be fully operational.

The Dealer Service Department Pre-delivery Service involves a complete inspection of the vehicle:

- Inspected Vehicle Exterior and Functional Items
- Inspected Vehicle Interior and Functional Items
- Inspected Under Hood, Fluid Levels and Functional Items
- Inspected Luggage/Carpet Compartment Items
- Road Tested to Confirm Vehicle Operates as Designed

All Lexus Customer Care Programs will be explained:

- Complimentary 30 Days or 1000 Miles First Scheduled Maintenance Service with Lexus Personalized Settings Adjustment
- Complimentary Six Months or 5000 Miles Second Scheduled Maintenance Service with Engine Oil and Filter Change, Tire Rotation
- Warranty Schedules
- Lexus Roadside Assistance

The interior and exterior of your vehicle will be clean and your vehicle will have a full tank of recommended premium-grade fuel.

Cleaning and caring for the exterior and interior of your vehicle will be explained.

You will be introduced to a representative of the Service & Parts Department.

Feature operation will be explained and demonstrated, including:

Keys and Locks	1-Touch Power Windows	Fuel Door Release, Fuel Cap
Seat and Mirror Adjustments	Audio System	(Premium-Grade Fuel)
Exterior and Interior Lights	Cruise Control	
Climate Control	Windshield Wipers	

If equipped, the operation of these additional features will be explained and demonstrated:

- ☐ Bluetooth® Phone operation, if available and compatible, per customer's Bluetooth® phone to vehicle
- ☐ Lexus Navigation System guidance, set location nearby customer home as "Home"
- ☐ Satellite Radio operation, turn on, view music types, channels, set presets
- ☐ Park Assist System / Back-up Camera
- ☐ Advanced Parking Guidance System (LSS)
- ☐ Electronic Parking Brake with Brake Hold (LS)
- ☐ Rear Seat Entertainment System
- ☐ 1-Touch Power Moonroof
- ☐ Lexus Hybrid Drive System (Hybrid Overview booklet p. 1 and 2)
- ☐ Lexus Link® (GS, LS, GX, LX)

Dealership Service Representative _____

Dealership Name _____

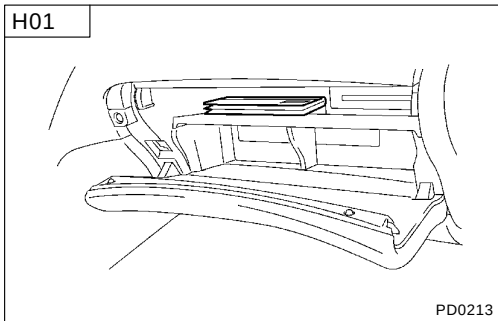
Dealership Sales Representative _____

Date _____

G04. SIGN THE VEHICLE DELIVERY CERTIFICATE

Remove Vehicle Delivery Certificate and VIN number sticker sheet from glovebox. Peel VIN number sticker off sticker sheet and apply to "Vehicle Identification Number" line at inside top of certificate. The person performing PDS is required to sign their name over "Dealership Service Representative" line and return certificate and VIN sticker sheet to glovebox.

H. TWO HOURS BEFORE DELIVERY



H01. OWNER'S PUBLICATIONS

- a) Place the Quick Guide booklet in the glovebox. If the vehicle is equipped with Navigation, also place technology Quick Guide booklet with disc in glovebox.
- b) Check that the Owner's Manual Portfolio contains the Owner's Manual(s) and place in the vehicle trunk.
- c) Check that the airbag information label is affixed on the glove box door and is visible with the glovebox closed.

IV. MAINTENANCE FOR HV BATTERY AND AUXILIARY BATTERY

Refer to the appropriate
Technical Service Information Bulletin.

