

# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

### 1. Pre-delivery Inspection

#### A: GENERAL DESCRIPTION

The purposes of the pre-delivery inspection (PDI) are as follows.

- Remove the additional parts used for ensuring the vehicle quality during transportation.
- Check the vehicle or parts before delivery for any damage occurred during transportation or storage.
- Check that the vehicle after repair does not have any problems.
- Make sure to provide a complete vehicle to customer.

For above reasons, SOA service centers must carry out the PDIs before delivery of vehicle.

Besides, all SOA service center and PDI center check the condition of all vehicles to make sure to take responsibility.

#### B: PRE-DELIVERY INSPECTION (PDI) PROCEDURE

Perform the procedures indicated in the table below.

##### Static checks just after vehicle receipt

Item	Check point
1. Appearance	1. If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents. If the protective coating has been removed, visually check the painted body surfaces in detail for damage or rust. 2. Visually check the glass and light lenses for any damage, cracks or excessive gaps between body sheet metal. 3. Visually check the plated parts for any damage. 4. Check the instrument panel, console and trim for stains or dirt.
2. Tire	1. Check the tires for damage, defective, and dents on wheels. 2. Check the tire air pressure.
3. Fuse installation	If the vehicle is about to be delivered to customer, attach a back-up fuse.
4. Door lock/unlock and open/close operations	1. Using the key, check the door can be locked or unlocked normally. 2. Open and close all doors to check that there are no problems. 3. Operate the power door lock switch to check that all doors and the rear gate lock and unlock normally.
5. Child safety lock	Check the child safety lock system operates normally.
6. Trunk lid open/close operations	1. Operate the trunk lock release lever to check that the trunk lid opens normally. 2. Open and close the trunk lid to check that there are no problems.
7. Rear gate lock/unlock and open/close operation	1. Check if the rear gate can be unlocked normally through the emergency hole. 2. Open and close the rear gate to check that there are no problems. 3. Operate the power door lock switch to check that all doors and the rear gate lock and unlock normally.
8. Operation check of trunk lid release lever	Operate the trunk lid release lever to check that the trunk lock is unlocked normally.
9. Fuel lid opener lock release lever	Operate the fuel lid opener to check that the fuel filler lid can be unlocked normally.
10. Towing hook (eyebolt)	At factory shipment, the towing hook (eyebolt) is installed to the rear bumper. Remove the towing hook (eyebolt), store it in the holder.
11. Accessory	Check that the following accessories are equipped. <ul style="list-style-type: none"><li>• Owner's manual</li><li>• Warranty booklet</li><li>• Maintenance note</li><li>• Spare key</li><li>• Key No. plate</li><li>• Jack</li><li>• Tool set</li><li>• Spare tire or puncture repair kit</li><li>• Towing hook</li></ul>
12. Front hood lock release	Operate the front hood lock release lever to check that the front hood opens normally.
13. 12 V battery	Check the battery for any abnormal conditions such as rust or traces of battery fluid leaks. (Including 12 volt auxiliary battery and 12 volt engine restart battery)
14. High voltage battery air intake	Check that no dirt or fluid is adhered or mixed in.

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Item	Check point
15. Brake fluid	Check the brake fluid amount.
16. Engine oil	Check the engine oil amount.
17. Transmission gear oil	Check that the transmission gear oil level is normal.
18. CVTF	Check for leakage of CVTF.
19. CVT front differential oil	Check for leakage of CVT front differential oil.
20. Rear differential gear oil	Check for leakage of gear oil from the rear differential.
21. Engine coolant	Check the engine coolant level.
22. Clutch fluid	Check the clutch fluid amount.
23. Window washer fluid	Check the window washer fluid amount.
24. Front hood latch	Check that the front hood is closed normally and locked securely.
25. Keyless entry system	Check that the keyless entry system operates normally.
26. Keyless access	Check that the keyless access function operates normally.
27. Security system	Check that the security system operates normally.
28. Seat	1. Check the seat surfaces for stains or dirt. 2. Check the seat installation conditions and functionality.
29. Seat belt	Check the seat belt installation conditions and functionality.
30. TPMS (U.S. model)	If the display of TPMS warning light does not operate normally, perform the diagnosis by referring to TPMS (Diagnosis).

### Checks with the engine running

Item	Check point
31. Grommet installation	Install the grommet on the rear seat to the tie-down hole. (When equipped)
32. Delivery (test) mode	Turn the ignition switch to ON and check that the malfunction indicator light starts blinking.
33. Immobilizer system	1. Check that the engine starts with all keys that are equipped on vehicle. 2. Check that the security indicator light operates normally.
34. Push button start	Using the access key that is equipped on vehicle, operate the push button start function to check engine start and stop operations.
35. Starting condition	Start the engine and check that the engine starts smoothly.
36. Exhaust system	Check that the exhaust noise is normal and no leaks are found.
37. Indicator and warning lights	Check that all indicator lights and warning lights are operating correctly.
38. Heater & ventilation	Check that the heater & ventilation system operates normally.
39. Air conditioner	Check that the air conditioner operates normally.
40. Multi-function display (MFD)	Check that the Multi-Function Display (MFD) function operates normally.
41. Audio	Check the radio and AUX operate normally.
42. Navigation	Check the navigation and AUX operate normally.
43. Accessory power supply socket	Check that the accessory power supply socket operates normally.
44. Lighting system	Check that the lighting system operates normally.
45. Illumination control	Check that the illumination control operates normally.
46. Window washer system	Check that the window washer system operates normally.
47. Wiper system	Check that the wiper system operates normally.
48. Wiper deicer	Check that the wiper deicer operates normally.
49. Power window	Check that the power window operates normally.
50. Sunroof	Check that the sunroof operates normally.
51. Rear defogger system	Check that the rear defogger system operates normally.
52. Door mirror	Check that the remote control mirror and heated mirror operate normally.
53. Diagnostic trouble code (DTC) check	Check that the diagnostic trouble code (DTC) is not detected.

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### Dynamic test with the vehicle running

Item	Check point
54. Brake test	Check the foot brake for normal operations.
55. Parking brake	Check the parking brake for normal operations.
56. Shift control	Check that the shift patterns are correct.
57. Cruise control	Check that the cruise control system operates normally.
58. Subaru EyeSight	Check that the Subaru EyeSight operates normally.
59. Hybrid system	Check that the hybrid system operates normally.
60. EV mode lamp	Check that the EV mode lamp operates normally.

### Checks after dynamic test

Item	Check point
61. Power steering system (electric power steering model)	Check the steering warning light operation.
62. Fluid leakage	Check for fluid/oil leaks.
63. Water leak test	Spray the vehicle with water and check for water leaks.
64. Appearance 2	1. Remove the protective coating (if equipped). 2. Check the body paints for damage and stain. 3. Check the plated parts for damage and rust.

### 1. APPEARANCE

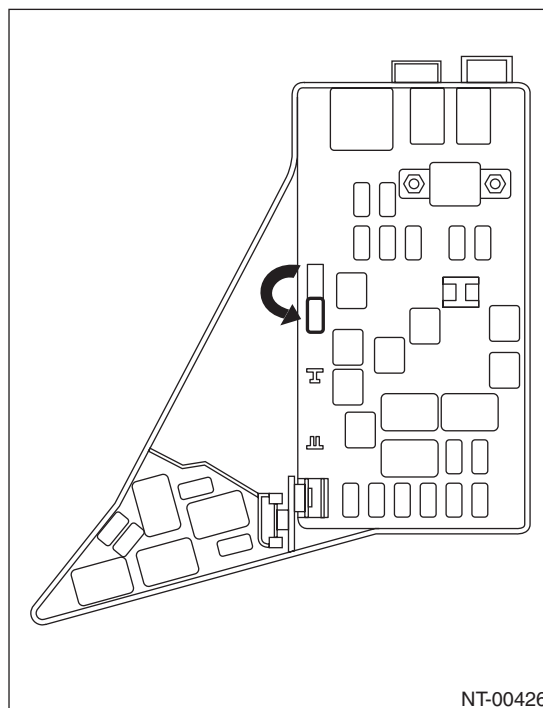
- If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents.
- When there is no protective coating, check the body paints for damage or stains in detail and repair as necessary.
- Check the window glass, door glass, and lights for any cracks or damage, and replace as necessary.
- Visually check the plated parts, such as the grilles and door knobs, for damage or loss of gloss and replace the parts as necessary.
- Check the instrument panel, console and trim for stains or dirt.
- Check the keyless key and access key for dirt, and wipe off if necessary.

### 2. TIRE

- Check the tires for damage, defective, and dents on wheels.
- Check the tire size, spare tire and tire air pressure described on the tire air pressure label (driver's side).

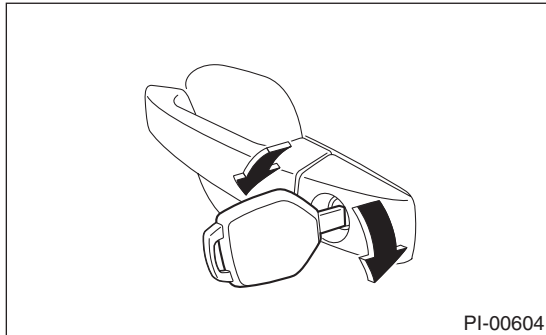
### 3. FUSE INSTALLATION

Fuses for the back-up circuit on initially delivered vehicles are removed to prevent battery discharge. Attach the 20 A fuse as shown in the figure.

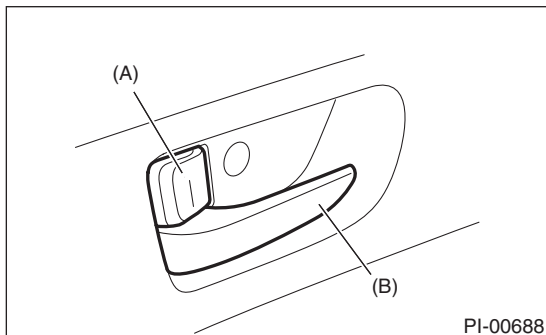


## 4. LOCK/UNLOCK AND OPEN/CLOSE OPERATION CHECKS OF DOORS

1) Using the key, lock and unlock the door several times to check for normal operation. Open and close the door several times for smooth movement.

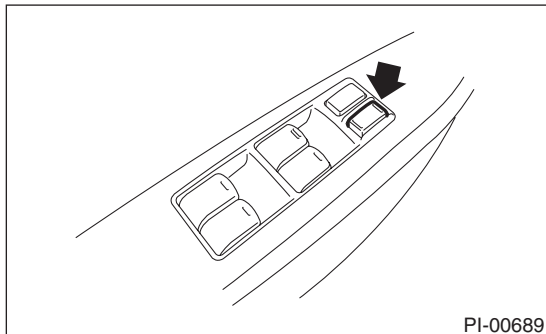


2) Completely close the driver's door, and then check the smooth movement with operating door lock knob from lock to unlock several times. Set the door lock knob (A) to lock position. Then pull the inner remote (B) to ensure that doors will not open. For other doors, place the door lock knob (A) to lock position and then pull the inner remote (B) to ensure that doors will not open.

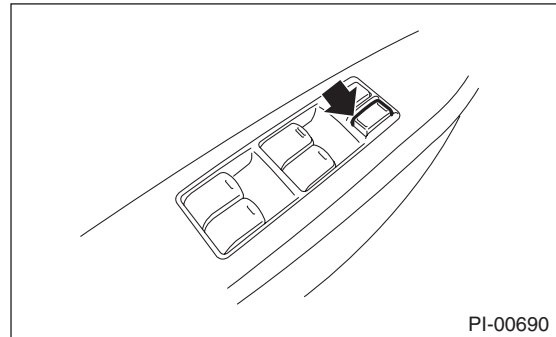


- (A) Door lock knob
- (B) Inner remote

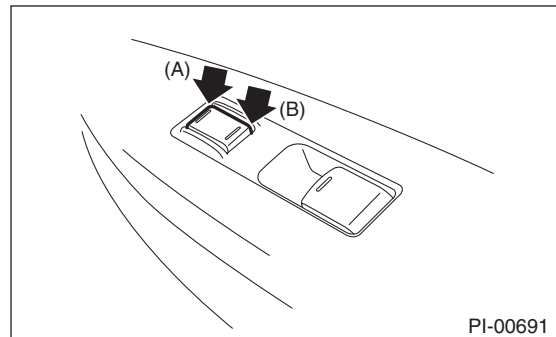
3) Close all the doors, and then press the lock on power door lock switch at driver's side. Check that all doors (including the rear gate) lock.



4) Press the driver's side power door lock switch to unlock side. Check that all doors including rear gate are unlocked.



5) Check that the passenger's power door lock switch locks and unlocks normally in the same manner.



- (A) Lock
- (B) Unlock

6) Insert the key to ignition switch, and open the driver's side door. Press lock on power door lock. Check that the door is not locked.

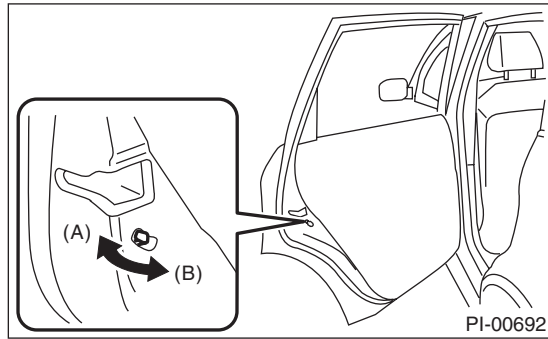
## 5. CHILD SAFETY LOCK

- 1) Set the child safety lock lever on both rear doors to the lock position.
- 2) Close the rear doors completely.
- 3) Check that the lock levers of the rear doors are in the unlock position. Then, pull inner remote of rear doors to ensure that doors will not open.

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- 4) Pull the outer handles to ensure that doors will open.



- (A) Unlock  
(B) Lock

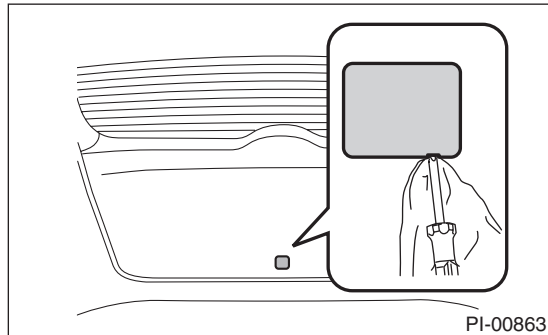
### 6. TRUNK LID OPEN/CLOSE OPERATIONS

- 1) Operate the trunk lock release lever to check that the trunk lid opens.  
2) Open and close the trunk lid several times for smooth movement.

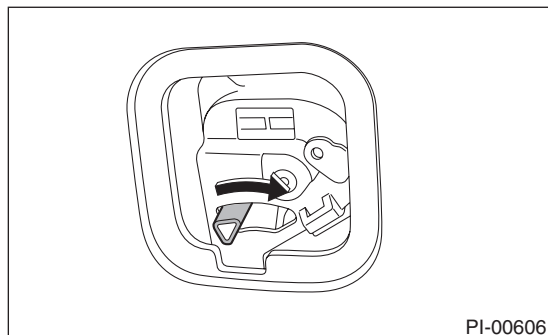
### 7. REAR GATE LOCK/UNLOCK AND OPEN/CLOSE OPERATIONS

- 1) Open and close the rear gate several times for smooth movement.  
2) Operate the rear gate emergency release lever to check that the rear gate can be locked and unlocked properly.

- (1) Remove the cover inside the rear gate.



- (2) Operate the lever using a tool such as a screwdriver to check that the rear gate is unlocked normally.

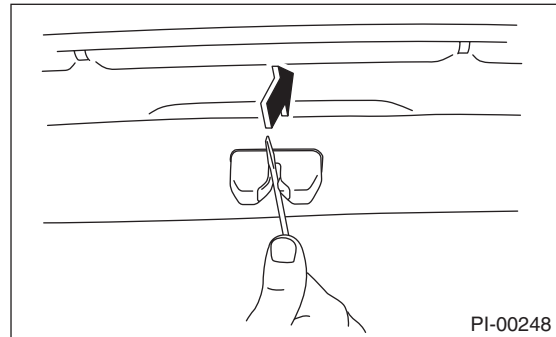


### 8. OPERATION CHECK OF TRUNK LID RELEASE HANDLE

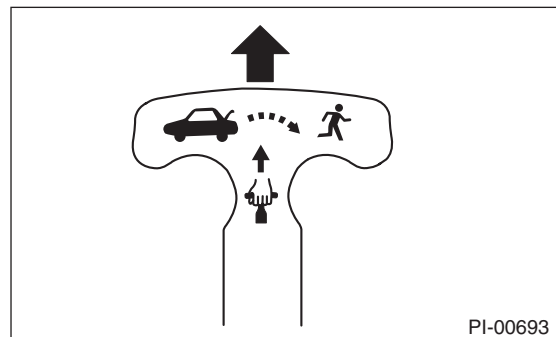
#### CAUTION:

**Do not check the trunk lid release handle when in the trunk. If the trunk lid release handle is defective, you may be trapped in.**

- 1) Use a flat tip screwdriver. Slide the screwdriver blade from the slit aperture of the lock assembly fully to the end until you hear a click. This places the latch in the locked position.



- 2) Make sure the latch is released by pulling the yellow trunk lid release handle in the direction of arrow.



### 9. FUEL LID OPENER LOCK RELEASE LEVER

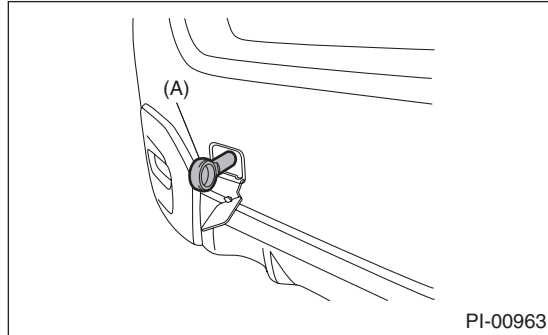
Operate the fuel lid lock release lever to check that the fuel lid is unlocked normally. Check that the filler cap is securely closed.

## 10.TOWING HOOK (EYEBOLT)

### NOTE:

At factory shipment, the towing hook (eyebolt) is installed to the rear bumper for securing the vehicle during transportation. Follow the procedure below to store it to the holder in the spare tire or sub-trunk.

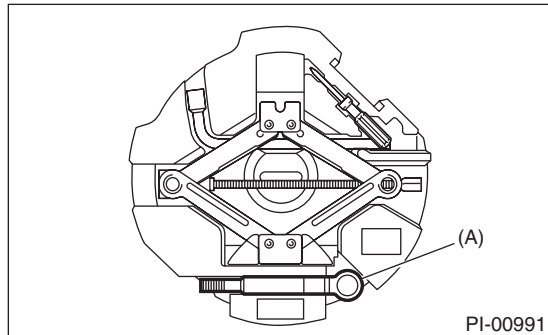
1) Remove the towing hook (eyebolt) from the rear bumper.



(A) Towing hook (eyebolt)

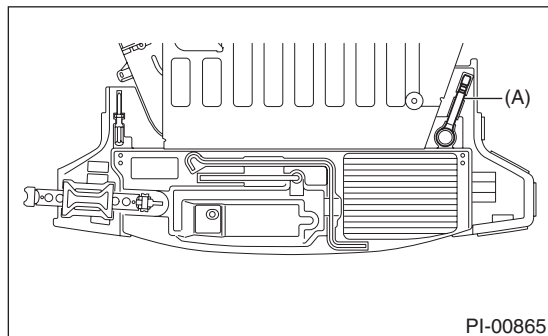
2) Store the towing hook (eyebolt) to the holder in the spare tire or sub-trunk.

Gasoline engine model



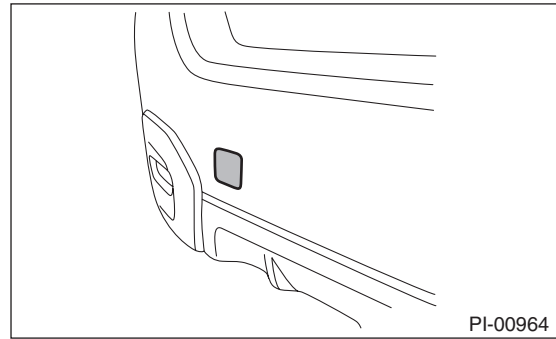
(A) Towing hook (eyebolt)

HEV model



(A) Towing hook (eyebolt)

3) Install the supplied rear hook cover to rear bumper.

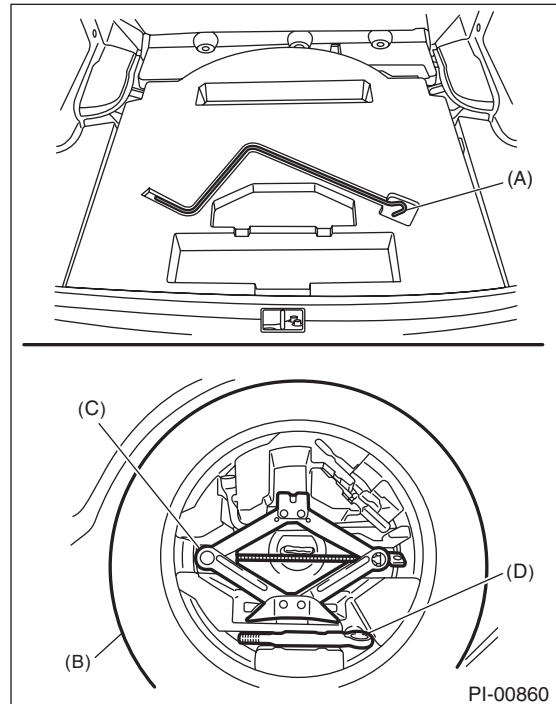


## 11.ACCESSORY

Check that the following accessories are provided.

- Owner's manual
- Warranty booklet
- Maintenance note
- Spare key
- Key No. plate
- Jack
- Tool set
- Spare tire or puncture repair kit
- Towing hook (eyebolt)

4 door

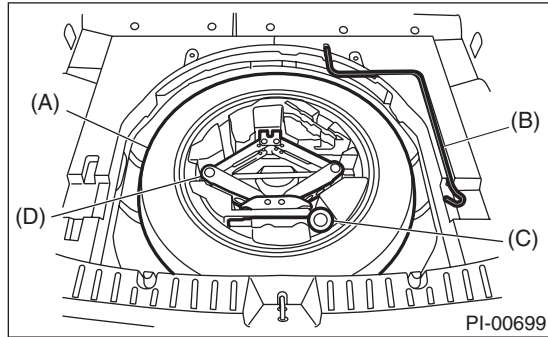


- (A) Jack handle
- (B) Spare tire
- (C) Jack
- (D) Towing hook (eyebolt)

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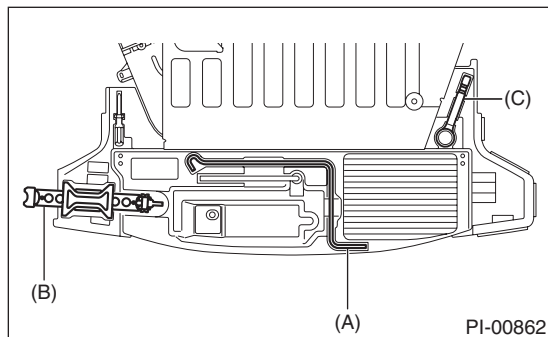
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### 5 door

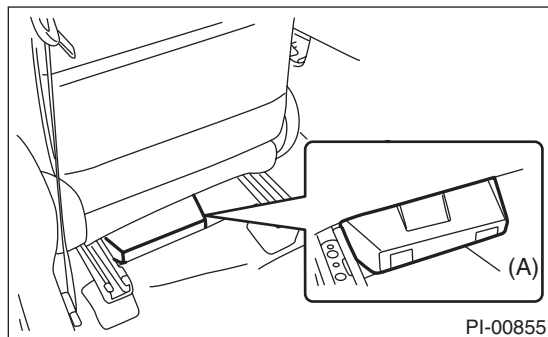


- (A) Spare tire
- (B) Jack handle
- (C) Towing hook (eyebolt)
- (D) Jack

### 5 door (HEV)



- (A) Jack handle
- (B) Jack
- (C) Towing hook (eyebolt)



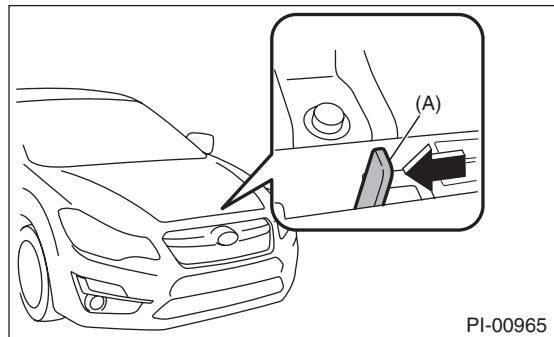
- (A) Puncture repair kit (beneath driver's seat)

## 12.FRONT HOOD LOCK RELEASE

Operate the front hood release lever to check that the front hood is unlocked normally.

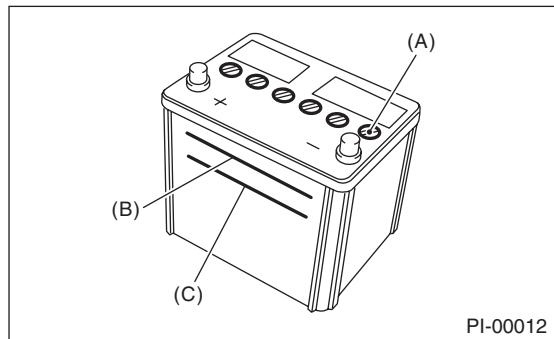


Operate the lever (A) and check that the front hood is opened normally.



## 13.BATTERY

Check the battery terminals to make sure that there are no rust or corruptions due to fluid leaks. Check that the battery caps are securely tightened. (Including 12 volt auxiliary battery and 12 volt engine restart battery)



- (A) Cap
- (B) Upper level
- (C) Lower level

**14.HIGH VOLTAGE BATTERY AIR INTAKE**

Check that no dirt or fluid is adhered or mixed in.

**15.BRAKE FLUID**

Check the brake fluid amount. If the amount is insufficient, carry out a brake line test to identify brake fluid leaks and check the brake operation. After that, refill the brake fluid tank with the specified type of fluid.

**CAUTION:**

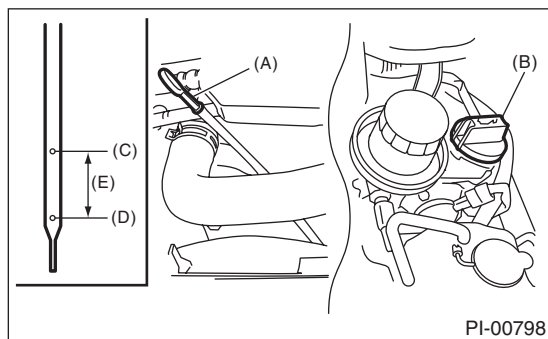
**If the brake fluid is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.**

**16.ENGINE OIL**

- 1) Park the vehicle on a level surface.
- 2) Remove the oil level gauge and wipe away the oil.
- 3) Reinsert the oil level gauge all the way. Be sure that the oil level gauge is correctly inserted and properly orientated.
- 4) Pull out the oil level gauge again, and check both sides of the oil level gauge. Use a lower side to determine the engine oil level. If the engine oil level is below "L" line, add oil to bring the level up to "F" line.
- 5) Start the engine, and spread the oil in engine room.
- 6) After turning off the engine, wait a few minutes for the oil to return to the oil pan before checking the oil level.

**NOTE:**

To prevent overfilling of engine oil, do not add oil above "F" line when the engine is cold.



PI-00798

- (A) Engine oil level gauge
- (B) Engine oil filler cap
- (C) "F" line
- (D) "L" line
- (E) Approx. 1 L (1.1 US qt, 0.9 Imp qt)

**17.TRANSMISSION GEAR OIL**

Check the transmission gear oil amount. If the amount of gear oil is insufficient, check for leaks. Then, add the necessary amount of the specified gear oil. Refer to "5MT" section for transmission gear oil inspection. <Ref. to 5MT-21, INSPECTION, Transmission Gear Oil.>

**18.CVTF**

Check for leakage of CVTF.

**CAUTION:**

**If the CVTF is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.**

**19.CVT FRONT DIFFERENTIAL OIL**

Check for leakage of CVT front differential gear oil.

**CAUTION:**

**If gear oil is spilt over the exhaust pipe, wipe it off with a cloth to avoid emitting smoke or causing a fire.**

**20.REAR DIFFERENTIAL GEAR OIL**

Check for leakage of gear oil from the rear differential.

**CAUTION:**

**If the rear differential gear oil is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.**

**21.ENGINE COOLANT**

Check the coolant amount on the reservoir. If the amount of engine coolant is insufficient, check that no leaks are found. Then, add the necessary amount of coolant with the specified concentration.

**CAUTION:**

**If the coolant is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.**

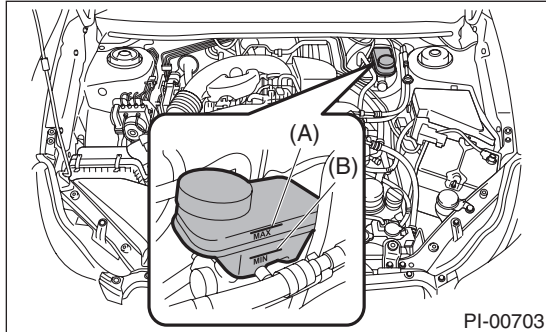


### 22.CLUTCH FLUID

Check the clutch fluid amount. If the amount of fluid is insufficient, check that no leaks are found. Then, add the necessary amount of specified fluid.

#### CAUTION:

**If any clutch fluid is spilt on the exhaust pipe, wipe it off with a cloth to avoid emitting smoke or causing a fire.**



(A) MAX. level

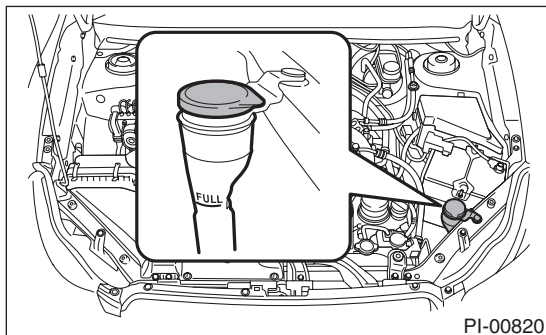
(B) MIN. level

### 23.WINDOW WASHER FLUID

Check the window washer fluid amount. If the amount of washer fluid is insufficient, check that no leaks are found. Then, add the necessary amount of washer fluid.

#### NOTE:

If there is the vibration, water comes into the layer of air in the washer tank and the water level may drop. This is not a malfunction.



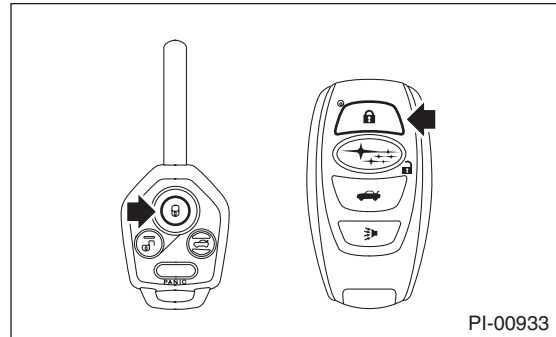
### 24.FRONT HOOD LATCH

Close the front hood. Check that the front hood is completely latched.

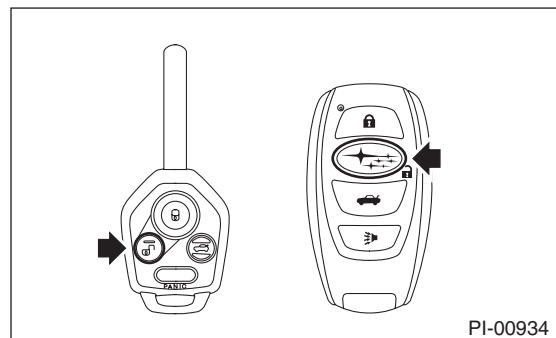
### 25.KEYLESS ENTRY SYSTEM

Check the keyless entry system operations as follows:

- Fully open all the door windows.
- Remove the key from the ignition switch and close all the doors including rear gate.
- Press the “LOCK/ARM” button momentarily on the keyless transmitter. Check that all the doors become locked, the buzzer sounds once, and the hazard lights flash once.

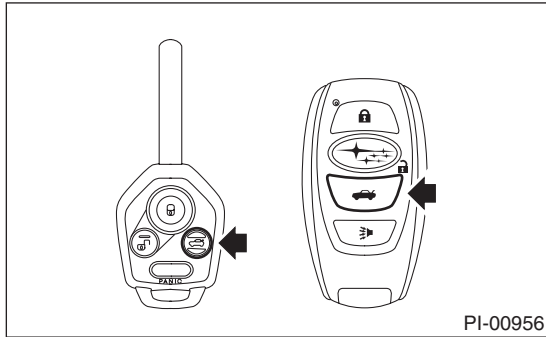


- Press the “UNLOCK/DISARM” button momentarily on the keyless transmitter. Check that the driver’s door is unlocked, the buzzer sounds twice, and the hazard lights flash twice.
- Within 5 seconds, press the “UNLOCK/DISARM” button momentarily on the keyless transmitter. Check that all doors (including rear gate) are unlocked, the buzzer sounds twice, and the hazard lights flash twice.

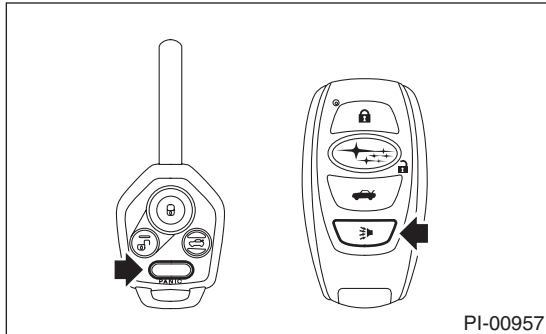


- Lock all the doors including rear gate. Check that the buzzer sounds twice, and the hazard lights flash twice, when the trunk open button is pressed to unlock the rear gate. Press the rear gate opener button and check that the rear gate opens. (Wagon model)

- Check that the buzzer sounds twice, and the hazard lights flash twice, when the trunk open button is held down to unlock the trunk lid. (Sedan model)

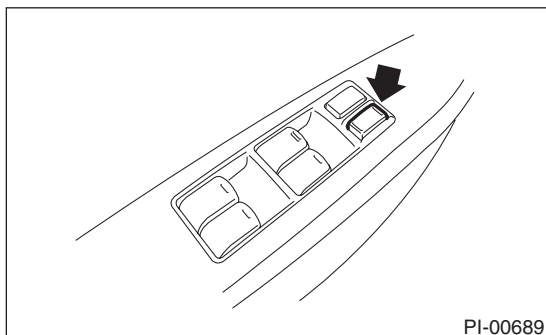


- Press the “PANIC” button of the keyless transmitter. Check that the panic mode (the horn keeps sounding) is initiated. Also, check that this condition continues for 30 seconds or until when any of the buttons on the keyless transmitter are pressed.

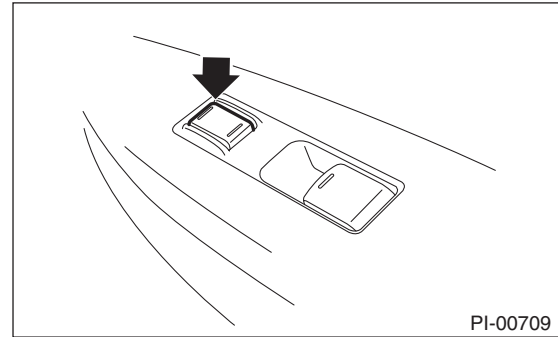


- Press the “LOCK/ARM” button momentarily on the keyless transmitter with one of the doors (including the rear gate) opened. Check that the buzzer sounds 5 times, and the hazard light flashes 5 times to notify the door not being fully closed. Next, close all the doors including rear gate. Check if all doors are locked and buzzer sounds once and the hazard light flashes once.
- With one of the doors open (including the rear gate), press the “LOCK” side of the power door lock switch. Next, close all the doors including rear gate. Check if all doors are locked and buzzer sounds once and the hazard light flashes once.

- Driver’s side



- Passenger’s side



## Alarm sound operational check

- The system uses the buzzer and sounds the alarm when the door is locked or unlocked. The alarm sound can be turned OFF. To turn the alarm sound from ON to OFF, close all doors, (with the key not inserted in the key cylinder), hold down the “UNLOCK” side of the power door lock switch and insert the key in the key cylinder. Within 10 seconds, insert and take out the key for 5 times or more, and within 10 seconds after that, open and close the driver’s door. With the door closed, the hazard light will flash 3 times, indicating that the alarm sound has been turned OFF. To turn the alarm sound from OFF to ON, perform this procedure again. The hazard light will flash 3 times, indicating that the alarm has been turned ON.

## 26.KEYLESS ACCESS FUNCTION

### CAUTION:

- **Make sure to separate the access keys individually for the inspection.**
- **Do not leave the separated access keys inside the vehicle.**

### NOTE:

The following inspections are for the initial setting. When the settings are different from the initial settings, use Subaru Select Monitor to check the details of each setting for inspections. <Ref. to BC(diag)-12, OPERATION, Read Current Data.>

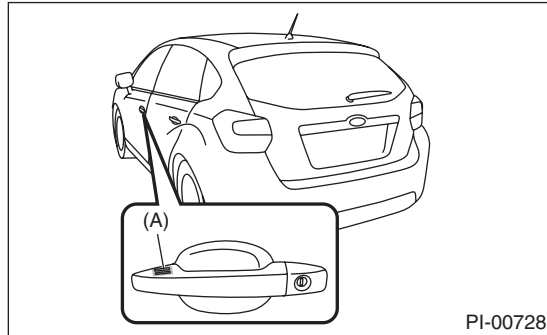
- Check that the room light illuminates, when a person carrying the access key approaches the front door handle of vehicle with all doors locked.
- Check that all doors and rear gate lock and the hazard light blinks, when a person carrying the access key touches the touch sensor (lock) on front door, or presses the rear lock button on rear gate.

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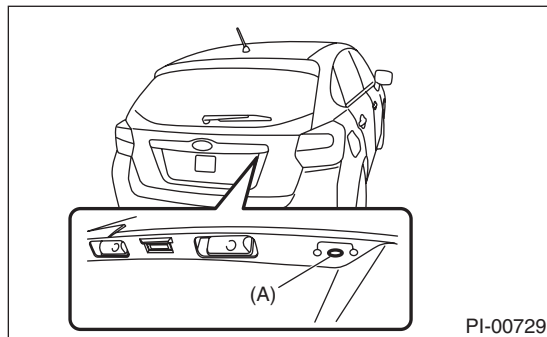
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### NOTE:

- On unlocking, the hazard light blinks twice.
- On locking, the hazard light blinks once.

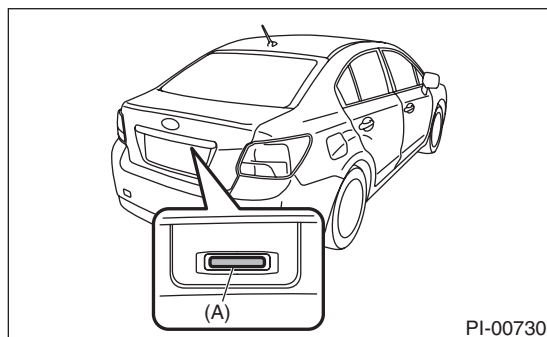


(A) Touch sensor (lock)



(A) Rear lock button

- Check that the trunk unlocks and the hazard light blinks twice, when a person carrying the access key presses the trunk opener button on trunk.



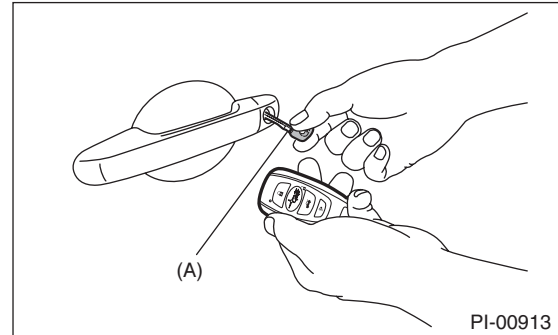
(A) Trunk opener button

- Operate the access key buttons manually to check that the doors and rear gate lock and unlock normally, and the hazard light blinks.

- Using the mechanical key attached to the access key, check lock and unlock operations.

### CAUTION:

**The mechanical key is a single groove type. Insert the mechanical key with the groove side facing the front side of the vehicle.**



(A) Mechanical key

- Check that the warning buzzer sounds and the door-lock does not operate, when the doors are closed with the access key left in the vehicle and the touch sensor (lock) on door is touched, or the rear lock button on rear gate is pressed.

### CAUTION:

**The mechanical key must be carried separately from the access key.**

- While the access key is left in trunk, check that the warning buzzer sounds when the trunk is closed, and that the trunk unlocks when the trunk opener button on trunk is pressed.

## 27.SECURITY SYSTEM

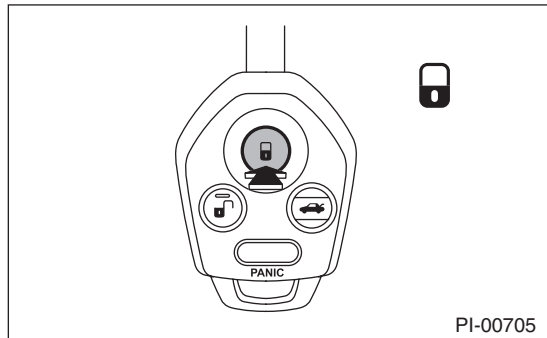
### • Models without keyless access function

#### NOTE:

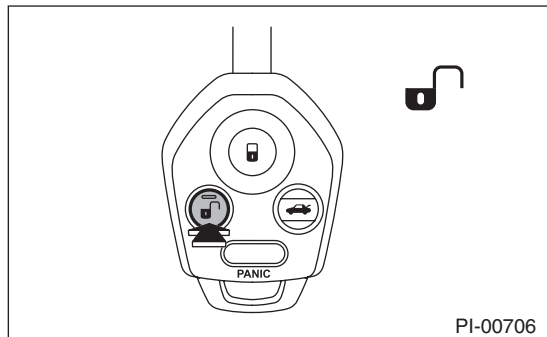
The following inspections are for the initial setting. When the settings are different from the initial settings, use Subaru Select Monitor to check the details of each setting for inspections. <Ref. to BC(diag)-21, OPERATION, Registration Body Integrated Unit.>

- 1) Fully open all the door windows.
- 2) Remove the key from the ignition switch and close all the doors including rear gate.

3) Press the “LOCK” button momentarily on the keyless transmitter. All doors are locked, and the security indicator light blinks rapidly for 30 seconds, then slowly twice repeatedly, indicating that the theft alarm is activated.



4) Press the “UNLOCK” button momentarily on the keyless transmitter. The driver’s door is unlocked, and the security indicator light blinks, indicating that the theft alarm is deactivated.

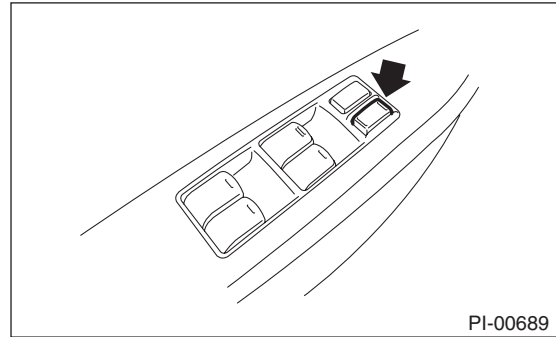


5) Press the “LOCK” button once on the keyless transmitter, while one of all doors (including rear gate) is open. Check that the buzzer sounds 5 times to notify the door not being fully closed. The doors are locked when all doors (including rear gate) are closed, and the security indicator light blinks rapidly for 30 seconds, then slowly twice repeatedly, indicating that the theft alarm is activated.

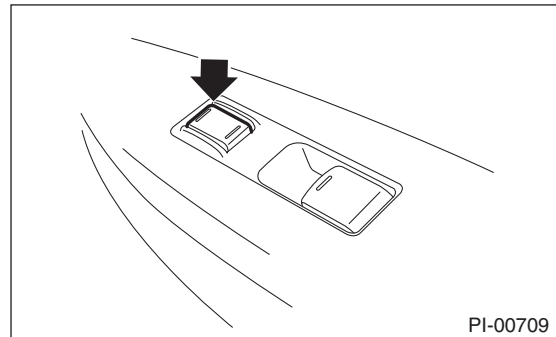
6) Press the “UNLOCK” button momentarily on the keyless transmitter. The driver’s door is unlocked, and the security indicator light blinks, indicating that the theft alarm is deactivated.

7) Press the “LOCK” side of the power door lock switch, while one of all doors (including rear gate) is open. The doors are locked when all doors (including rear gate) are closed, and the security indicator light blinks rapidly for 30 seconds, then slowly twice repeatedly, indicating that the theft alarm is activated.

## • Driver’s side



## • Passenger’s side



8) Unlock the door using the inner lock knob or the key, and open the door while the security system is activated. Check that the alarm condition (horn sounds continuously, hazard light blinks, and security indicator light illuminates) is initiated. Check that this condition continues until any of the buttons on the keyless transmitter is pressed, or the key is inserted to the ignition switch and turned to IGN ON.

## NOTE:

While the door is open, the alarm condition continues for three minutes.

9) On models equipped with an impact sensor, hit the windshield glass with your hand with the theft alarm in the monitoring condition, to check that the alarm condition occurs.

10) When none of above is applicable, perform troubleshooting for the security system.

## • Models with keyless access function

## NOTE:

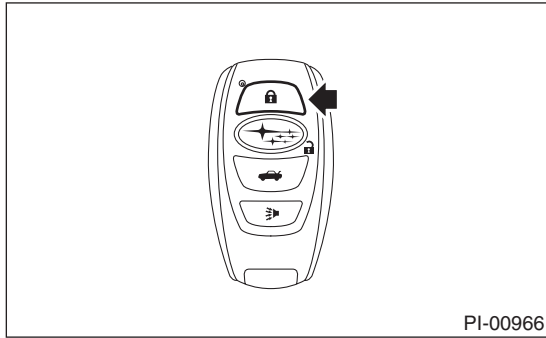
The following inspections are for the initial setting. When the settings are different from the initial settings, use Subaru Select Monitor to check the details of each setting for inspections. <Ref. to BC(diag)-21, OPERATION, Registration Body Integrated Unit.>

- 1) Fully open all the door windows.
- 2) Close all doors and rear gate.

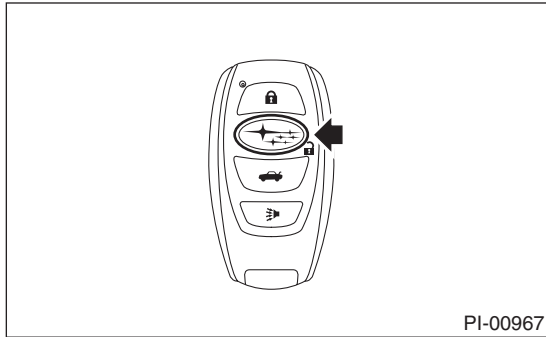
# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

3) Press the “LOCK” button momentarily on the access key. All doors are locked, and the security indicator light blinks rapidly for 30 seconds, then slowly twice repeatedly, indicating that the theft alarm is activated.



4) Press the “UNLOCK” button momentarily on the access key. The driver’s door is unlocked, and the security indicator light blinks, indicating that the theft alarm is deactivated.

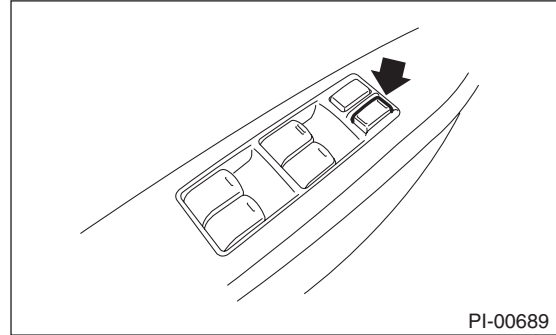


5) Press the “LOCK” button once on the access key while one of all doors (including rear gate) is open. Check that the buzzer sounds 5 times to notify the door not being fully closed. The doors are locked when all doors (including rear gate) are closed, and the security indicator light blinks rapidly for 30 seconds, then slowly twice repeatedly, indicating that the theft alarm is activated.

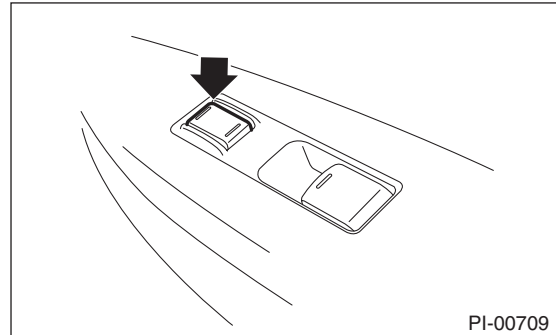
6) Press the “UNLOCK” button momentarily on the access key. The driver’s door is unlocked, and the security indicator light blinks, indicating that the theft alarm is deactivated.

7) Press the “LOCK” side of the power door lock switch, while one of all doors (including rear gate) is open. The doors are locked when all doors (including rear gate) are closed, and the security indicator light blinks rapidly for 30 seconds, then slowly twice repeatedly, indicating that the theft alarm is activated.

### • Driver’s side



### • Passenger’s side



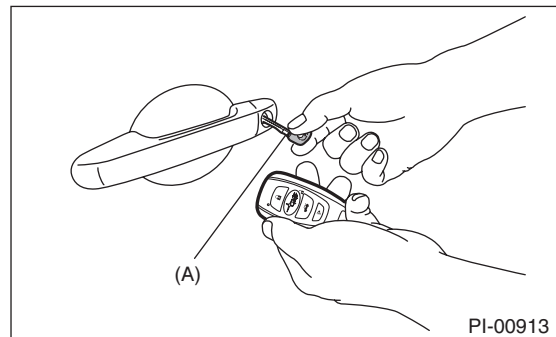
8) Unlock the door using the mechanical key, and open the door while the security system is activated. Check that the alarm condition (horn sounds continuously, hazard light blinks, and security indicator light illuminates) is initiated. Check that this condition continues until any of the buttons on the access key is pressed, or the key is turned to ACC.

### CAUTION:

**The mechanical key is a single groove type. Insert the mechanical key with the groove side facing the front side of the vehicle.**

### NOTE:

While the door is open, the alarm condition continues for three minutes.



(A) Mechanical key

9) On models equipped with an impact sensor, hit the windshield glass with your hand with the theft alarm in the monitoring condition, to check that the alarm condition occurs.

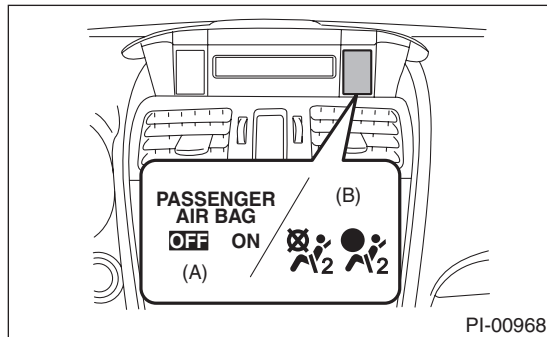


10) When none of above is applicable, perform troubleshooting for the security system.

## 28. SEAT

- 1) Check the seat surfaces for stains or dirt.
- 2) Check that each seat provides full functionality in sliding, reclining, lifter, and tilting. Check all available functions of the rear seat such as backrest tilt knob.
- 3) Check the passenger's seat occupant detection system.

- (1) Empty the passenger's seat and turn the ignition switch to ON.
- (2) Check that the passenger airbag ON/OFF indicator lights both turn on simultaneously for approximately six seconds, and after turning off for two seconds, only the OFF light illuminates.



- (A) Airbag ON/OFF indicator light (U.S.(U5 and U6) models)
- (B) Airbag ON/OFF indicator light (Canada, Mexico (CO) models)

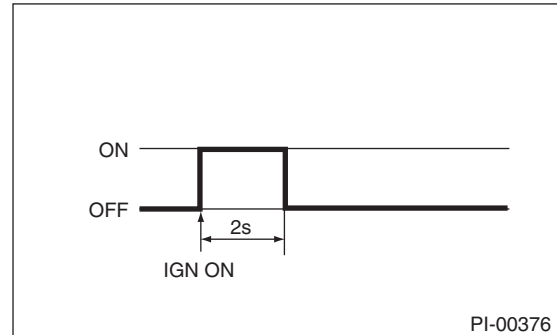
- 4) With a person weighing approximately 70 kg (155 lb) or more sitting in the passenger's seat, check whether the ON light of the passenger's airbag ON/OFF indicator illuminates or not.
- 5) Have the passenger get out of the passenger's seat, and check whether the OFF light of the passenger side airbag ON/OFF indicator illuminates.

## 29. SEAT BELT

- 1) Pull out the seat belt and then release it. Check that the belt retracts smoothly.
- 2) Check seat warning system
  - (1) Turn the ignition switch to ON without driver's and passenger's seat belts on.
  - (2) Check the seat belt warning lights of the driver's and the passenger's blink for approximately six seconds and the buzzer sounds intermittently.
  - (3) Then check that the seat belt warning lights illuminate and blink in a cycle of approximately 15 seconds. (If no one is seated on the passenger's seat, the seat belt warning light of the passenger's will not operate.)

## 30. TPMS (U.S. MODEL)

- 1) Turn the ignition switch to ON, and check TPMS warning light for normal operation.
  - Normal operation (IG ON (light check))



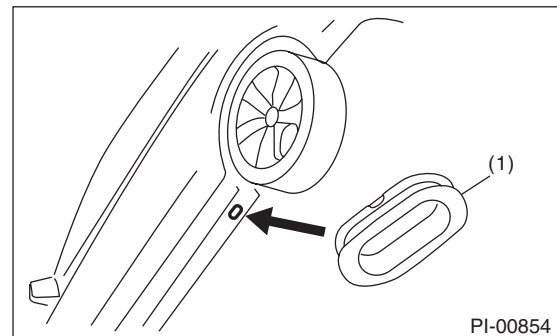
- 2) If the TPMS warning light display does not operate normally, check and repair the system. <Ref. to TPM(diag)-2, Basic Diagnostic Procedure.>

## 31. GROMMET INSTALLATION

Install the grommet on the rear seat to the tie-down hole.

### CAUTION:

**Make sure that the tie-down hole is firmly plugged with the grommet. Otherwise, dust, smell, etc. may come into the passenger compartment indirectly from the rear quarter, via the side sill from the tie-down hole.**



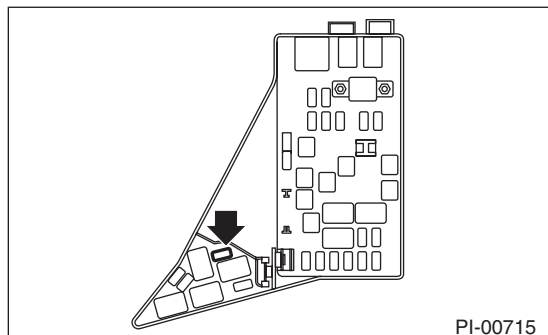
- (1) Grommet

### 32.DELIVERY (TEST) MODE

1) Install the delivery (test) mode fuse with ignition switch to OFF.

#### CAUTION:

**Do not use any fuses that are installed on the vehicle.**



- 2) Turn the ignition switch to ON and check that the malfunction indicator light starts blinking.
- 3) If the malfunction indicator light blinks, return the ignition key to LOCK.
- 4) Remove the delivery (test) mode fuse and attach it to the spare fuse holder provided on the fuse box cover.
- 5) Then, turn the ignition key to ON again.
- 6) Make sure that the malfunction indicator light is off. If the malfunction indicator light blinks, carry out an engine diagnosis.

### 33.IMMOBILIZER SYSTEM

- 1) Check that the engine starts with all keys that are equipped on vehicle. Also, when starting the engine, check that the security indicator light goes off.
- 2) Check that the security indicator light blinks in 60 seconds after turning the ignition switch from ON to ACC or to OFF, or immediately after removing the key. (Models without keyless access function)
- 3) Check that the security indicator light blinks immediately after turning the ignition switch from ON or ACC to OFF, or when the door is opened or closed while the ignition switch is at ON or ACC and the engine is stopped. (Models with keyless access function)

#### NOTE:

If malfunctions occur, refer to "IMMOBILIZER (DIAGNOSTICS)". <Ref. to IM(diag)-2, Basic Diagnostic Procedure.>

### 34.PUSH BUTTON START FUNCTION

- 1) While carrying the access key inside the vehicle and setting the shift lever in P range and the brake pedal OFF, check that the mode switches ACC → IGN ON → IGN OFF repeatedly, every time the push button ignition switch is pressed, and that the indicator light of push button ignition switch illuminates in orange.
- 2) While carrying the access key inside the vehicle and setting the shift lever in P range and the brake pedal ON, check that the indicator light of push button ignition switch illuminates in green.

#### NOTE:

When the select lever button is being pressed, the indicator light of push button ignition switch does not illuminate in green, even if the shift position is in P range.

- 3) While carrying the access key inside the vehicle and setting the shift lever in P range and the brake pedal ON, check that the engine starts when the push button ignition switch is pressed.
- 4) While the vehicle is stopped, engine is started and shift lever is in P range, check that the engine stops when the push button ignition switch is pressed.
- 5) While the vehicle is stopped, engine is started and shift lever is in N range, check that the engine stops when the push button ignition switch is pressed and that the mode switches ACC → IGN ON repeatedly every time the push button ignition switch is pressed.

### 35.STARTING CONDITION

Start the engine and check that the engine starts smoothly. If the 12 V battery voltage is low, recharge or replace the 12 V battery. If any noises are observed, immediately stop the engine and check and repair the abnormal components.

### 36.EXHAUST

Listen to the exhaust noise to see if no noises are observed. Check that no leaks are found.

### 37.INDICATOR AND WARNING LIGHTS

Check that all indicator lights and warning lights are operating correctly.

### 38.HEATER & VENTILATION

Operate the heater & ventilation system to check for normal airflow outlet control, air inlet control, airflow capacity and heating performance.

**39. AIR CONDITIONER**

Operate the air conditioner. Check that the A/C compressor operates normally and enough cooling is provided.

**NOTE:**

To prevent the insufficient lubrication of the air conditioner, operate the air conditioner for five minutes at idling.

**40. MULTI-FUNCTION DISPLAY (MFD)**

Check that the Multi-Function Display (MFD) function operates normally.

**41. AUDIO**

- 1) Check if the AM/FM radio broadcasting can be heard.
- 2) Check that all the radio functions work properly and the noise level is normal.
- 3) Check the CD and AUX for normal operation.
- 4) Check that the AUX is installed into the console without looseness.
- 5) Check that the rearview camera operates normally.

**42. NAVIGATION SYSTEM**

- 1) Check all display functions for normal operation. (Refer to the operation manual.)
- 2) Check that the navigation system operates normally.
- 3) Check the radio, CD (DVD) player and AUX for normal operation.
- 4) Check that the AUX is installed into the console without looseness.
- 5) Check that the rearview camera operates normally.

**43. ACCESSORY POWER SUPPLY SOCKET**

- Check the operation of the front accessory power supply socket.
- Check operation of the accessory power supply socket in console box.

**44. LIGHTING**

- 1) Check the headlight operations. When pulling out the key, check if the headlight illuminates by turning the headlight switch from OFF to ON.
- 2) Check the stop light operation.
- 3) Check other lights for normal operations.

**45. ILLUMINATION CONTROL**

Check that the illumination control operates normally.

**46. WINDOW WASHER SYSTEM**

Check that the window washer system injects washer fluid to the specified area of the windshield and rear window glass. <Ref. to WW-42, ADJUSTMENT, Front Washer Nozzle.> <Ref. to WW-53, INSPECTING THE SPRAY POSITION, INSPECTION, Rear Washer.>

**47. WIPER SYSTEM**

Check the front and rear wipers for normal operations.

**48. WIPER DEICER**

Check that the wiper deicer operates normally.

**NOTE:**

When an ambient temperature is 5°C or more, wiper deicer operation is cancelled. Press the switch for 3 seconds or more to perform the compulsory operation.

**49. POWER WINDOW**

- Operate the power window switches one by one to check that each of the power windows goes up and down without noises.
- Check AUTO UP/AUTO DOWN operate properly by operating the power window switch on driver's seat side.

**CAUTION:**

**If battery has been removed, AUTO UP does not operate properly because initialized. In this case, perform the initial setting (reset A) and check AUTO UP operates properly.**

**NOTE:**

Check the power window if the door glass of the driver's seat does not open/close automatically. <Ref. to GW-10, INSPECTION, Power Window System.>

**50. SUNROOF**

Check that the sunroof operates normally.

**51. REAR DEFOGGER SYSTEM**

Press the rear defogger switch and check that the light inside the switch is activated for approx. 15 minutes and the rear defogger automatically turns to OFF.

**52. DOOR MIRROR**

- Check that the remote control mirror operates normally.
- Check that the heated mirror operates normally.



### 53. DIAGNOSTIC TROUBLE CODE (DTC) CHECK

Read the diagnostic trouble code and check that the diagnostic trouble code is not detected. If any diagnostic trouble code is detected, clear all.

#### NOTE:

For detailed operation procedures, refer to "PC application help for Subaru Select Monitor".

### 54. BRAKE TEST

Check the foot brake for normal operations.

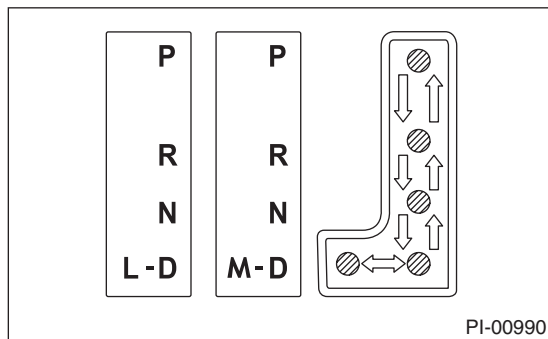
### 55. PARKING BRAKE

Check the parking brake for normal operations. When pulling the parking brake lever with a force of 200 N (20 kgf, 45 lb), check that the lever stroke of parking brake lever is 7 to 8 notches.

### 56. SHIFT CONTROL

#### • CVT model

- 1) Turn the ignition switch to ON.
- 2) While brake pedal is not depressed, check if the select lever does not move from "P" range.
- 3) While brake pedal is depressed, check if the select lever moves from "P" range.
- 4) Set the select lever to other than "P" range.
- 5) When the ignition switch is turned to OFF, check if the ignition key switch cannot be removed.
- 6) Set the select lever to each gear position and check the shifting while driving the vehicle. Operate the paddle shift at manual mode and check the shifting while driving the vehicle.



Selector position	Gear position					
	1st	2nd	3rd	4th	5th	6th
D	Continuously variable speed change					
Manual mode	OK	OK	OK	OK	OK	OK

- 7) Set the select lever to other than "P" range. (Except for models with keyless access function)

- 8) When the ignition switch is turned to OFF, check if the ignition key switch cannot be removed. (Except for models with keyless access function)

#### • MT model

Check for smooth operation to each position.

### 57. CRUISE CONTROL

Operate the cruise control system. Check that the system is activated and deactivated correctly. (In the delivery mode, the cruise control does not operate, even when the cruise control switch is pressed.)

### 58. SUBARU EyeSight

- Operate the EyeSight system. Check that the system is activated and deactivated correctly.
- Check the stereo camera cover opening for foreign matter.
- Check the glass in front of stereo camera for dirt and stickers.
- Check the lens and filter of the stereo camera for dirt such as fingerprints.
- Check the filter at lens portion of stereo camera for damage.
- According to the "ES(diag)" section, check the windshield glass and dashboard in front of stereo camera to make sure that no aftermarket part is adhered or attached in the prohibited area. <Ref. to ES(diag)-7, WINDSHIELD GLASS AND DASHBOARD, INSPECTION, General Description.>
- When delivering the vehicle, explain to the customer to make sure not to touch the filter at lens portion of the stereo camera.

### 59. HYBRID SYSTEM

Activate the hybrid system. Check that the system is activated and deactivated properly.

### 60. EV MODE LAMP

- 1) Check that the EV mode lamp setting is ON.
- 2) Check that the EV mode lamp illuminates during EV traveling or when the Auto Start Stop operates.

### 61. POWER STEERING SYSTEM (ELECTRIC POWER STEERING MODEL)

Check that the electric power steering warning light illuminates after the ignition switch is turned ON, and goes off after the engine is started.

### 62. FLUID LEAKAGE

Check entire areas of the vehicle for any trace of engine coolant/engine oil/transmission fluid leaks.

### 63. WATER LEAK TEST

Spray the vehicle with water using a hose and check that no water enters the passenger compartment.

- Before performing the water leakage test, remove anything that may obstruct the operation or which must be kept dry.
- Close all the windows and doors securely. Close the front hood, trunk lid and rear gate before starting the test.
- Connect a hose to a tap, and spray water on the vehicle. The rate of water spray must be approx. 20 to 25 L (5.3 — 6.6 US gal, 4.4 — 5.5 Imp gal) per minute.

When spraying water on areas adjacent to the floor and wheel house, increase the pressure. When spraying water on areas other than the floor and wheel house, decrease the pressure. But the force of water must be made strong occasionally by pressing the end of the hose.

#### NOTE:

Be sure to keep the hose at least 10 cm (3.9 in) away from vehicle.

Check the following areas.

- Front window and body framework mating portion
- Door mating portions
- Glass mating portions
- Rear quarter window mating portions
- Rear window and body framework mating portion
- Around roof drips

If any dampness in the compartments is discovered after the water has been applied, carefully check all the areas that may have possibly contributed to the leak.

### 64. APPEARANCE 2

1) If protective coating (wrap guard) is applied, remove it.

#### NOTE:

- When removing the wrap guard, using steam will make it easier to remove.
- Vehicle left for a extended periods or at low temperatures, spray the vehicle with water heated 50 — 60°C (122 — 140°F) to raise the surface temperature before peeling off the wrap guard. Do not use the water heated to over 60°C (140°F).
- If the adhesive remains exist on the coated surface, soak a flannel rag, etc. with a small amount of coating wax or solvent such as oil benzene and IPA, put the soaked cloth on the remains lightly, and then wipe them off with a flannel rag etc.

- Keep solvent from touching the resin or rubber parts. Do not use coating wax or solvents while the component surface temperature is hot due to hot weather etc.

- If the coated surface is swollen out due to seams or moisture, expose the vehicle to the sunlight for a few hours or heat the seam and swollen portions using a dryer etc.

- Dispose of the peeled wrap guard as burnable industrial garbage.

2) Check the whole vehicle body for flaking paint, damage by transportation, corrosion, dirt, cracks or blisters.

#### NOTE:

- It is better to determine an inspection pattern in order to avoid missing an area, since the total inspection area is wide.

- Do not repair the body paint unless absolutely necessary. Also, if the vehicle is in need of repair to remove scratches or corroded paint, the repair area must be limited to the minimum. Re-painting and spray painting must be avoided as much as possible.

3) Check each window glass for scratches carefully. Slight damage may be removed by polishing with cerium oxide. (Fill a cup half with cerium oxide, and add warm water to it. Then agitate the content until it turns to wax. Apply this wax to a soft cloth, and polish the glass with it.)

4) Check each portion of the vehicle body and underside components for the formation of rust. If rust is discovered, remove it with sandpaper of #80 to #180 and treat the surface with rust preventive. After this treatment is completed, flush the portion thoroughly, and prepare the surface for repair painting.

5) Check each portion of body and all of the exterior parts for deformation or distortion. Also, check each light lens for cracks.

6) Peel the protective tape, vinyl wrapping and identification seal attached to the following places.

- Seat
- Door trim
- Floor carpet
- Side sill
- Front hood lock release lever
- Rear shelf
- Aluminum pedal
- Rear wiper
- Door mirror
- High-mounted stop light (placed in passenger room)
- Handle - door outer
- Cover - handle outer

**Pre-delivery Inspection**

PRE-DELIVERY INSPECTION

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# PERIODIC MAINTENANCE SERVICES

# PM

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