

# 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 and restore the vehicle to its normal condition.
- Check the vehicle before delivery is in normal condition.
- Check the vehicle or parts for any damage occurred during transportation or storage.
- Check the vehicle after repair is in normal condition.
- Make sure to provide a complete vehicle to customer.

For above reasons, all SOAs (dealerships) must carry out the PDIs before delivery of vehicle.

Refer to this manual unless otherwise specified.

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

Perform the procedures indicated in the table below.

##### Static Checks Just After Vehicle Receipt

| Operation   | Check point   |
|---|---|
| 1. Appearance                                     | <ol style="list-style-type: none"><li>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.</li><li>2. Visually check the glass and light lenses for any damage, cracks or excessive gaps between body sheet metal.</li><li>3. Visually check the plated parts for any damage.</li><li>4. Check the instrument panel, console and trim for stains or dirt.</li></ol> |
| 2. Tire   | <ol style="list-style-type: none"><li>1. Check the tires for damage, defective, and dents on wheels.</li><li>2. Check the tire air pressure.</li></ol>  |
| 3. Fuse installation                              | If the vehicle is about to be delivered to customer, attach the room lamp fuse.   |
| 4. Door lock/unlock and open/close operations     | <ol style="list-style-type: none"><li>1. Using the key, check the door can be locked or unlocked normally.</li><li>2. Open and close all doors to check that there are no problems.</li><li>3. Operate the power door lock switch to check that the rear gate locks and unlocks normally.</li></ol>   |
| 5. Child safety lock                              | Check the child safety lock system operates normally.   |
| 6. Trunk lid open/close operations                | <ol style="list-style-type: none"><li>1. Using the key, check that the trunk lid can be locked or unlocked normally.</li><li>2. Operate the trunk lock release lever to check that the trunk lid opens normally.</li><li>3. Use the valet key to check that the lock cannot be released.</li><li>4. Open and close the trunk lid to check that there are no problems.</li></ol>   |
| 7. Rear gate lock/unlock and open/close operation | <ol style="list-style-type: none"><li>1. Check if the rear gate can be unlocked normally through the emergency hole.</li><li>2. Open and close the rear gate to check that there are no problems.</li></ol>   |
| 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. 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>• Immobilizer security ID plate</li><li>• Jack</li><li>• Tool set</li><li>• Spare tire</li><li>• Towing hook</li></ul>  |
| 11. Front hood lock release                       | Operate the front hood lock release lever to check that the front hood opens normally.  |

# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

| Operation                     | Check point  |
|-------------------------------|--|
| 12. Battery                   | Check the battery for any abnormal conditions such as rust or traces of battery fluid leaks.   |
| 13. Brake fluid               | Check the brake fluid amount.  |
| 14. Engine oil                | Check the engine oil amount.   |
| 15. Transmission gear oil     | Check the transmission gear oil amount.  |
| 16. AT front differential oil | Check the AT front differential oil amount.  |
| 17. Engine coolant            | Check the engine coolant level.  |
| 18. Clutch fluid              | Check the clutch fluid amount.   |
| 19. Window washer fluid       | Check the window washer fluid amount.  |
| 20. Front hood latch          | Check that the front hood is closed normally and locked securely.  |
| 21. Keyless entry system      | Check that the keyless entry system operates normally.   |
| 22. Security system           | Check that the security system operates normally.  |
| 23. Seat                      | 1. Check the seat surfaces for stains or dirt.<br>2. Check the seat installation conditions and functionality.   |
| 24. Seat belt                 | Check the seat belt installation conditions and functionality.   |
| 25. TPMS (U.S. model)         | 1. Turn the TPMS transmitter power supply to ON.<br>2. If the display of TPMS warning light does not operate normally, perform the diagnosis by referring to TPMS (Diagnosis). |
| 26. ECM protector             | For Canada model, check the ECM protector installation conditions.   |

### Checks with the Engine Running

| Operation                               | Check point   |
|---|---|
| 27. Delivery (test) mode connector      | Turn the ignition switch to ON and check that the malfunction indicator light starts blinking.  |
| 28. Immobilizer                         | 1. Check that the engine starts with all keys that are equipped on vehicle.<br>2. 60 seconds after turning ignition switch from ON to ACC or OFF, or immediately after removing the key, check that the security indicator light is blinking. |
| 29. Starting condition                  | Start the engine and check that the engine starts smoothly.   |
| 30. Exhaust system                      | Check that the exhaust noise is normal and no leaks are found.  |
| 31. Indicator and warning lights        | Check that all indicator lights and warning lights are operating correctly.   |
| 32. Heater & ventilation                | Check that the heater & ventilation system operates normally.   |
| 33. Air conditioner                     | Check that the air conditioner operates normally.   |
| 34. Clock                               | Check that the clock operates normally.   |
| 35. Audio                               | Check the radio and AUX operate normally.   |
| 36. Navigation                          | Check the navigation and AUX operate normally.  |
| 37. Front accessory power supply socket | Check that the front accessory power supply socket operates normally.   |
| 38. Lighting system                     | Check that the lighting system operates normally.   |
| 39. Illumination control                | Check that the illumination control operates normally.  |
| 40. Window washer                       | Check that the window washer system operates normally.  |
| 41. Wiper                               | Check that the wiper system operates normally.  |
| 42. Wiper deicer                        | Check that the wiper deicer operates normally.  |
| 43. Power window                        | Check that the power window operates normally.  |
| 44. Sunroof                             | Check that the sunroof operates normally.   |
| 45. Rear defogger                       | Check that the rear defogger operates normally.   |
| 46. Door mirror                         | Check that the remote control mirror operates normally.   |

# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

### Dynamic Test with the Vehicle Running

| Operation            | Check point   |
|----------------------|---|
| 47. Brake test       | Check the foot brake for normal operations.             |
| 48. Parking brake    | Check the parking brake for normal operations.          |
| 49. AT shift control | Check that the AT shift patterns are correct.           |
| 50. Cruise control   | Check that the cruise control system operates normally. |

### Checks after Dynamic Test

| Operation                      | Check point   |
|--------------------------------|---|
| 51. ATF level                  | Check that the ATF level is correct.  |
| 52. Power steering fluid level | Check that the power steering fluid level is normal.  |
| 53. Fluid leakage              | Check for fluid/oil leaks.  |
| 54. Water leak test            | Spray the vehicle with water and check for water leaks.   |
| 55. Appearance 2               | <ol style="list-style-type: none"> <li>1. Remove the protective coating (if equipped).</li> <li>2. Check the body paints for damage and stain.</li> <li>3. Check the plated parts for damage and rust.</li> </ol> |

### 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.

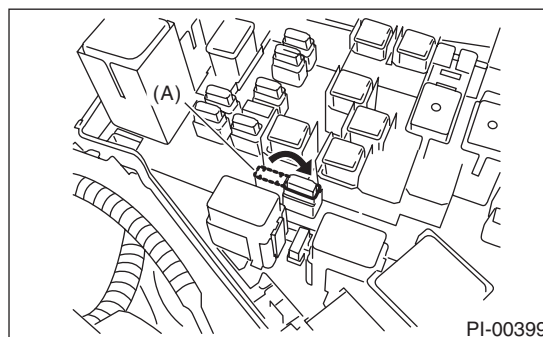
### 2. TIRE

- Check for damage on the outside surface of the tires.
- Refer to the following table and inspect the tire air pressure.

| Tire size  | Tire inflation pressure<br>kPa (kgf/cm <sup>2</sup> , psi) |               |
|------------|--|---------------|
|            | Front  | Rear          |
| P205/55R16 | 230 (2.3, 33)  | 220 (2.2, 32) |
| P205/50R17 | 230 (2.3, 33)  | 220 (2.2, 32) |
| 225/45R17  | 230 (2.3, 33)  | 220 (2.2, 32) |

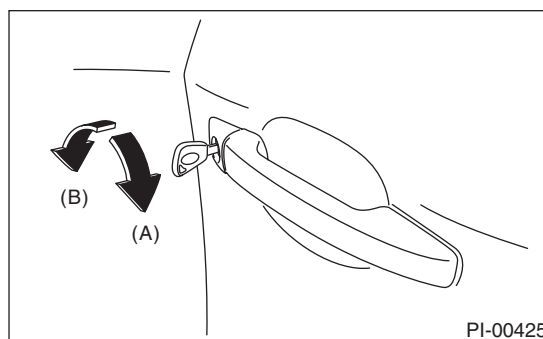
### 3. FUSE INSTALLATION

Fuses for the room light circuit on initially delivered vehicles are removed to prevent battery discharge. Attach the 20 A fuse (A) as shown in the figure.



### 4. DOOR LOCK/UNLOCK AND OPEN/CLOSE OPERATIONS

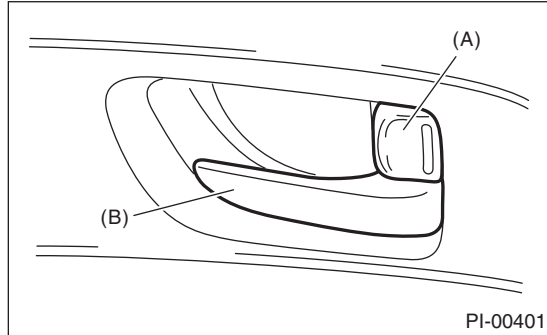
1) Using the key, lock and unlock the door several times to check for normal operation. Open and close the door several times for smooth movement.



- (A) Unlock  
(B) Lock

2) Close the door of driver seat completely, and place the door lock knob (A) to the lock position. Then pull the inner remote (B) to ensure that doors will not open.

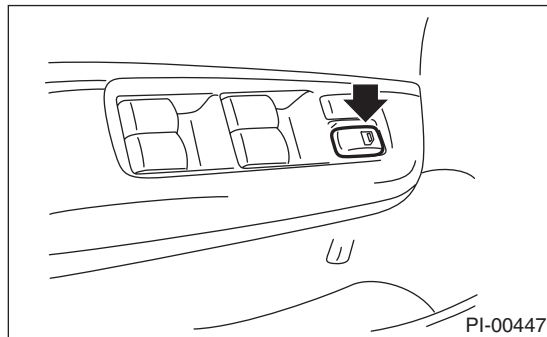
For other doors, place the door lock knob (A) to lock position and then pull the inner remote (B) to ensure that doors will not open.



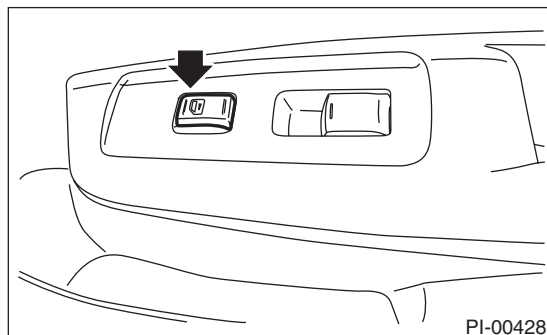
- (A) Door lock knob
- (B) Inner remote

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

## • Driver's side

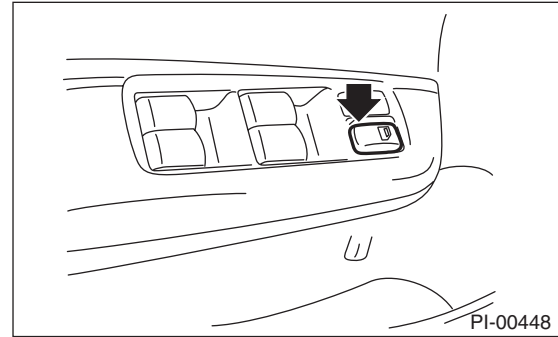


## • Passenger's side

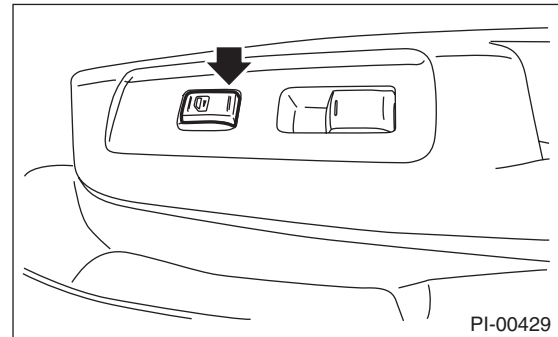


4) Press the unlock side of the power door lock switch on the driver and passenger sides. Check that all doors including rear gate are unlocked.

## • Driver's side

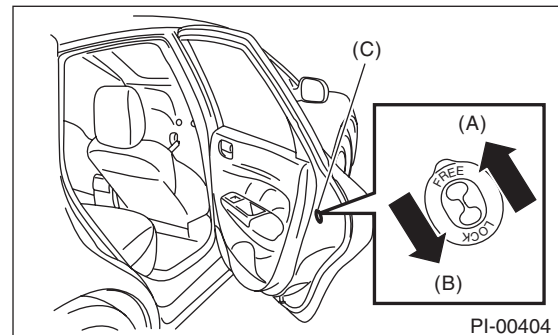


## • Passenger's side



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



- (A) Unlock
- (B) Lock
- (C) Child safety lock lever

## 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.

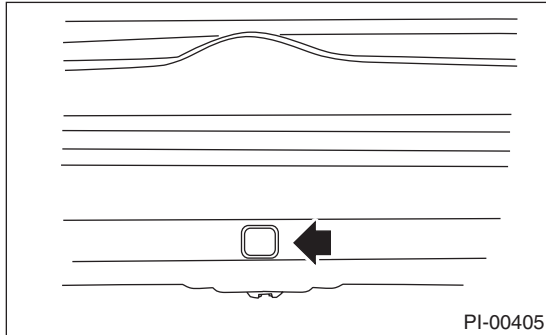
# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

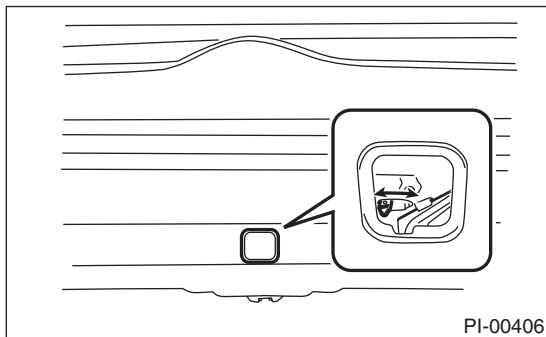
### 7. REAR GATE LOCK/UNLOCK AND OPEN/CLOSE OPERATIONS

- 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.

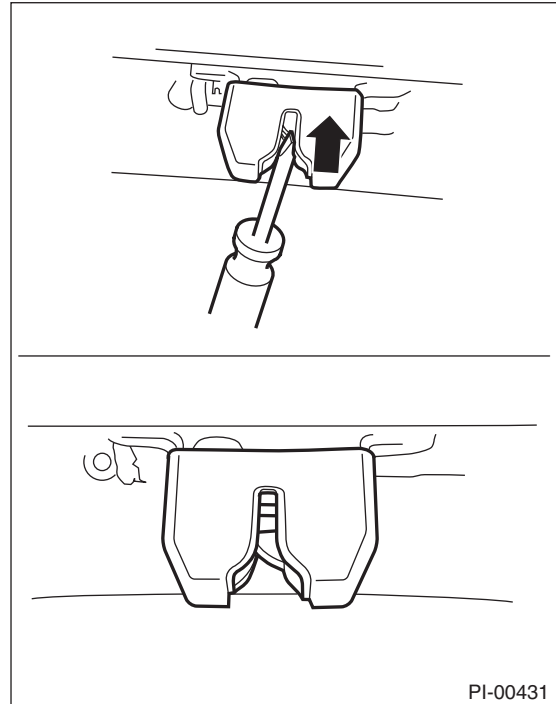


(2) Operate the lever using a tool such as a screwdriver to check that the rear gate is unlocked normally.

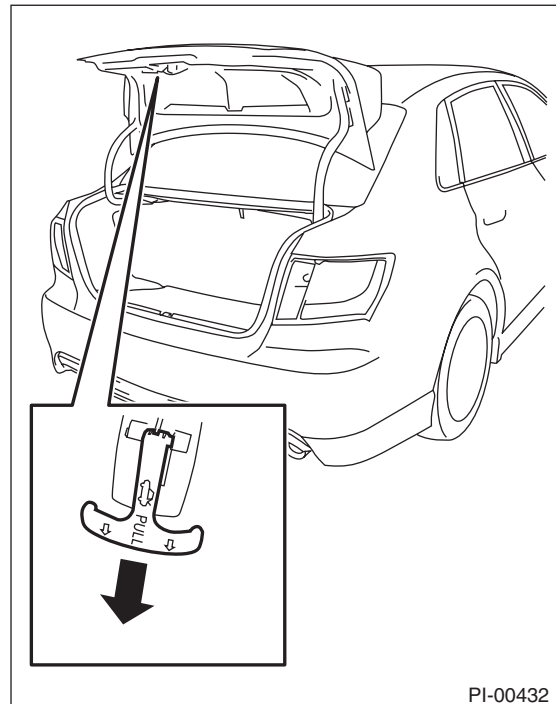


### 8. OPERATION CHECK OF TRUNK LID RELEASE HANDLE

- 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) Move the release handle from outside the vehicle in the direction of the arrow to check if the latch is released.



## 9. FUEL LID OPENER LOCK RELEASE LEVER

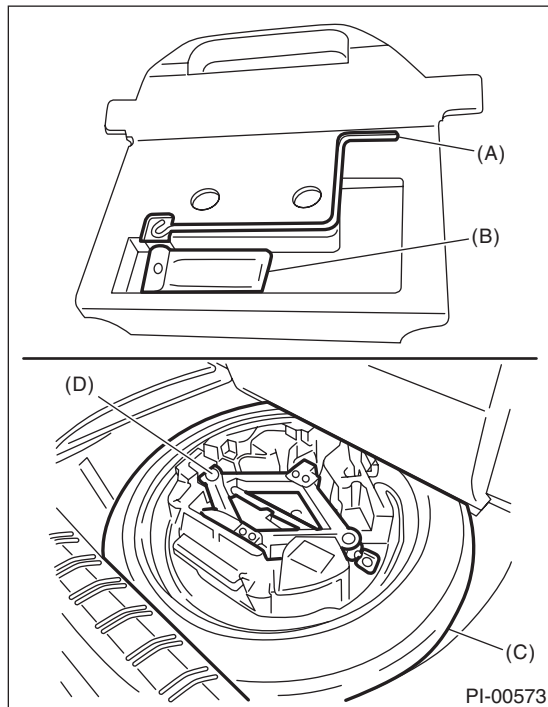
Operate the fuel lid lock release lever to check that the fuel lid is unlocked normally. Check that the filler cap is securely closed.

## 10.ACCESSORY

Check that the following accessories are provided.

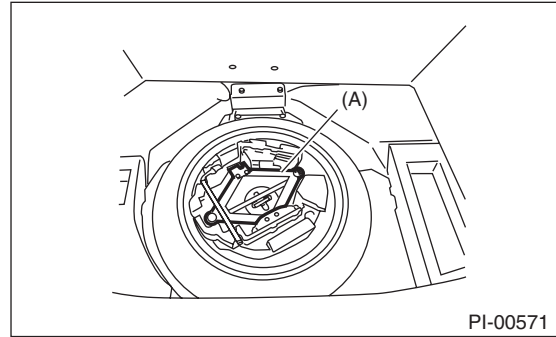
- Owner's manual
- Warranty booklet
- Maintenance note
- Spare key
- Key No. plate
- Immobilizer security ID plate
- Jack
- Tool set
- Spare tire

4 door

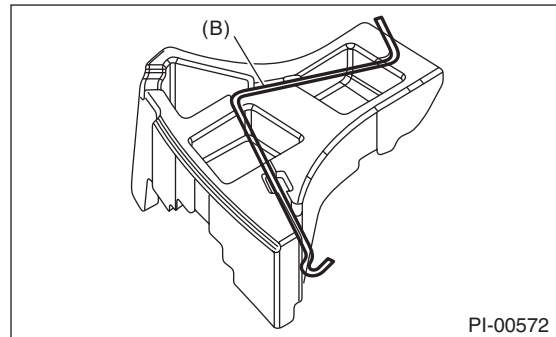


- (A) Jack handle
- (B) Tool set
- (C) Spare tire
- (D) Jack

5 door



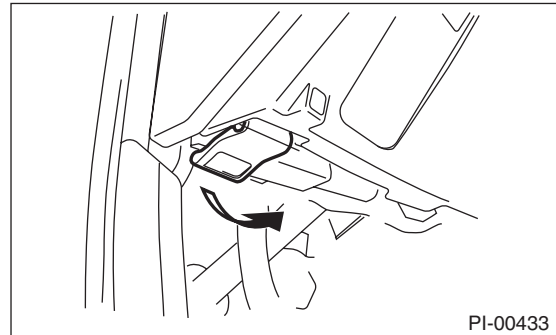
- (A) Jack



- (B) Jack handle

## 11.FRONT HOOD LOCK RELEASE

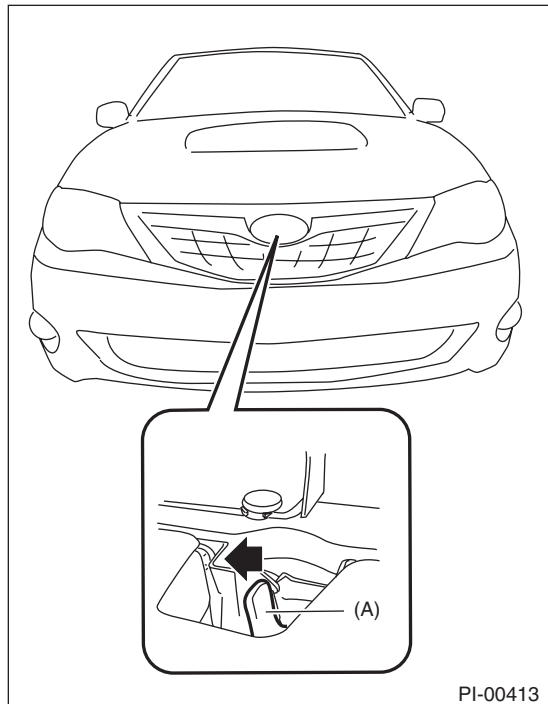
Operate the front hood release lever to check that the front hood is unlocked normally.



# Pre-delivery Inspection

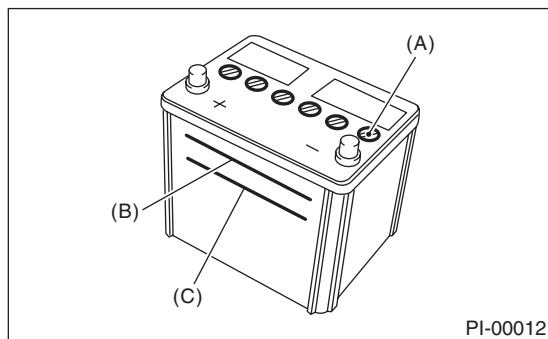
## PRE-DELIVERY INSPECTION

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



## 12.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.



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

## 13.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:

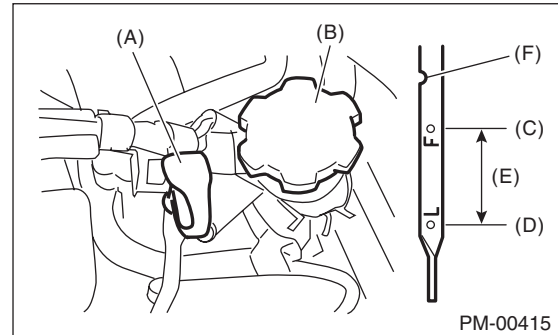
**If the brake fluid is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.**

## 14.ENGINE OIL

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

### CAUTION:

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



- (A) Oil level gauge
- (B) Engine oil filler cap
- (C) Upper level
- (D) Lower level
- (E) Approx. 1.0 L (1.1 US qt, 0.9 Imp qt)
- (F) Notch mark

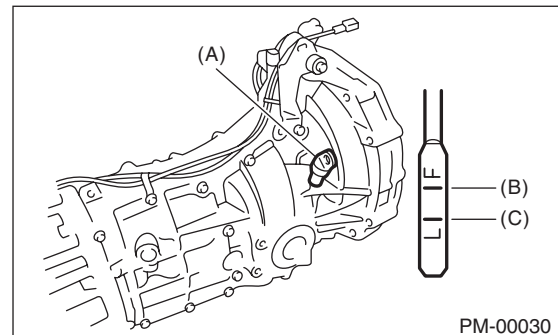
## 15.TRANSMISSION GEAR OIL

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.

### CAUTION:

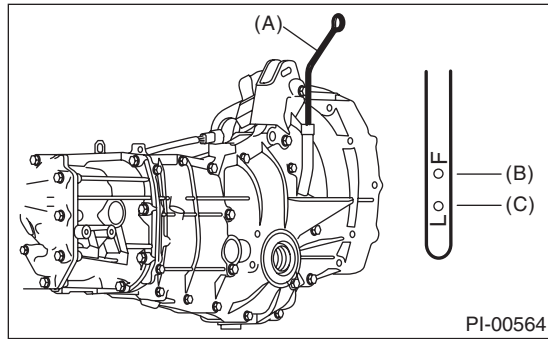
**If gear oil is spilt over the exhaust pipe, wipe it off with a cloth to avoid emitting smoke or causing a fire.**

- 5MT (gasoline non-turbo engine model)



- (A) Oil level gauge
- (B) Upper level
- (C) Lower level

- 5MT (gasoline turbo engine model)



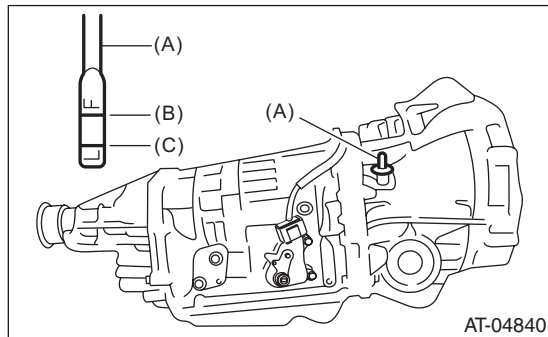
- (A) Oil level gauge
- (B) Upper level
- (C) Lower level

## 16.AT FRONT DIFFERENTIAL OIL

Check the AT front differential oil amount. If the amount of oil is insufficient, check for leaks. Then, add the necessary amount of the specified AT front differential 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.



- (A) Oil level gauge
- (B) Upper level
- (C) Lower level

## 17.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:

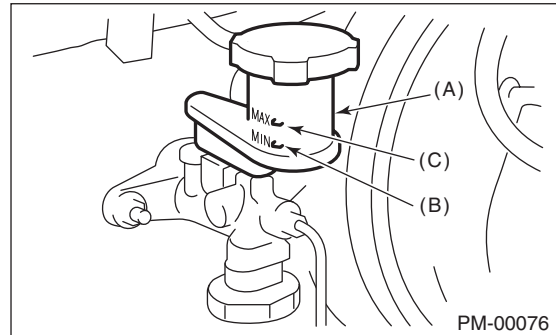
If the coolant is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.

## 18.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:

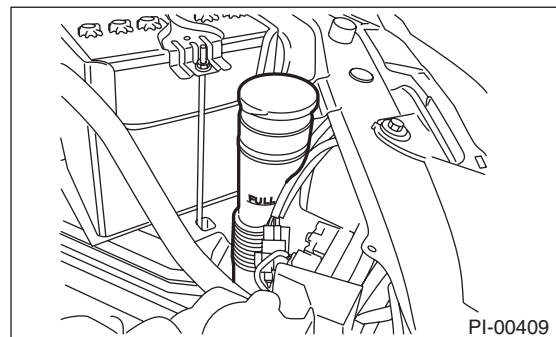
If any clutch fluid is spilt on the exhaust pipe, wipe it off with a cloth to avoid emitting smoke or causing a fire.



- (A) Reservoir tank
- (B) MIN. level
- (C) MAX. level

## 19.WINDOW WASHER FLUID

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



## 20.FRONT HOOD LATCH

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

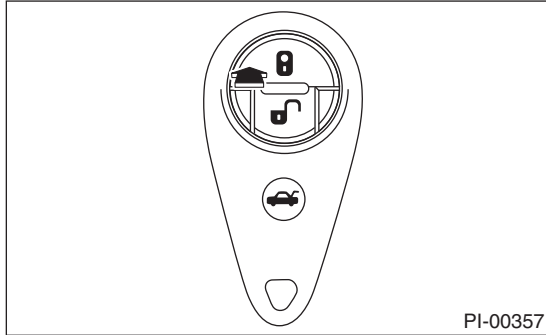
# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

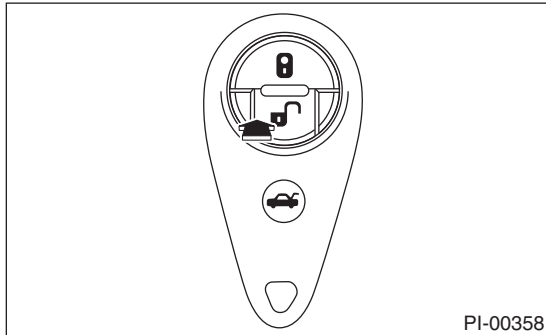
### 21.KEYLESS ENTRY SYSTEM

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.

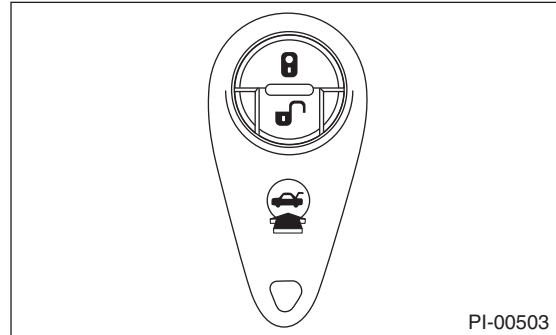


- Press the “UNLOCK/DISARM” button momentarily on the keyless transmitter. Check that the driver’s door is unlocked, the buzzer sounds twice, and the hazard lights flash twice.

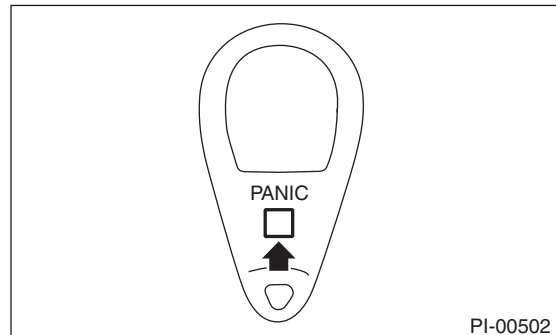


- Within 5 seconds, press the “UNLOCK/DISARM” button momentarily on the keyless transmitter. Check that all doors (including rear gate) are unlocked.
- Lock all the doors including rear gate. Check that the buzzer sounds twice and the hazard lights flash twice when the rear gate is unlocked by pressing the rear gate unlock button. Check that pressing the release button opens the rear gate. (Wagon model)

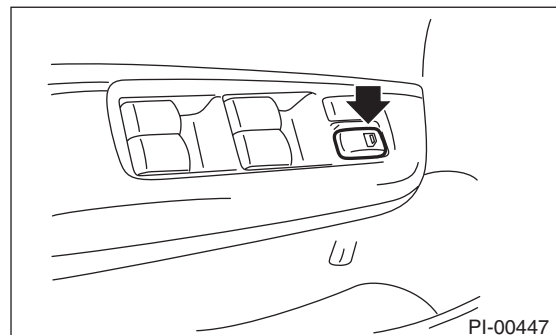
- Check that the buzzer sounds twice and the hazard lights flash twice when the trunk lid is unlocked by pressing the trunk lid unlock button. (Sedan model)



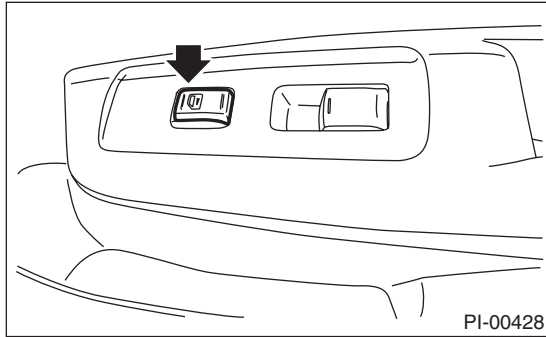
- Press the “Panic” button of the keyless transmitter. Check that the panic mode (the horn keeps sounding) is initiated. Also, check that this condition continues for 30 seconds or until when any of the buttons on the keyless transmitter are pressed.



- 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



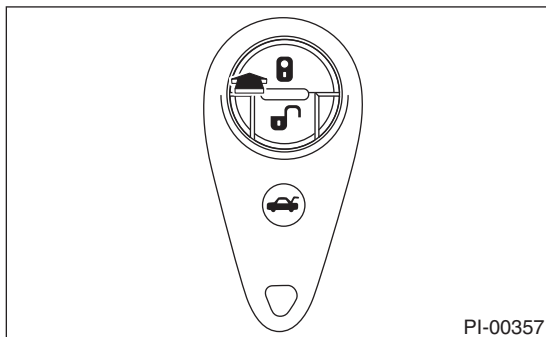
## Alarm sound operational check

- 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.

## 22.SECURITY SYSTEM

Check that the security system operates as indicated below.

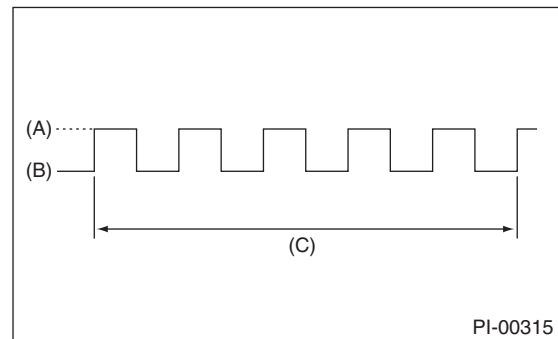
- 1) Fully open all the door windows.
- 2) Remove the key from the ignition switch and close all the doors including rear gate.
- 3) Press the "LOCK/ARM" button on the keyless transmitter once.



- 4) If all doors lock, buzzer sounds once, the hazard light flashes once, and the security display light flashes as indicated below, the alarm system is in the monitoring condition.



- Alarm system monitoring prepared condition



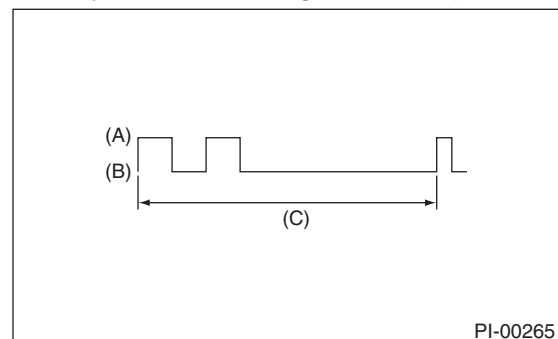
(A) Light ON

(B) Light OFF

(C) 2 seconds

- 5) Check that the system enters monitoring condition 30 seconds after the condition in 4).

- Alarm system monitoring condition (all models)



(A) Light ON

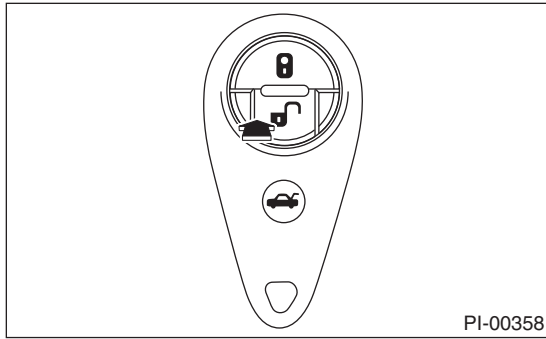
(B) Light OFF

(C) 2 seconds

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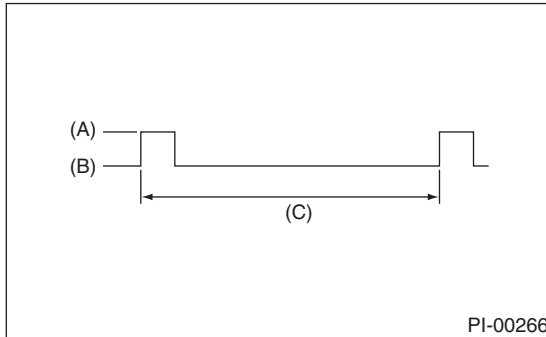
6) Press the “UNLOCK/DISARM” button on the keyless transmitter once.



7) The alarm system is in the non-monitoring conditions if the driver's side door is unlocked, the buzzer sounds twice, the hazard light flashes twice, the room light turns on, and the security display light turns off.

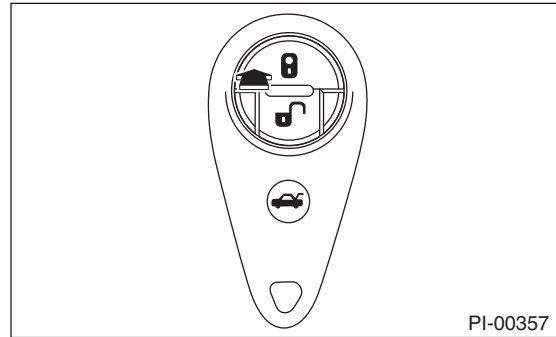


• Alarm system non-monitoring condition (models with immobilizer)



- (A) Light ON
- (B) Light OFF
- (C) 3 seconds

8) Press the “LOCK/ARM” button once on the keyless transmitter with one of the doors (including the rear gate) opened.

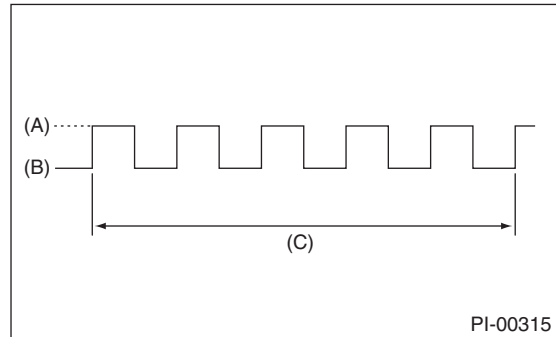


9) Check that the buzzer sounds 5 times to give the door not fully closed warning.

10) Close all the doors including rear gate.

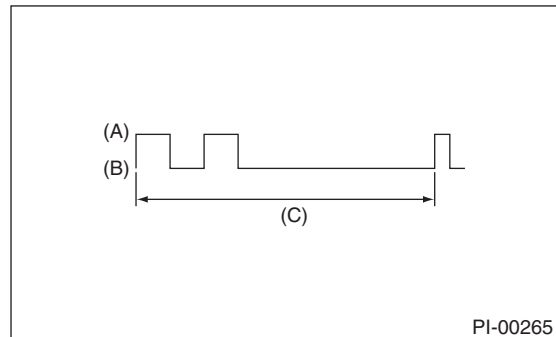
11) Check that the system is in the monitoring condition (all the doors become locked and the buzzer sounds once, and the hazard light flashes once).

• Alarm system monitoring prepared condition



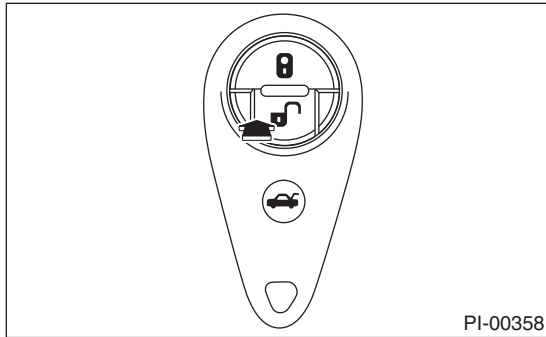
- (A) Light ON
- (B) Light OFF
- (C) 2 seconds

12) Check that the system enters monitoring condition 30 seconds after the condition in 11).



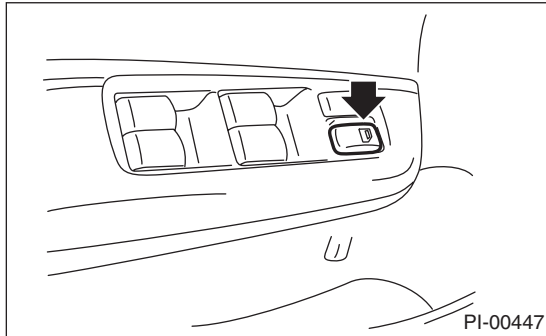
- (A) Light ON
- (B) Light OFF
- (C) 2 seconds

13) Press the “UNLOCK/DISARM” button on the keyless transmitter once and turn into non-monitoring condition.

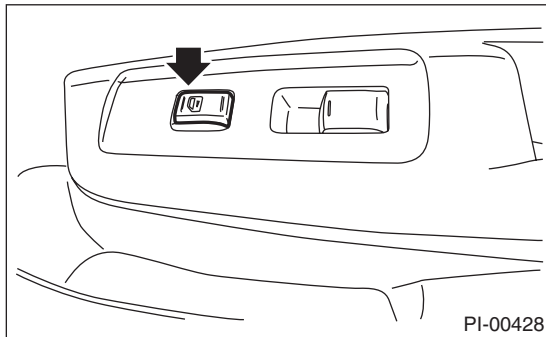


14) With one of all the doors open (including the rear gate), press the “LOCK” side of the power door lock switch.

- Driver’s side



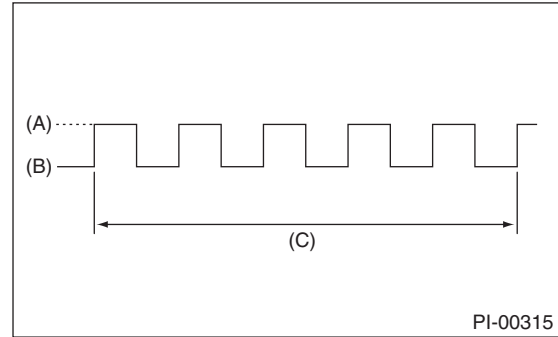
- Passenger’s side



15) Close all the doors including rear gate.

16) If all doors become locked, the buzzer sounds once, and the hazard light flashes once, the alarm system is in the monitoring prepared condition.

- Alarm system monitoring prepared condition

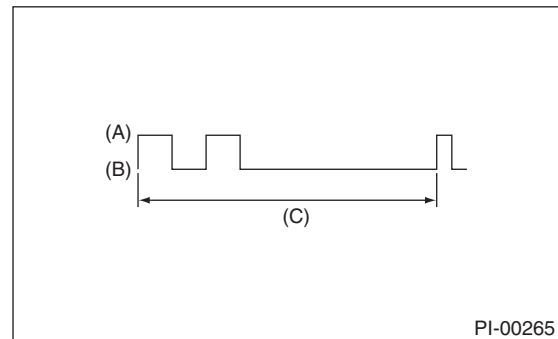


(A) Light ON

(B) Light OFF

(C) 2 seconds

17) Check that the system enters monitoring condition 30 seconds after the condition in 16).



(A) Light ON

(B) Light OFF

(C) 2 seconds

18) When the alarm system is in the monitoring condition, use the inner lock knob or the key to unlock the door, and open the door.

19) Check that the alarm condition occurs (horn sounds continuously, hazard light flashes, security indicator illuminates).

20) Check that the condition in 19) continues for 30 seconds or more, or until the “UNLOCK/DISARM” button of the keyless transmitter is pressed.

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

22) When none of above is applicable, perform troubleshooting for the security system. <Ref. to SL-25, INSPECTION, Security System.>

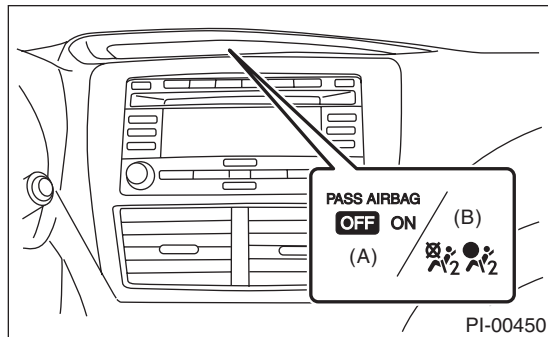
## 23. SEAT

1) Check that each seat provides full functionality in sliding and reclining. Check all available functions of the rear seat such as a trunk-through center armrest.

2) 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. (U4) model)  
(B) Airbag ON/OFF indicator light (Canada, Mexico (CO, C4) model)

3) 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 air-bag ON/OFF indicator illuminates or not.

4) 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.

## 24. 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.

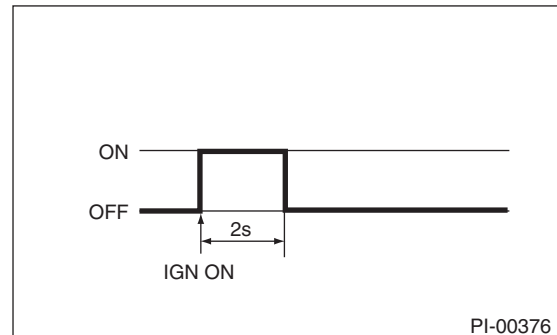
(2) Check the seat belt warning lights of the driver's and the passenger's blink for approximately six seconds and the buzzer sounds intermittently.

(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.)

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

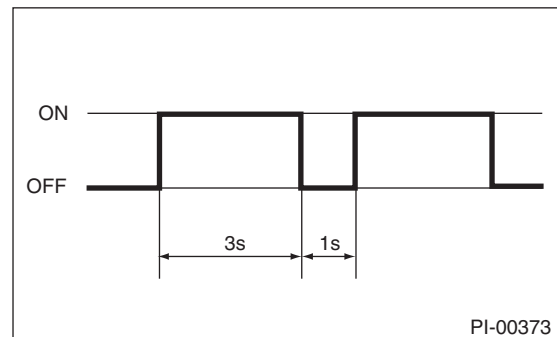
1) Turn the ignition switch to ON, and check that the TPMS warning light is in a normal operation condition.

- Normal operation (IG ON (Light check))

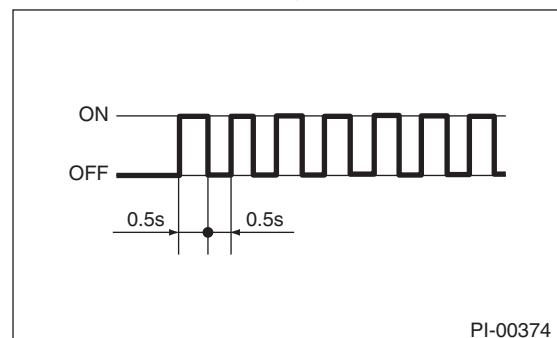


2) If the display of TPMS warning light does not operate normally, check and repair it in the following procedures.

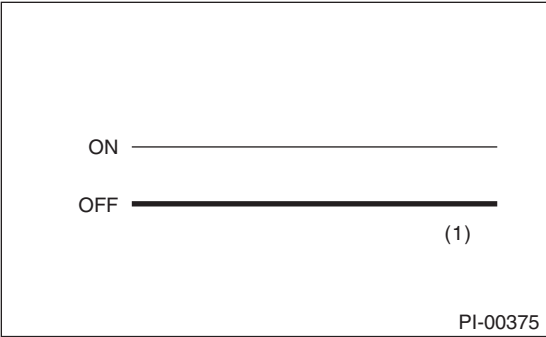
- Transmitter power supplies for all the wheels are OFF \*1 (Radiowave stop mode)



- Transmitter power supplies for the wheels 1 to 3 are OFF \*2 (Radiowave stop preparation mode & SSM communication start)

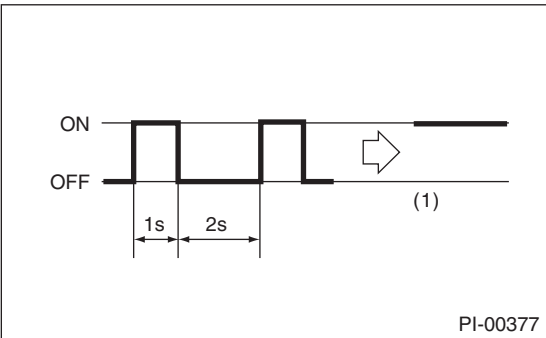


- Normal operation (Normal condition) \*3



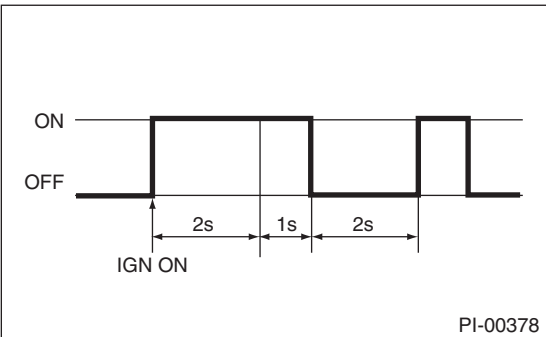
(1) Light OFF

- System failure (Normal condition)

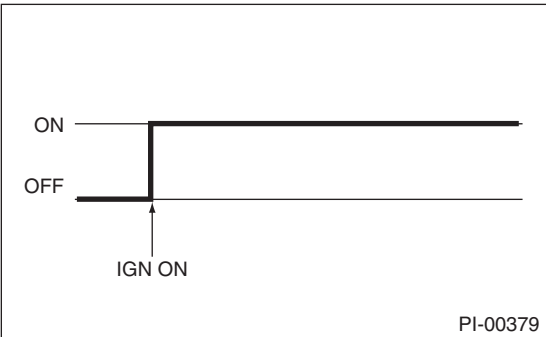


(1) Illuminates after 25 blinks

- System failure (IG ON)



- During tire pressure decrease warning, or ID has not registered



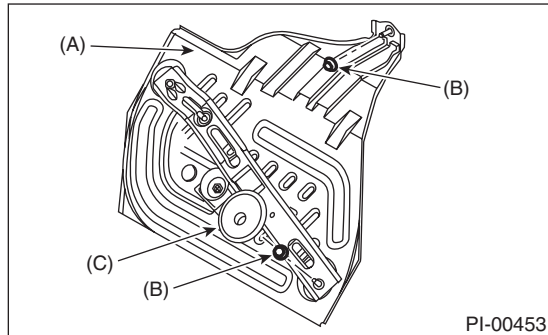
# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

| Step |  | Check   | Yes   | No   |
|------|--|---|---|--|
| 1    | <b>CHECK TPMS WARNING LIGHT.</b><br>1) IG ON<br>2) Check the TPMS warning light condition.   | Does the TPMS warning light condition become *1?                  | Go to step 2.   | Go to step 3.  |
| 2    | <b>TURN THE BULB POWER SUPPLY TO ON.</b><br>1) Touch the transmitter registration tool to the side wall area near the air valve on the tire.<br>2) Press the switch and hold it for 4 seconds or more.<br>3) Perform the same procedures for the four tires. | Does the TPMS warning light condition become *3?                  | Go to step 10.  | Go to step 9.  |
| 3    | <b>CHECK ID.</b><br>1) While checking the display of the Subaru Select Monitor, transmit the transmitter ID using the transmitter registration tool.   | Does the ID of equipped transmitter match with the registered ID? | Go to step 6.   | Go to step 4.  |
| 4    | <b>RE-REGISTER ID.</b><br>1) Register the transmitter.<br>2) After the completion of ID registration, check if the TPMS warning light condition becomes *3.  | Does the TPMS warning light condition become *3?                  | Go to step 11.  | Go to step 6.  |
| 5    | <b>CHECK TIRE INFLATION PRESSURE.</b><br>1) Check the tire inflation pressures of all the four wheels.<br>2) Adjust the tire inflation pressures.<br>3) Check the TPMS warning light condition.  | Does the TPMS warning light condition become *3?                  | Go to step 7.   | Go to step 6.  |
| 6    | <b>DIAGNOSIS.</b><br>1) Check the trouble history using the Subaru Select Monitor.   | Is DTC displayed on Subaru Select Monitor?                        | Repair the trouble cause. <Ref. to TPM(diag)-2, PROCEDURE, Basic Diagnostic Procedure.> | Go to step 7.  |
| 7    | <b>CLEAR TROUBLE HISTORY.</b><br>1) Using the Subaru Select Monitor, perform the clear memory.   | Is DTC displayed on Subaru Select Monitor?                        | Repair the trouble cause. <Ref. to TPM(diag)-2, PROCEDURE, Basic Diagnostic Procedure.> | Go to step 8.  |
| 8    | <b>CHECK TPMS WARNING LIGHT.</b><br>1) IG OFF<br>2) IG ON<br>3) Check the TPMS warning light condition.  | Does the TPMS warning light display show *3?                      | Finish the check operation.   | Perform the diagnosis again. <Ref. to TPM(diag)-2, PROCEDURE, Basic Diagnostic Procedure.> |
| 9    | <b>CHECK TPMS WARNING LIGHT.</b>   | Does the TPMS warning light condition become *1 or *2?            | Go to step 3.   | Go to step 5.  |
| 10   | <b>TRANSMIT DATA FORCIBLY.</b><br>1) Touch the transmitter registration tool to the side wall area near the air valve on the tire.<br>2) Press the switch and hold it for 4 seconds or more.<br>3) Perform the same procedures for the four tires.           | Does the TPMS warning light condition become *3?                  | Finish the check operation.   | Go to step 5.  |
| 11   | <b>TRANSMIT DATA FORCIBLY.</b><br>1) Touch the transmitter registration tool to the side wall area near the air valve on the tire.<br>2) Press the switch and hold it for 4 seconds or more.<br>3) Perform the same procedures for the four tires.           | Does the TPMS warning light condition become *3?                  | Go to step 7.   | Go to step 5.  |

## 26.ECM PROTECTOR

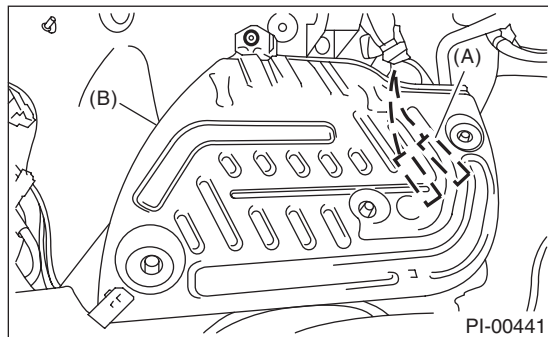
For Canada model, check the ECM protector installation conditions. Make sure that the special nut and the plastic cover of ECM protector are securely installed.



- (A) ECM protector
- (B) Special nut
- (C) Plastic cover

## 27.DELIVERY (TEST) MODE CONNECTOR

- 1) Turn the ignition switch to ON and check that the malfunction indicator light starts blinking.
- 2) If the light blinks, return the ignition key to LOCK.
- 3) Disconnect the delivery (test) mode connector under the passenger's seat.
- 4) Then, turn the ignition key to ON again.
- 5) If the malfunction indicator light blinks even though the delivery (test) mode connector is disconnected, carry out an engine diagnosis.
- 6) Put the disconnected delivery (test) mode connector behind the ECM protector.



- (A) Delivery (test) mode connector
- (B) ECM protector

## 28.IMMOBILIZER

- 1) Check that the engine starts with all keys that are equipped on vehicle.
- 2) 60 seconds after turning ignition switch from ON to ACC or OFF, or immediately after removing the key, check that the security indicator light is blinking.

## 29.STARTING CONDITION

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

## 30.EXHAUST

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

## 31.INDICATOR AND WARNING LIGHTS

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

## 32.HEATER & VENTILATION

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

## 33.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.

## 34.CLOCK

Check the clock for normal operations and enough accuracy.

## 35.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.

## 36.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.

## 37.FRONT ACCESSORY POWER SUPPLY SOCKET

Check the operation of the front accessory power supply socket.

### 38.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.

### 39.ILLUMINATION CONTROL

Check that the illumination control operates normally.

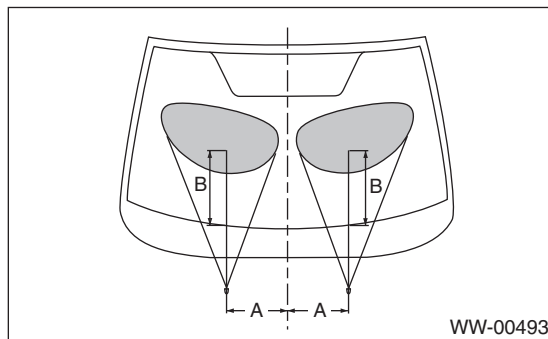
### 40.WINDOW WASHER

Check that the window washer system injects washer fluid to the specified area of the windshield shown in the figure.

**Front spray position:**

**A: 250 mm (9.8 in)**

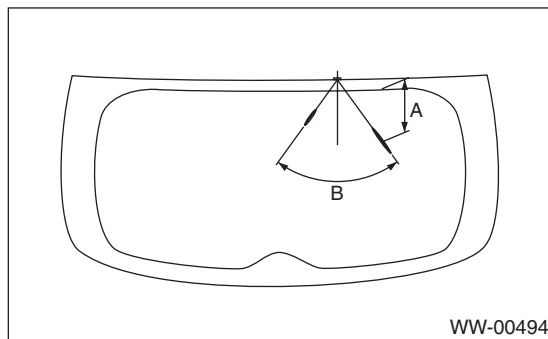
**B: 315 mm (12.4 in)**



**Rear spray position:**

**A: 140 mm (13.97 cm)**

**B: 70°**



### 41.WIPER

Check the front and rear wipers for normal operations.

### 42.WIPER DEICER

Check that the wiper deicer operates normally.

**NOTE:**

When the ambient temperature has become 5°C or more, the wiper deicer operation will be cancelled; therefore, press the switch for 3 seconds or more for forced operation.

### 43.POWER WINDOW

Operate the power window switches one by one to check that each of the power windows goes up and down without noises.

### 44.SUNROOF

Check that the sunroof operates normally.

### 45.REAR DEFOGGER

Check that pressing the rear defogger switch operates and turns on the light inside the switch for approximately 15 minutes, and then turns OFF the rear defogger automatically.

### 46.DOOR MIRROR

Check that the remote control mirror operates normally.

### 47.BRAKE TEST

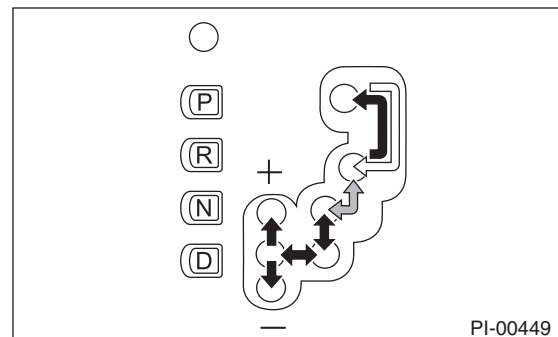
Check the foot brake for normal operations.

### 48.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.

### 49.AT SHIFT CONTROL

- 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 AT selector lever to each gear position and check the shifting while driving the vehicle.



| Selector position | Gear position |     |     |     |
|-------------------|---------------|-----|-----|-----|
|                   | 1st           | 2nd | 3rd | 4th |
| D                 | OK            | OK  | OK  | OK  |
| Manual mode       | OK            | OK  | OK  | OK  |

## 50. CRUISE CONTROL

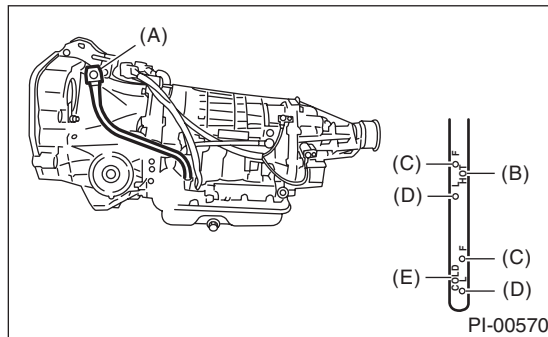
Operate the cruise control system. Check that the system is activated and deactivated correctly.

## 51. ATF LEVEL

After selecting all positions (P, R, N, D), set the select lever in "P" range. Idle the engine for 1 or 2 minutes, and measure the ATF level. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified ATF.

### CAUTION:

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



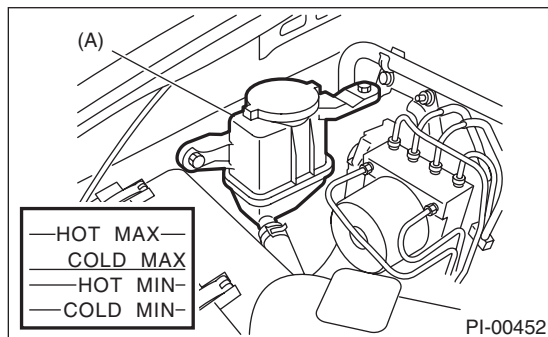
- (A) Level gauge
- (B) Inspection position when "HOT" [70 — 80°C (158 — 176°F)]
- (C) Upper level
- (D) Lower level
- (E) Inspection position when "COLD" [20 — 30°C (68 — 86°F)]

## 52. POWER STEERING FLUID LEVEL

Check that the power steering fluid level is normal. If insufficient, check for leaks. Then add the necessary amount of the specified power steering fluid.

### CAUTION:

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



- (A) Reservoir tank

## 53. FLUID LEAKAGE

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

## 54. 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 0 (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.

## 55. APPEARANCE 2

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

### NOTE:

- When removing the lap 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).

# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

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- 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 identification seal attached to the rear combination light.

# PERIODIC MAINTENANCE SERVICES

# PM

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|  | Page |
|--|------|
| 1. General Description .....                 | 2    |
| 2. Schedule .....                            | 3    |
| 3. Engine Oil .....                          | 7    |
| 4. Engine Oil Filter .....                   | 9    |
| 5. Spark Plug .....                          | 10   |
| 6. V-belt .....                              | 12   |
| 7. Timing Belt .....                         | 14   |
| 8. Fuel Line .....                           | 18   |
| 9. Fuel Filter .....                         | 19   |
| 10. Air Cleaner Element .....                | 20   |
| 11. Cooling System .....                     | 22   |
| 12. Engine Coolant .....                     | 24   |
| 13. Clutch System .....                      | 25   |
| 14. Transmission Gear Oil .....              | 26   |
| 15. Automatic Transmission Fluid .....       | 27   |
| 16. Front & Rear Differential Gear Oil ..... | 29   |
| 17. Brake Line .....                         | 31   |
| 18. Brake Fluid .....                        | 33   |
| 19. Disc Brake Pad and Disc .....            | 34   |
| 20. Parking Brake .....                      | 35   |
| 21. Suspension .....                         | 37   |
| 22. Wheel Bearing .....                      | 39   |
| 23. Axle Boots & Joints .....                | 40   |
| 24. Tire Rotation .....                      | 41   |
| 25. Steering System (Power Steering) .....   | 42   |
| 26. A/C Filter .....                         | 45   |