

## 22. Impact Sensor

### A: REMOVAL

- 1) Pull out the key from the ignition switch, or turn the power to OFF.
- 2) Close all the doors, trunk lid and rear gate.
- 3) Press the UNLOCK button of the keyless transmitter or access key.
- 4) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

#### NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

- 5) Remove the impact sensor.
- 6) Change the setting of impact sensor using Subaru Select Monitor.

### B: INSTALLATION

- 1) Pull out the key from the ignition switch, or turn the power to OFF.
- 2) Close all the doors, trunk lid and rear gate.
- 3) Press the UNLOCK button of the keyless transmitter or access key.
- 4) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

#### NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

- 5) Install the impact sensor.
- 6) Change the setting of impact sensor using Subaru Select Monitor.

### C: OPERATION

#### 1. IMPACT SENSOR SETTING USING SUBARU SELECT MONITOR

- 1) Prepare the Subaru Select Monitor kit.
- 2) Turn the ignition to ON (engine OFF) and run the "PC application for Subaru Select Monitor".
- 3) On «System Selection Menu» display, select {Integ. unit mode}.
- 4) Select {Unit customizing} from {Work Support}.
- 5) Set the impact sensor setting.
  - When installing: ON
  - When removing: OFF
- 6) Set the impact sensor ON/OFF setting.
  - When installing: ON
  - When removing: OFF
- 7) Turn the ignition to OFF, and then remove the Subaru Select Monitor.

### D: ADJUSTMENT

#### 1. CHECK IMPACT SENSOR

- 1) Pull out the key from the ignition switch, or turn the power to OFF.
- 2) Close all the windows.
- 3) Close all the doors, trunk lid and rear gate. Leave open the front hood.
- 4) Press the LOCK button of the keyless transmitter or access key from outside of vehicle.
- 5) Check that the security indicator light blinks twice within 0.5 seconds in 2 second cycles after 30 seconds.
- 6) Hit all windows with the palm with force repeatedly, to check for whether the security alarm operates. Lift up the front hood approx. 12 cm (4.7 in) or more, and then drop it off to check the operation of security alarm.
- 7) If NG, adjust the impact sensitivity.

#### 2. IMPACT SENSITIVITY ADJUSTMENT

- 1) Prepare the Subaru Select Monitor kit.
- 2) Turn the ignition to ON (engine OFF) and run the "PC application for Subaru Select Monitor".
- 3) On the «System Selection Menu», select the {Impact Sensor}.
- 4) Make a {Sensitivity Adjustment Mode}.
  - Sensitivity can be adjusted in 11 levels (0 to 10).
  - Initial setting is 5.
  - Smaller number means more sensitive.
  - Larger number means less sensitive.
- 5) Turn the ignition to OFF, and then remove the Subaru Select Monitor.

#### NOTE:

- Set the sensor so that it is not triggered by normal vibrations (someone reclining on the door, hit by a ball, etc.).
- Set the sensor to operate the alarm when the windshield glass or door is hit hard repeatedly, etc, where it can be assumed that there is an attempt to damage the car by a burglar, etc.
- Even if there is no burglary attempt, if there is vibration (road construction, elevated parking lots, passage of trains or boarding of ferries), the alarm can be triggered. Because of this, ask the customer about their parking conditions, and set an appropriate sensitivity level after discussion.
- If the sensitivity setting was not performed properly, a buzzer will sound four times. In this case, check that there is no error in CAN communication.