

Security System

SECURITY AND LOCKS

7. Security System

A: WIRING DIAGRAM

Refer to "Security System" in the wiring diagram. <Ref. to WI-277, WIRING DIAGRAM, Security System.>

B: ELECTRICAL SPECIFICATION

Refer to "Control Module I/O Signal" of "BODY CONTROL SYSTEM (DIAGNOSTICS)" section. <Ref. to BC(diag)-6, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

C: INSPECTION

1. BASIC DIAGNOSTIC PROCEDURE

	Step	Check	Yes	No
1	INITIAL CHECK. Check the keyless entry system or keyless access system operation.	Does the keyless entry system or keyless access system operate normally?	Go to step 2.	Check the keyless entry system or keyless access system. <ul style="list-style-type: none">• Keyless entry system: <Ref. to SL-18, INSPECTION, Keyless Entry System.>• Keyless access system: <Ref. to KPS(diag)-4, KEYLESS ACCESS WITH PUSH BUTTON START SYSTEM, CAUTION, General Description.>
2	CHECK SECURITY ON/OFF SETTING. 1) Press the LOCK button of the keyless transmitter or access key. 2) Check the security indicator light blinking patterns.	Is the security indicator light blinking patterns as follows? / When monitoring lag is set to 0 seconds: flashes twice within 0.5 seconds, in 2 second intervals / When monitoring lag is set to 30 seconds: illuminates for 0.2 seconds and flashes for 0.2 seconds within 30 seconds.	Go to step 5.	Go to step 3.

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Step	Check	Yes	No
3 CHANGE SETTING OF SECURITY SYSTEM. Change the setting of security system to ON. <Ref. to SL-34, SECURITY SYSTEM ON/OFF SETTING, INSPECTION, Security System.>	Is setting change completed correctly?	Go to step 4.	<ul style="list-style-type: none"> • Check the ignition switch circuit. <Ref. to SL-35, CHECK IGNITION SWITCH CIRCUIT, INSPECTION, Security System.> • Check the push button ignition switch circuit. <Ref. to SL-109, Push Button Ignition Switch.> • Check the door lock switch circuit. <Ref. to SL-28, CHECK DOOR LOCK SWITCH, INSPECTION, Keyless Entry System.>
4 CHECK SETTING CHANGE OF SECURITY SYSTEM. 1) Remove the key from ignition switch or turn the ignition switch to OFF, and close all doors. 2) Press the LOCK button of the keyless transmitter or access key. 3) Check the security indicator light blinking patterns.	Is the security indicator light blinking patterns as follows? / When monitoring lag is set to 0 seconds: flashes twice within 0.5 seconds, in 2 second intervals / When monitoring lag is set to 30 seconds: illuminates for 0.2 seconds and flashes for 0.2 seconds within 30 seconds.	Go to step 5.	Check the security indicator light. <Ref. to SL-35, CHECK SECURITY INDICATOR LIGHT CIRCUIT, INSPECTION, Security System.>
5 CHECK SECURITY SYSTEM OPERATION. Press the LOCK button on the keyless transmitter or access key, then wait for 30 seconds.	Does the security indicator light blink twice within 0.5 seconds in 2 second intervals?	Go to step 6.	Replace the body integrated unit. <Ref. to SL-80, Body Integrated Unit.>
6 CHECK SECURITY ALARM OPERATION. 1) Unlock all doors using the door lock switch on driver's door. 2) Open any door, trunk lid or rear gate.	Does the security alarm operate when opening any door, trunk lid, or rear gate?	Go to step 7.	Check the door switches, trunk lid latch switch or rear gate latch switch. <Ref. to SL-34, CHECK DOOR SWITCH, INSPECTION, Security System.>
7 CHECK SECURITY ALARM OPERATION. Check the security alarm operation.	Do all security alarms operate? / Horn sound / Hazard lights flash / Security indicator light illuminates	Go to step 8.	<ul style="list-style-type: none"> • Check the horn. <Ref. to SL-35, CHECK HORN, INSPECTION, Security System.> • Check the hazard light. <Ref. to SL-35, CHECK HAZARD LIGHT OPERATION, INSPECTION, Security System.>

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Step	Check	Yes	No
8 CHECK SECURITY ALARM CANCEL OPERATION. Press any button of transmitter while the security alarm is operating. Or turn the ignition switch to ON.	Do all security alarms stop? / Horn / Hazard lights	Go to step 9.	Check the ignition switch circuit. <Ref. to SL-35, CHECK IGNITION SWITCH CIRCUIT, INSPECTION, Security System.>
9 CHECK SECURITY SYSTEM CONDITION MEMORY. Check that the system functions properly even when the battery is not connected temporarily. <Ref. to SL-34, CHECK SECURITY SYSTEM CONDITION MEMORY, INSPECTION, Security System.>	Does the system function properly when the battery is not connected temporarily?	Go to step 10.	Replace the body integrated unit. <Ref. to SL-80, Body Integrated Unit.>
10 CHECK IMPACT SENSOR (DEALER OPERATION). Check the sensibility of impact sensor. <Ref. to SL-75, CHECK IMPACT SENSOR, ADJUSTMENT, Impact Sensor.>	Is the sensibility set properly?	Press the UNLOCK button on the keyless transmitter or access key to finish the diagnosis.	Adjust the sensitivity. <Ref. to SL-76, IMPACT SENSITIVITY ADJUSTMENT, ADJUSTMENT, Impact Sensor.>

NOTE:

If the horn sounds when the security is turned on (monitor condition) using the keyless transmitter, check the function setting of the body integrated unit. As a cause, it is possible that the impact sensor present (ON) / not present (OFF) setting is set to ON in the customization function though there is no impact sensor. <Ref. to BC(diag)-17, User Customizing.>

2. CHECK SECURITY SYSTEM CONDITION MEMORY

- 1) Pull out the key from the ignition switch, or turn the ignition to OFF.
- 2) Close all the doors, trunk lid and rear gate.
- 3) Open the front hood.
- 4) Press the LOCK button of the keyless transmitter or access key.

NOTE:

Wait until the security indicator light blinks twice within 0.5 seconds at 2 second intervals.

If the 30 second monitoring lag has been set, wait for 30 seconds.

- 5) Disconnect the ground cable from battery.
- 6) Connect the battery ground terminal.
- 7) Check that the security indicator light blinks twice within 0.5 seconds at 2 second intervals. When it does not blink, replace the body integrated unit.

3. SECURITY SYSTEM ON/OFF SETTING

- 1) Close all doors and rear gate, and sit in the driver's seat. Press the UNLOCK button of the access key.
- 2) Press the push button ignition switch to turn ignition ON.
- 3) Press the central door unlock switch and open the driver's door simultaneously. (Keep the central door unlock switch pressed down.)
- 4) When the condition in step 3) continues for 10 seconds, the system switches to a mode reverse to the current mode.

Setting	Horn activation	Meter display
ON → OFF	2 times	[AL_OF]
OFF → ON	Once	[AL_ON]

4. CHECK DOOR SWITCH

For operation procedure, refer to "CHECK DOOR SWITCH" of "Keyless Entry System". <Ref. to SL-22, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.>

5. CHECK SECURITY INDICATOR LIGHT CIRCUIT

For operation procedures, refer to “CHECK SECURITY INDICATOR LIGHT CIRCUIT” of “IMMOBILIZER (DIAGNOSTICS)” section. <Ref. to IM(diag)-11, CHECK SECURITY INDICATOR LIGHT CIRCUIT, INSPECTION, Diagnostics Chart for Security Indicator Light.>

6. CHECK HORN

Step	Check	Yes	No
1 CHECK HORN OPERATION. Check the horn sounds when the horn switch is pushed.	Does the horn sound?	Go to step 2.	Check the horn circuit.
2 CHECK OUTPUT TO HORN RELAY. 1) Connect the Subaru Select Monitor kit. 2) Turn the ignition switch 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 {Function check}. 5) Select {Horn Output} and execute.	Does the horn sound?	Horn circuit is OK.	Go to step 3.
3 CHECK HORN RELAY CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the body integrated unit connector. 3) Remove the horn relay. 4) Measure the resistance between body integrated unit connector and horn relay. Connector & terminal (B280) No. 24 — Horn relay No. 4:	Is the resistance less than 10 Ω?	Check body integrated unit. <Ref. to BC(diag)-2, Basic Diagnostic Procedure.>	Repair or replace the harness.

7. CHECK HAZARD LIGHT OPERATION

For operation procedure, refer to “CHECK HAZARD LIGHT OPERATION” of “Keyless Entry System”. <Ref. to SL-26, CHECK HAZARD LIGHT OPERATION, INSPECTION, Keyless Entry System.>

8. CHECK IGNITION SWITCH CIRCUIT

Step	Check	Yes	No
1 CHECK IGNITION SWITCH VOLTAGE. 1) Prepare the Subaru Select Monitor kit. 2) Turn the ignition switch 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 {Current Data Display & Save}. 5) Select the {BATT voltage} and {IG power supply voltage}.	Does the {IG power supply voltage} indicates 0 V when ignition is OFF or a value in a range of ±1 V from the {BATT voltage} when ignition is ON.	The ignition switch input circuit is OK.	Go to step 2.
2 CHECK IGNITION SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the body integrated unit connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between body integrated unit connector and chassis ground. Connector & terminal (i171) No. 17 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Check body integrated unit. <Ref. to BC(diag)-2, Basic Diagnostic Procedure.>	Check the harness for open or short circuit between body integrated unit and fuse.