

5. Security System

A: WIRING DIAGRAM

Refer to "Security System" in the wiring diagram. <Ref. to WI-209, WIRING DIAGRAM, Security System.>

B: ELECTRICAL SPECIFICATION

Refer to the Control Module I/O Signal of the BODY CONTROL SYSTEM (DIAGNOSIS). <Ref. to BC(diag)-9, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

C: INSPECTION

1. BASIC DIAGNOSTIC PROCEDURE

Step	Check	Yes	No
1 INITIAL CHECK. Check keyless entry system.	Does the keyless entry system operate normally?	Go to step 2.	Check the keyless entry control module. <Ref. to SL-16, INSPECTION, Keyless Entry System.>
2 CHECK SECURITY ON/OFF SETTING. 1) Remove the key from ignition switch, and then close all doors. 2) Press the UNLOCK button of the keyless transmitter. 3) Check the blinking pattern of security indicator light.	Does the security indicator light blinks at 3 seconds intervals?	Go to step 3.	Check the security indicator light circuit. <Ref. to SL-29, CHECK SECURITY INDICATOR LIGHT CIRCUIT, INSPECTION, Security System.>
3 CHECK SECURITY ON/OFF SETTING. 1) Press the LOCK button of the keyless transmitter. 2) Check the blinking pattern of security indicator light.	Does the security indicator light blinks in the following pattern? / When monitor delay set to 0 second: Blinks twice in 0.5 seconds at 2 seconds intervals / When monitor delay set to 30 seconds: Repeat blinking once in 30 seconds at 0.4 seconds intervals	Go to step 6.	Go to step 4.
4 CHANGE SECURITY SYSTEM SETTING. Change the security system setting to ON. <Ref. to SL-29, SECURITY SYSTEM ON/OFF SETTING, INSPECTION, Security System.>	Is the setting change implemented normally?	Go to step 5.	<ul style="list-style-type: none"> • Check the ignition switch circuit. <Ref. to SL-30, CHECK IGNITION SWITCH CIRCUIT, INSPECTION, Security System.> • Check the door lock switch circuit. <Ref. to SL-25, CHECK DOOR LOCK SWITCH, INSPECTION, Keyless Entry System.>

Security System

SECURITY AND LOCKS

Step	Check	Yes	No
5 CHECK SECURITY SYSTEM SETTING CHANGE. 1) Remove the key from ignition switch, and then close all doors. 2) Press the LOCK button of the keyless transmitter. 3) Check the blinking pattern of security indicator light.	Does the security indicator light blinks in the following pattern? / When monitor delay set to 0 second: Blinks twice in 0.5 seconds at 2 seconds intervals / When monitor delay set to 30 seconds: Repeat blinking once in 30 seconds at 0.4 seconds intervals	Go to step 6.	Check the security indicator light. <Ref. to SL-29, CHECK SECURITY INDICATOR LIGHT CIRCUIT, INSPECTION, Security System.>
6 CHECK SECURITY SYSTEM OPERATION. Press the LOCK button of keyless transmitter, and wait for 30 seconds.	Does the security indicator light blink twice in 0.5 seconds at 2 seconds intervals?	Go to step 7.	Replace the body integrated unit. <Ref. to SL-72, Body Integrated Unit.>
7 CHECK SECURITY ALARM OPERATION. 1) Using the door lock switch on the driver's door, unlock all doors. 2) Open any door, trunk or rear gate.	Does the security alarm operate when opening any door, trunk, or rear gate?	Go to step 8.	Check the door switches, trunk lid switch or rear gate latch switch. <Ref. to SL-20, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.>
8 CHECK SECURITY ALARM OPERATION. Check the security alarm operation.	Do all security alarms operate? /horn activation/hazard light flashing/security indicator light activation	Go to step 9.	<ul style="list-style-type: none"> • Check the horn. <Ref. to SL-30, CHECK HORN, INSPECTION, Security System.> • Check the hazard light. <Ref. to SL-30, CHECK HAZARD LIGHT OPERATION, INSPECTION, Security System.>
9 CHECK SECURITY ALARM CANCEL OPERATION. While the security alarm is operating, press any button on the keyless transmitter, or turn the ignition switch to ON.	Do all security alarms stop? / horn/hazard light	Go to step 10.	Check the ignition switch circuit. <Ref. to SL-30, CHECK IGNITION SWITCH CIRCUIT, INSPECTION, Security System.>
10 CHECK SECURITY SYSTEM STATUS MEMORY. Check if the system functions normally even when the battery is temporarily disconnected. <Ref. to SL-29, CHECK SECURITY SYSTEM CONDITION MEMORY, INSPECTION, Security System.>	Does the system function normally even when the battery is temporarily disconnected?	Go to step 11.	Replace the body integrated unit. <Ref. to SL-72, Body Integrated Unit.>
11 CHECK IMPACT SENSOR (DEALER OPERATION). Check the sensitivity of impact sensor. <Ref. to SL-67, CHECK IMPACT SENSOR, ADJUSTMENT, Impact Sensor.>	Is the sensitivity set appropriately?	Press the UNLOCK button of keyless transmitter, and finish the diagnosis.	Adjust the sensitivity appropriately. <Ref. to SL-68, IMPACT SENSITIVITY ADJUSTMENT, ADJUSTMENT, Impact Sensor.>

NOTE:

If any of the following symptoms emerges, check the function settings of body integrated unit. <Ref. to BC(diag)-20, User Customizing.>

- Horn does not sound though security alarm is activated. A possible cause for this is that the «Security Alarm Setup» has been set to ON by the customization function.
- Horn sounds when the security is set to ON (monitoring) by the keyless transmitter. A possible cause for this is that the impact sensor presence setting (ON: present, OFF: not present) has been set to ON by the customization function though no impact sensor is fitted.

2. CHECK SECURITY SYSTEM CONDITION MEMORY

- 1) Remove the key from the ignition switch or turn the ignition switch 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.

NOTE:

Wait until the security indicator light starts blinking twice in 0.5 second at 2 seconds intervals.

If the monitor delay is set to 30 seconds, wait for 30 seconds.

- 5) Disconnect the ground cable from battery.
- 6) Connect the ground cable to battery.
- 7) Check if the security indicator light blinks twice in 0.5 second at 2 seconds intervals. If not, replace the body integrated unit.

3. SECURITY SYSTEM ON/OFF SETTING

- 1) Close all doors, trunk lid and rear gate, and get seated on the driver's seat. Press the UNLOCK button of the keyless transmitter.
- 2) Turn the ignition switch to ON.
- 3) Press the central door lock switch and open the driver's door simultaneously, and maintain this condition for 10 seconds.
- 4) Status changes to OFF if the security system is ON, or changes to ON if the security system is OFF.

4. CHECK DOOR SWITCH

Refer to the door switch inspection procedure of keyless entry system. <Ref. to SL-20, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.>

5. CHECK SECURITY INDICATOR LIGHT CIRCUIT

For the procedure, refer to CHECK SECURITY INDICATOR LIGHT CIRCUIT in IMMOBILIZER (DIAGNOSTICS). <Ref. to IM(diag)-11, CHECK SECURITY INDICATOR LIGHT CIRCUIT, INSPECTION, Diagnostics Chart for Security Indicator Light.>

Security System

SECURITY AND LOCKS

6. CHECK HORN

	Step	Check	Yes	No
1	CHECK HORN OPERATION. Check if the horn sounds when pressing the horn switch.	Does 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 the {Function check}. 5) Select the {Hazard Output} and execute it.	Does horn sound?	The horn circuit is OK.	Go to step 3.
3	CHECK HORN RELAY CIRCUIT. 1) Disconnect the connector of body integrated unit. 2) Remove the horn relay. 3) 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 LAN(diag)-2, Basic Diagnostic Procedure.>	Repair or replace the harness.

7. CHECK HAZARD LIGHT OPERATION

Refer to the hazard light inspection procedure of keyless entry system. <Ref. to SL-24, 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 the {Current Data Display & Save}. 5) Select the {BATT voltage} and {IG power supply}.	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 harness connector of body integrated unit. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal 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.