

5. Security System

A: WIRING DIAGRAM

Refer to “Security System” in the wiring diagram. <Ref. to WI-138, 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 keyless entry system.	Does the keyless entry system operate normally?	Go to step 2.	Check keyless entry system. <Ref. to SL-17, INSPECTION, Keyless Entry System.>
2 CHECK SECURITY ON/OFF SETTING. 1) Remove the key from ignition switch, and then close all doors. 2) Check the status of security indicator light. 3) Press the LOCK button of the keyless transmitter. 4) Check the status of security indicator light.	Is the security indicator light blinking patterns as follows? • Before pressing the LOCK button: Blinks once within 3 seconds • After pressing the LOCK button: When monitoring lag is set to 0 second, flashes twice within 0.5 seconds in 2 second intervals / When monitoring lag is set to 30 seconds, flashes once within 0.4 seconds in 30 seconds.	Go to step 4.	Go to step 3.
3 CHANGE SETTING OF SECURITY SYSTEM. Change the setting of security system to ON using Subaru Select Monitor. <Ref. to SL-29, SECURITY SYSTEM ON/OFF SETTING, INSPECTION, Security System.>	Is setting change completed correctly?	Go to step 4.	Replace the body integrated unit. <Ref. to SL-78, Body Integrated Unit.>
4 CHECK SECURITY SYSTEM OPERATION. 1) Remove the key from ignition switch, and then close all doors. 2) Press the LOCK button of keyless transmitter, and wait for 30 seconds. 3) Check the security indicator light blinking patterns.	Does the security indicator light blink twice within 0.5 seconds in 2 second intervals?	Go to step 5.	Refer to “SECURITY INDICATOR” of “IMMOBILIZER (DIAGNOSTICS)”. <Ref. to IM(diag)-11, CHECK SECURITY INDICATOR LIGHT CIRCUIT, INSPECTION, Diagnostics Chart for Security Indicator Light.>

Security System

SECURITY AND LOCKS

Step	Check	Yes	No
5 CHECK SECURITY ALARM OPERATION. 1) Operate the driver's door lock switch to the UNLOCK side. 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 6.	Check the following parts. <Ref. to SL-20, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.> <ul style="list-style-type: none"> • Door switches • Trunk lid latch switch • Rear gate latch switch
6 CHECK SECURITY ALARM OPERATION. Check the security alarm operation status.	During the operation, does the horn keep sounding and the hazard light blink?	Go to step 7.	<ul style="list-style-type: none"> • Check the following parts. • Horn: <Ref. to SL-30, CHECK HORN, INSPECTION, Security System.> • Hazard light: <Ref. to SL-24, CHECK HAZARD LIGHT OPERATION, INSPECTION, Keyless Entry System.>
7 CHECK SECURITY ALARM CANCEL OPERATION. Press any button of transmitter while the security alarm is operating.	Do the horn sound and the blinking of the hazard light stop?	Go to step 8.	Replace the body integrated unit. <Ref. to SL-78, Body Integrated Unit.>
8 CHECK IMPACT SENSOR (DEALER OPERATION). Check the sensibility of impact sensor. <Ref. to SL-73, CHECK IMPACT SENSOR, ADJUSTMENT, Impact Sensor.>	Is the sensibility set properly?	Go to step 9.	Adjust the sensitivity. <Ref. to SL-74, IMPACT SENSITIVITY ADJUSTMENT, ADJUSTMENT, Impact Sensor.>
9 CHECK SECURITY SYSTEM CONDITION MEMORY. 1) Remove the key from ignition switch, and then close all doors. 2) Open the front hood. 3) Press the LOCK button of keyless transmitter, and wait for 30 seconds. 4) Disconnect the ground cable from battery. 5) Connect the ground cable to battery. 6) Check the status of security indicator light.	Does the security indicator light blinks twice within 0.5 seconds at 2 second intervals?	Go to step 10.	Replace the body integrated unit. <Ref. to SL-78, Body Integrated Unit.>

Step	Check	Yes	No
10 CHECK SECURITY SYSTEM MANUAL ON/OFF SETTING. 1) Press the UNLOCK button of the keyless transmitter. 2) Change the setting of security system. <Ref. to SL-29, SECURITY SYSTEM ON/OFF SETTING, INSPECTION, Security System.>	Is setting change completed correctly?	Restore the security system settings to those before the diagnosis and finish the diagnosis.	<ul style="list-style-type: none"> • Check the following parts. • Ignition switch circuit: <Ref. to SL-65, INSPECTION, Ignition Key Lock.> • Door lock switch circuit: <Ref. to SL-11, CHECK DOOR LOCK SWITCH, INSPECTION, Door Lock Control System.>

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)-15, 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.

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

NOTE:

It can be set by «Security Alarm Setup» in unit customizing using Subaru Select Monitor.

For detailed procedures, refer to “PC application help for Subaru Select Monitor”.

- 1) Close all doors, trunk lid and rear gate, and sit down on the driver seat. Press the UNLOCK button of the keyless transmitter.
- 2) Turn the ignition switch to 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	Twice	[AL_OF]
OFF → ON	Once	[AL_ON]

Security System

SECURITY AND LOCKS

4. 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 BODY INTEGRATED UNIT. Select and perform the «Horn Output» using Subaru Select Monitor. NOTE: For detailed procedures, refer to “PC application help for Subaru Select Monitor”.	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 connector of body integrated unit. 3) Remove the horn relay. 4) Check the harness between body integrated unit and horn relay. Connector & terminal (B280) No. 24 — Horn relay No. 4:	Is harness normal?	Check body integrated unit. <Ref. to BC(diag)-2, Basic Diagnostic Procedure.>	Repair or replace the harness.

5. CHECK IGNITION SWITCH CIRCUIT

	Step	Check	Yes	No
1	CHECK CURRENT DATA. Display the data of «BATT voltage» and «IG power supply voltage» using the Subaru Select Monitor. NOTE: For detailed procedures, refer to “PC application help for Subaru Select Monitor”.	Does the «IG power supply voltage» indicate 0 V when the ignition is OFF, and fall within a range of ± 1 V from the «BATT voltage» when the 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 connector of body integrated unit. 3) Turn the ignition switch to ON. 4) Measure the voltage between the body integrated unit connector and chassis ground. Connector & terminal (B281) No. 3 (+) — 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.