2. Door Lock Control System

A: WIRING DIAGRAM

Refer to “Keyless Entry System” in WI section. <Ref. to WI-155, WIRING DIAGRAM, Keyless Entry System.>

B: ELECTRICAL SPECIFICATION

1. BODY INTEGRATED UNIT

Refer to the Control Module I/O Signal of the LAN SYSTEM (DIAGNOSTICS). <Ref. to LAN(diag)-10, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

C: INSPECTION

1. SYMPTOM CHART

Symptom	Repair order	Index
The door lock control system does not operate.	1. Remove and visually inspect the following fuses. • No. 3 (in fuse & relay box) • No. 7 (in fuse & relay box) • No. 8 (in main fuse box)	If the fuse is blown out, replace the fuse with a new part. When there is no defective with the fuse, check the power supply and ground circuit. <Ref. to SL-9, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Door Lock Control System.>
	2. Check the power supply and ground circuit for body integrated unit.	<Ref. to SL-9, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Door Lock Control System.>
	3. Check the door lock switch and the circuit.	<Ref. to SL-9, CHECK DOOR LOCK SWITCH, INSPECTION, Door Lock Control System.>
	4. Check the rear gate opener button and the circuit.	<Ref. to SL-10, CHECK REAR GATE OPENER BUTTON CIRCUIT, INSPECTION, Door Lock Control System.>
	5. Check the door lock actuator and the circuit.	<Ref. to SL-11, CHECK DOOR LOCK ACTUATOR AND CIRCUIT, INSPECTION, Door Lock Control System.>
A specific door lock actuator does not operate.	Check the door lock actuator and circuit.	<Ref. to SL-11, CHECK DOOR LOCK ACTUATOR AND CIRCUIT, INSPECTION, Door Lock Control System.>

2. CHECK POWER SUPPLY AND GROUND CIRCUIT

	Step	Check	Yes	No
1	**CHECK POWER SUPPLY.** 1) Disconnect the harness connector of body integrated unit. 2) Measure the voltage between harness connector terminal and chassis ground. ***Connector & terminal*** ***(i84) No. 34 (+) — Chassis ground (–):*** ***(B280) No. 6 (+) — Chassis ground (–):*** ***(B281) No. 2 (+) — Chassis ground (–):***	Is the voltage 10 V or more?	Go to step **2**.	Check the harness for open or short circuit between body integrated unit and fuse.
2	**CHECK GROUND CIRCUIT.** Measure the resistance between harness connector terminal and chassis ground. ***Connector & terminal*** ***(i84) No. 28 — Chassis ground:*** ***(B280) No. 17 — Chassis ground:*** ***(B281) No. 20 — Chassis ground:*** ***(B279) No. 27 — Chassis ground:***	Is the resistance less than 10 Ω?	The power supply and ground circuit are OK.	Repair or replace the harness.

3. CHECK DOOR LOCK SWITCH

	Step	Check	Yes	No
1	**CHECK DOOR LOCK SWITCH.** 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 {Manual lock SW input}.	Does the display switch between OFF ⇔ ON when each door lock switch is moved to LOCK?	Go to step **2**.	Go to step **3**.
2	**CHECK DOOR LOCK SWITCH.** From the condition in step 1), operate each door lock switch (driver’s and passenger’s) in the UNLOCK direction.	Does the display switch between OFF ⇔ ON?	The door lock switch is OK.	Go to step **4**.
3	**CHECK DOOR LOCK SWITCH.** 1) Disconnect the door lock switch harness connector. 2) Check the continuity when the door lock switch is operated to the LOCK side. ***Connector & terminal*** ***Driver’s side:*** ***(D102) No. 2 — (D102) No. 3:*** ***Passenger’s side:*** ***(D125) No. 4 — (D125) No. 5:***	Did the indicator change from “No continuity” (1 MΩ or more) to “Continuity exists” (less than 10 Ω)?	Go to step **4**.	Replace the power window main switch or door lock switch.
4	**CHECK DOOR LOCK SWITCH.** Check the continuity when the door lock switch is operated to the UNLOCK side. ***Connector & terminal*** ***Driver’s side:*** ***(D102) No. 1 — (D102) No. 3:*** ***Passenger’s side:*** ***(D125) No. 2 — (D125) No. 5:***	Did the indicator change from “No continuity” (1 MΩ or more) to “Continuity exists” (less than 10 Ω)?	Go to step **5**.	Replace the power window main switch or door lock switch.

	Step	Check	Yes	No
5	**CHECK HARNESS.** measure the resistance between the door lock switch harness connector and chassis ground. ***Connector & terminal*** ***Driver's side:*** ***(D102) No. 3 — Chassis ground:*** ***Passenger's side:*** ***(D125) No. 5 — Chassis ground:***	Is the resistance less than 10 Ω?	Go to step **6**.	Repair or replace the harness.
6	**CHECK HARNESS.** 1) Disconnect the harness connector of body integrated unit. 2) Measure the resistance between the body integrated unit and door lock switch. ***Connector & terminal*** ***Driver's side:*** ***(D102) No. 2 — (i84) No. 15:*** ***(D102) No. 1 — (i84) No. 29:*** ***Passenger's side:*** ***(D125) No. 4 — (i84) No. 15:*** ***(D125) No. 2 — (i84) No. 29:***	Is the resistance less than 10 Ω?	Replace the body integrated unit. <Ref. to SL-49, Body Integrated Unit.>	Repair or replace the harness.

4. CHECK REAR GATE OPENER BUTTON CIRCUIT

	Step	Check	Yes	No
1	**CHECK REAR GATE OPENER BUTTON.** 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 {R Gate Release SW input}.	Is the display change to OFF ⇔ ON, when the rear gate opener button is operated?	Rear gate opener button is normal.	Go to step **2**.
2	**CHECK HARNESS.** Measure the resistance between the body integrated unit and rear gate opener button. ***Connector & terminal*** ***(B281) No. 24 — (D47) No. 1:***	Is the resistance less than 10 Ω?	Go to step **3**.	Repair or replace the harness.
3	**CHECK HARNESS.** Measure the resistance between the rear gate opener button and chassis ground. ***Connector & terminal*** ***(D47) No. 2 — Chassis ground:***	Is the resistance less than 10 Ω?	Go to step **4**.	Repair or replace the harness.
4	**CHECK REAR GATE OPENER BUTTON.** Measure the resistance between connector terminals when the rear gate opener button is pressed, and when it is released. ***Connector & terminal*** ***(D47) No. 1 — (D47) No. 2:***	Is the resistance when the switch is pressed less than 10 Ω, and 1 MΩ or more when released?	Replace the body integrated unit. <Ref. to SL-49, Body Integrated Unit.>	Replace the rear gate opener button. <Ref. to SL-37, Rear Gate Opener Button.>

5. CHECK DOOR LOCK ACTUATOR AND CIRCUIT

	Step	Check	Yes	No
1	**CHECK HARNESS (DOOR LOCK).** 1) Disconnect the body integrated unit connector and each door lock actuator. 2) Measure the resistance between body integrated unit and each door lock actuator. ***Connector & terminal*** ***(i84) No. 7 — (D72) No. 1: (front door LH)*** ***(i84) No. 7 — (D18) No. 1: (front door RH)*** ***(i84) No. 7 — (D26) No. 1: (rear door LH)*** ***(i84) No. 7 — (D32) No. 1: (rear door RH)***	Is the resistance less than 10 Ω?	Go to step **2**.	Repair or replace the harness.
2	**CHECK HARNESS (DOOR UNLOCK).** Measure the resistance between body integrated unit and each door lock actuator. ***Connector & terminal*** ***(i84) No. 23 — (D72) No. 2: (front door LH)*** ***(i84) No. 8 — (D18) No. 2: (front door RH)*** ***(i84) No. 8 — (D26) No. 2: (rear door LH)*** ***(i84) No. 8 — (D32) No. 2: (rear door RH)***	Is the resistance less than 10 Ω?	Go to step **3**.	Repair or replace the harness.
3	**CHECK HARNESS (TRUNK OR REAR GATE UNLOCK).** Measure the resistance between body integrated unit and trunk lid lock actuator or rear gate lock actuator. ***Connector & terminal*** ***(i84) No. 22 — (R186) No. 2: (4 door model)*** ***(i84) No. 22 — (D46) No. 1: (5 door model)***	Is the resistance less than 10 Ω?	Go to step **4**.	Repair or replace the harness.
4	**CHECK HARNESS (TRUNK OR REAR GATE UNLOCK).** Measure the resistance between the trunk lid lock actuator or rear gate lock actuator and chassis ground. ***Connector & terminal*** ***(R186) No. 1 — Chassis ground: (4 door model)*** ***(D46) No. 2 — Chassis ground: (5 door model)***	Is the resistance less than 10 Ω?	Go to step **5**.	Repair or replace the harness.
5	**CHECK BODY INTEGRATED UNIT OUTPUT SIGNAL.** Measure the voltage between the connector terminals of the body integrated unit when moving the door lock switch to LOCK. ***Connector & terminal*** ***Except for front door LH*** ***(i84) No. 7 (+) — (i84) No. 8 (–):*** ***Front door LH*** ***(i84) No. 7 (+) — (i84) No. 23 (–):***	Does the voltage change from less than 1.5 V → 10 V or more? (During lock output)	Go to step **6**.	Replace the body integrated unit. <Ref. to SL-49, Body Integrated Unit.>
6	**CHECK BODY INTEGRATED UNIT OUTPUT SIGNAL.** Measure the voltage between the connector terminals of the body integrated unit when moving the door lock switch to UNLOCK. ***Connector & terminal*** ***Except for front door LH*** ***(i84) No. 8 (+) — (i84) No. 7 (–):*** ***Front door LH*** ***(i84) No. 23 (+) — (i84) No. 7 (–):***	Does the voltage change from less than 1.5 V → 10 V or more? (During unlock output)	Go to step **7**.	Replace the body integrated unit. <Ref. to SL-49, Body Integrated Unit.>

	Step	Check	Yes	No
7	**CHECK BODY INTEGRATED UNIT OUTPUT SIGNAL.** Measure the voltage between body integrated unit and chassis ground when moving the rear gate opener button. ***Connector & terminal*** ***(i84) No. 22 (+) — Chassis ground (–):***	Does the voltage change from less than 1.5 V → 10 V or more? (During unlock output)	Go to step **8**.	Replace the body integrated unit. <Ref. to SL-49, Body Integrated Unit.>
8	**CHECK DOOR LOCK ACTUATOR.** Check the door lock actuator. • Front door lock actuator <Ref. to SL-33, INSPECTION, Front Door Latch and Door Lock Actuator Assembly.> • Rear door lock actuator <Ref. to SL-36, INSPECTION, Rear Door Latch and Door Lock Actuator Assembly.>	Is the door lock actuator OK?	Go to step **9**.	Replace the door latch and door lock actuator assembly.
9	**CHECK TRUNK LID LOCK ACTUATOR OR REAR GATE LOCK ACTUATOR.** • Trunk lid lock actuator <Ref. to SL-39, INSPECTION, Trunk Lid Latch and Actuator Assembly.> • Rear gate lock actuator <Ref. to SL-38, INSPECTION, Rear Gate Latch and Actuator Assembly.>	Is trunk lid lock actuator or rear gate lock actuator normal?	Check the connection status of the harness and connector that may have a temporary poor contact.	Replace the trunk lid latch and actuator assembly or rear gate latch and actuator assembly.