3. Door Lock Control System

A: WIRING DIAGRAM

Refer to "Keyless Entry System" in the wiring diagram.

- Gasoline engine model: <Ref. to WI(w/o HEV)-160, WIRING DIAGRAM, Keyless Entry System.>
- HEV model: <Ref. to WI(HEV)-165, WIRING DIAGRAM, Keyless Entry System.>

B: ELECTRICAL SPECIFICATION

1. BODY INTEGRATED UNIT

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. SYMPTOM CHART

Symptoms	Repair order	Reference
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. and="" check="" circuit,="" control="" door="" ground="" inspection,="" lock="" power="" sl-15,="" supply="" system.="" to=""></ref.>
	Check the power supply and ground circuit for body integrated unit.	<ref. check="" power<br="" sl-15,="" to="">SUPPLY AND GROUND CIRCUIT, INSPECTION, Door Lock Control System.></ref.>
	3. Check the door lock switch and the circuit.	<ref. check="" door<br="" sl-16,="" to="">LOCK SWITCH, INSPECTION, Door Lock Control System.></ref.>
	4. Check the rear gate opener button and the circuit.	<ref. check="" rear<br="" sl-17,="" to="">GATE OPENER BUTTON CIRCUIT, INSPECTION, Door Lock Control System.></ref.>
	5. Check the door lock actuator and the circuit.	<ref. check="" door<br="" sl-18,="" to="">LOCK ACTUATOR AND CIRCUIT, INSPECTION, Door Lock Control System.></ref.>
A specific door lock actuator does not operate.	Check the door lock actuator and circuit.	<ref. check="" door<br="" sl-18,="" to="">LOCK ACTUATOR AND CIRCUIT, INSPECTION, Door Lock Control System.></ref.>

2. CHECK POWER SUPPLY AND GROUND CIRCUIT

	Step	Check	Yes	No
1	CHECK POWER SUPPLY. 1) Disconnect the connector of body integrated unit. 2) Measure the voltage between the body integrated unit connector and chassis ground. Connector & terminal (i84) No. 6 (+) — Chassis ground (-): (i171) No. 1 (+) — Chassis ground (-): (B281) No. 7 (+) — Chassis ground (-):	Is the voltage 9 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 the body integrated unit connector and chassis ground. Connector & terminal (i84) No. 1 — Chassis ground: (B280) No. 1 — 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 CURRENT DATA. Using the Subaru Select Monitor, display the data of «Manual lock SW input». NOTE: For detailed procedures, refer to "PC application help for Subaru Select Monitor".	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 POWER WINDOW MAIN SWITCH (DOOR LOCK SWITCH). 1) Disconnect the power window main switch (door lock switch) connector. 2) Measure the continuity between terminals when moving the power window main switch (door lock switch) in LOCK direction. Terminals Driver's side (D7) No. 10 — (D102) No. 3: Passenger's side (D125) No. 4 — (D125) No. 5:	Did the indicator change from "No continuity" (1 M Ω 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 POWER WINDOW MAIN SWITCH (DOOR LOCK SWITCH). Measure the continuity between terminals when moving the power window main switch (door lock switch) in UNLOCK direction. Terminals Driver's side (D7) No. 2 — (D102) No. 3: Passenger's side (D125) No. 2 — (D125) No. 5:	Did the indicator change from "No continuity" (1 M Ω or more) to "Continuity exists" (less than 10 Ω)?	Go to step 5.	Replace the power window main switch or door lock switch.
5	CHECK HARNESS. Measure the resistance between the power window main switch (door lock switch) 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. Check the harness between body integrated unit and power window main switch (door lock switch). Connector & terminal Driver's side (D7) No. 10 — (i84) No. 9: (D7) No. 2 — (i84) No. 20: Passenger's side (D125) No. 4 — (i84) No. 9: (D125) No. 2 — (i84) No. 20:	Is harness normal?	Replace the body integrated unit. <ref. sl-87,<br="" to="">Body Integrated Unit.></ref.>	Repair or replace the harness.

4. CHECK REAR GATE OPENER BUTTON CIRCUIT

	Step	Check	Yes	No
1	CHECK CURRENT DATA. Using the Subaru Select Monitor, display the data of «R Gate Release SW input». NOTE: For detailed procedures, refer to "PC application help for Subaru Select Monitor".	Does 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. 1) Disconnect the connectors of body integrated unit and rear gate opener button. 2) Check the harness between the body integrated unit and rear gate opener button. Connector & terminal (i84) No. 10 — (D47) No. 1: 	Is harness normal?	Go to step 3.	Repair or replace the harness.
3	CHECK HARNESS. Measure the resistance between the rear gate opener button connector 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 terminals both when the rear gate opener button is pressed and when not pressed. Terminals No. 1 — No. 2:	Is the resistance less than 10 Ω when the switch is pressed and 1 M Ω or more when not pressed?	Replace the body integrated unit. <ref. sl-87,<br="" to="">Body Integrated Unit.></ref.>	Replace the rear gate opener button.

5. CHECK DOOR LOCK ACTUATOR AND CIRCUIT

	Step	Check	Yes	No
1	CHECK HARNESS (DOOR LOCK).	Is harness normal?	Go to step 2.	Repair or replace
[1) Disconnect the body integrated unit and	io namoto nomia:	33 to 5top 2 .	the harness.
	each door lock actuator connector.			
	Check the harness between body inte-			
	grated unit and each door lock actuator.			
	Connector & terminal			
	Front door LH			
	(i171) No. 2 — (D72) No. 4:			
	Front door RH			
	(i171) No. 2 — (D18) No. 4:			
	Rear door LH			
	(i171) No. 2 — (D26) No. 4:			
	Rear door RH			
	(i171) No. 2 — (D32) No. 4:			
2	CHECK HARNESS (DOOR UNLOCK).	Is harness normal?	4 door model: Go	Repair or replace
	Check the harness between body integrated		to step 5 .	the harness.
	unit and each door lock actuator.		5 door model/XV	
	Connector & terminal		model: Go to step	
	Front door LH		3.	
	(i171) No. 4 — (D72) No. 1:			
	Front door RH			
	(i171) No. 3 — (D18) No. 1:			
	Rear door LH			
	(i171) No. 3 — (D26) No. 1:			
	Rear door RH			
	(i171) No. 3 — (D32) No. 1:			
3	CHECK HARNESS (REAR GATE UNLOCK).	Is harness normal?	Go to step 4.	Repair or replace
	Check the harness between the body inte-			the harness.
	grated unit and rear gate lock actuator.			
	Connector & terminal			
	(i171) No. 7 — (D46) No. 1:			
4	CHECK HARNESS (REAR GATE UNLOCK).	Is the resistance less than 10	Go to step 7.	Repair or replace
	Measure the resistance between the rear gate	Ω?		the harness.
	lock actuator connector and chassis ground.			
	Connector & terminal			
	(D46) No. 2 — Chassis ground:			
5	CHECK HARNESS (TRUNK UNLOCK).	Is harness normal?	Go to step 6.	Repair or replace
	Check the harness between the body inte-			the harness.
	grated unit and trunk lid lock actuator.			
	Connector & terminal			
	(i171) No. 7 — (R186) No. 1:			
6	CHECK HARNESS (TRUNK UNLOCK).	Is the resistance less than 10	Go to step 7.	Repair or replace
	Measure the resistance between the trunk lid	Ω?		the harness.
	lock actuator connector and chassis ground.			
	Connector & terminal			
	(R186) No. 2 — Chassis ground:			
7	CHECK BODY INTEGRATED UNIT OUTPUT	Does the voltage change from	Go to step 8.	Replace the body
	SIGNAL.	less than 1 V \rightarrow 9 V or more?		integrated unit.
	,	(During lock output)		<ref. sl-87,<="" td="" to=""></ref.>
	2) Measure the voltage between terminals of			Body Integrated
	the body integrated unit when operating the			Unit.>
	door lock switch to LOCK direction.			
	Connector & terminal			
	Except for front door LH			
	(i171) No. 2 (+) — (i171) No. 3 (–):			
	Front door LH			
	(i171) No. 2 (+) — (i171) No. 4 (–):			

	Step	Check	Yes	No
8	CHECK BODY INTEGRATED UNIT OUTPUT SIGNAL. Measure the voltage between terminals of the body integrated unit when operating the door lock switch to UNLOCK direction. Connector & terminal Except for front door LH (i171) No. 3 (+) — (i171) No. 2 (-): Front door LH (i171) No. 4 (+) — (i171) No. 2 (-):	Does the voltage change from less than 1 V → 9 V or more? (During unlock output)	Go to step 9.	Replace the body integrated unit. <ref. sl-87,<br="" to="">Body Integrated Unit.></ref.>
9	CHECK BODY INTEGRATED UNIT OUTPUT SIGNAL. Measure the voltage between body integrated unit and chassis ground when operating the rear gate opener button. Connector & terminal (i171) No. 7 (+) — Chassis ground (-):	Does the voltage change from less than 1 V → 9 V or more? (During unlock output)	Go to step 10.	Replace the body integrated unit. <ref. sl-87,<br="" to="">Body Integrated Unit.></ref.>
10	CHECK DOOR LOCK ACTUATOR. Check the door lock actuator. • Front door lock actuator: <ref. actuator="" and="" assembly.="" door="" front="" inspection,="" latch="" lock="" sl-46,="" to=""> • Rear door lock actuator: <ref. actuator="" and="" assembly.="" door="" inspection,="" latch="" lock="" rear="" sl-53,="" to=""></ref.></ref.>	Is the door lock actuator OK?	4 door model: Go to step 12. 5 door model/XV model: Go to step 11.	Replace the door latch and door lock actuator assembly.
11	CHECK REAR GATE LOCK ACTUATOR. Check the rear gate lock actuator. <ref. 56,="" actuator="" and="" assembly.="" gate="" latch="" rear="" sl-="" to=""></ref.>	Is the rear gate lock actuator normal?	Check the connection status of the harness and connector that may have a temporary poor contact.	Replace the rear gate latch and actuator assembly.
12	CHECK TRUNK LID LOCK ACTUATOR. Check the trunk lid lock actuator. <ref. actuator="" and="" assembly.="" latch="" lid="" sl-58,="" to="" trunk=""></ref.>	Is trunk lid lock actuator nor- mal?	Check the connection status of the harness and connector that may have a temporary poor contact.	Replace the trunk lid latch & actuator assembly.