

# Door Lock Control System

## SECURITY AND LOCKS

## 2. Door Lock Control System

### A: WIRING DIAGRAM

#### 1. DOOR LOCK CONTROL

<Ref. to WI-166, WIRING DIAGRAM, Door Lock System.>

### B: INSPECTION

#### 1. SYMPTOM CHART

Symptom	Repair order	Reference
The door lock control system does not operate.	1. Remove and visually check the fuses No. 2 (in the main fuse box) and No. 3 (in the fuse & relay box).	When the fuse is blown out, replace with a new part. When there is no defective with the fuse, check the power supply and ground circuit. <Ref. to SL-8, 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-8, 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 AND CIRCUIT, INSPECTION, Door Lock Control System.>
	4. Check the door lock actuator and the circuit.	<Ref. to SL-10, CHECK DOOR LOCK ACTUATOR AND CIRCUIT, INSPECTION, Door Lock Control System.>
The door lock switch does not operate.	Check the door lock switch and circuit.	<Ref. to SL-9, CHECK DOOR LOCK SWITCH 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-10, CHECK DOOR LOCK ACTUATOR AND CIRCUIT, INSPECTION, Door Lock Control System.>

#### 2. CHECK POWER SUPPLY AND GROUND CIRCUIT

Step	Check	Yes	No
<b>1 CHECK POWER SUPPLY.</b> 1) Disconnect the harness connector of body integrated unit. 2) Measure the voltage between harness connector terminal and chassis ground. <b>Connector &amp; terminal</b> <b>(B280) No. 2 (+) — Chassis ground (–):</b>	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.
<b>2 CHECK GROUND CIRCUIT.</b> Measure the resistance between harness connector terminal and chassis ground. <b>Connector &amp; terminal</b> <b>(B280) No. 4 — Chassis ground:</b> <b>(B280) No. 13 — Chassis ground:</b>	Is the resistance less than 10 Ω?	The power supply and ground circuit are OK.	Repair the harness.

## 3. CHECK DOOR LOCK SWITCH AND CIRCUIT

Step	Check	Yes	No
<b>1 CHECK DOOR LOCK SWITCH CIRCUIT.</b> 1) Disconnect the harness connector of body integrated unit. 2) Measure the resistance between the harness connector terminal and chassis ground when moving the door lock switch to LOCK. <b>Connector &amp; terminal</b> <b>(B281) No. 12 — Chassis ground:</b>	Is the resistance less than 10 $\Omega$ ?	Go to step 2.	Go to step 3.
<b>2 CHECK DOOR LOCK SWITCH CIRCUIT.</b> Measure the resistance between the harness connector terminal and chassis ground when the door lock switch is moved to UNLOCK. <b>Connector &amp; terminal</b> <b>(B281) No. 11 — Chassis ground:</b>	Is the resistance less than 10 $\Omega$ ?	The door lock switch is OK.	Go to step 3.
<b>3 CHECK DOOR LOCK SWITCH GROUND CIRCUIT.</b> 1) Disconnect the door lock switch harness connector. 2) Measure the resistance between the door lock switch harness connector terminal and the body ground. <b>Connector &amp; terminal</b> <b>Driver side:</b> <b>(D7) No. 5 — Chassis ground:</b> <b>Passenger side:</b> <b>(D62) No. 5 — Chassis ground:</b>	Is the resistance less than 1 $\Omega$ ?	Go to step 4.	Repair the open circuit in the harness or chassis ground.
<b>4 CHECK DOOR LOCK SWITCH.</b> 1) Measure the resistance between the door lock switch terminals when moving the door lock switch to LOCK. <b>Connector &amp; terminal</b> <b>Driver side:</b> <b>(D7) No. 5 — No. 9:</b> <b>Passenger side:</b> <b>(D62) No. 4 — No. 5:</b>	Is the resistance less than 1 $\Omega$ ?	Go to step 5.	Replace the door lock switch.
<b>5 CHECK DOOR LOCK SWITCH.</b> Measure the resistance between the door lock switch terminals when moving the door lock switch to UNLOCK. <b>Connector &amp; terminal</b> <b>Driver side:</b> <b>(D7) No. 5 — No. 8:</b> <b>Passenger side:</b> <b>(D62) No. 2 — No. 5:</b>	Is the resistance less than 1 $\Omega$ ?	Check the harness for open circuits or shorts between the body integrated unit and the door lock switch.	Replace the door lock switch.

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### 4. CHECK DOOR LOCK ACTUATOR AND CIRCUIT

Step	Check	Yes	No
<b>1</b> <b>CHECK OUTPUT SIGNAL.</b> Measure the voltage between the harness connector terminal and chassis ground of body integrated unit when moving the door lock switch to LOCK. <b>Connector &amp; terminal</b> <b>(B280) No. 6 (+) — Chassis ground (-):</b>	Is the voltage 10 V or more?	Go to step 2.	Replace the body integrated unit.
<b>2</b> <b>CHECK OUTPUT SIGNAL.</b> Measure the voltage between the harness connector terminal and chassis ground of body integrated unit when moving the door lock switch to UNLOCK. <b>Connector &amp; terminal</b> <b>(B280) No. 7 (+) — Chassis ground (-):</b> <b>(B280) No. 8 (+) — Chassis ground (-):</b>	Is the voltage 10 V or more?	Go to step 3.	Replace the body integrated unit.
<b>3</b> <b>CHECK DOOR LOCK ACTUATOR.</b> Check the door lock actuator. Front door lock actuator: <Ref. to SL-31, Front Door Lock Actuator.> Rear door lock actuator: <Ref. to SL-35, Rear Door Lock Actuator.> Rear gate latch lock actuator: <Ref. to SL-38, Rear Gate Latch Lock Actuator.>	Is the door lock actuator OK?	Check the harness for open or short circuits between body integrated unit and door lock actuator.	Replace the door lock actuator.