SECURITY AND LOCKS > Door Lock Control System

INSPECTION

1. SYMPTOM CHART

Symptom	Repair order	Reference
The door lock control system does not operate.	1. Check the fuse.	
	2. Check the power supply and ground circuit for the keyless entry control module (model without double lock) or double lock unit (model with double lock).	
	3. Check the door lock switch and the circuit.	
	4. Check the door lock actuator and the circuit.	
The door lock switch does not operate.	Check the door lock switch and circuit.	
A specific door lock actuator does not operate.	Check the door lock actuator and circuit.	
The key cylinder lock switch does not operate. (Model with double lock)	Check the key cylinder lock switch and circuit.	
The double lock does not operate. (Model with double lock)	Check the door lock actuator (double lock) and circuit.	

2. CHECK FUSE

STEP	CHECK	YES	NO
1.CHECK FUSE. Remove and visually check the fuses No. 2 (in the main fuse box) and No. 3 (in the fuse & relay box).	Is the fuse blown out?	Replace the fuse with a new part.	Check the power supply and ground circuit.

3. CHECK POWER SUPPLY AND GROUND CIRCUIT

STEP	CHECK	YES	NO
1.CHECK POWER SUPPLY. 1) Disconnect the keyless entry control module or double lock unit harness connector.	Is the voltage 10 V or more?		Check the harness for open circuits or shorts between the keyless entry control module or double lock unit and the fuse.

STEP	CHECK	YES	NO
2) Measure the voltage between harness connector terminal and chassis ground. **Connector & terminal** **Model without double lock:** (B176) No. 5 (+) — Chassis ground (−): (B176) No. 16 (+) — Chassis ground (−): **Model with double lock:** (B324) No. 7 (+) — Chassis ground (−): (B324) No. 8 (+) — Chassis ground (−):			
2.CHECK GROUND CIRCUIT. Measure the resistance between harness connector terminal and chassis ground. **Connector & terminal** **Model without double lock:** (B176) No. 6 — Chassis ground: (B176) No. 14 — Chassis ground: **Model with double lock:** (B324) No. 9 — Chassis ground:	Is the resistance less than 10 Ω?	The power supply and ground circuit are OK.	Repair the harness.

4. CHECK DOOR LOCK SWITCH AND CIRCUIT

STEP	CHECK	YES	NO
1.CHECK DOOR LOCK SWITCH CIRCUIT. 1) Disconnect the keyless entry control module or double lock unit harness connector. 2) Measure the resistance between the harness connector terminal and chassis ground when moving the door lock switch to LOCK. **Connector & terminal** **Model without double lock:** (B176) No. 10 — Chassis ground: **Model with double lock:** (B325) No. 7 — Chassis ground:	Is the resistance less than 10 Ω?		
2.CHECK DOOR LOCK SWITCH CIRCUIT.		The door lock switch is OK.	

STEP	CHECK	YES	NO
Measure the resistance between the harness connector terminal and chassis ground when the door lock switch is moved to UNLOCK. **Connector & terminal** **Model without double lock:** (B176) No. 8 — Chassis ground: **Model with double lock:** (B325) No. 4 — Chassis ground:	Is the resistance less than 10 Ω?		
3.CHECK DOOR LOCK SWITCH. 1) Disconnect the door lock switch harness connector. 2) Measure the resistance between the door lock switch terminals when moving the door lock switch to LOCK. **Connector & terminal** **LHD model:** (D7) No. 5 — No. 9: **RHD model:** (D7) No. 1 — No. 15:	Is the resistance less than 1 Ω?		Replace the door lock switch.
4.CHECK DOOR LOCK SWITCH. Measure the resistance between the door lock switch terminals when moving the door lock switch to UNLOCK. **Connector & terminal** **LHD model:** (D7) No. 5 — No. 8: **RHD model:** (D7) No. 1 — No. 16:	Is the resistance less than 1 Ω?	Check the harness for open circuits or shorts between the keyless entry control module or double lock unit and the door lock switch.	Replace the door lock switch.

5. CHECK DOOR LOCK ACTUATOR AND CIRCUIT

STEP	CHECK	YES	NO
1.CHECK OUTPUT SIGNAL. Measure the voltage between the harness connector terminal and chassis ground of keyless entry control module or double lock unit when moving the door lock switch to LOCK. **Connector & terminal**	Is the voltage 10 V or more?		Replace the keyless entry control module or double lock unit.

STEP	CHECK	YES	NO
Model without double lock: (B176) No. 18 (+) — Chassis ground (−): **Model with double lock:** (B324) No. 3 (+) — Chassis ground (−):			
2.CHECK OUTPUT SIGNAL. Measure the voltage between the harness connector terminal and chassis ground of keyless entry control module or double lock unit when moving the door lock switch to UNLOCK. **Connector & terminal** **Model without double lock:** (B176) No. 17 (+) — Chassis ground (−): **Model with double lock:** (B324) No. 5 (+) — Chassis ground (−):	Is the voltage 10 V or more?		Replace the keyless entry control module or double lock unit.
3.CHECK DOOR LOCK ACTUATOR. Check the door lock actuator. Front door lock actuator: Rear door lock actuator: Rear gate latch lock actuator:	Is the door lock actuator OK?	Check the harness for open circuits or shorts between the keyless entry control module or double lock unit and the door lock actuator.	Replace the door lock actuator.

6. CHECK KEY CYLINDER LOCK SWITCH (DOUBLE LOCK) AND CIRCUIT

STEP	CHECK	YES	NO
1.CHECK KEY CYLINDER LOCK SWITCH CIRCUIT. 1) Disconnect the double lock unit harness connector. 2) Measure the resistance between the harness connector terminal and chassis ground when moving the key cylinder lock switch to LOCK. **Connector & terminal** (B325) No. 3 — Chassis ground:	Is the resistance less than 10 Ω?		
2.CHECK KEY CYLINDER LOCK SWITCH CIRCUIT. Measure the resistance between the harness connector terminal and chassis ground when the key cylinder lock switch is moved to UNLOCK. **Connector & terminal** (B325) No. 2 — Chassis ground:	Is the resistance less than 10 Ω?	The key cylinder lock switch is OK.	
3.CHECK KEY CYLINDER LOCK SWITCH.			

STEP	CHECK	YES	NO
1) Disconnect the key cylinder lock switch harness connector. 2) Measure the resistance between the key cylinder lock switch terminals when moving the key cylinder lock switch to LOCK. **Terminals** No. 3 — No. 2:	Is the resistance less than 1 Ω?		Replace the key cylinder lock switch.
4.CHECK KEY CYLINDER LOCK SWITCH. Measure the resistance between the key cylinder lock switch terminals when moving the key cylinder lock switch to UNLOCK. **Terminals** No. 2 — No. 1:	Is the resistance less than 1 Ω?	Check the harness for open circuits or shorts between the double lock unit and the key cylinder lock switch.	Replace the key cylinder lock switch.

7. CHECK DOOR LOCK ACTUATOR (DOUBLE LOCK) AND CIRCUIT

STEP	CHECK	YES	NO
1.CHECK OUTPUT SIGNAL. Measure the voltage between the harness connector terminal and chassis ground of double lock unit when moving the key cylinder lock switch to LOCK. **Connector & terminal** (B324) No. 3 (+) — Chassis ground (−):	Is the voltage 10 V or more?		Replace the double lock unit.
2.CHECK OUTPUT SIGNAL. Measure the voltage between the harness connector terminal and chassis ground of double lock unit when moving the key cylinder lock switch to UNLOCK. **Connector & terminal** (B324) No. 6 (+) — Chassis ground (−):	Is the voltage 10 V or more?		Replace the double lock unit.
3.CHECK DOOR LOCK ACTUATOR. Check the door lock actuator. Front door lock actuator: Rear door lock actuator:	Is the door lock actuator OK?	Check the harness for open circuits or shorts between the double lock unit and the door lock actuator.	Replace the door lock actuator.