Checklist

	Procedure / Proper operation	Symptom	Flowchart No.
	Key lock interlock system: Operate driver-side door lock cylinder with key, and verify that passenger-side door locks and unlocks. Lock knob interlock system: Operate driver-side door lock knob, and verify that passenger-side door locks and unlocks.	Power door lock system on passenger side does not function	1

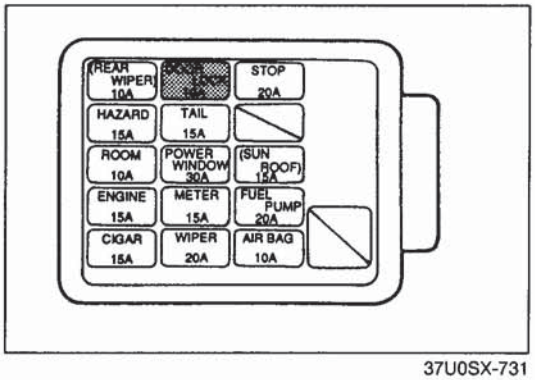
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Flowchart No.1	Symptom	Power door lock system on passenger side does not function

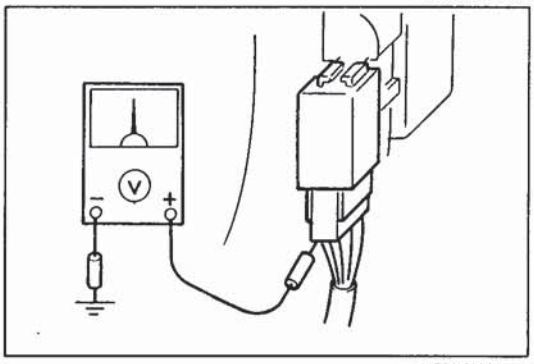
Possible cause

- Burnt DOOR LOCK 10A fuse
- Damaged door lock timer unit
- Damaged door lock switch
- Damaged power door lock actuator
- Open or short circuit in wiring harness
- Poor connection of connector

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Step 1

Check the DOOR LOCK 10A fuse in the fuse block.

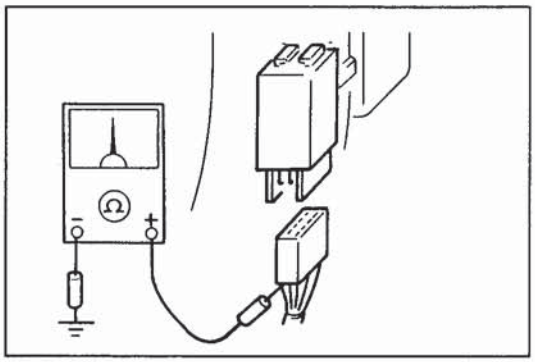
Fuse	Action
OK	Go to Step 2
Burnt	Replace fuse after checking and repairing wiring harness

Step 2

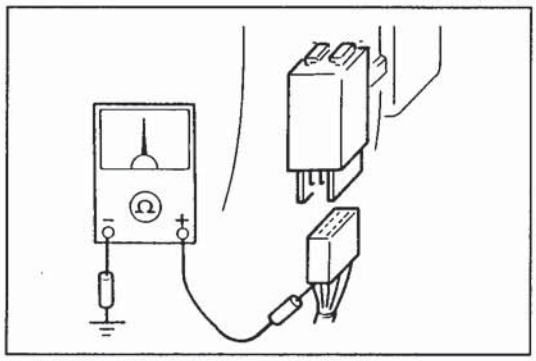
1. Remove the front side trim. (Refer to the 1994 RX-7 Workshop Manual, section S.)
2. Measure the voltage at the (L) terminal wire of the door lock timer unit.

B+: Battery positive voltage

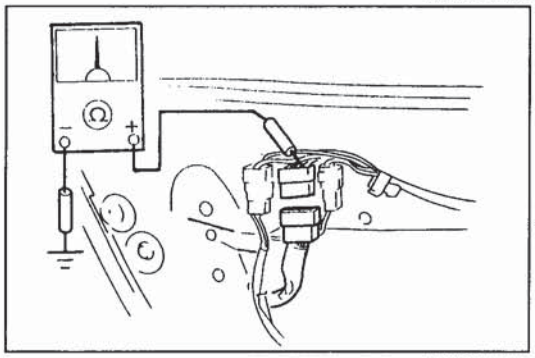
Voltage	Action
B+	Go to Step 3
Other	Repair wiring harness (Fuse block—Door lock timer unit)



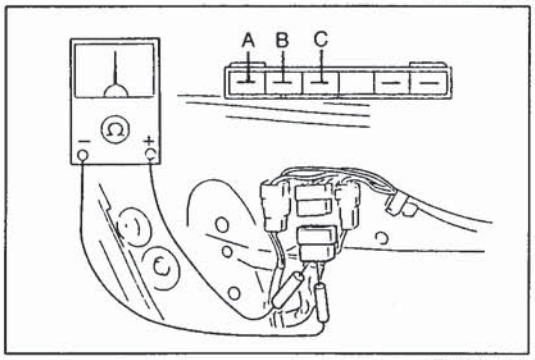
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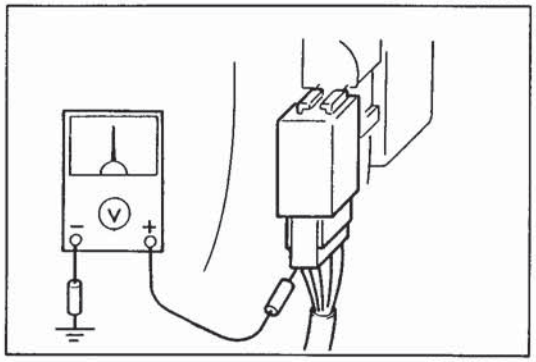
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Step 3
1. Disconnect the door lock timer unit harness connector.
2. Check for continuity between the (B) terminal wire and ground.

Continuity	Action
Yes	Go to Step 4
No	Repair wiring harness (Door lock timer unit—GND)

Step 4
1. Check for continuity between the (G/Y) and (G/R) terminal wires of the door lock timer unit harness connector and ground with the door lock knob in the following positions.

Terminal / Knob position	(G/Y) wire	(G/R) wire
Locked	○	×
Unlocked	×	○

○: Continuity

2. If correct, go to Step 7.
3. If not as specified, go to Step 5.

Step 5
1. Remove the door trim. (Refer to page K2–11.)
2. Disconnect the door lock switch harness connector.
3. Check for continuity between the (B) terminal wire and ground.

Continuity	Action
Yes	Go to Step 6
No	Repair wiring harness (Door lock switch—GND)

Step 6
1. Check for continuity between the terminals of the door lock switch harness connector.

Terminal / Switch condition	A	B	C
Locked	○——	——○	
Unlocked	○——		——○

○—○ : Continuity

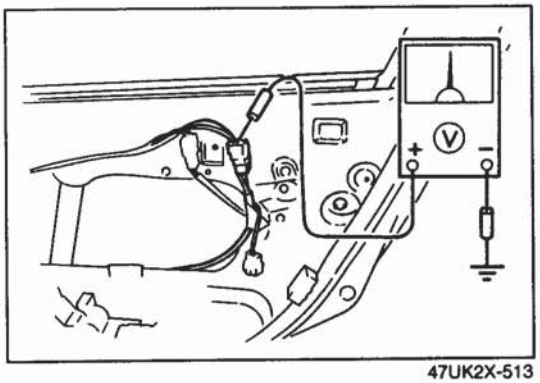
2. If correct, repair the wiring harness (door lock timer unit—door lock switch)
3. If not as specified, the door lock switch.

Step 7
1. Measure the voltage at the (G) and (O) terminal wires of the door lock timer unit harness connector with the door lock knob in the following positions.

B+: Battery positive voltage

Knob position	Terminal	Voltage
Unlocked → Locked	(G) wire	0V → B+ → 0V
Locked → Unlocked	(O) wire	0V → B+ → 0V

2. If correct, go to Step 8.
3. If not as specified, replace the door lock timer unit



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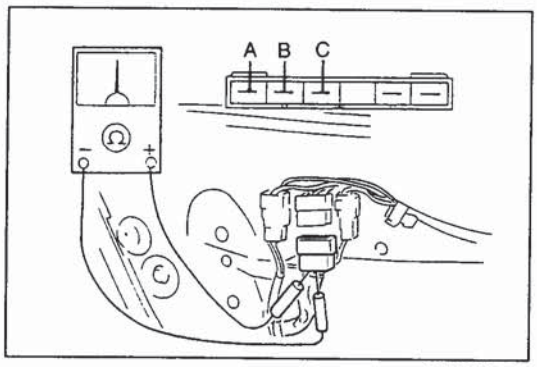
Step 8

1. Measure the voltage at the terminal wires of the power door lock actuator harness connector with the door lock knob in the following positions.

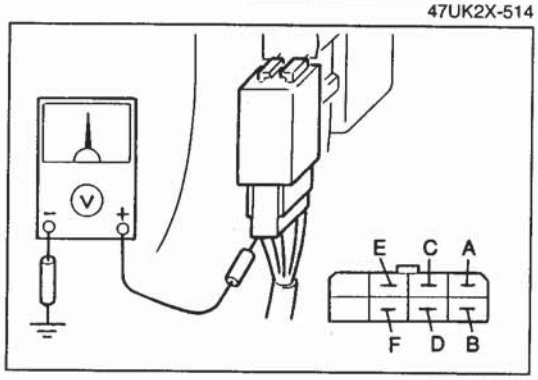
B+: Battery positive voltage

Knob position	Terminal	Voltage
Unlocked → Locked	(G) wire	0V → B+ → 0V
Locked → Unlocked	(O) wire	0V → B+ → 0V

2. If correct, check the power door lock actuator. (Refer to page K2–10.)
3. If not as specified, repair the wiring harness (door lock timer unit—power door lock actuator).



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DOOR LOCK SWITCH

Inspection

1. Remove the door trim and door screen. (Refer to page K2–11.)
2. Check for continuity between the terminals of the door lock switch harness connector.

Switch condition \ Terminal	A	B	C
Locked	○——	——○	
Unlocked	○——		——○

○—○ : Continuity

3. If not as specified, replace the door lock switch.

DOOR LOCK TIMER UNIT

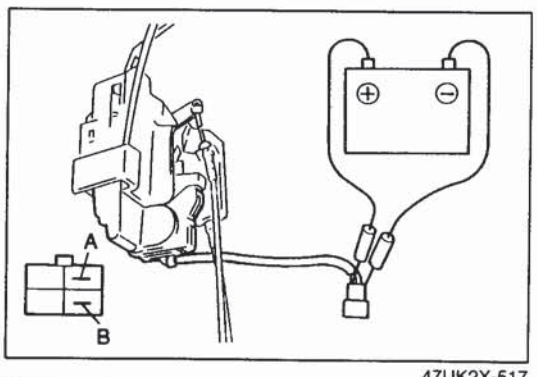
Inspection

1. Remove the front side trim. (Refer to the 1994 RX–7 Workshop Manual, section S.)
2. Measure the voltage between the door lock timer unit terminals as indicated below.
3. If not as specified, replace the door lock timer unit.

B+: Battery positive voltage

Terminal	Connection	Test condition	Voltage
A	Ground	Constant	0V
B	Door lock 10A fuse	Constant	B+
C	Door lock switch	Door lock switch unlocked	0V
		Other	B+
D	Door lock switch	Door lock switch locked	0V
		Other	B+
E	Power door lock actuator	Unlocked → Locked	0V → B+ → 0V
		Other	0V
F	Power door lock actuator	Locked → Unlocked	0V → B+ → 0V
		Other	0V

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POWER DOOR LOCK ACTUATOR

Inspection

1. Remove the door trim and door screen. (Refer to page K2–11.)
2. Disconnect the door lock actuator connector.
3. Apply battery positive voltage and check the operation of the actuator.

B+: Battery positive voltage

Connection		Actuator operation
B+	Ground	
B	A	Lock
A	B	Unlock

DOOR LOCK AND OPENER

COMPONENTS

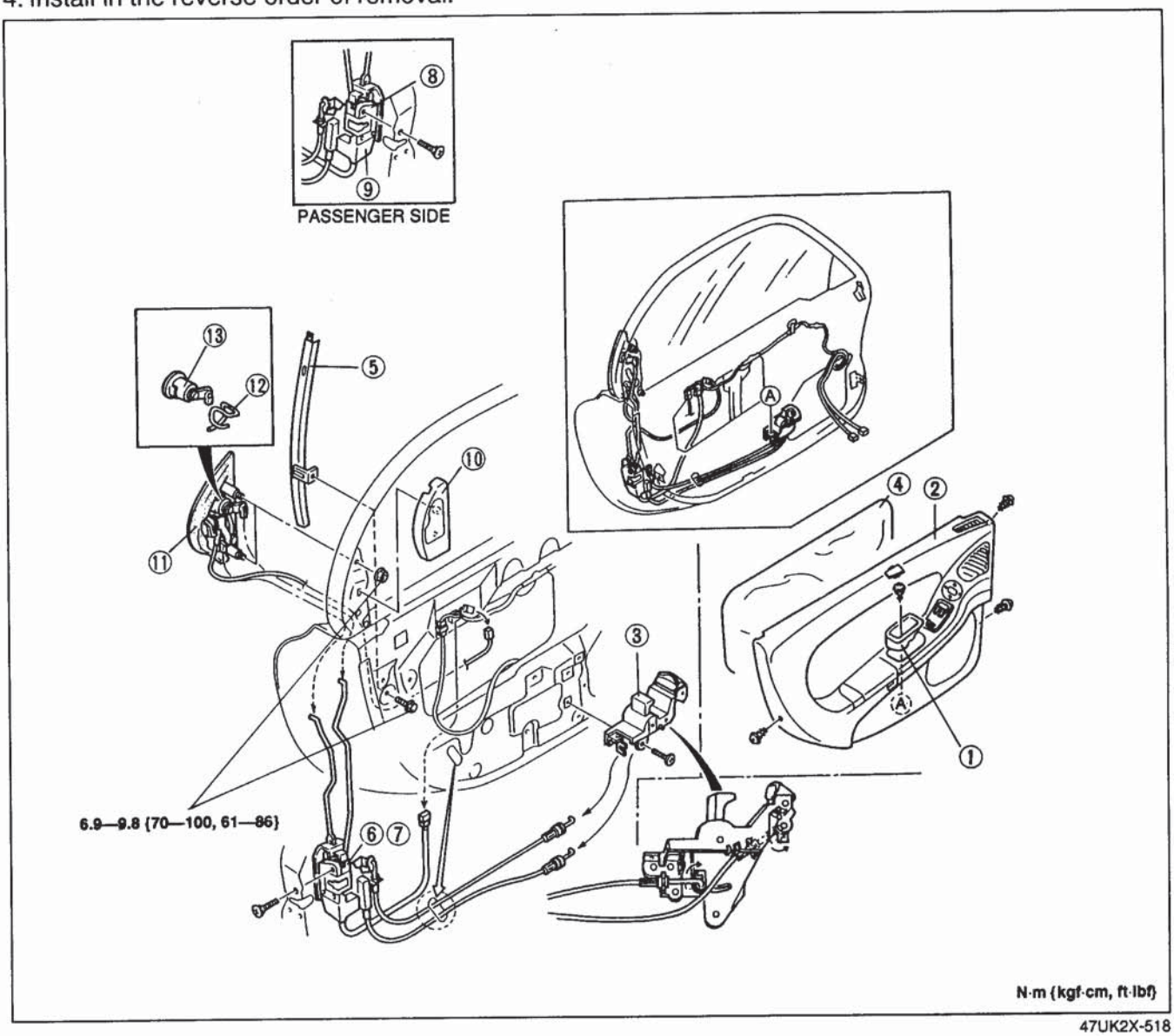
Removal / Installation

1. Raise the front door glass fully.
2. Disconnect the negative battery cable.

Note

- Remove the door screen carefully so that it may be reused.

3. Remove in the order shown in the figure. (Refer to the 1994 RX-7 Workshop Manual, section S, when removing the door trim.)
4. Install in the reverse order of removal.



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1. Inner handle cover
2. Door trim
3. Inner handle
4. Door screen
5. Glass guide B
6. Door lock
7. Door lock switch (door lock)
   Inspection ..... page K2–10
8. Door lock
9. Power door lock actuator (door lock)
   Inspection ..... page K2–10
10. Inner garnish
11. Outer handle
12. Lock cylinder retainer
13. Lock cylinder