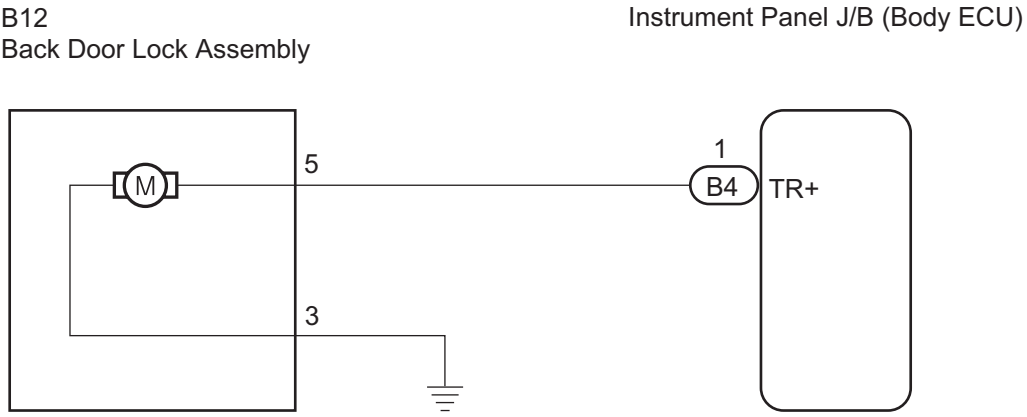
Back Door Lock Motor Circuit

DESCRIPTION

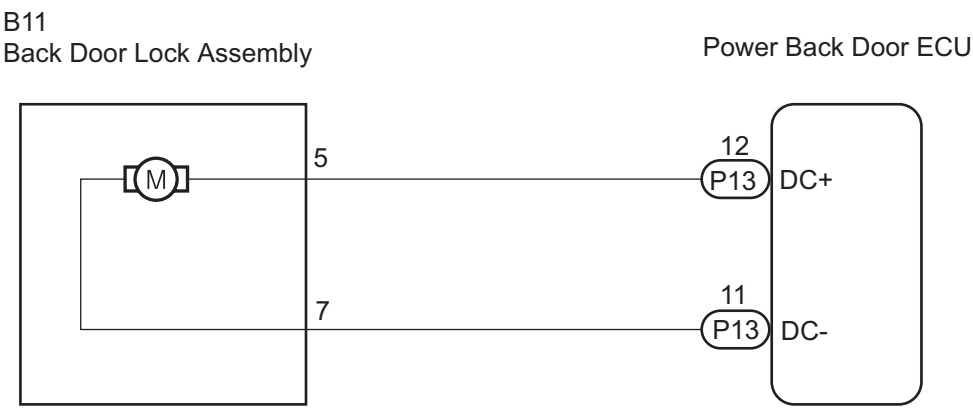
w/o power back door system:
The back door lock motor is built into the back door lock assembly. When a back door open signal is input to the body ECU, the ECU applies current to the back door lock motor via terminal TR+ to activate the motor to open the back door.
w/ power back door system:
The back door lock motor is built into the back door lock assembly. The power back door ECU controls the back door lock motor to open/close the back door. This ECU applies current from terminal DC+ to terminal DC- to operate the motor to close the door. It reverses the direction of the current to operate the motor to open the door.
NOTICE:
The power back door ECU records the back door positions in the memory. In the case where any of the batteries, fuses, power back door ECU and power back door drive unit are removed and then reinstalled, the power back door ECU loses the memory of the door positions. In such a case, resetting the power back door system is necessary. Refer to the resetting operation (See page ED-69).

WIRING DIAGRAM

w/o Power Back Door System:



w/ Power Back Door System:



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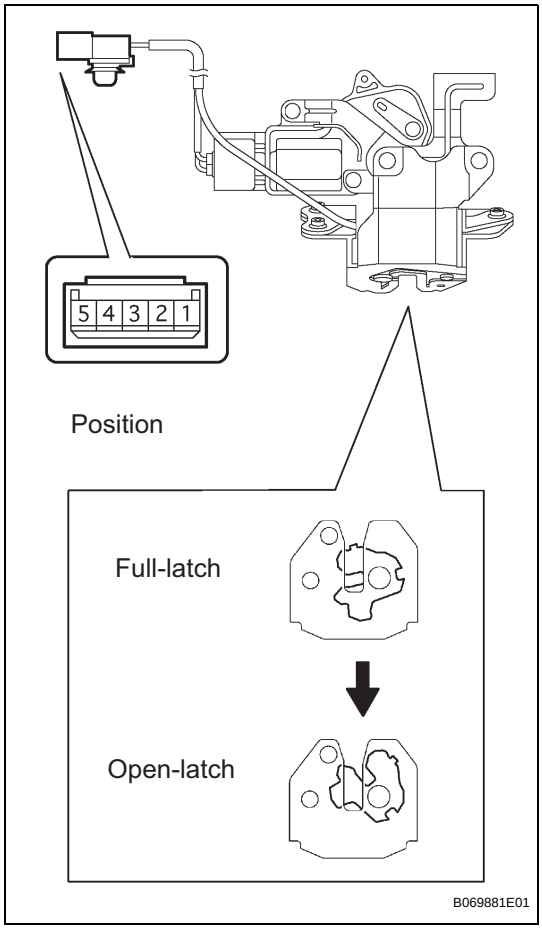
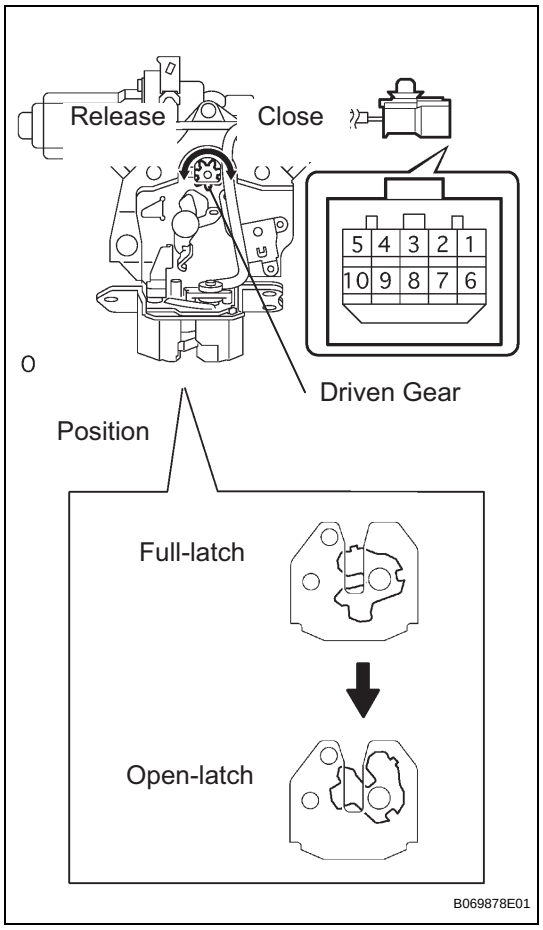
1	**INSPECT BACK DOOR LOCK ASSEMBLY**



(a) w/o Back door closer system:
  (1) Remove the back door lock assembly.
  (2) Using a screwdriver, push the latch in order to put the back door lock in the locked condition (full-latch position).
  (3) Apply battery voltage and check operation of the door lock motor.
  OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 5 Battery negative (-) → Terminal 3	**Latch turns to open-latch position**



OK

(b) w/ Back door closer system:
   (1) Remove the back door lock assembly.
   (2) Using a screwdriver, push the latch in order to put the back door lock in the locked condition (full-latch position).
   (3) Apply battery voltage and check operation of the door lock motor.
   OK

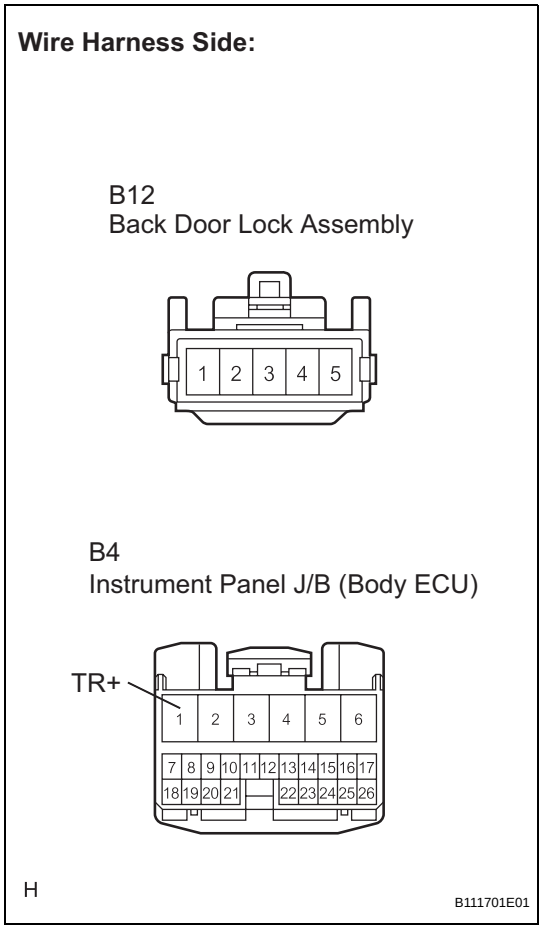
Measurement Condition	Specified Condition
Battery positive (+) → Terminal 7 Battery negative (-) → Terminal 5	Latch turns to open-latch position

(c) Check motor operation when battery voltage is applied to the terminals.
   OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 5 Battery negative (-) → Terminal 7	Close operation (Clock wise)
Battery positive (+) → Terminal 7 Battery negative (-) → Terminal 5	Release operation (Counterclockwise rotation)

NG → **REPLACE BACK DOOR LOCK ASSEMBLY**

2	CHECK WIRE HARNESS



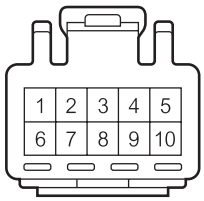
(a) w/o Back door closer system:
  (1) Disconnect the back door lock assembly connector.
  (2) Disconnect the instrument panel J/B connector.
  (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

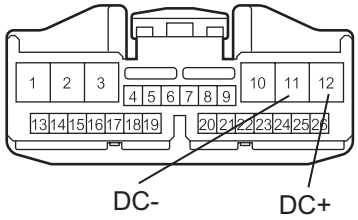
Tester Connection	Condition	Specified Condition
B12-5 - B4-1 (TR+)	Always	Below 1 Ω
B12-3 - Body ground	Always	Below 1 Ω

Wire Harness Side:

B11
Back Door Lock Assembly



P13
Power Back Door ECU



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(b) w/ Back door closer system:
(1) Disconnect the back door lock assembly connector.
(2) Disconnect the power back door ECU connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
B11-5 - P13-12 (DC+)	Always	Below 1 Ω
B11-7 - P13-11 (DC-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE