Power Back Door Opener / Closer Switch Circuit

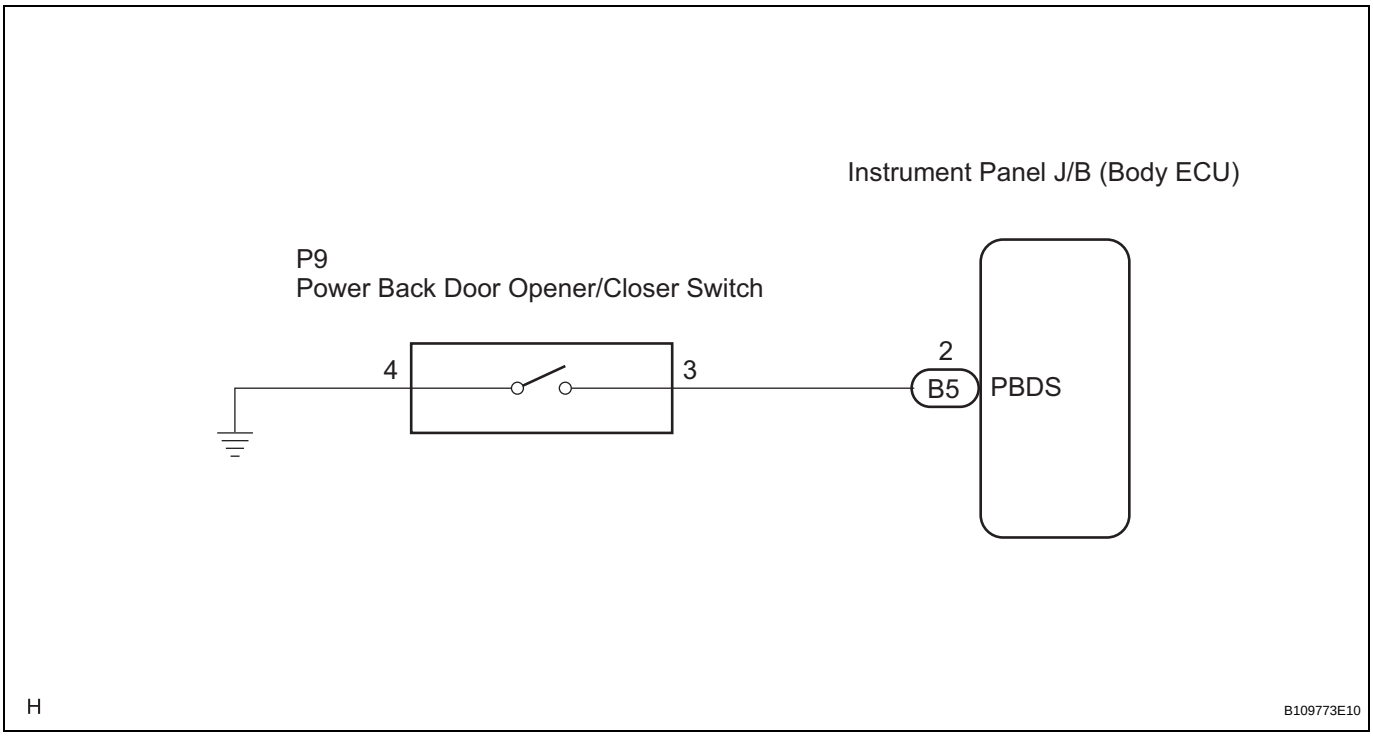
DESCRIPTION

The power back door opener/closer switch only turns on while the switch is being pressed, and turns off when the switch is released.
The body ECU is connected to the power back door opener/closer switch via terminal PBDS and power back door operation request signals are input to the ECU.
The body ECU applies voltage to the power back door opener/closer switch via terminal PBDS. When the switch is on (there is continuity between the switch terminals), a power back door operation request signal is input to the body ECU to operate the back 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-33).

WIRING DIAGRAM



1	READ VALUE OF DATA LIST (POWER BACK DOOR OPENER/CLOSER SWITCH)

(a) Check the DATA LIST to ensure proper function of the power back door opener/closer switch.

BODY (Body ECU):

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
B DOE OPER SW	Power back door opener/closer switch signal /ON or OFF	ON: Power back door opener/ closer switch is pushed OFF: Power back door opener/ closer switch is not pushed	-

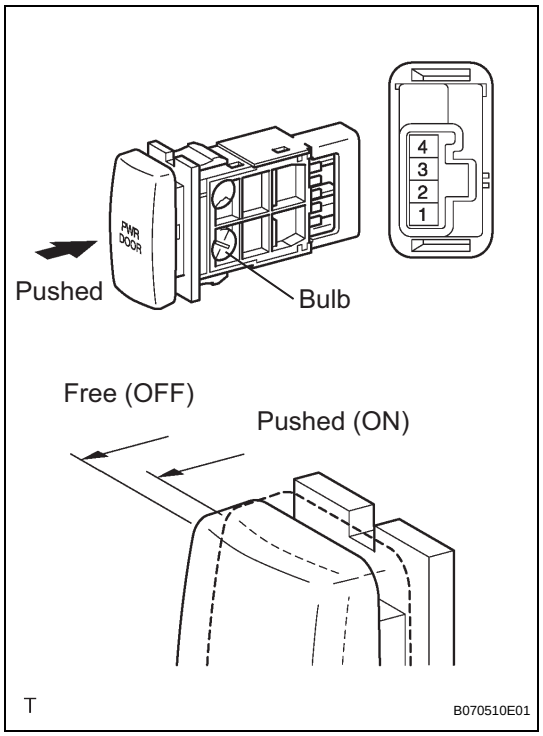
OK:
The display is as specified in the normal condition.

NG → **Go to step 2**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

2 INSPECT POWER BACK DOOR OPENER/CLOSER SWITCH ASSEMBLY



(a) Remove the power back door opener/closer switch assembly.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Switch Position	Specified Condition
3 - 4	Pushed (ON)	Below 1 Ω
3 - 4	Free (OFF)	10 kΩ or higher

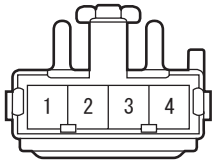
NG → **REPLACE POWER BACK DOOR OPENER / CLOSER SWITCH ASSEMBLY**

OK

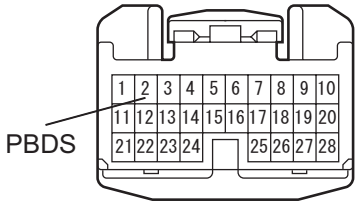
3	CHECK WIRE HARNESS (POWER BACK DOOR OPENER/CLOSER SWITCH - POWER BACK DOOR ECU)

Wire Harness Side:

P9
Power Back Door Opener/Closer Switch



B5
Instrument Panel J/B (Body ECU)



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(a) Disconnect the power back door opener/closer switch assembly connector.
(b) Disconnect the instrument panel J/B connector.
(c) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
P9-3 - B5-2 (PBDS)	Always	Below 1 Ω
P9-4 - Body ground	Always	Below 1 Ω

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE