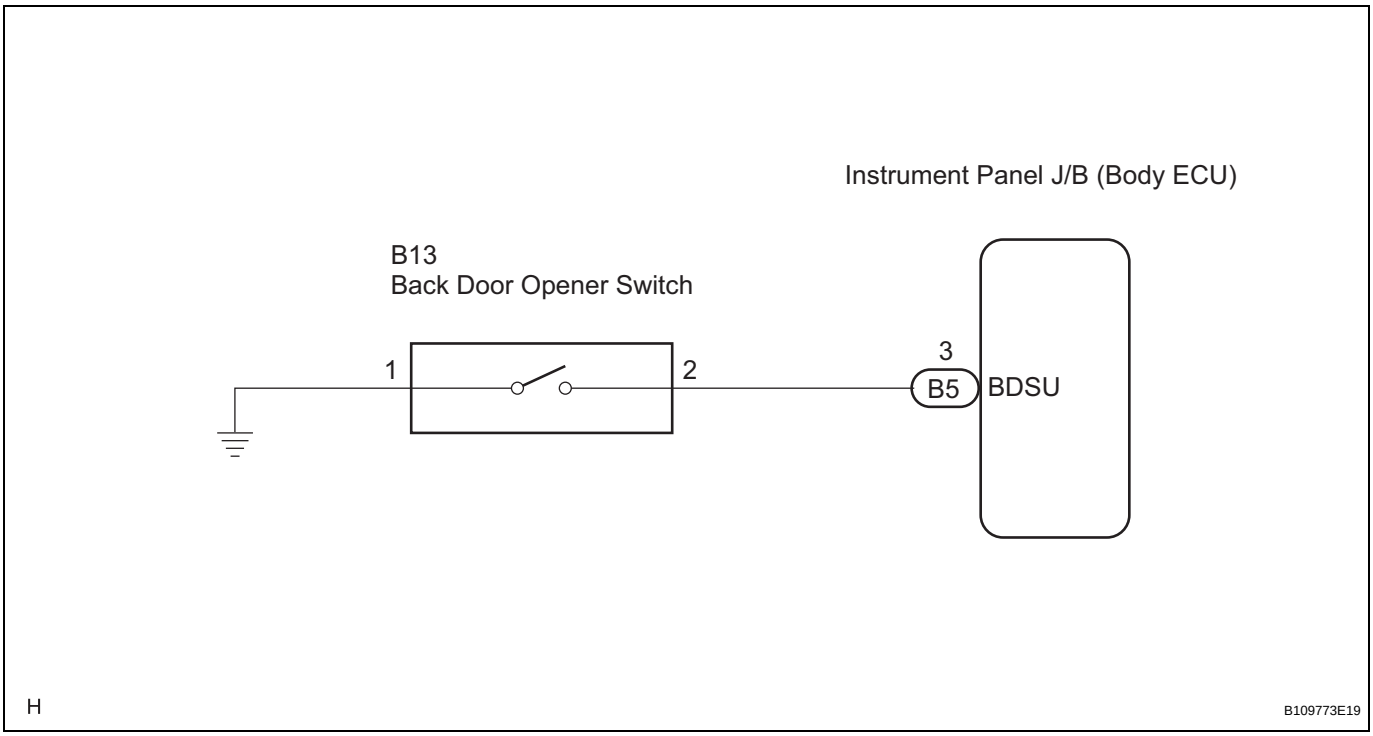
Back Door Opener Switch Circuit

DESCRIPTION

The back door opener switch only turns on while the back door handle is being pulled, and turns off when the handle is released.
The body ECU is connected to the back door opener switch via terminal BDSU and back door unlatch operation request signals are input to the ECU.
The body ECU applies voltage to the back door opener switch via terminal BDSU. When the switch is on (there is continuity between the switch terminals), a back door unlatch operation request signal is input to the body ECU.
w/o Power back door system:
The body ECU directly activates the motor built into the back door lock assembly to unlatch the back door.
w/ Power back door system:
The body ECU, using multiplex communication, sends signals input from the back door operation switch to the power back door ECU. The power back door ECU then activates the motor built into the back door lock assembly to unlatch the back door based on the signals.

WIRING DIAGRAM



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

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

BODY (Body ECU):

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
B DOE OPEN SW	Back door opener switch signal (Outside handle switch) /ON or OFF	ON: Back door opener switch is pushed OFF: Back door opener switch is not pushed	-

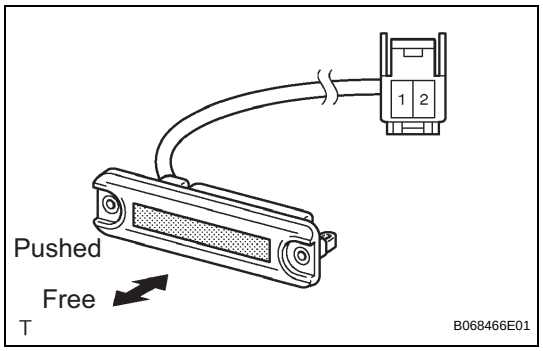
OK:
The display is as specified in the normal condition.

NG → **Go to step 2**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

2 INSPECT BACK DOOR OPENER SWITCH ASSEMBLY



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

Standard resistance

Tester Connection	Switch Position	Specified Condition
1 - 2	Free	10 kΩ or higher
1 - 2	Pushed	Below 1 Ω

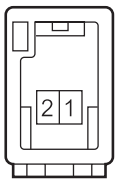
NG → **REPLACE BACK DOOR OPENER SWITCH ASSEMBLY**

OK

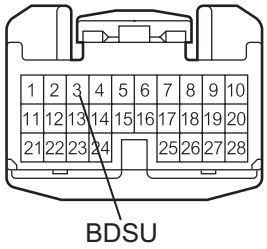
3	**CHECK WIRE HARNESS (BACK DOOR OPENER SWITCH - INSTRUMENT PANEL J/B (BODY ECU))**

Wire Harness Side:

B13
Back Door Opener Switch



B5
Instrument Panel J/B (Body ECU)



H

B111704E01

(a) Disconnect the back door opener switch assembly connector.
(b) Disconnect the power back door ECU connector.
(c) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
B13-2 - B5-3 (BDSU)	Always	Below 1 Ω
B13-1 - Body ground	Always	Below 1 Ω

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE