Main Switch Circuit

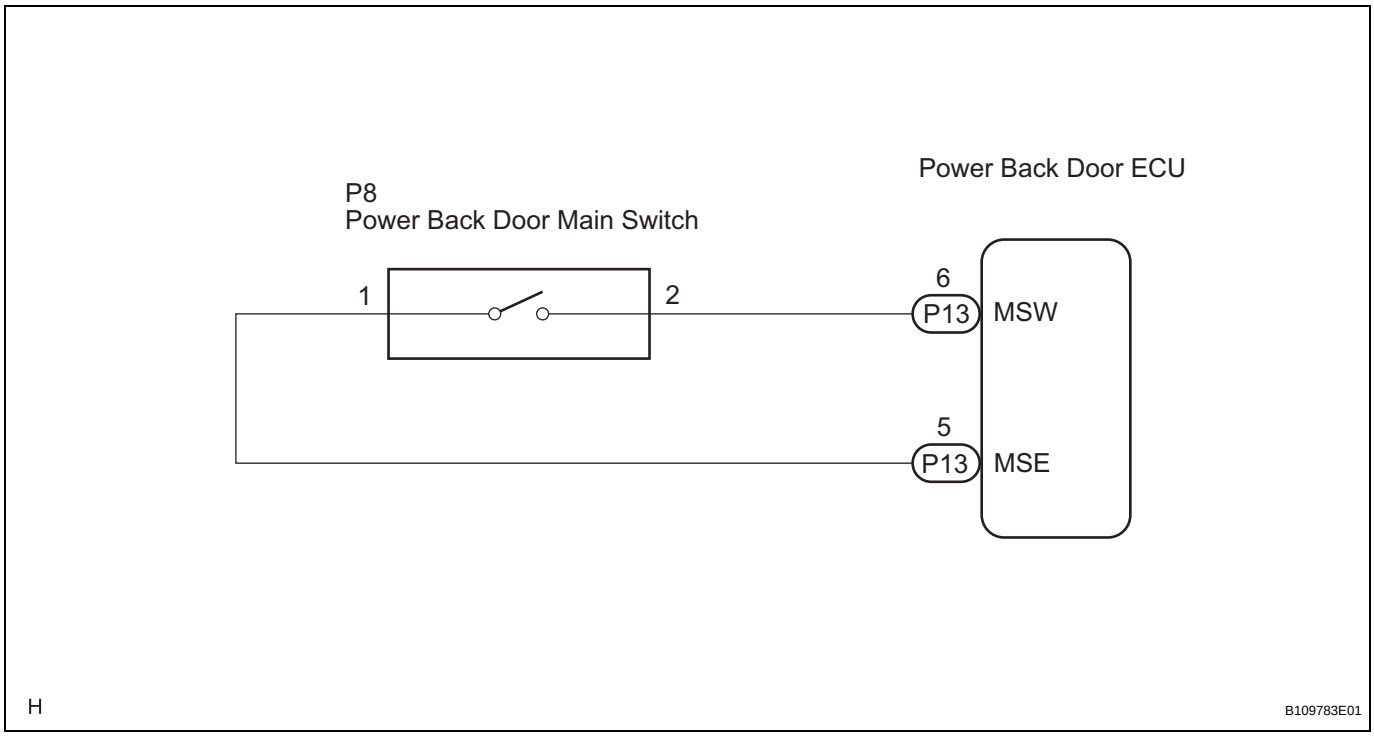
DESCRIPTION

The power back door main switch only turns on while the switch is being pressed, and turns off when the switch is released.
The power back door ECU is connected to the power back door main switch via terminals MSW and MSE, and power back door operation cancel request signals are input to the ECU.
The power back door ECU applies voltage to the power back door main switch via terminal MSW. When the switch is on (there is continuity between the switch terminals), a power back door operation cancel request signal is input to the power back door ECU.

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

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

BACK-DOOR (Power Back Door ECU):

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
PBD MAIN SW	Power back door main switch signal /ON or OFF	OFF: Power back door main switch is not pushed ON: Power back door main switch is pushed	-

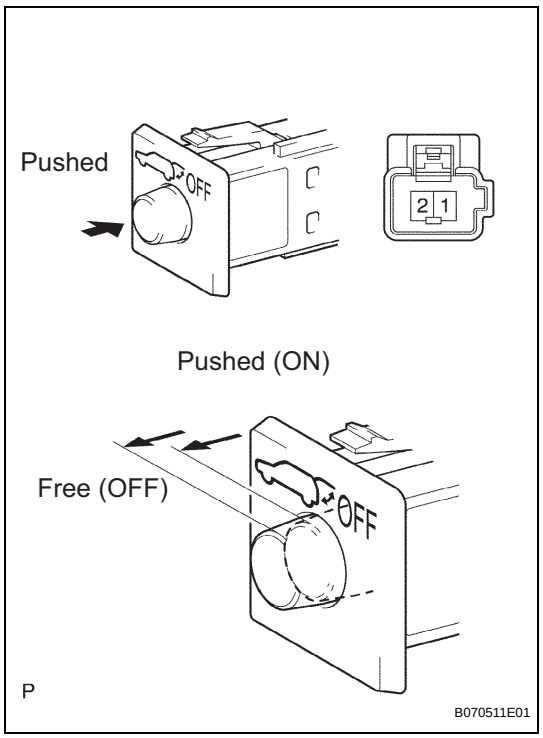
HINT:
MAIN appears on the display of the intelligent tester, however, the name of the part corresponding to the display of the tester is "power back door main switch".
OK:
The display is as specified in the normal condition.

NG → **Go to step 2**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

2 INSPECT POWER BACK DOOR MAIN SWITCH



(a) Remove the power back door main switch.
(b) Measure the resistance according to the value(s) in the table below.
Standard resistance

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

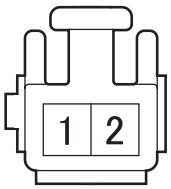
NG → **REPLACE POWER BACK DOOR MAIN SWITCH**

OK

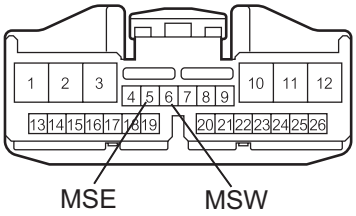
3	CHECK WIRE HARNESS (POWER BACK DOOR MAIN SWITCH - POWER BACK DOOR ECU)

Wire Harness Side:

P8
Power Back Door Main Switch



P13
Power Back Door ECU



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(a) Disconnect the power back door main switch 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
P8-1 - P13-5 (MSE)	Always	Below 1 Ω
P8-2 - P13-6 (MSW)	Always	Below 1 Ω

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE