

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002923Y
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: DOOR / HATCH: POWER BACK DOOR SYSTEM: B222A13; PBD Touch Sensor LH Circuit Circuit Open; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

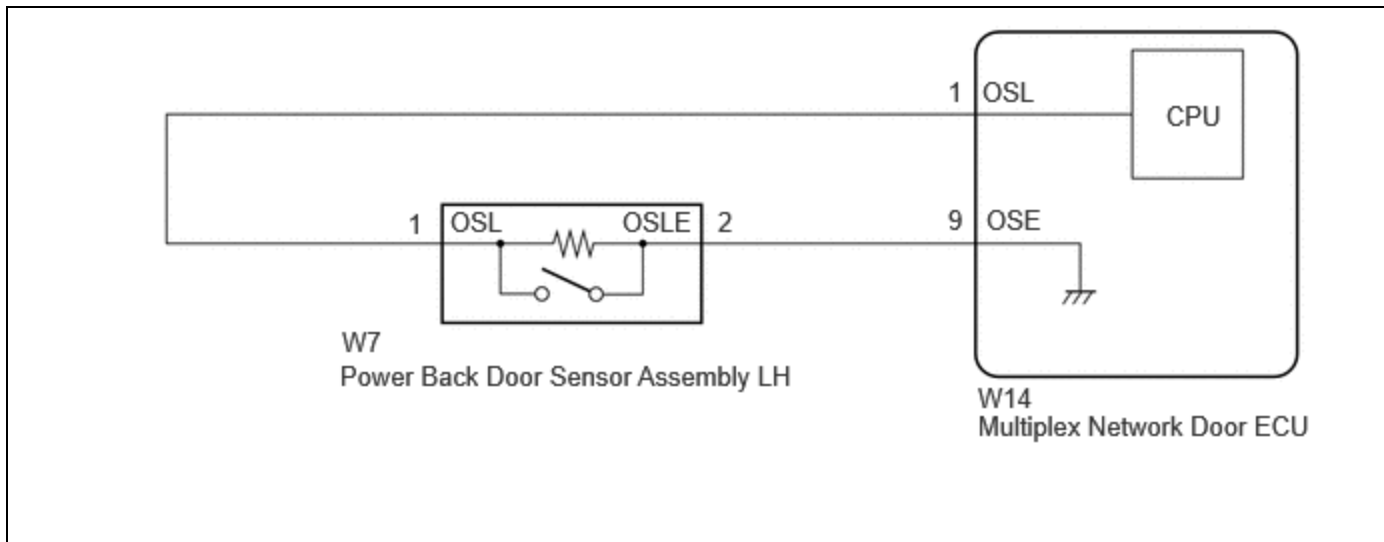
DTC	B222A13	PBD Touch Sensor LH Circuit Circuit Open
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DESCRIPTION

This DTC is output when the multiplex network door ECU detects a power back door sensor assembly LH malfunction.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B222A13	PBD Touch Sensor LH Circuit Circuit Open	Multiplex network door ECU detects power back door sensor assembly LH touch sensor malfunction	<ul style="list-style-type: none"> Multiplex network door ECU Power back door sensor assembly LH Harness or connector 	Back Door	A

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

If the multiplex network door ECU has been replaced, or if any of the connectors has been disconnected, initialize the power back door system.

Click here [INFO](#)

PROCEDURE

1. CLEAR DTC

(a) Clear the DTCs.

Body Electrical > Back Door > Clear DTCs

NEXT



2. REPRODUCE DTC

(a) Perform a power back door close operation.

NEXT



3. CHECK FOR DTC

(a) Check for DTCs.

Body Electrical > Back Door > Trouble Codes

RESULT	PROCEED TO
B222A13 is output	A
B222A13 is not output	B

B **USE SIMULATION METHOD TO CHECK**

A



4. READ VALUE USING GTS

(a) Read the Data List according to the display on the GTS.

Body Electrical > Back Door > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	REFERENCE VALUE	DIAGNOSTIC NOTE
PBD Touch Sensor LH	Power back door sensor assembly LH signal	ON, OFF or Open	Open: Power back door sensor assembly LH circuit open	-

Body Electrical > Back Door > Data List

TESTER DISPLAY
PBD Touch Sensor LH

RESULT	PROCEED TO
The value of PBD Touch Sensor LH is Open	A
None of the above conditions are met	B

B  **GO TO STEP 7**

A


5.	INSPECT POWER BACK DOOR SENSOR ASSEMBLY LH
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Click here 

NG  **REPLACE POWER BACK DOOR SENSOR ASSEMBLY LH**

OK


6.	CHECK HARNESS AND CONNECTOR (MULTIPLEX NETWORK DOOR ECU - POWER BACK DOOR SENSOR ASSEMBLY LH)
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Pre-procedure1

- (a) Disconnect the W14 multiplex network door ECU connector.
- (b) Disconnect the W7 power back door sensor assembly LH connector.

Procedure1

(c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(W14,W7\).](#)

[Click Connector\(W14\).](#)

[Click Connector\(W7\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W14-1 (OSL) - W7-1 (OSL)	Always	Below 1 Ω	Ω
W14-9 (OSE) - W7-2 (OSLE)	Always	Below 1 Ω	Ω
W14-1 (OSL) or W7-1 (OSL) - Body ground	Always	10 kΩ or higher	kΩ
W14-9 (OSE) or W7-2 (OSLE) - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

OK ► REPLACE MULTIPLEX NETWORK DOOR ECU

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

7.	READ VALUE USING GTS
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(a) Read the Data List according to the display on the GTS.

Body Electrical > Back Door > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	REFERENCE VALUE	DIAGNOSTIC NOTE
PBD Touch Sensor LH	Power back door sensor assembly LH signal	ON, OFF or Open	OFF: Power back door sensor assembly LH not pressed	-

Body Electrical > Back Door > Data List

TESTER DISPLAY
PBD Touch Sensor LH

RESULT	PROCEED TO
The value of PBD Touch Sensor LH is OFF	A
None of the above conditions are met	B

B  **GO TO STEP 5**

A


8.	READ VALUE USING GTS
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(a) Read the Data List according to the display on the GTS.

Body Electrical > Back Door > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	REFERENCE VALUE	DIAGNOSTIC NOTE
PBD Touch Sensor LH	Power back door sensor assembly LH signal	ON, OFF or Open	ON: Power back door sensor assembly LH pressed	-

Body Electrical > Back Door > Data List

TESTER DISPLAY
PBD Touch Sensor LH

RESULT	PROCEED TO
The value of PBD Touch Sensor LH is ON	A
None of the above conditions are met	B

A  **REPLACE MULTIPLEX NETWORK DOOR ECU**

B  **GO TO STEP 5**

