

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002923V
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: DOOR / HATCH: POWER BACK DOOR SYSTEM: B222049; Back Door Motor Internal Electronic Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

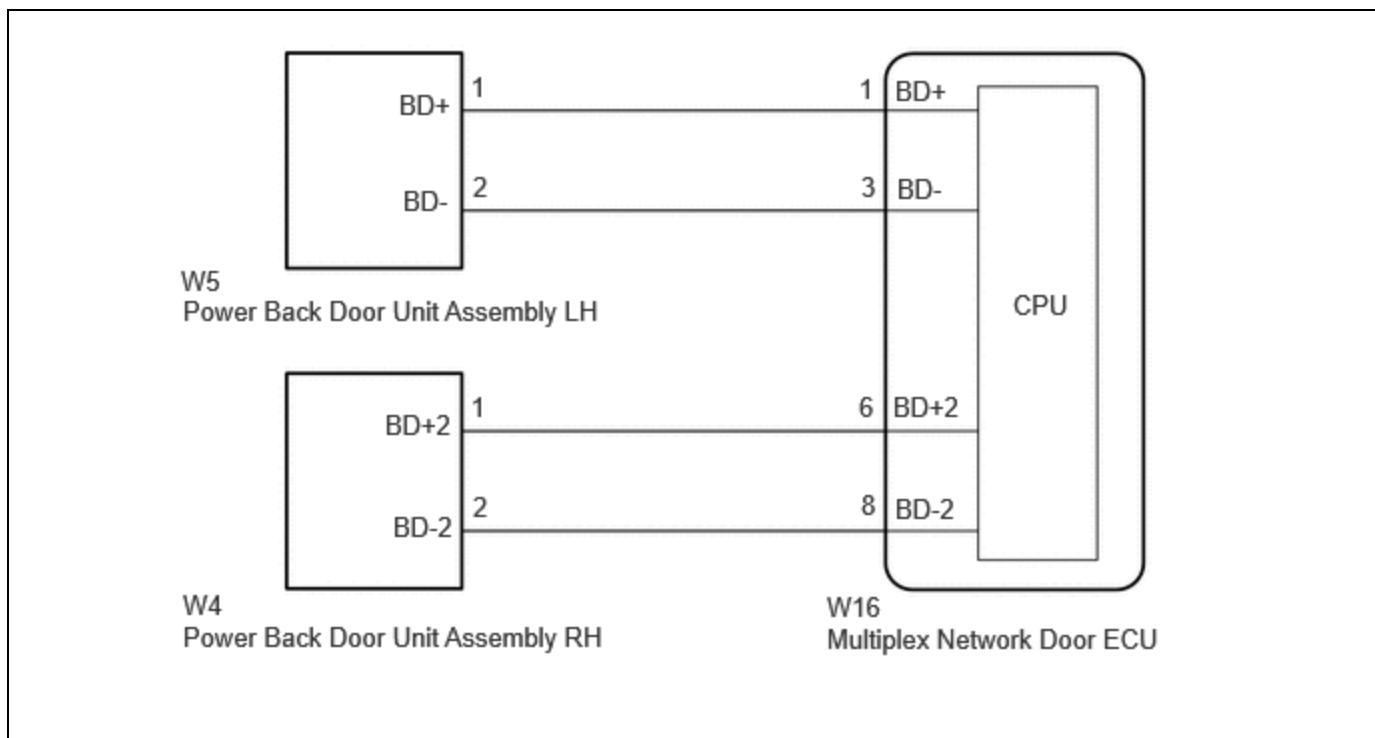
DTC	B222049	Back Door Motor Internal Electronic Failure
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DESCRIPTION

This DTC is stored when the multiplex network door ECU detects a malfunction of the motor built-into the power back door unit assembly LH or power back door unit assembly RH.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B222049	Back Door Motor Internal Electronic Failure	Malfunction of motor built into the power back door unit assembly LH or power back door unit assembly RH detected	<ul style="list-style-type: none"> • Multiplex network door ECU • Power back door unit assembly LH • Power back door unit assembly RH • 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 open or close operation.

NEXT



3. CHECK FOR DTC

(a) Check for DTCs.

Body Electrical > Back Door > Trouble Codes

RESULT	PROCEED TO
B222049 is output	A
B222049 is not output	B

B ▶ USE SIMULATION METHOD TO CHECK

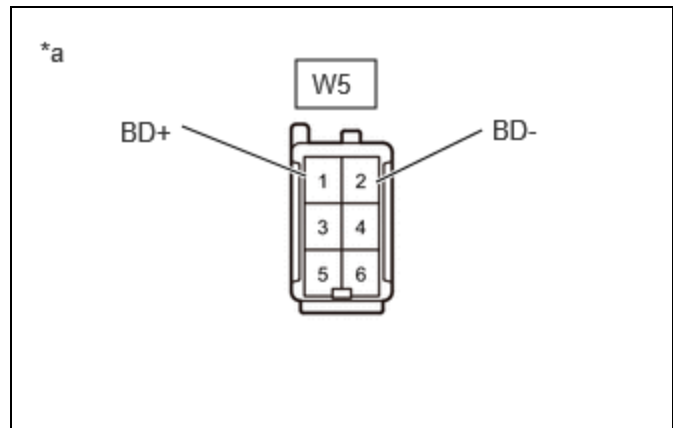
A
▼

4. INSPECT POWER BACK DOOR UNIT ASSEMBLY LH

Pre-procedure1

(a) Fully open the back door.

(b) Disconnect the W5 power back door unit assembly LH connector.



*a	Component without harness connected (Power Back Door Unit Assembly LH)
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Procedure1

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

Standard Resistance:



[Click Location & Routing\(W5\)](#)

[Click Connector\(W5\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W5-1 (BD+) - Body ground	Always	10 kΩ or higher	kΩ
W5-2 (BD-) - Body ground	Always	10 kΩ or higher	kΩ
W5-1 (BD+) - W5-2 (BD-)	Always	Below 1 MΩ	MΩ

Post-procedure1

(d) None

NG ▶ REPLACE POWER BACK DOOR UNIT ASSEMBLY LH

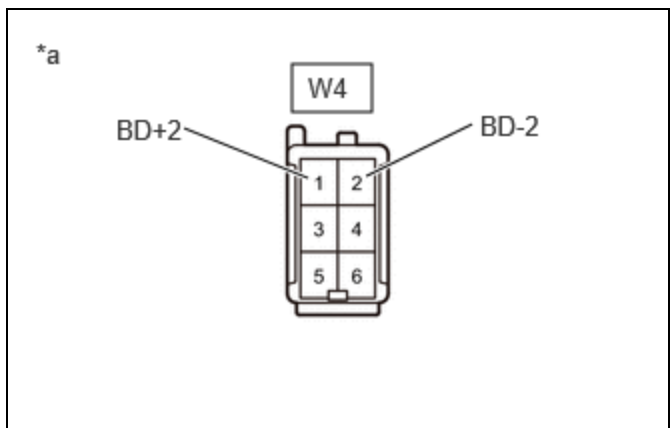
OK



5.	INSPECT POWER BACK DOOR UNIT ASSEMBLY RH
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Pre-procedure1

(a) Fully open the back door.



(b) Disconnect the W4 power back door unit assembly RH connector.

*a	Component without harness connected (Power Back Door Unit Assembly RH)
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Procedure1

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

Standard Resistance:



[Click Location & Routing\(W4\)](#)

[Click Connector\(W4\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W4-1 (BD+2) - Body ground	Always	10 kΩ or higher	kΩ
W4-2 (BD-2) - Body ground	Always	10 kΩ or higher	kΩ
W4-1 (BD+2) - W4-2 (BD-2)	Always	Below 1 MΩ	MΩ

Post-procedure1

(d) None

NG **REPLACE POWER BACK DOOR UNIT ASSEMBLY RH**

OK



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

(a) Disconnect the W16 multiplex network door ECU connector.

(b) Disconnect the W5 power back door unit assembly LH connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(W16,W5\)](#)

[Click Connector\(W16\)](#)

[Click Connector\(W5\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W16-1 (BD+) - W5-1 (BD+)	Always	Below 1 Ω	Ω
W16-3 (BD-) - W5-2 (BD-)	Always	Below 1 Ω	Ω
W16-1 (BD+) or W5-1 (BD+) - Body ground	Always	10 kΩ or higher	kΩ
W16-3 (BD-) or W5-2 (BD-) - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



7. CHECK HARNESS AND CONNECTOR (MULTIPLEX NETWORK DOOR ECU - POWER BACK DOOR UNIT ASSEMBLY RH)

Pre-procedure1

- (a) Disconnect the W16 multiplex network door ECU connector.
- (b) Disconnect the W4 power back door unit assembly RH connector.

Procedure1

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

Standard Resistance:



- [Click Location & Routing\(W16,W4\)](#)
- [Click Connector\(W16\)](#)
- [Click Connector\(W4\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W16-6 (BD+2) - W4-1 (BD+2)	Always	Below 1 Ω	Ω
W16-8 (BD-2) - W4-2 (BD-2)	Always	Below 1 Ω	Ω
W16-6 (BD+2) or W4-1 (BD+2) - Body ground	Always	10 kΩ or higher	kΩ
W16-8 (BD-2) or W4-2 (BD-2) - 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**

