Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029X3D
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: SEAT: FRONT POWER SEAT CONTROL SYSTEM (w/ Memory): B265296; Front Vertical Sensor (Motor) Component Internal Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

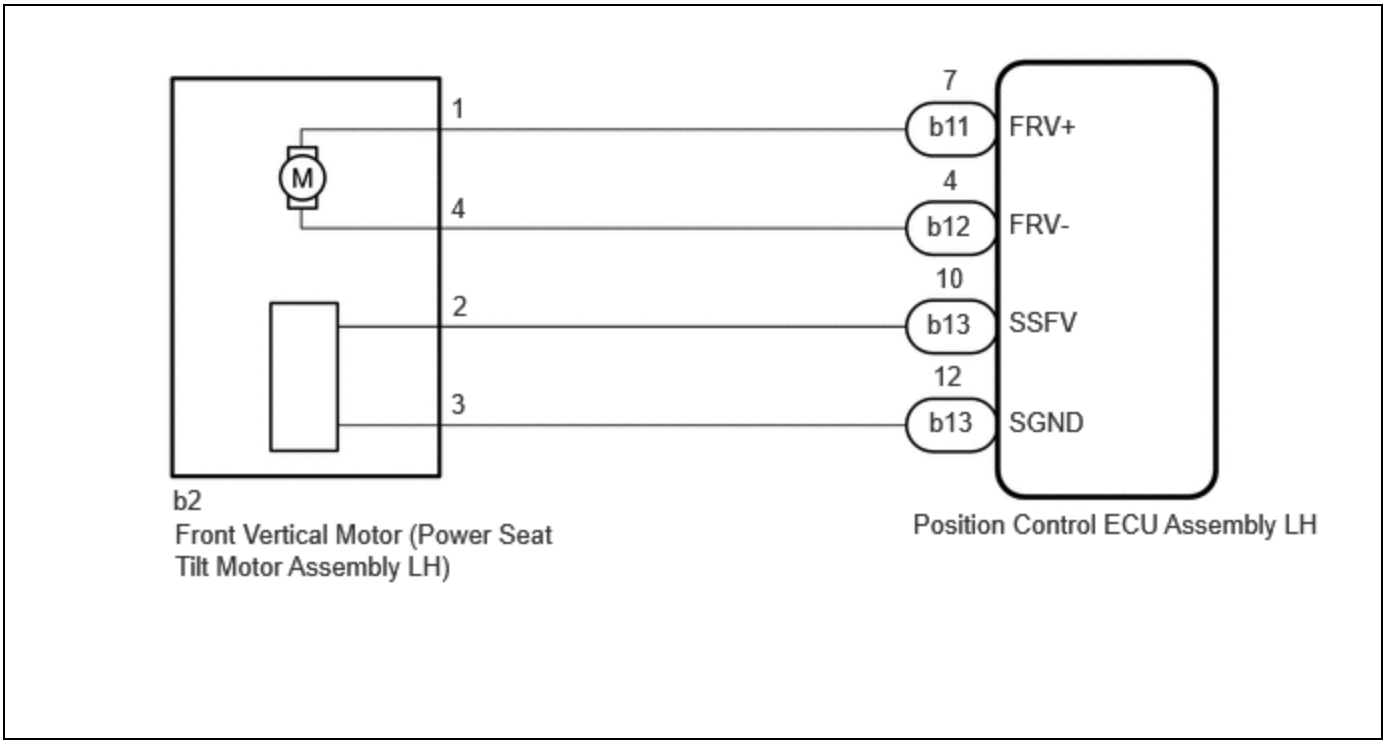
DTC	**B265296**	**Front Vertical Sensor (Motor) Component Internal Failure**

DESCRIPTION

When the position control ECU assembly LH does not receive a front vertical motor position sensor signal despite the seat having been moved upward or downward by power seat motor operation, this DTC is stored.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B265296	Front Vertical Sensor (Motor) Component Internal Failure	Front vertical motor position sensor signal not received when power seat moved upward or downward	• Position control ECU assembly LH • Front vertical motor (power seat tilt motor assembly LH) • Wire harness or connector	Driver Seat	A

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

- Make sure to initialize the position control ECU assembly LH after replacing the position control ECU assembly LH, seat assembly or any related parts (including removal and installation).

  Click here INFO
- Initializing the position control ECU assembly LH will clear the seat position memory.

PROCEDURE

1.	**CLEAR DTC**

(a) Clear the DTCs.

Body Electrical > Driver Seat > Clear DTCs

NEXT

2.	**CHECK FOR DTC**

(a) Check for DTCs.

Body Electrical > Driver Seat > Trouble Codes

RESULT	PROCEED TO
B265296 is not output	A
B265296 is output	B

A ▶ **USE SIMULATION METHOD TO CHECK**

B

3.	**PERFORM ACTIVE TEST USING GTS**

(a) Perform the Active Test according to the display on the GTS.

Body Electrical > Driver Seat > Active Test

TESTER DISPLAY	MEASUREMENT ITEM	CONTROL RANGE	DIAGNOSTIC NOTE
Front Vertical Motor	Seat front vertical operation	Up/Down	-

Body Electrical > Driver Seat > Active Test

TESTER DISPLAY
Front Vertical Motor

OK:
Front vertical motor operates normally.

NG ▶ **GO TO STEP 7**

OK ▼

4.	CHECK POSITION CONTROL ECU ASSEMBLY LH

Pre-procedure1

(a) Disconnect the b2 front vertical motor (power seat tilt motor assembly LH) connector.

Procedure1

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

EWD INFO

Click Location & Routing(b2)
Click Connector(b2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b2-2 - b2-3	Front vertical switch on	4.8 to 5.1 V	V

Post-procedure1

(c) None

NG ▶ **GO TO STEP 6**

OK ▼

5.	CHECK FRONT VERTICAL MOTOR (POWER SEAT TILT MOTOR ASSEMBLY LH)

Pre-procedure1

(a) Reconnect the b2 front vertical motor (power seat tilt motor assembly LH) connector.

Procedure1

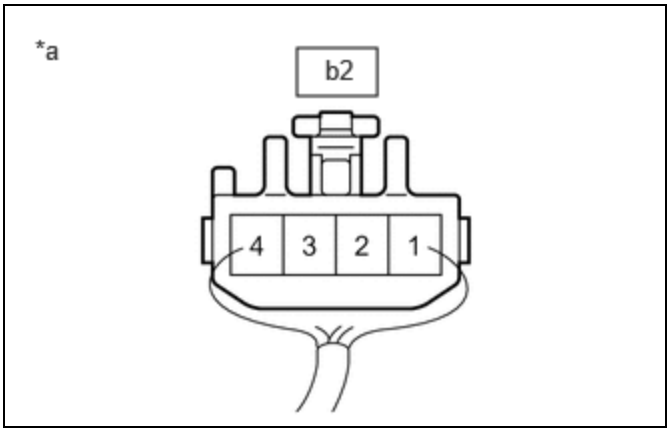
(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

EWD INFO

Click Location & Routing(b2)
Click Connector(b2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b2-2 - Body ground	Front vertical motor operating	4.5 to 4.8 V	V



*a	Component with harness connected (Front Vertical Motor (Power Seat Tilt Motor assembly LH))

Result:

PROCEED TO
OK
NG

Post-procedure1

(c) None

OK ▶ **REPLACE POSITION CONTROL ECU ASSEMBLY LH** INFO

NG ▶ **REPLACE FRONT VERTICAL MOTOR (POWER SEAT TILT MOTOR ASSEMBLY LH)** INFO

6.	**CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU ASSEMBLY LH - FRONT VERTICAL MOTOR (POWER SEAT TILT MOTOR ASSEMBLY LH))**

Pre-procedure1

(a) Disconnect the b13 position control ECU assembly LH connector.

Procedure1

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

Standard Resistance:

EWD INFO

Click Location & Routing(b13,b2)
Click Connector(b13)
Click Connector(b2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b13-10 (SSFV) - b2-2	Always	Below 1 Ω	Ω
b13-10 (SSFV) or b2-2 - Body ground	Always	10 kΩ or higher	kΩ
b13-12 (SGND) - b2-3	Always	Below 1 Ω	Ω
b13-12 (SGND) or b2-3 - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(c) None

OK ▶ **REPLACE POSITION CONTROL ECU ASSEMBLY LH** INFO

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

7.	**INSPECT FRONT VERTICAL MOTOR (POWER SEAT TILT MOTOR ASSEMBLY LH)**

HINT:

Click here INFO

NG ▶ **REPLACE FRONT VERTICAL MOTOR (POWER SEAT TILT MOTOR ASSEMBLY LH)** INFO

OK ▼

8.	**CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU ASSEMBLY LH - FRONT VERTICAL MOTOR (POWER SEAT TILT MOTOR ASSEMBLY LH))**

Pre-procedure1

(a) Disconnect the b11 and b12 position control ECU assembly LH connectors.

Procedure1

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

Standard Resistance:

EWD INFO

Click Location & Routing(b11,b2,b12)
Click Connector(b11)
Click Connector(b2)
Click Connector(b12)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b11-7 (FRV+) - b2-1	Always	Below 1 Ω	Ω
b11-7 (FRV+) or b2-1 - Body ground	Always	10 kΩ or higher	kΩ
b12-4 (FRV-) - b2-4	Always	Below 1 Ω	Ω
b12-4 (FRV-) or b2-4 - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(c) None

OK ▶ **REPLACE POSITION CONTROL ECU ASSEMBLY LH**
INFO

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**