Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029X3F
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: SEAT: FRONT POWER SEAT CONTROL SYSTEM (w/ Memory): B265814; Sensor Power Supply Circuit Short to Ground or Open; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

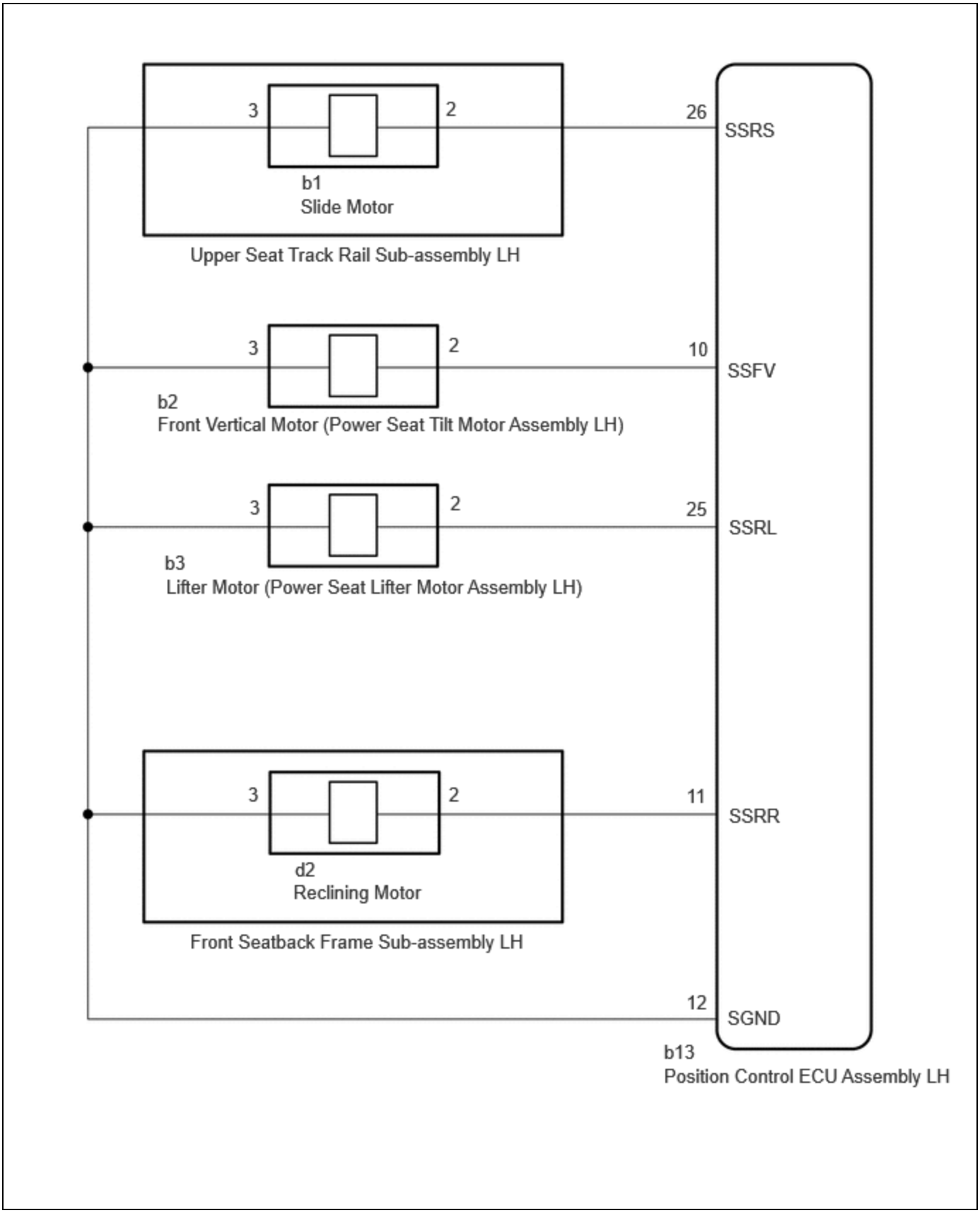
DTC	**B265814**	**Sensor Power Supply Circuit Short to Ground or Open**

DESCRIPTION

This DTC is stored when a power seat motor operates (a position control sensor is being supplied with power) and the power supply voltage does not rise to the specified value.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B265814	Sensor Power Supply Circuit Short to Ground or Open	Problem with the voltage supplied to the position control sensor	• Position control ECU assembly LH • Slide motor (upper seat track rail sub-assembly LH) • Front vertical motor (power seat tilt motor assembly LH) • Lifter motor (power seat lifter motor assembly LH) • Reclining motor (front seatback frame sub-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
Only B265814 is output	A
B265096 and B265814 are output	B
B265196 and B265814 are output	C
B265296 and B265814 are output	D
B265396 and B265814 are output	E

B **GO TO FRONT POWER SEAT CONTROL SYSTEM (B265096)**

C **GO TO FRONT POWER SEAT CONTROL SYSTEM (B265196)**

D **GO TO FRONT POWER SEAT CONTROL SYSTEM (B265296)**

E **GO TO FRONT POWER SEAT CONTROL SYSTEM (B265396)**

A

3.	**CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU ASSEMBLY LH - SLIDE MOTOR (UPPER SEAT TRACK RAIL SUB-ASSEMBLYY LH))**

Pre-procedure1

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

(b) Disconnect the b1 slide motor (upper seat track rail sub-assembly LH) connector.

Procedure1

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

Standard Resistance:

EWD INFO

Click Location & Routing(b13,b1)
Click Connector(b13)
Click Connector(b1)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b13-26 (SSRS) - b1-2	Always	Below 1 Ω	Ω
b13-26 (SSRS) or b1-2 - Body ground	Always	10 kΩ or higher	kΩ
b13-12 (SGND) - b1-3	Always	Below 1 Ω	Ω
b13-12 (SGND) or b1-3 - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

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

OK

4.	**CHECK POSITION CONTROL ECU ASSEMBLY LH (SLIDE MOTOR CIRCUIT)**

Pre-procedure1

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

Procedure1

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

Standard Voltage:

EWD INFO

Click Location & Routing(b1)
Click Connector(b1)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b1-2 - b1-3	Slide switch on	4.8 to 5.1 V	V

Post-procedure1

(c) None

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

OK ▼

5.	**CHECK SLIDE MOTOR (UPPER SEAT TRACK RAIL SUB-ASSEMBLY LH)**

Pre-procedure1

(a) Reconnect the b1 slide motor (upper seat track rail sub-assembly LH) connector.

Procedure1

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

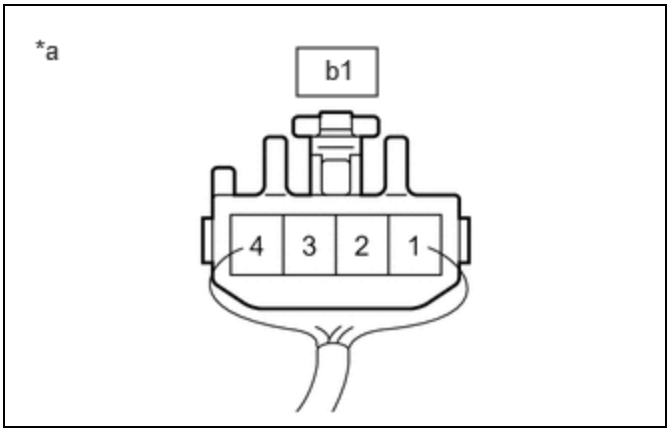
Standard Voltage:

EWD INFO

Click Location & Routing(b1)
Click Connector(b1)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b1-2 - Body ground	Slide motor operating	4.5 to 4.8 V	V

Result:



*a	Component with harness connected (Slide Motor (Upper Seat Track Rail Sub-assembly LH))

PROCEED TO
OK
NG

Post-procedure1

(c) None

NG ▶ **REPLACE SLIDE MOTOR (UPPER SEAT TRACK RAIL SUB-ASSEMBLY LH)** INFO

OK ▼

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.

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

Procedure1

(c) 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

(d) None

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

OK ▼

7.	**CHECK POSITION CONTROL ECU ASSEMBLY LH (FRONT VERTICAL MOTOR CIRCUIT)**

Pre-procedure1

(a) Reconnect the b13 position control ECU 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 ▶ **REPLACE POSITION CONTROL ECU ASSEMBLY LH**
INFO

OK ▼

8.	**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:

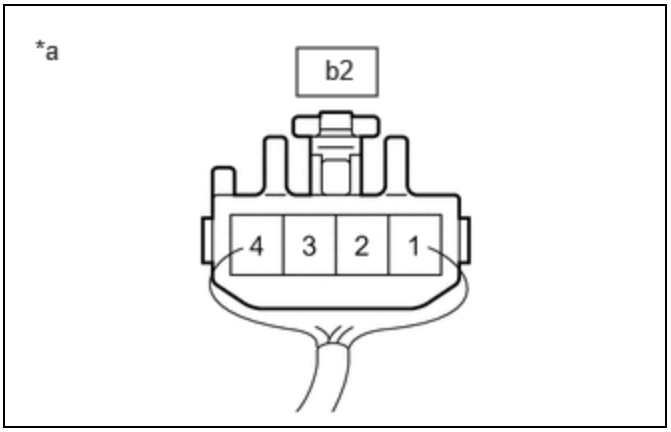
EWD INFO

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

Result:

PROCEED TO
OK
NG



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

Post-procedure1

(c) None

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

OK ▼

9.	**CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU ASSEMBLY LH - LIFTER MOTOR (POWER SEAT LIFTER MOTOR ASSEMBLY LH))**

Pre-procedure1

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

(b) Disconnect the b3 lifter motor (power seat lifter motor assembly LH) connector.

Procedure1

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

Standard Resistance:

EWD INFO

Click Location & Routing(b13,b3)

Click Connector(b13)
Click Connector(b3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b13-25 (SSRL) - b3-2	Always	Below 1 Ω	Ω
b13-25 (SSRL) or b3-2 - Body ground	Always	10 kΩ or higher	kΩ
b13-12 (SGND) - b3-3	Always	Below 1 Ω	Ω
b13-12 (SGND) or b3-3 - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

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

OK ▼

10.	CHECK POSITION CONTROL ECU ASSEMBLY LH (LIFTER MOTOR CIRCUIT)

Pre-procedure1

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

Procedure1

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

Standard Voltage:

EWD INFO

Click Location & Routing(b3)
Click Connector(b3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b3-2 - b3-3	Lifter switch on	4.8 to 5.1 V	V

Post-procedure1

(c) None

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

OK ▼

11.	CHECK LIFTER MOTOR (POWER SEAT LIFTER MOTOR ASSEMBLY LH)

Pre-procedure1

(a) Reconnect the b3 lifter motor (power seat lifter motor assembly LH) connector.

Procedure1

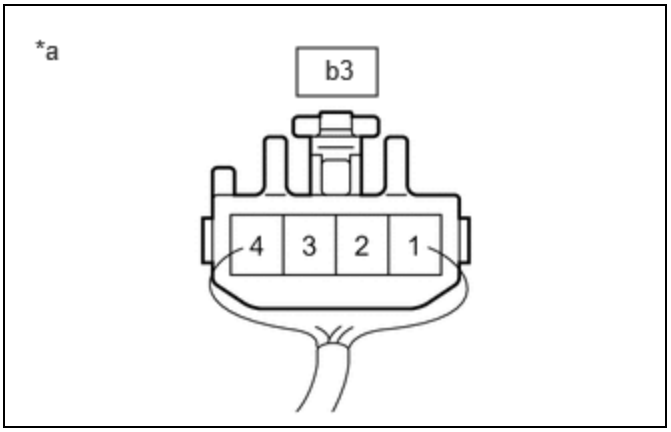
(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

EWD INFO

Click Location & Routing(b3)
Click Connector(b3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b3-2 - Body ground	Lifter motor operating	4.5 to 4.8 V	V



*a	Component with harness connected (Lifter Motor (Power Seat Lifter Motor assembly LH))

Result:

PROCEED TO
OK
NG

Post-procedure1

(c) None

NG ▶ **REPLACE LIFTER MOTOR (POWER SEAT LIFTER MOTOR ASSEMBLY LH)** INFO

OK ▼

12.	CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU ASSEMBLY LH - RECLINING MOTOR (FRONT SEATBACK FRAME SUB-ASSEMBLY LH))

Pre-procedure1

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

(b) Disconnect the d2 reclining motor (front seatback frame sub-assembly LH) connector.

Procedure1

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

Standard Resistance:

EWD INFO

Click Location & Routing(b13,d2)
Click Connector(b13)
Click Connector(d2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b13-11 (SSRR) - d2-2	Always	Below 1 Ω	Ω
b13-11 (SSRR) or d2-2 - Body ground	Always	10 kΩ or higher	kΩ
b13-12 (SGND) - d2-3	Always	Below 1 Ω	Ω
b13-12 (SGND) or d2-3 - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

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

OK ▼

13.	**CHECK POSITION CONTROL ECU ASSEMBLY LH (RECLINING MOTOR CIRCUIT)**

Pre-procedure1

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

Procedure1

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

Standard Voltage:

EWD INFO

Click Location & Routing(d2)
Click Connector(d2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
d2-2 - d2-3	Reclining switch on	4.8 to 5.1 V	V

Post-procedure1

(c) None

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

OK ▼

14.	CHECK RECLINING MOTOR (FRONT SEATBACK FRAME SUB-ASSEMBLY LH)

Pre-procedure1

(a) Reconnect the d2 reclining motor (front seatback frame sub-assembly LH) connector.

Procedure1

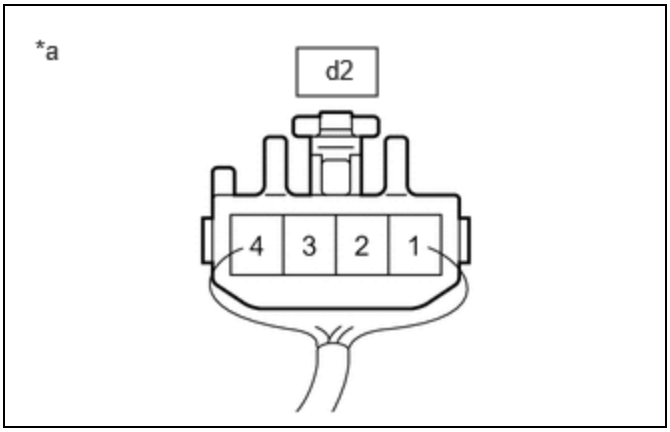
(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

EWD INFO

Click Location & Routing(d2)
Click Connector(d2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
d2-2 - Body ground	Reclining motor operating	4.5 to 4.8 V	V



*a	Component with harness connected (Reclining Motor (Front Seatback Frame Sub-assembly LH))

Result:

PROCEED TO
OK
NG

Post-procedure1

(c) None

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

NG ▶ **REPLACE RECLINING MOTOR (FRONT SEATBACK FRAME SUB-ASSEMBLY LH)**