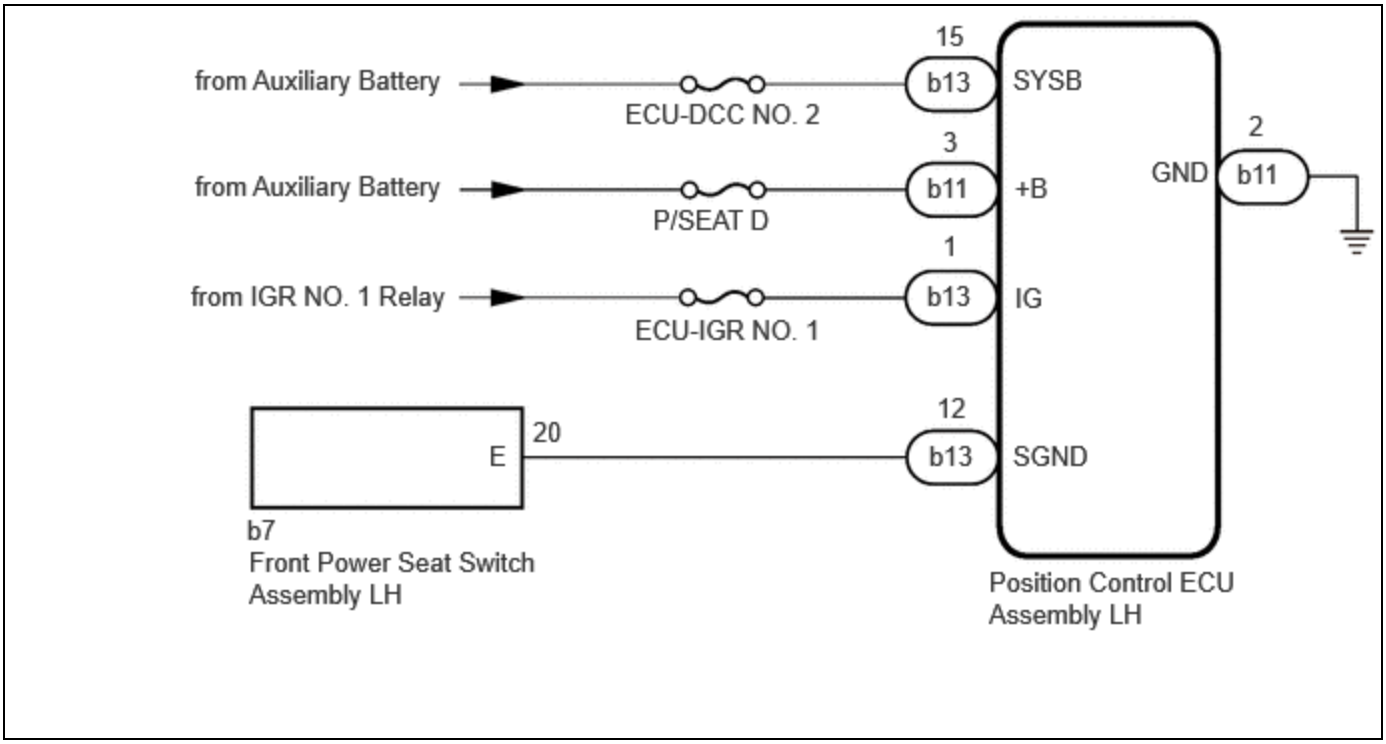
Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029X3H
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: SEAT: FRONT POWER SEAT CONTROL SYSTEM (w/ Memory): Front Power Seat does not Operate with Front Power Seat Switch; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Front Power Seat does not Operate with Front Power Seat Switch

DESCRIPTION

Signals are input into the position control ECU assembly LH. The built-in ECU manages the signals received from the power seat switch and operates each motor. If the position control ECU assembly LH receives more than 2 motor operation signals for the same motor, the motor will be stopped. Manual operation resumes when the position control ECU assembly LH receives only 1 signal.

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following procedure.
- 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.	**CHECK FRONT POWER SEAT OPERATION**

(a) Check that each function of the power seat operates normally by using the front power seat switch assembly LH.

Click here INFO

RESULT	PROCEED TO
All power seat functions do not operate	A
One or more power seat functions do not operate	B

B ▶ **GO TO OTHER DIAGNOSIS PROCEDURE (One or more Power Seat Motors do not Operate)**

A

▼

2.	**INSPECT FRONT POWER SEAT SWITCH ASSEMBLY LH**

Click here INFO

NG ▶ **REPLACE FRONT POWER SEAT SWITCH ASSEMBLY LH**

Click here INFO

OK

▼

3.	**CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU ASSEMBLY LH - POWER SUPPLY)**

(a) Disconnect the b11 and b13 position control ECU assembly LH connectors.

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

Standard Voltage:

EWD INFO

Click Location & Routing(b11,b13)

Click Connector(b11)
Click Connector(b13)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
b11-3 (+B) - Body ground	Ignition switch off	11 to 14 V
b13-15 (SYSB) - Body ground	Ignition switch off	11 to 14 V
b13-1 (IG) - Body ground	Ignition switch ON	11 to 14 V
b13-1 (IG) - Body ground	Ignition switch off	Below 1 V

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

OK ▼

4.	**CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU ASSEMBLY LH - BODY GROUND)**

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

Standard Resistance:

EWD INFO

Click Location & Routing(b11)
Click Connector(b11)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
b11-2 (GND) - Body ground	Always	Below 1 Ω

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

OK ▼

5.	**CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU ASSEMBLY LH - FRONT POWER SEAT SWITCH ASSEMBLY LH)**

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

Standard Resistance:

EWD INFO

Click Location & Routing(b13,b7)

Click Connector(b13)
Click Connector(b7)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
b13-12 (SGND) - b7-20 (E)	Always	Below 1 Ω

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

Click here INFO

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