

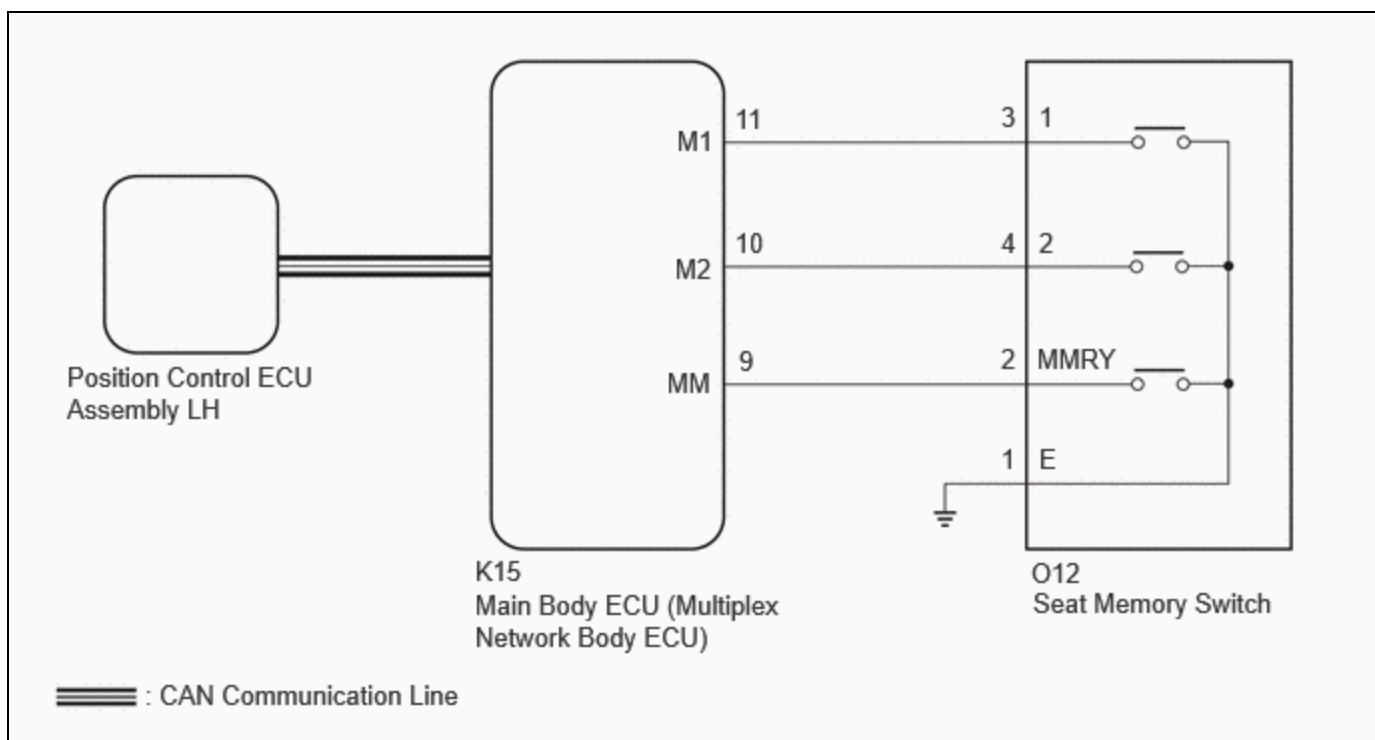
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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> SEAT: FRONT POWER SEAT CONTROL SYSTEM (w/ Memory): Power Seat Position is not Memorized; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## Power Seat Position is not Memorized

## DESCRIPTION

If the SET switch is being pressed when one of the M1 or M2 switches is pressed, or if one of the M1 or M2 switches is pressed within 3 seconds of pressing the SET switch, the main body ECU (multiplex network body ECU) sends a memory request signal to the position control ECU assembly LH. After receiving the request signal, the position control ECU assembly LH memorizes the location data of each motor.

## WIRING DIAGRAM



## CAUTION / NOTICE / HINT

### NOTICE:

- The front power seat control system (w/ Memory) uses the CAN communication system. First, confirm that there are no malfunctions in the CAN communication system. Refer to How to Proceed with Troubleshooting.

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- The seat position will not be stored if the SET switch and 2 or more of the seat memory switches (for example, M1 switch and M2 switch) are pressed simultaneously.

If a memorizing operation has failed, release all of the switches. The seat memory function will not operate unless the switches are released.

- The seat will not return to the memorized position if 2 or more of the seat memory switches (for example, M1 switch and M2 switch) are pressed simultaneously.

If a restoring operation has failed, release all of the switches. The seat memory restoring function will not operate unless the switches are released.

- 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).

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- Initializing the position control ECU assembly LH will clear the seat position memory.
- Before replacing the main body ECU (multiplex network body ECU), refer to Registration.

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## PROCEDURE

### 1. CHECK FRONT POWER SEAT CONTROL OPERATION

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

Click here [INFO](#)

OK:

Each function of the power seat operates normally using the front power seat switch assembly LH.

**NG**  **GO TO PROBLEM SYMPTOMS TABLE**

**OK**



### 2. READ VALUE USING GTS

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

**Body Electrical > Main Body > Data List**

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Driver Seat Memory Switch (MM)	SET switch	OFF or ON	OFF: SET switch off ON: SET switch on	-
Driver Seat Memory Switch (M1)	M1 switch	OFF or ON	OFF: M1 switch off ON: M1 switch on	-
Driver Seat Memory Switch (M2)	M2 switch	OFF or ON	OFF: M2 switch off ON: M2 switch on	-

**Body Electrical > Main Body > Data List**

TESTER DISPLAY
Driver Seat Memory Switch (MM)
Driver Seat Memory Switch (M1)
Driver Seat Memory Switch (M2)

OK:

On the GTS screen, OFF or ON is displayed accordingly.

**NG**  **GO TO STEP 6**

**OK**



<b>3.</b>	<b>PERFORM ACTIVE TEST USING GTS</b>
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(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
Buzzer	Buzzer operation	ON	-

**Body Electrical > Driver Seat > Active Test**

TESTER DISPLAY
Buzzer

OK:

Buzzer sounds normally.

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

Click here

[INFO](#)

**OK**



**4. REPLACE POSITION CONTROL ECU ASSEMBLY LH**

(a) Replace the position control ECU assembly LH with a new or known good one.

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**NEXT****5. CHECK SEAT POSITION MEMORY AND RESTORING FUNCTION**

(a) Check the seat position memory and restoring functions.

Click here [INFO](#)

OK:

Seat position memory and restoring functions operate normally.

**OK** ▶ **END (POSITION CONTROL ECU ASSEMBLY LH WAS DEFECTIVE)**

**NG** ▶ **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)**

Click here [INFO](#)

**6. INSPECT SEAT MEMORY SWITCH**

Click here [INFO](#)

**NG** ▶ **REPLACE SEAT MEMORY SWITCH**

**OK**

**7. CHECK HARNESS AND CONNECTOR (MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) - SEAT MEMORY SWITCH - BODY GROUND)**

(a) Disconnect the K15 main body ECU (multiplex network body ECU) connector.

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

Standard Resistance:



[Click Location & Routing\(K15,O12\)](#)

[Click Connector\(K15\)](#)

[Click Connector\(O12\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K15-9 (MM) - O12-2 (MMRY)	Always	Below 1 $\Omega$
K15-9 (MM) or O12-2 (MMRY) - Body ground	Always	10 k $\Omega$ or higher
K15-11 (M1) - O12-3 (1)	Always	Below 1 $\Omega$
K15-11 (M1) or O12-3 (1) - Body ground	Always	10 k $\Omega$ or higher
K15-10 (M2) - O12-4 (2)	Always	Below 1 $\Omega$
K15-10 (M2) or O12-4 (2) - Body ground	Always	10 k $\Omega$ or higher
O12-1 (E) - Body ground	Always	Below 1 $\Omega$

**OK** ► **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)**

Click here [INFO](#)

**NG** ► **REPAIR OR REPLACE HARNESS OR CONNECTOR**

