Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029X3K
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: SEAT: FRONT POWER SEAT CONTROL SYSTEM (w/ Memory): Power Seat does not Return to Memorized Position; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Power Seat does not Return to Memorized Position

DESCRIPTION

When the M1 or M2 switch of the seat memory switch is pressed, a switch signal is sent to the main body ECU (multiplex network body ECU). Then, the main body ECU (multiplex network body ECU) sends a recall request signal to the position control ECU assembly LH. The position control ECU assembly LH operates each motor to move the seat to the memorized position.

WIRING DIAGRAM

Click here INFO

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.

  Click here INFO
- 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).

  Click here INFO
- 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.

  Click here INFO

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 LH.

Click here INFO

OK:

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

NG ▶ **GO TO PROBLEM SYMPTOMS TABLE**

OK ▼

2.	**CHECK SEAT POSITION MEMORY FUNCTION**

(a) Check the seat position memory function.

Click here INFO

OK:
Seat position memory function is normal.

NG ▶ **GO TO OTHER DIAGNOSIS PROCEDURE (Power Seat Position is not Memorized)**

OK ▼

3.	**CHECK SEAT POSITION RESTORING FUNCTION**

(a) Under each of the following conditions, check that the seat position restoring function operates by pressing the M1 or M2 switch.

Click here INFO

- The ignition switch is ON, and the shift lever is in P.*1
- Within 180 seconds after the driver door is opened with the ignition switch off.*2
- Within 60 seconds after the driver door is opened and then closed with the ignition switch off.*3

RESULT	PROCEED TO
Seat position restoring function does not operate at all.	A
Seat position restoring function does not operate when the condition is *1.	B
• Seat position restoring function does not operate when the condition is *2. • Seat position restoring function does not operate when the condition is *3.	C

B ▶ **GO TO STEP 7**

C ▶ **GO TO STEP 8**

A

4.	**READ VALUE USING GTS**

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

Body Electrical > Driver Seat > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Memory No1	Seat position memorized with M1 switch	No Memory or Memory	Current memory status	-
Memory No2	Seat position memorized with M2 switch	No Memory or Memory	Current memory status	-

Body Electrical > Driver Seat > Data List

TESTER DISPLAY
Memory No1
Memory No2

OK:
Memory is displayed on the GTS screen.

NG ▶ **GO TO OTHER DIAGNOSIS PROCEDURE (Power Seat Position is not Memorized)**

OK

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

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

Click here INFO

NEXT

6.	**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)** INFO

7.	**READ VALUE USING GTS**

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

Powertrain > Hybrid Control > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Shift Position	Current shift state	P / R / N / D / B (S)	The selected shift state is displayed	-

Powertrain > Hybrid Control > Data List

TESTER DISPLAY
Shift Position

OK:
On the GTS screen, the current shift state is displayed accordingly.

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

NG ▶ **GO TO ELECTRONIC SHIFT LEVER SYSTEM** INFO

8.	**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
FR Door Courtesy Switch Status	Front door courtesy light switch assembly (RH) signal	Close or Open	Close: Front door RH closed Open: Front door RH open	-
FL Door Courtesy Switch Status	Front door courtesy light switch assembly (LH) signal	Close or Open	Close: Front door LH closed Open: Front door LH open	-

Body Electrical > Main Body > Data List

TESTER DISPLAY
FR Door Courtesy Switch Status
FL Door Courtesy Switch Status

OK:
On the GTS screen, Close or Open is displayed accordingly.

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

NG ▶ **GO TO LIGHTING SYSTEM (Proceed to Front Door Courtesy Switch Circuit)**