Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029X3L
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: SEAT: FRONT POWER SEAT CONTROL SYSTEM (w/ Memory): Wireless Transmitter Memory Function does not Operate; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Wireless Transmitter Memory Function does not Operate

DESCRIPTION

With the ignition switch ON and the driver door closed, pressing the manual lock or unlock switch on the multiplex network master switch assembly while holding a seat memory switch (M1 or M2 switch) will register the transmitter recognition code into the seat memory switch that was pressed. After registration is completed, the answer back buzzer sounds.

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).

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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) or certification ECU (smart key ECU assembly), refer to Registration.

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PROCEDURE

1.	**CHECK MANUAL DOOR LOCK FUNCTION**

(a) Check the manual lock/unlock function by using the door control switch (multiplex network master switch assembly).

Click here INFO

OK:

Manual lock/unlock function operates normally.

NG ▶ **GO TO POWER DOOR LOCK CONTROL SYSTEM** INFO

OK

2.	**CHECK SMART KEY SYSTEM (for Start Function)**

(a) Check that the hybrid control system starts operates normally when the ignition switch is pressed while carrying the electrical key transmitter sub-assembly and with the brake pedal depressed.

OK:

Hybrid control system starts normally.

NG ▶ **GO TO SMART KEY SYSTEM (for Start Function)**

OK

3.	**CHECK SEAT POSITION MEMORY AND RESTORING FUNCTION**

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

Click here INFO

RESULT	PROCEED TO
OK	A
NG (Seat position memory function does not operate normally)	B
NG (Seat position restoring function does not operate normally)	C

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

C ▶ **GO TO OTHER DIAGNOSIS PROCEDURE (Power Seat does not Return to Memorized Position)**

A

4.	**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.

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

OK ▼

5.	**CHECK MEMORY CALL FUNCTION (MEMORY REGISTRATION)**

(a) Check the memory registration of the memory call function.

Click here INFO

OK:
A seat position can be registered normally.

NG ▶ **GO TO STEP 8**

OK

6.	**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
MEM Switch No. with Key ID 1	Memory switch linked with key ID1	NONE, D MEM SW1, D MEM SW2 or D MEM SW3*	NONE: No switches linked with key ID1 D MEM SW1: M1 switch linked with key ID1 D MEM SW2: M2 switch linked with key ID1 D MEM SW3: M3 switch linked with key ID1*	-
MEM Switch No. with Key ID 2	Memory switch linked with key ID2	NONE, D MEM SW1, D MEM SW2 or D MEM SW3*	NONE: No switches linked with key ID2 D MEM SW1: M1 switch linked with key ID2 D MEM SW2: M2 switch linked with key ID2 D MEM SW3: M3 switch linked with key ID2*	-
MEM Switch No. with Key ID 3	Memory switch linked with key ID3	NONE, D MEM SW1, D MEM SW2 or D MEM SW3*	NONE: No switches linked with key ID3 D MEM SW1: M1 switch linked with key ID3 D MEM SW2: M2 switch linked with key ID3 D MEM SW3: M3 switch linked with key ID3*	-
MEM Switch No. with Key ID 4	Memory switch linked with key ID4	NONE, D MEM SW1, D MEM SW2 or D MEM SW3*	NONE: No switches linked with key ID4 D MEM SW1: M1 switch linked with key ID4 D MEM SW2: M2 switch linked with key ID4 D MEM SW3: M3 switch linked with key ID4*	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
MEM Switch No. with Key ID 5	Memory switch linked with key ID5	NONE, D MEM SW1, D MEM SW2 or D MEM SW3*	NONE: No switches linked with key ID5 D MEM SW1: M1 switch linked with key ID5 D MEM SW2: M2 switch linked with key ID5 D MEM SW3: M3 switch linked with key ID5*	-
MEM Switch No. with Key ID 6	Memory switch linked with key ID6	NONE, D MEM SW1, D MEM SW2 or D MEM SW3*	NONE: No switches linked with key ID6 D MEM SW1: M1 switch linked with key ID6 D MEM SW2: M2 switch linked with key ID6 D MEM SW3: M3 switch linked with key ID6*	-
MEM Switch No. with Key ID 7	Memory switch linked with key ID7	NONE, D MEM SW1, D MEM SW2 or D MEM SW3*	NONE: No switches linked with key ID7 D MEM SW1: M1 switch linked with key ID7 D MEM SW2: M2 switch linked with key ID7 D MEM SW3: M3 switch linked with key ID7*	-

*: Not applicable

Body Electrical > Main Body > Data List

TESTER DISPLAY
MEM Switch No. with Key ID 1
MEM Switch No. with Key ID 2
MEM Switch No. with Key ID 3
MEM Switch No. with Key ID 4
MEM Switch No. with Key ID 5
MEM Switch No. with Key ID 6

TESTER DISPLAY
MEM Switch No. with Key ID 7

OK:
A seat position memory switch is linked to the electrical key transmitter sub-assembly.

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

OK ▼

7.	**CHECK MEMORY CALL FUNCTION (MEMORY REGISTRATION AND AUTOMATIC MEMORY CALL FUNCTION)**

(a) Check the memory registration and automatic memory call function of the memory call function.

Click here INFO

OK:
A seat position can be registered and the automatic memory call function operates normally.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▶ **GO TO OTHER DIAGNOSIS PROCEDURE (Wireless-linked Return Function does not Operate)**

8.	**REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)**

(a) Replace the main body ECU (multiplex network body ECU) with a new one.

Click here INFO

NEXT ▼

9.	**CHECK MEMORY CALL FUNCTION (MEMORY REGISTRATION)**

(a) Check the memory registration of the memory call function.

Click here INFO

OK:

A seat position can be registered normally.

OK ▶ **END (MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) WAS DEFECTIVE)**

NG

10.	**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

11.	**CHECK MEMORY CALL FUNCTION (MEMORY REGISTRATION)**

(a) Check the memory registration of the memory call function.

Click here INFO

OK:
A seat position can be registered normally.

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

NG ▶ **REPLACE CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)** INFO