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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------|
| <b>Last Modified:</b> 12-04-2024                                                                                                                                                                           | 6.11:8.1.0                | <b>Doc ID:</b> RM100000029X65        |
| <b>Model Year Start:</b> 2023                                                                                                                                                                              | <b>Model:</b> Prius Prime | <b>Prod Date Range:</b> [12/2022 - ] |
| <b>Title:</b> WINDOW / GLASS: POWER WINDOW CONTROL SYSTEM: Front Passenger Side Power Window does not Operate with Front Passenger Side Power Window Switch; 2023 - 2024 MY Prius Prius Prime [12/2022 - ] |                           |                                      |

## Front Passenger Side Power Window does not Operate with Front Passenger Side Power Window Switch

## DESCRIPTION

When the ignition switch is ON, the power window regulator motor assembly RH (for front passenger door) is operated by the power window regulator switch assembly. The power window regulator motor assembly RH (for front passenger door) has motor, regulator, and ECU functions.

## WIRING DIAGRAM

Click here [INFO](#)

## CAUTION / NOTICE / HINT

### NOTICE:

- Inspect the fuses for circuits related to this system before performing the following procedure.
- If the power window regulator motor assembly RH (for front passenger door) has been replaced with a new one, initialize the power window control system.

Click here [INFO](#)

- The power window control system uses the LIN communication system. Inspect the communication function by following How to Proceed with Troubleshooting. Troubleshoot the power window control system after confirming that the communication system is functioning properly.

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- Check that the window lock switch is off before performing the following procedure.
- Before replacing the main body ECU (multiplex network body ECU), refer to Registration.

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## PROCEDURE

|           |                             |
|-----------|-----------------------------|
| <b>1.</b> | <b>READ VALUE USING GTS</b> |
|-----------|-----------------------------|

(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 |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------|-----------------|
| Communication P-Door Motor | Connection status between power window regulator motor assembly RH (for front passenger door) and main body ECU (multiplex network body ECU) | STOP or OK | STOP:<br>Communication stopped | -               |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION         | DIAGNOSTIC NOTE |
|----------------|------------------|-------|--------------------------|-----------------|
|                |                  |       | OK: Normal communication |                 |

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

|                            |
|----------------------------|
| TESTER DISPLAY             |
| Communication P-Door Motor |

OK:  
OK is displayed for each Data List item above.

**NG**  **GO TO LIN COMMUNICATION SYSTEM** 

**OK**  


|           |                             |
|-----------|-----------------------------|
| <b>2.</b> | <b>READ VALUE USING GTS</b> |
|-----------|-----------------------------|

(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 |
|---------------------------------|------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------------|
| P Door Power Window UP Switch   | Front passenger door power window manual up switch   | OFF or ON | OFF: Manual up switch not being operated<br>ON: Manual up switch being operated     | -               |
| P Door Power Window DOWN Switch | Front passenger door power window manual down switch | OFF or ON | OFF: Manual down switch not being operated<br>ON: Manual down switch being operated | -               |

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

|                             |
|-----------------------------|
| TESTER DISPLAY              |
| P Window Auto Up Function   |
| P Window Auto Down Function |

OK:

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

**NG**  **GO TO STEP 4**

**OK**



|           |                                      |
|-----------|--------------------------------------|
| <b>3.</b> | <b>PERFORM ACTIVE TEST USING GTS</b> |
|-----------|--------------------------------------|

(a) Perform the Active Test according to the display on the GTS.

**Body Electrical > Main Body > Active Test**

| TESTER DISPLAY           | MEASUREMENT ITEM                                | CONTROL RANGE | DIAGNOSTIC NOTE |
|--------------------------|-------------------------------------------------|---------------|-----------------|
| P Door Power Window UP   | Front passenger door power window up activate   | OFF/ON        | -               |
| P Door Power Window DOWN | Front passenger door power window down activate | OFF/ON        | -               |

**Body Electrical > Main Body > Active Test**

|                        |
|------------------------|
| TESTER DISPLAY         |
| P Door Power Window UP |

**Body Electrical > Main Body > Active Test**

|                          |
|--------------------------|
| TESTER DISPLAY           |
| P Door Power Window DOWN |

**HINT:**

Up and down movement does not occur if the arrow is not pressed and held.

OK:

Front passenger door power window operates normally.

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

**NG**  **REPLACE POWER WINDOW REGULATOR MOTOR ASSEMBLY RH (for Front Passenger Door)** 

**4. INSPECT POWER WINDOW REGULATOR SWITCH ASSEMBLY**

Click here [INFO](#)

**NG**  **REPLACE POWER WINDOW REGULATOR SWITCH ASSEMBLY**

**OK**  


**5. CHECK HARNESS AND CONNECTOR (POWER WINDOW REGULATOR SWITCH ASSEMBLY - POWER WINDOW REGULATOR MOTOR ASSEMBLY RH (for Front Passenger Door))**

- (a) Disconnect the N4 power window regulator motor assembly RH (for front passenger door) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



- [Click Location & Routing\(N11,N4\)](#)
- [Click Connector\(N11\)](#)
- [Click Connector\(N4\)](#)

| TESTER CONNECTION                         | CONDITION | SPECIFIED CONDITION |
|-------------------------------------------|-----------|---------------------|
| N11-5 (UP) - N4-10 (UP)                   | Always    | Below 1 Ω           |
| N11-5 (UP) or N4-10 (UP) - Body ground    | Always    | 10 kΩ or higher     |
| N11-4 (DOWN) - N4-7 (DOWN)                | Always    | Below 1 Ω           |
| N11-4 (DOWN) or N4-7 (DOWN) - Body ground | Always    | 10 kΩ or higher     |

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

**OK**  


**6. INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY LH (for Front Passenger Door)**

Click here [INFO](#)

**OK** ▶ **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)** [INFO](#)

**NG** ▶ **REPLACE POWER WINDOW REGULATOR MOTOR ASSEMBLY RH (for Front Passenger Door)** [INFO](#)

