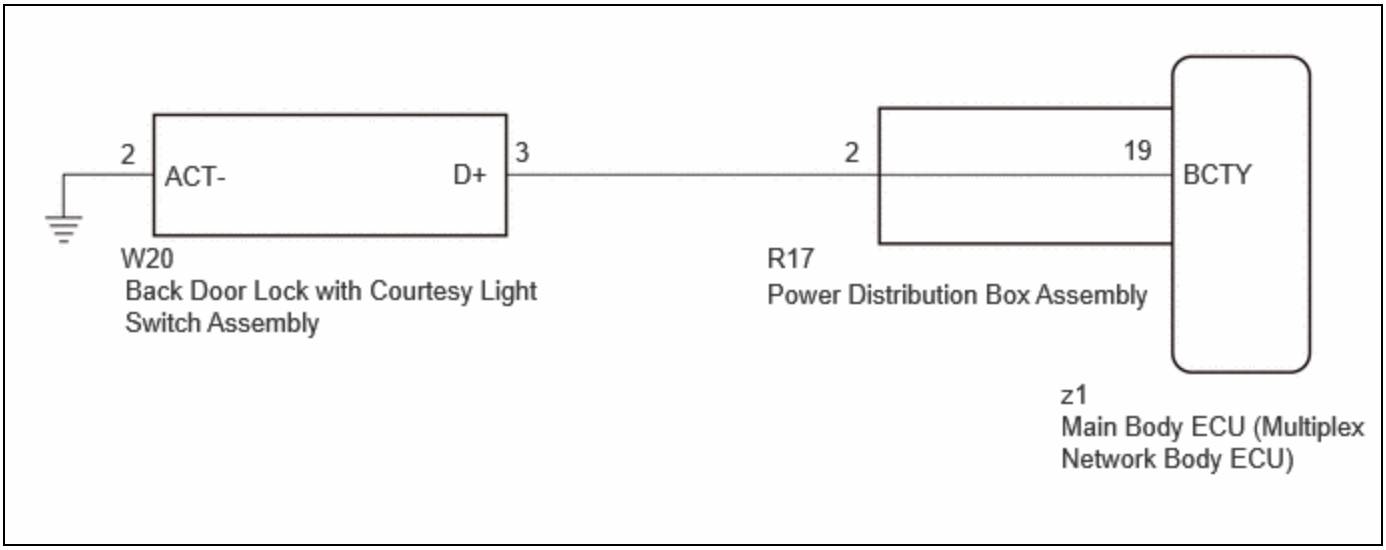
| | | |
|---|---|---|
| **Last Modified:** 12-04-2024 | 6.11:8.1.0 | **Doc ID:** RM1000000029IMW |
| **Model Year Start:** 2023 | **Model:** Prius Prime | **Prod Date Range:** [12/2022 - ] |
| **Title:** LIGHTING (INT): LIGHTING SYSTEM: Back Door Courtesy Switch Circuit; 2023 - 2024 MY Prius Prius Prime [12/2022 - ] | | |

**Back Door Courtesy Switch Circuit**

# DESCRIPTION

The main body ECU (multiplex network body ECU) receives a back door open/closed signal from the multiplex network door ECU.

# WIRING DIAGRAM




# CAUTION / NOTICE / HINT

**NOTICE:**

Before replacing the main body ECU (multiplex network body ECU), refer to Registration.

Click here INFO

# PROCEDURE

| | |
|---|---|
| **1.** | **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 |
|---|---|---|---|---|
| Back Door Courtesy Switch Status | Back door courtesy switch signal | Close or Open | Close: Back door closed<br>Open: Back door open | - |

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

| TESTER DISPLAY |
|---|
| Back Door Courtesy Switch Status |

OK:
Normal conditions listed above are displayed.

**OK** ▶ **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE** INFO

**NG** ▼

| | |
|---|---|
| **2.** | **INSPECT BACK DOOR LOCK WITH COURTESY LIGHT SWITCH ASSEMBLY** |

Click here INFO

**NG** ▶ **REPLACE BACK DOOR LOCK WITH COURTESY LIGHT SWITCH ASSEMBLY**

**OK** ▼

| | |
|---|---|
| **3.** | **CHECK HARNESS AND CONNECTOR (BACK DOOR LOCK WITH COURTESY LIGHT SWITCH ASSEMBLY - POWER DISTRIBUTION BOX ASSEMBLY)** |

(a) Disconnect the R17 power distribution box assembly connector.

(b) Disconnect the W20 back door lock with courtesy light switch assembly.

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

Standard Resistance:

EWD INFO

Click Location & Routing(W20,R17)
Click Connector(W20)
Click Connector(R17)

| TESTER CONNECTION | CONDITION | SPECIFIED CONDITION |
|---|---|---|
| W20-3 (D+) - R17-2 | Always | Below 1 Ω |
| W20-3 (D+) or R17-2 - Body ground | Always | 10 kΩ or higher |

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

**OK** ▼

| | |
|---|---|
| **4.** | **INSPECT POWER DISTRIBUTION BOX ASSEMBLY** |

(a) Remove the main body ECU (multiplex network body ECU) from the power distribution box assembly.

Click here INFO

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

Standard Resistance:

EWD INFO

Click Location & Routing(R17,z1)
Click Connector(R17)
Click Connector(z1)

| TESTER CONNECTION | CONDITION | SPECIFIED CONDITION |
|---|---|---|
| R17-2 - z1-19 (BCTY) | Always | Below 1 Ω |

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

**NG** ▶ **REPLACE POWER DISTRIBUTION BOX ASSEMBLY** INFO