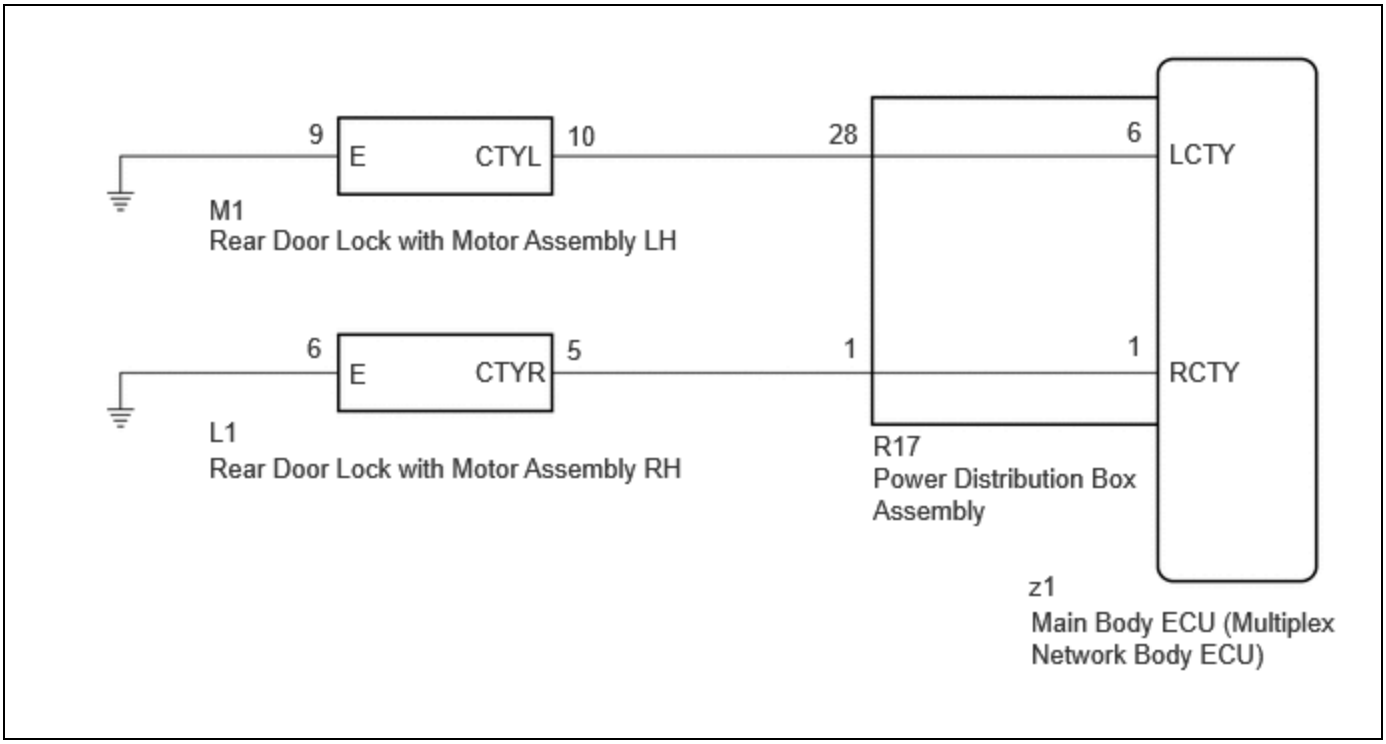
Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029INB
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: LIGHTING (INT): LIGHTING SYSTEM: Rear Door Courtesy Switch Circuit; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Rear Door Courtesy Switch Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) detects the condition of the rear door courtesy light switch assembly.

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
RR Door Courtesy Switch Status	Rear door courtesy light switch assembly (for RH) signal	Close or Open	Close: Rear door RH closed Open: Rear door RH open	-
RL Door Courtesy Switch Status	Rear door courtesy light switch assembly (for LH) signal	Close or Open	Close: Rear door LH closed Open: Rear door LH open	-

Body Electrical > Main Body > Data List

TESTER DISPLAY
RR Door Courtesy Switch Status
RL Door Courtesy Switch Status

OK:
Normal conditions listed above are displayed.

RESULT	PROCEED TO
OK	A
NG ("RL Door Courtesy Switch Status" is not normal)	B
NG ("RR Door Courtesy Switch Status" is not normal)	C

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

C ▶ **GO TO STEP 5**

B ▼

2.	**INSPECT REAR DOOR LOCK WITH MOTOR ASSEMBLY LH**

Click here INFO

NG ▶ **REPLACE REAR DOOR LOCK WITH MOTOR ASSEMBLY LH** INFO

OK ▼

3.	**CHECK HARNESS AND CONNECTOR (REAR DOOR LOCK WITH MOTOR ASSEMBLY LH - POWER DISTRIBUTION BOX ASSEMBLY)**

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

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

Standard Resistance:

EWD INFO

Click Location & Routing(M1,R17)
Click Connector(M1)
Click Connector(R17)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
M1-10 (CTYL) - R17-28	Always	Below 1 Ω
M1-10 (CTYL) or R17-28 - 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
R17-28 - z1-6 (LCTY)	Always	Below 1 Ω

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

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

5.	**INSPECT REAR DOOR LOCK WITH MOTOR ASSEMBLY RH**

Click here INFO

NG ▶ **REPLACE REAR DOOR LOCK WITH MOTOR ASSEMBLY RH** INFO

OK ▼

6.	**CHECK HARNESS AND CONNECTOR (REAR DOOR LOCK WITH MOTOR ASSEMBLY RH - POWER DISTRIBUTION BOX ASSEMBLY)**

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

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

Standard Resistance:

EWD INFO

Click Location & Routing(L1,R17)
Click Connector(L1)
Click Connector(R17)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L1-5 (CTYR) - R17-1	Always	Below 1 Ω
L1-5 (CTYR) or R17-1 - Body ground	Always	10 kΩ or higher

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

OK ▼

7.	**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
R17-1 - z1-1 (RCTY)	Always	Below 1 Ω

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

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