

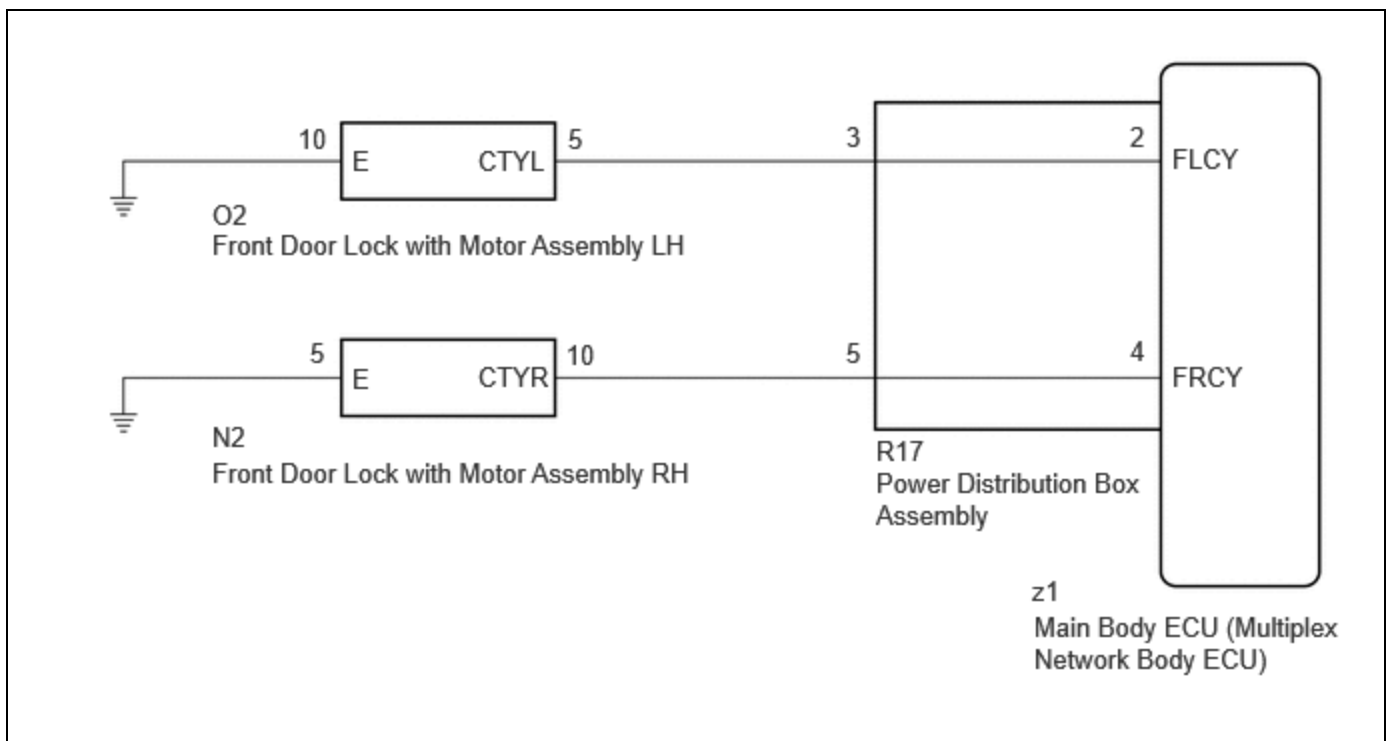
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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: LIGHTING (INT): LIGHTING SYSTEM: Front Door Courtesy Switch Circuit; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Front Door Courtesy Switch Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) detects the condition of the front 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
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(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 (for 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 (for 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:
Normal conditions listed above are displayed.

RESULT	PROCEED TO
OK	A
NG ("FL Door Courtesy Switch Status" is not normal)	B
NG ("FR 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 FRONT DOOR LOCK WITH MOTOR ASSEMBLY LH
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Click here INFO

NG  **REPLACE FRONT DOOR LOCK WITH MOTOR ASSEMBLY LH** 

OK


3. CHECK HARNESS AND CONNECTOR (FRONT 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:



[Click Location & Routing\(O2,R17\).](#)

[Click Connector\(O2\).](#)

[Click Connector\(R17\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O2-5 (CTYL) - R17-3	Always	Below 1 Ω
O2-5 (CTYL) or R17-3 - Body ground	Always	10 k Ω 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 

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

Standard Resistance:



[Click Location & Routing\(R17,z1\).](#)

[Click Connector\(R17\).](#)

[Click Connector\(z1\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R17-3 - z1-2 (FLCY)	Always	Below 1 Ω

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

NG ▶ REPLACE POWER DISTRIBUTION BOX ASSEMBLY [INFO](#)

5. INSPECT FRONT DOOR LOCK WITH MOTOR ASSEMBLY RH

Click here [INFO](#)

NG ▶ REPLACE FRONT DOOR LOCK WITH MOTOR ASSEMBLY RH [INFO](#)

OK
▼

6. CHECK HARNESS AND CONNECTOR (FRONT 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:



- [Click Location & Routing\(N2,R17\).](#)
- [Click Connector\(N2\).](#)
- [Click Connector\(R17\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
N2-10 (CTYR) - R17-5	Always	Below 1 Ω
N2-10 (CTYR) or R17-5 - 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:



[Click Location & Routing\(R17,z1\).](#)

[Click Connector\(R17\).](#)

[Click Connector\(z1\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R17-5 - z1-4 (FRCY)	Always	Below 1 Ω

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

NG ▶ REPLACE POWER DISTRIBUTION BOX ASSEMBLY [INFO](#)

