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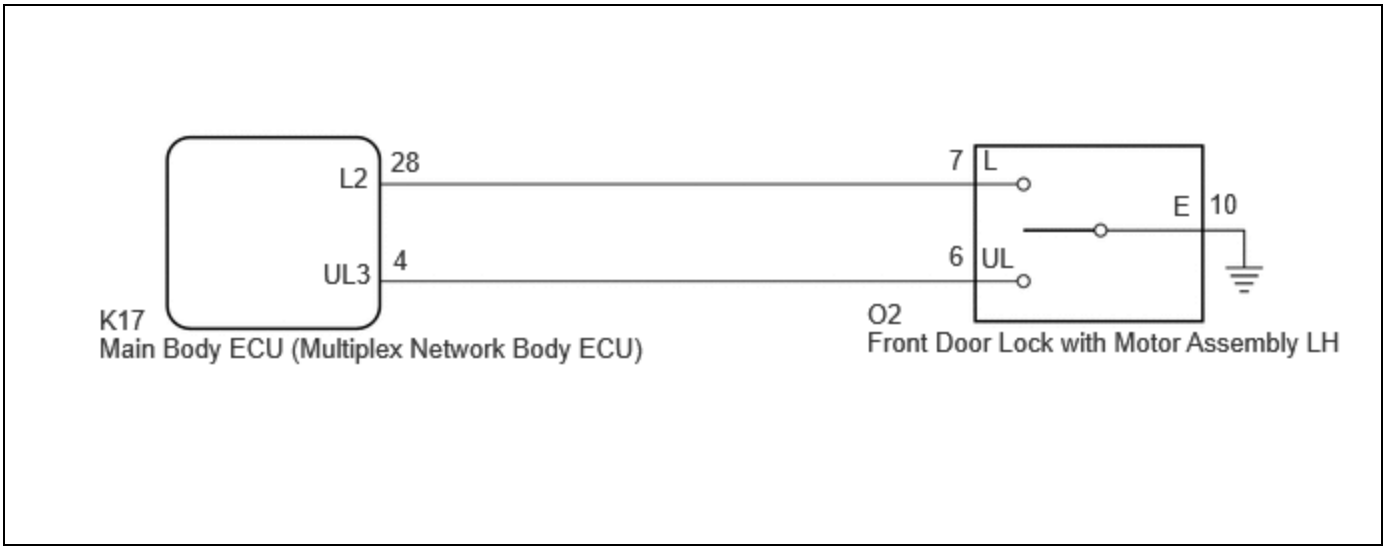
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: DOOR LOCK: POWER DOOR LOCK CONTROL SYSTEM: All Doors LOCK/UNLOCK Functions do not Operate Via Door Key Cylinder; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

All Doors LOCK/UNLOCK Functions do not Operate Via Door Key Cylinder

DESCRIPTION

The main body ECU (multiplex network body ECU) receives driver door key cylinder lock or unlock switch signals from the front door lock with motor assembly. The main body ECU (multiplex network body ECU) activates the door lock motor on each door according to these signals.

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
Door Lock Switch Status by a Mechanical Key (D/P Door)	Driver door key-linked lock / unlock switch lock signal	OFF or ON	OFF: Driver door key cylinder not turned to lock position ON: Driver door key cylinder turned to lock position	-
Door Unlock Switch Status by a Mechanical Key (D Door)	Driver door key-linked lock / unlock switch lock signal	OFF or ON	OFF: Driver door key cylinder not turned to unlock position ON: Driver door key cylinder turned to unlock position	-

Body Electrical > Main Body > Data List

TESTER DISPLAY
Door Lock Switch Status by a Mechanical Key (D/P Door)
Door Unlock Switch Status by a Mechanical Key (D Door)

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

NG

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

Click here INFO

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

OK

▼

3.	**CHECK HARNESS AND CONNECTOR (FRONT DOOR LOCK WITH MOTOR ASSEMBLY LH - MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) AND BODY GROUND)**

(a) Disconnect the K17 main body ECU (multiplex network body ECU) connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(O2,K17)
Click Connector(O2)
Click Connector(K17)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O2-7 (L) - K17-28 (L2)	Always	Below 1 Ω
O2-6 (UL) - K17-4 (UL3)	Always	Below 1 Ω
O2-10 (E) - Body ground	Always	Below 1 Ω
O2-7 (L) or K17-28 (L2) - Other terminals and body ground	Always	10 kΩ or higher
O2-6 (UL) or K17-4 (UL3) - Other terminals and body ground	Always	10 kΩ or higher

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

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