Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029X7O
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: NETWORKING: LIN COMMUNICATION SYSTEM: B276C88; Alarm / Wiper LIN Bus off; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

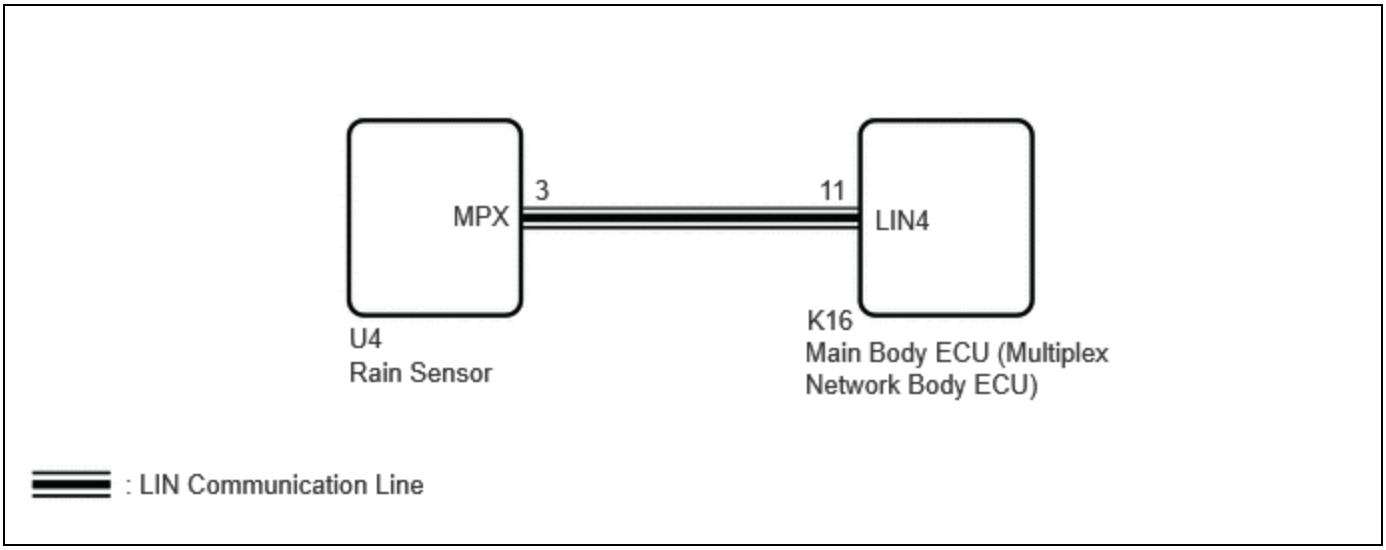
DTC	**B276C88**	**Alarm / Wiper LIN Bus off**

DESCRIPTION

The main body ECU (multiplex network body ECU) and rain sensor communicate via LIN communication. The main body ECU (multiplex network body ECU) stores this DTC if communication becomes abnormal.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B276C88	Alarm / Wiper LIN Bus off	No communication between main body ECU (multiplex network body ECU) and rain sensor for 10 seconds or more.	• Main body ECU (multiplex network body ECU) • Rain sensor • Harness or connector	Main Body	A

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

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

  Click here INFO
- When using the GTS with the ignition switch off, perform lock and unlock operations using the door control switch of the multiplex network master switch assembly at intervals of 1.5 seconds or less until

communication between the GTS and the vehicle begins, and then select the vehicle model manually.

Then select Model Code "KEY REGIST" under manual mode and enter the following menus: Body Electrical / Smart Key (CAN). While using the GTS, periodically perform lock and unlock operations using the door control switch of the multiplex network master switch assembly at intervals of 1.5 seconds or less to maintain communication between the GTS and the vehicle.

PROCEDURE

1.	**CLEAR DTC**

(a) Clear the DTCs.

Body Electrical > Main Body > Clear DTCs

NEXT

2.	**CHECK FOR DTC**

(a) Check for DTCs.

Body Electrical > Main Body > Trouble Codes

RESULT	PROCEED TO
B276C88 is not output	A
B276C88 is output	B

A **USE SIMULATION METHOD TO CHECK**

B

3.	**CLEAR DTC**

Pre-procedure1

(a) Disconnect the U4 rain sensor connector.

Procedure1

(b) Clear the DTCs.

Body Electrical > Main Body > Clear DTCs

Post-procedure1

(c) None

NEXT

4.	**CHECK RAIN SENSOR**

(a) Check if the DTC is output.

Body Electrical > Main Body > Trouble Codes

RESULT	PROCEED TO
B276C88 is output	A
B276C88 is not output	B

B **REPLACE RAIN SENSOR**

A

5.	**CHECK HARNESS AND CONNECTOR (LIN BUS CIRCUIT)**

Pre-procedure1

(a) Disconnect the K16 main body ECU (multiplex network body ECU) connector.

(b) Disconnect the U4 rain sensor connector.

Procedure1

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

Standard Resistance:

EWD INFO

Click Location & Routing(K16)
Click Connector(K16)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K16-11 (LIN4) - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

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

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