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Title: NETWORKING: CXPI COMMUNICATION SYSTEM: SYSTEM DESCRIPTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

SYSTEM DESCRIPTION

CXPI COMMUNICATION SYSTEM DESCRIPTION

(a) The multiplex communication system [CXPI] is used for communication systems between body system components. When communication fails due to an open circuit, etc. on the communication line, the function that outputs a DTC related to the circuit according to the control master ECU and the fail-safe function that maintains minimum performance and protects the system activate. (The following shows the communication system and connected ECUs.)

HINT:
- Each component has a fail-safe function which activates to maintain the minimum performance of the system and protect the system.
- In the following table, "○" indicates that the function applies, and "-" indicates that it does not.

COMPONENT	MASTER CONTROL	CXPI COMMUNICATION DTC OUTPUT FUNCTION
Main body ECU (multiplex network body ECU)	○	Output function enabled
Power distribution box assembly	-	Output function disabled
Windshield wiper relay assembly	-	Output function disabled
Headlight housing sub-assembly LH	-	Output function disabled
Headlight housing sub-assembly RH	-	Output function disabled

LOAD OPERATION OUTPUT

(a) Controls the load on and off based on multiplex communication signals.

LOAD	POWER DISTRIBUTION BOX ASSEMBLY	SUPPORTS OPERATION SIGNAL COMMUNICATION
Rear window defogger	●	Supported
Back-up light	●	Not supported
Outer rear view mirror	●	Supported
Dome cut relay	●	Supported
Mirror heater*1	●	Supported
Taillight	●	Supported
Seat heater*2	●	Not supported
Passenger seat buckle switch*3	●	Supported
Occupant detection sensor*3	●	Supported
Rear center seat belt buckle switch	●	Supported

LOAD	POWER DISTRIBUTION BOX ASSEMBLY	SUPPORTS OPERATION SIGNAL COMMUNICATION
Rear RH seat belt buckle switch	●	Supported
Rear LH seat belt buckle switch	●	Supported
IGR relay	●	Supported
+BA relay	●	Supported

*1: w/ Mirror Heater

*2: w/ Seat Heater

*3: w/o Occupant Classification System