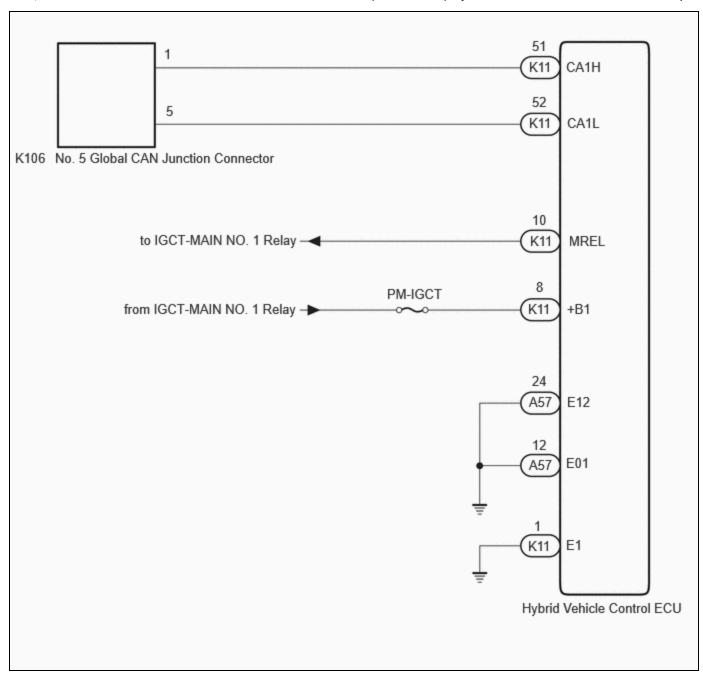
Last Modified: 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000029GS7		
Model Year Start: 2023	Model: Prius	Prod Date Range: [12/2022 - ]		
Title: NETWORKING: CAN COMMUNICATION SYSTEM (for HEV Model): Hybrid Vehicle Control ECU Communication				
Stop Mode; 2023 - 2024 MY Prius [12/2022 - ]				

Hybrid Vehicle Control ECU Communication Stop Mode

## **DESCRIPTION**

DETECTION ITEM	SYMPTOM	TROUBLE AREA
Hybrid Vehicle Control ECU Communication Stop Mode	Communication stop for "Hybrid Vehicle Control" is indicated on the "Communication Bus Check" screen of the GTS.  Click here	Hybrid vehicle control ECU branch line or connector     Power source circuit of hybrid vehicle control ECU     Hybrid vehicle control ECU ground circuit     Hybrid vehicle control ECU

# **WIRING DIAGRAM**



# **CAUTION / NOTICE / HINT**

### **CAUTION:**

When performing the confirmation driving pattern, obey all speed limits and traffic laws.

### **NOTICE:**

• Because the order of diagnosis is important to allow correct diagnosis, make sure to begin troubleshooting using How to Proceed with Troubleshooting when CAN communication system related DTCs are output.

Click here NFO

- Before measuring the resistance of the CAN bus, turn the ignition switch off and leave the vehicle for 1 minute or more without operating the key or any switches, or opening or closing the doors. After that, disconnect the cable from the negative (-) auxiliary battery terminal and leave the vehicle for 10 minutes or more before measuring the resistance.
- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

Click here

When disconnecting and reconnecting the auxiliary battery.

#### HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

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• Some parts must be initialized and set when replacing or removing and installing parts.

Click here NFO

• After performing repairs, perform the DTC check procedure and confirm that the DTCs are not output again.

DTC check procedure: Turn the ignition switch to ON and wait for 1 minute or more. Then operate the suspected malfunctioning system and drive the vehicle at 60 km/h (37 mph) or more for 5 minutes or more.

• After the repair, perform the CAN bus check and check that all the ECUs and sensors connected to the CAN communication system are displayed as normal.

Click here NFO

- Inspect the fuses for circuits related to this system before performing the following procedure.
- Before replacing the hybrid vehicle control ECU, refer to Registration.

Click here NFO

#### HINT:

- Before disconnecting related connectors for inspection, push in on each connector body to check that the connector is not loose or disconnected.
- When a connector is disconnected, check that the terminals and connector body are not cracked, deformed or corroded.

## **PROCEDURE**

- 1. CHECK FOR OPEN IN CAN BUS LINES (HYBRID VEHICLE CONTROL ECU BRANCH LINE)
- (a) Disconnect the cable from the negative (-) auxiliary battery terminal.
- (b) Disconnect the K11 hybrid vehicle control ECU connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



### <u>Click Location & Routing(K11)</u> <u>Click Connector(K11)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K11-51 (CA1H) - K11-52 (CA1L)	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω

NG REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (HYBRID VEHICLE CONTROL ECU)



### 2. CHECK HYBRID VEHICLE CONTROL ECU POWER SOURCE CIRCUIT

- (a) Check the hybrid vehicle control ECU power source circuit.
  - for M20A-FXS:

Click here NFO

• for 2ZR-FXE:

Click here NFO

OK REPLACE HYBRID VEHICLE CONTROL ECU

Click here NFO

NG REPAIR OR REPLACE HARNESS OR CONNECTOR (POWER SOURCE CIRCUIT)



