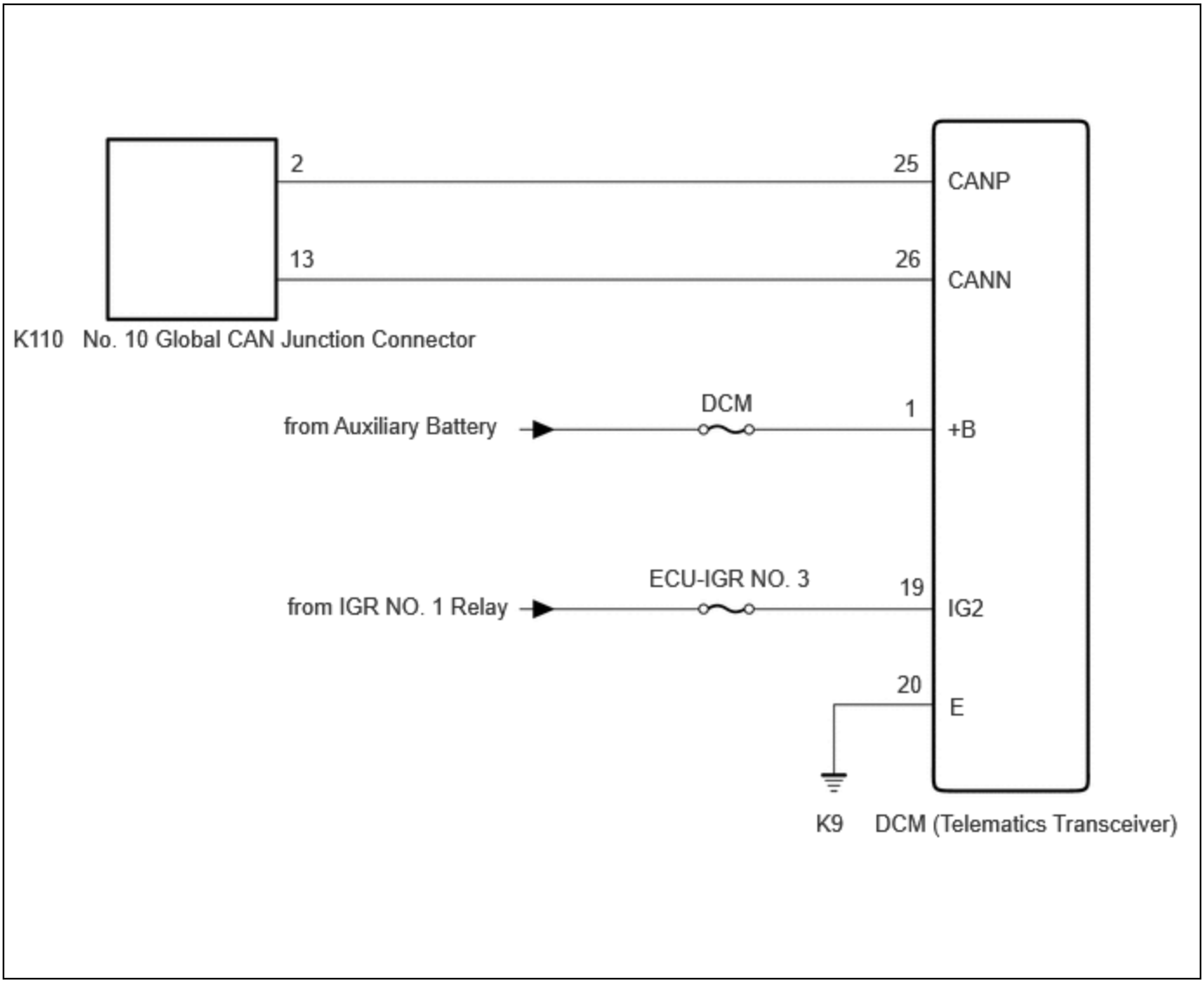
Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029GSP
Model Year Start: 2023	**Model:** Prius	**Prod Date Range:** [12/2022 -]
Title: NETWORKING: CAN COMMUNICATION SYSTEM (for HEV Model): DCM Communication Stop Mode; 2023 - 2024 MY Prius [12/2022 -]		

DCM Communication Stop Mode

DESCRIPTION

DETECTION ITEM	SYMPTOM	TROUBLE AREA
DCM Communication Stop Mode	Communication stop for "DCM" is indicated on the "Communication Bus Check" screen of the GTS. Click here INFO	• DCM (telematics transceiver) branch line or connector • Power source circuit of DCM (telematics transceiver) • DCM (telematics transceiver) ground circuit • DCM (telematics transceiver)

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 INFO
- 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 INFO
- 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.

Click here INFO

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

Click here INFO

- 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 INFO

- Inspect the fuses for circuits related to this system before performing the following procedure.
- Before replacing the DCM (telematics transceiver), refer to Registration.

Click here INFO

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 (DCM (TELEMATICS TRANSCEIVER) BRANCH LINE)**

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K9 DCM (telematics transceiver) connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(K9)
Click Connector(K9)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K9-25 (CANP) - K9-26 (CANN)	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω

NG ▶ **REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (DCM (TELEMATICS TRANSCEIVER))**

OK ▼

2.	**CHECK HARNESS AND CONNECTOR (POWER SOURCE CIRCUIT)**

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

Standard Resistance:

Click Location & Routing(K9)
Click Connector(K9)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K9-20 (E) - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω

(b) Reconnect the cable to the negative (-) auxiliary battery terminal.

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

Standard Voltage:

Click Location & Routing(K9)
Click Connector(K9)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K9-1 (+B) - Body ground	Ignition switch off	11 to 14 V
K9-19 (IG2) - Body ground	Ignition switch ON	11 to 14 V

OK ▶ **REPLACE DCM (TELEMATICS TRANSCEIVER)**

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