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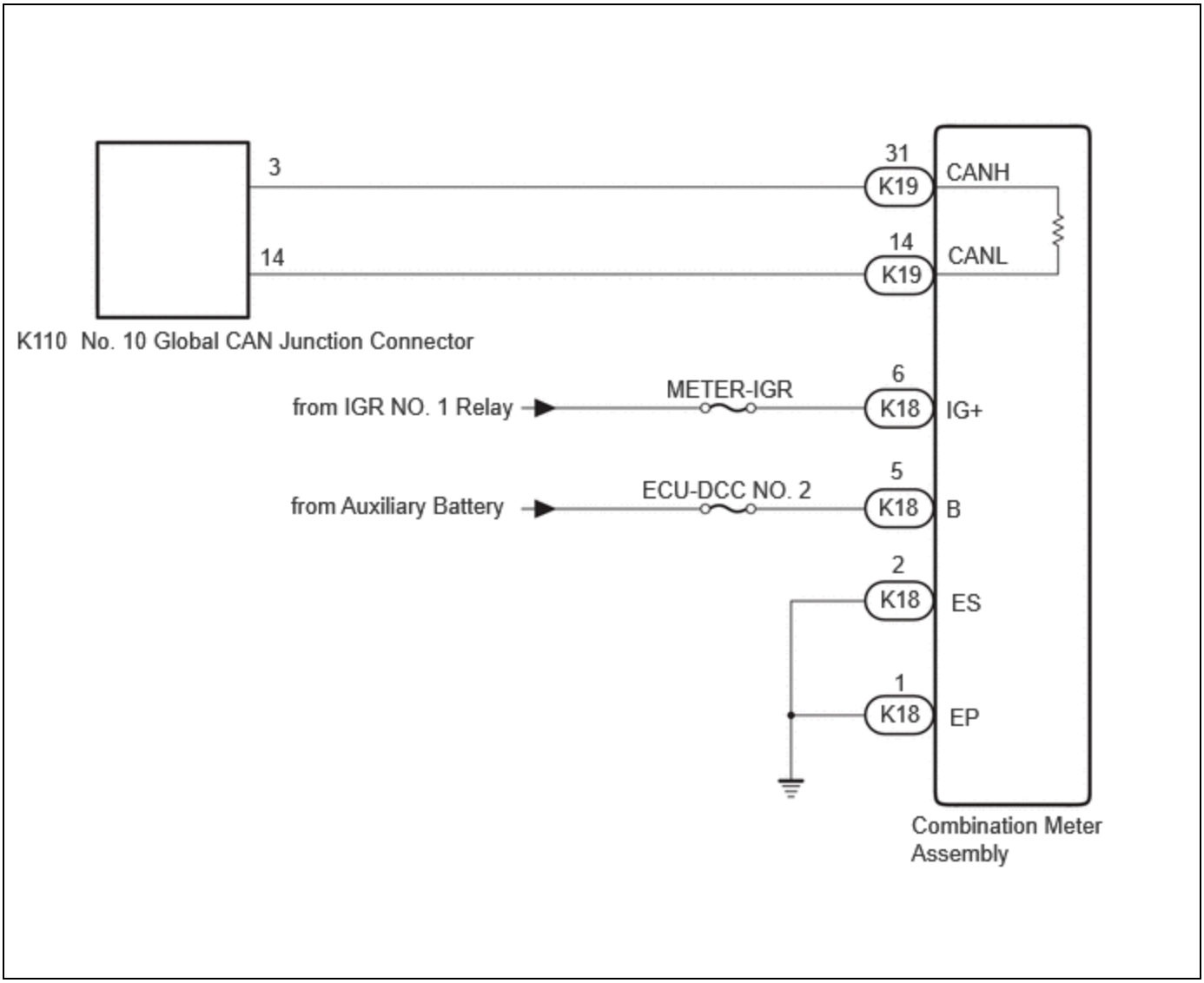
Model Year Start: 2023	**Model:** Prius	**Prod Date Range:** [12/2022 -]
Title: NETWORKING: CAN COMMUNICATION SYSTEM (for HEV Model): Combination Meter ECU Communication Stop Mode; 2023 - 2024 MY Prius [12/2022 -]		

Combination Meter ECU Communication Stop Mode

DESCRIPTION

DETECTION ITEM	SYMPTOM	TROUBLE AREA
Combination Meter ECU Communication Stop Mode	Communication stop for "Combination Meter" is indicated on the "Communication Bus Check" screen of the GTS. Click here INFO	• Combination meter assembly main line or connector • Power source circuit of combination meter assembly • Combination meter assembly ground circuit • Combination meter assembly

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.

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 (COMBINATION METER ASSEMBLY MAIN LINE)**

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

(b) Disconnect the K19 combination meter assembly connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(K19)
Click Connector(K19)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K19-31 (CANH) - K19-14 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG ▶ **REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (COMBINATION METER ASSEMBLY)**

OK ▼

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

(a) Disconnect the K18 combination meter assembly connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(K18)
Click Connector(K18)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K18-1 (EP) - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω
K18-2 (ES) - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω

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

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

Standard Voltage:

EWD INFO

Click Location & Routing(K18)
Click Connector(K18)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K18-6 (IG+) - Body ground	Ignition switch ON	11 to 14 V
K18-5 (B) - Body ground	Ignition switch off	11 to 14 V

OK ▶ **REPLACE COMBINATION METER ASSEMBLY**

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