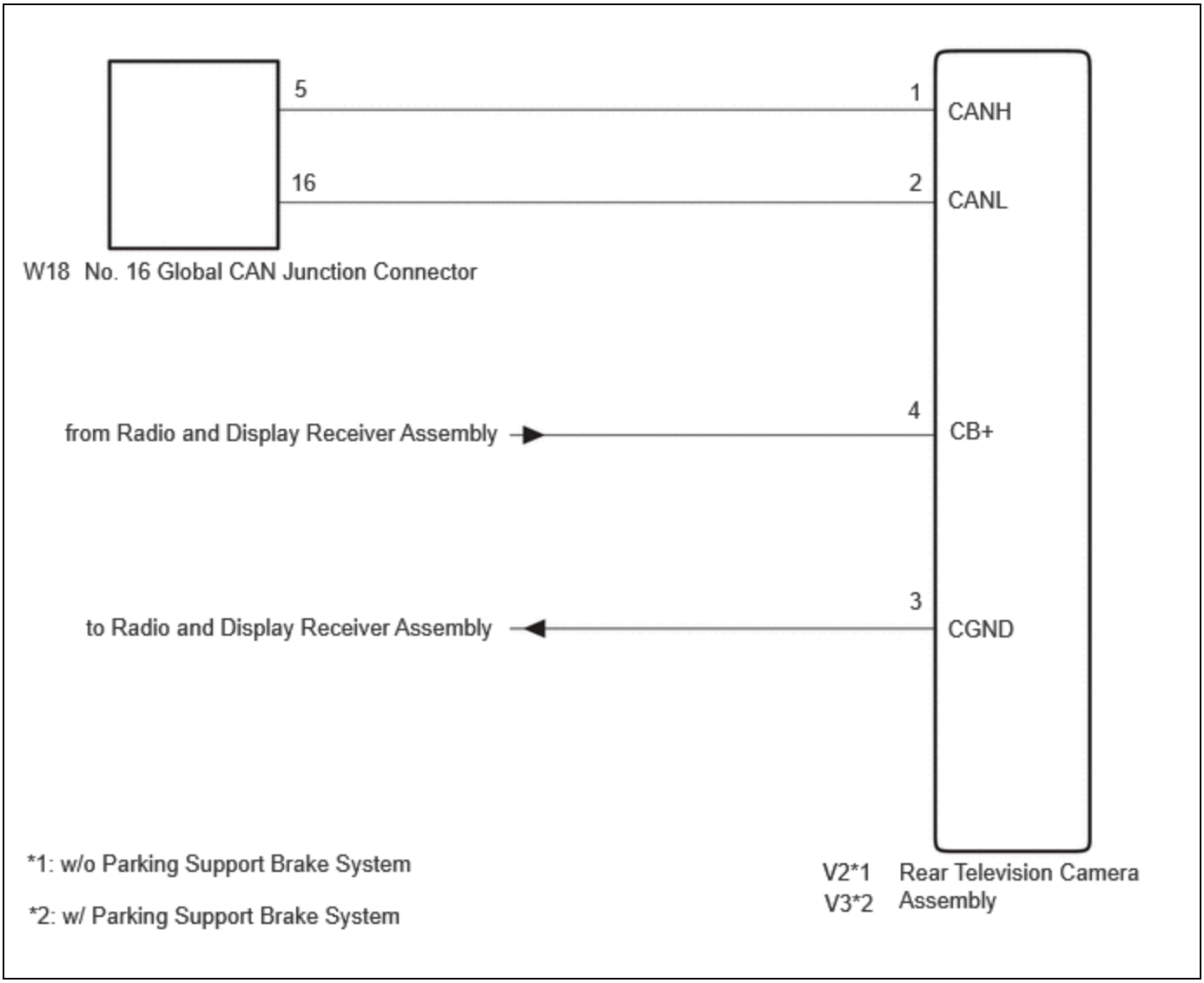
Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029GSW
Model Year Start: 2023	**Model:** Prius	**Prod Date Range:** [12/2022 -]
Title: NETWORKING: CAN COMMUNICATION SYSTEM (for HEV Model): Rear Television Camera Communication Stop Mode; 2023 - 2024 MY Prius [12/2022 -]		

Rear Television Camera Communication Stop Mode

DESCRIPTION

DETECTION ITEM	SYMPTOM	TROUBLE AREA
Rear Television Camera Communication Stop Mode	Communication stop for "Parking Assist Monitor System / Rear Camera" is indicated on the "Communication Bus Check" screen of the GTS. Click here INFO	• Rear television camera assembly branch line or connector • Power source circuit of rear television camera assembly • Rear television camera assembly ground circuit • Rear television camera assembly • Radio and display receiver 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 VEHICLE TYPE**

(a) Check vehicle type.

RESULT	PROCEED TO
w/o Parking Support Brake System	A
w/ Parking Support Brake System	B

B ▶ **GO TO STEP 4**

A ▼

2.	**CHECK FOR OPEN IN CAN BUS LINES (REAR TELEVISION CAMERA ASSEMBLY BRANCH LINE)**

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

(b) Disconnect the V2 rear television camera assembly connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(V2)
Click Connector(V2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
V2-1 (CANH) - V2-2 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω

NG ▶ **REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (REAR TELEVISION CAMERA ASSEMBLY)**

OK ▼

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

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

Standard Resistance:

EWD INFO

Click Location & Routing(V2)
Click Connector(V2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
V2-3 (CGND) - 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:

EWD INFO

Click Location & Routing(V2)
Click Connector(V2)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
V2-4 (CB+) - Body ground	Ignition switch ACC	6 to 9 V

OK ▶ **REPLACE REAR TELEVISION CAMERA ASSEMBLY**

NG ▶ **GO TO STEP 6**

4.	**CHECK FOR OPEN IN CAN BUS LINES (REAR TELEVISION CAMERA ASSEMBLY BRANCH LINE)**

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

(b) Disconnect the V3 rear television camera assembly connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(V3)
Click Connector(V3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
V3-1 (CANH) - V3-2 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω

NG ▶ **REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (REAR TELEVISION CAMERA ASSEMBLY)**

OK ▼

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

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

Standard Resistance:

EWD INFO

Click Location & Routing(V3)
Click Connector(V3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
V3-3 (CGND) - 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:

EWD INFO

Click Location & Routing(V3)
Click Connector(V3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
V3-4 (CB+) - Body ground	Ignition switch ACC	6 to 9 V

OK ▶ **REPLACE REAR TELEVISION CAMERA ASSEMBLY**

NG ▼

6.	**CHECK HARNESS AND CONNECTOR (REAR TELEVISION CAMERA ASSEMBLY - RADIO AND DISPLAY RECEIVER ASSEMBLY)**

Click here INFO

OK ▶ **REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY**

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