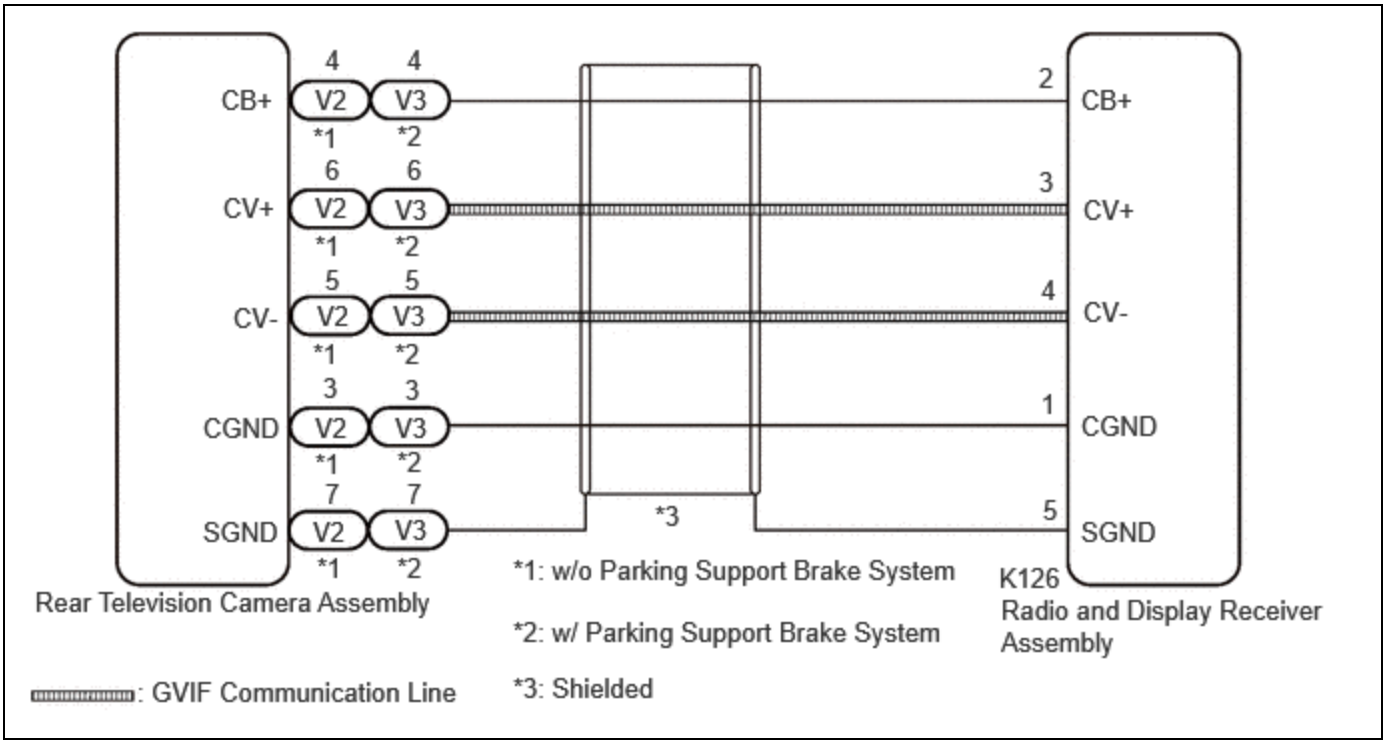
Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029LFN
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: PARK ASSIST / MONITORING: PARKING ASSIST MONITOR SYSTEM: Image from Camera for Parking Assist Monitor is Abnormal; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Image from Camera for Parking Assist Monitor is Abnormal

DESCRIPTION

The display signal from the rear television camera assembly is transmitted to the display.

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

Depending on the parts that are replaced or operations that are performed during vehicle inspection or maintenance, calibration of other systems as well as the parking assist monitor system may be needed.

Click here INFO

HINT:

Images may be unclear even in normal conditions if:

- Electrical devices are used in the cabin (noise may occur in the image).
- Accessories that generate radio waves have been installed (noise may occur in the image).
- The display of radio and display receiver assembly is cold (the image immediately after turning the ignition switch to ON may be blurred or darker than normal).
- The camera lens is dirty with snow, mud, etc.
- A strong beam of light, such as a sunbeam or headlight, hits the camera.
- It is too dark around the camera (at night, etc.).
- The ambient temperature around the camera is either too high or too low.

- The vehicle is tilted at a steep angle.
- The television camera assembly lens is scratched.
- The television camera assembly lens has drops of water on it or the humidity is high.
- When the camera is used under fluorescent lights, sodium lights, mercury lights, etc., the lights and the illuminated area may appear to flicker.

PROCEDURE

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

(a) Disconnect the K126 radio and display receiver assembly connector.

(b) Disconnect the V2*1 or V3*2 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(K126,V2,V3)
Click Connector(K126)
Click Connector(V2)
Click Connector(V3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K126-2 (CB+) - V2-4 (CB+)*1 or V3-4 (CB+)*2	Always	Below 1 Ω
K126-3 (CV+) - V2-6 (CV+)*1 or V3-6 (CV+)*2	Always	Below 1 Ω
K126-1 (CGND) - V2-3 (CGND)*1 or V3-3 (CGND)*2	Always	Below 1 Ω
K126-4 (CV-) - V2-5 (CV-)*1 or V3-5 (CV-)*2	Always	Below 1 Ω
K126-5 (SGND) - V2-7 (SGND)*1 or V3-7 (SGND)*2	Always	Below 1 Ω
K126-2 (CB+), V2-4 (CB+)*1 or V3-4 (CB+)*2 - Body ground	Always	10 kΩ or higher
K126-3 (CV+), V2-6 (CV+)*1 or V3-6 (CV+)*2 - Body ground	Always	10 kΩ or higher
K126-1 (CGND), V2-3 (CGND)*1 or V3-3 (CGND)*2 - Body ground	Always	10 kΩ or higher
K126-4 (CV-), V2-5 (CV-)*1 or V3-5 (CV-)*2 - Body ground	Always	10 kΩ or higher
K126-5 (SGND), V2-7 (SGND)*1 or V3-7 (SGND)*2 - Body ground	Always	10 kΩ or higher

*1: w/o Parking Support Brake System
*2: w/ Parking Support Brake System

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

2.	**CHECK RADIO AND DISPLAY RECEIVER ASSEMBLY**

(a) Disconnect the V2*1 or V3*2 rear television camera assembly connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(V2,V3)
Click Connector(V2)
Click Connector(V3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
V2-3 (CGND)*1 or V3-3 (CGND)*2 - Body ground	Always	Below 1 Ω
V2-5 (CV-)*1 or V3-5 (CV-)*2 - Body ground	Always	Below 1 Ω

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

Standard Voltage:

EWD INFO

Click Location & Routing(V2,V3)
Click Connector(V2)
Click Connector(V3)

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
V2-4 (CB+)*1 or V3-4 (CB+)*2 - Body ground	Ignition switch ACC	6 to 9 V
	Ignition switch off	Below 1 V

*1: w/o Parking Support Brake System
*2: w/ Parking Support Brake System

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

OK ▼

3.	**CHECK REAR TELEVISION CAMERA ASSEMBLY**

(a) Replace the rear television camera assembly with a new or known good one.

Click here INFO

(b) Check if the same malfunction reoccurs when the rear view monitor screen is displayed.

OK:

Malfunction does not reoccur (returns to normal).

OK ▶ **END (REAR TELEVISION CAMERA ASSEMBLY WAS DEFECTIVE)**

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