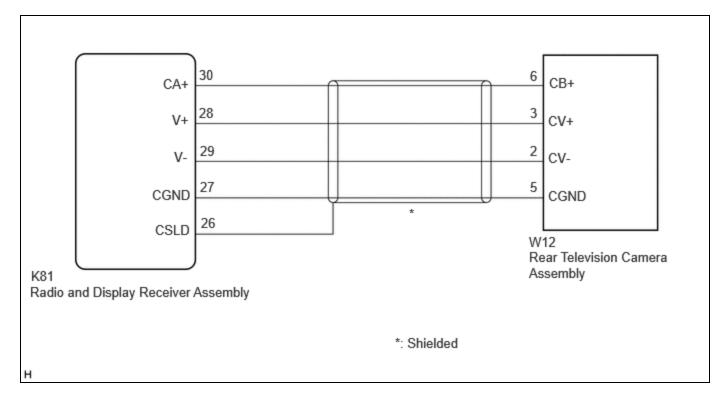
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028FC1	
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -	]
Title: PARK ASSIST / MONITORING: REAR VIEW MONITOR SYSTEM: Image from Camera for Rear View Monitor is			
Abnormal; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]			

#### Image from Camera for Rear View Monitor is Abnormal

### **DESCRIPTION**

The video signal of the rear television camera assembly is transmitted to the radio and display receiver assembly.

## WIRING DIAGRAM



## **PROCEDURE**

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

- (a) Disconnect the K81 radio and display receiver assembly connector.
- (b) Disconnect the W12 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(K81,W12)

Click Connector(K81) Click Connector(W12)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K81-30 (CA+) - W12-6 (CB+)	Always	Below 1 Ω
K81-28 (V+) - W12-3 (CV+)	Always	Below 1 Ω
K81-29 (V-) - W12-2 (CV-)	Always	Below 1 Ω
K81-27 (CGND) - W12-5 (CGND)	Always	Below 1 Ω
K81-26 (CSLD) - Body ground	Always	Below 1 Ω
K81-30 (CA+) or W12-6 (CB+) - Body ground	Always	$10 \ k\Omega$ or higher
K81-28 (V+) or W12-3 (CV+) - Body ground	Always	$10 \ k\Omega$ or higher
K81-29 (V-) or W12-2 (CV-) - Body ground	Always	$10 \ k\Omega$ or higher
K81-27 (CGND) or W12-5 (CGND) - Body ground	Always	10 k $\Omega$ or higher

**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

# ОК

2.

#### INSPECT RADIO AND DISPLAY RECEIVER ASSEMBLY

(a) Reconnect the K81 radio and display receiver assembly connector.

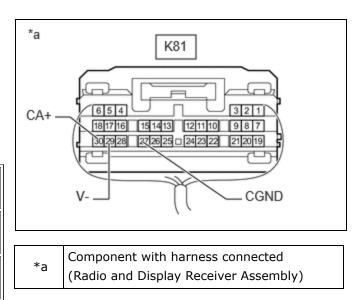
(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

# EWD INFO

#### <u>Click Location & Routing(K81)</u> <u>Click Connector(K81)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K81-29 (V-) - Body ground	Always	Below 1 Ω
K81-27 (CGND) - Body ground	Always	Below 1 Ω



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

Standard Voltage:



#### Click Location & Routing(K81) Click Connector(K81)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K81-30 (CA+) - K81-27 (CGND)	Ignition switch ACC	5.5 to 7.05 V

#### NG > REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY

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### 3. INSPECT REAR TELEVISION CAMERA ASSEMBLY

(a) Reconnect the W12 rear television camera assembly connector.

(b) Using an oscilloscope, check the waveform of the rear television camera assembly.

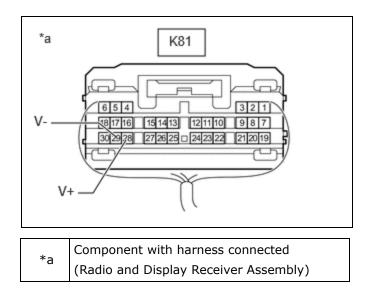
#### HINT:

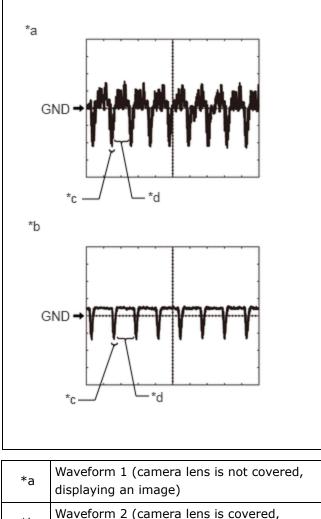
A waterproof connector is used for the rear television camera assembly. Therefore, inspect the waveform at the radio and display receiver assembly with the connector connected.

OK:

Waveform is similar to that shown in the illustration.

ITEM	CONTENT
Measurement terminal	K81-28 (V+) - K81-29 (V-)
Measurement setting	200 mV/DIV., 50 μs./DIV.
Condition	Ignition switch ON, reverse (R) selected





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*b	Waveform 2 (camera lens is covered, blacking out the screen)
*с	Synchronization Signal
*d	Video Waveform

#### HINT:

- The video waveform changes according to the image sent by the rear television camera assembly.
- The video waveform is constantly output when the ignition switch is turned to ACC.
- Make sure that the rear camera is enabled in general settings.

OK PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE

**NG REPLACE REAR TELEVISION CAMERA ASSEMBLY** 

ΤΟΥΟΤΑ

