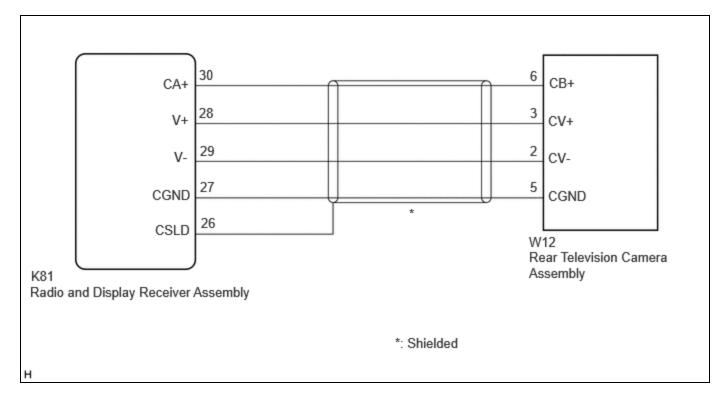
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028FC1	
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARK ASSIST / MONITORING: REAR VIEW MONITOR SYSTEM: Image from Camera for Rear View Monitor is			
Abnormal; 2023 - 2024 MY Prius Prius Prime [12/2022 -]			

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 Ω 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.

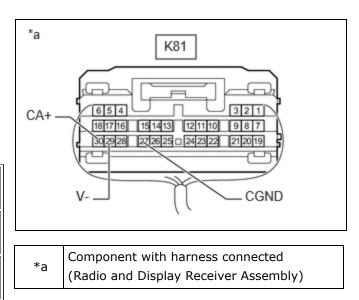
(b) Measure the resistance according to the value(s) in the table below.

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.

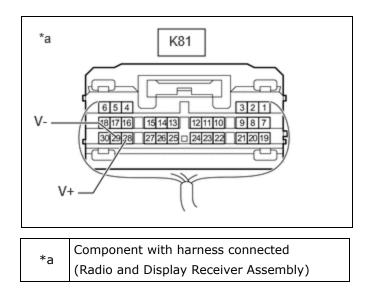
HINT:

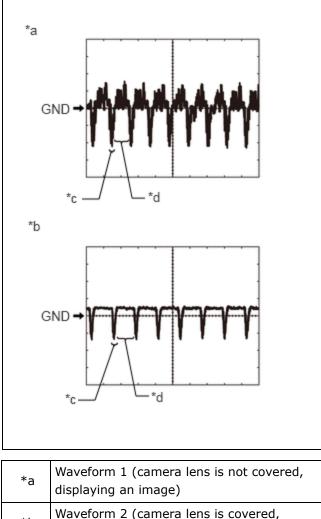
A waterproof connector is used for the rear television camera assembly. Therefore, inspect the waveform at the radio and display receiver assembly with the connector connected.

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

