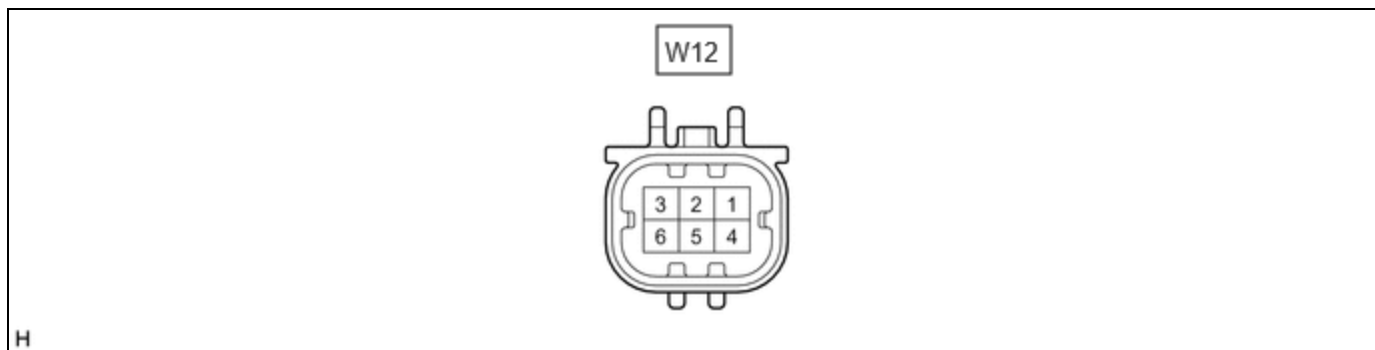


Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028FC0
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARK ASSIST / MONITORING: REAR VIEW MONITOR SYSTEM: TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

TERMINALS OF ECU

REAR TELEVISION CAMERA ASSEMBLY

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



(b) Measure the voltage of each terminal of the wire harness side connector.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
W12-6 (CB+) - Body ground	Power source	Ignition switch ACC	5.5 to 7.05 V

If the result is not as specified, there may be a malfunction on the wire harness side.

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

(d) Measure the voltage and check for pulses at each terminal of the connector.

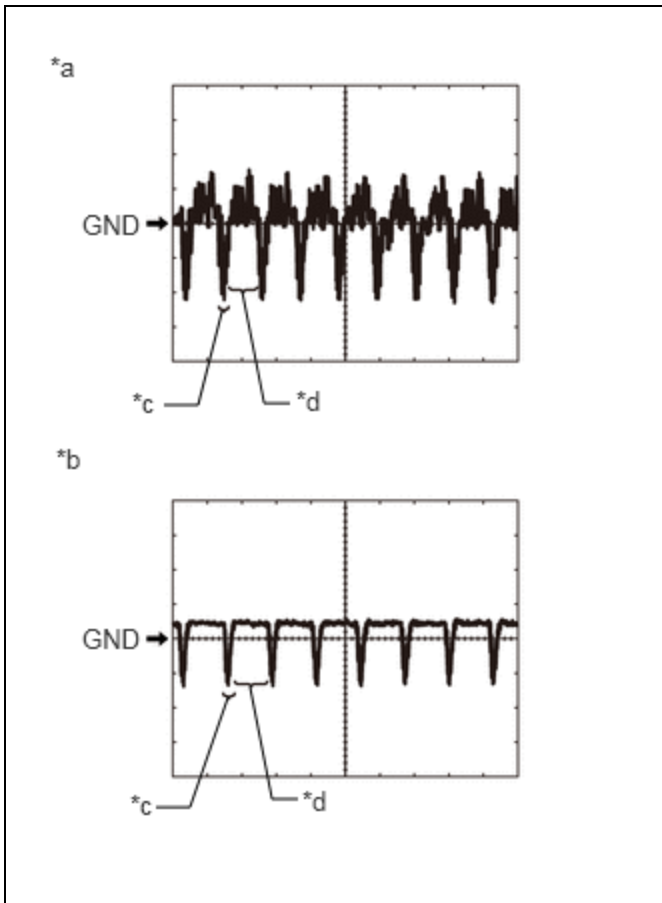
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
W12-3 (CV+) - W12-2 (CV-)	Video signal	Ignition switch ON Reverse (R) selected Camera lens not covered, displaying an image	Pulse generation (Refer to waveform 1)
		Ignition switch ON Reverse (R) selected Camera lens covered, blacking out the screen	Pulse generation (Refer to waveform 2)
W12-5 (CGND) - Body ground	Shield ground	Always	Below 1 V

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.

If the result is not as specified, the rear television camera assembly may be malfunctioning.

(e) Reference (Oscilloscope waveform):



*a	Waveform 1 (camera lens is not covered, displaying an image)
*b	Waveform 2 (camera lens is covered, blacking out the screen)
*c	Synchronization Signal
*d	Video Waveform

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.

(1) Waveform 1 (camera lens is not covered, displaying an image)

ITEM	CONTENT
Measurement terminal	W12-3 (CV+) - W12-2 (CV-)
Measurement setting	200 mV/DIV., 50 μ s./DIV.
Condition	Ignition switch ON, reverse (R) selected

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 ACC.
- Make sure that the rear camera is enabled in general settings.

(2) Waveform 2 (camera lens is covered, blacking out the screen)

ITEM	CONTENT
Measurement terminal	W12-3 (CV+) - W12-2 (CV-)
Measurement setting	200 mV/DIV., 50 μ s./DIV.
Condition	Ignition switch ON, reverse (R) selected

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 ACC.
- Make sure that the rear camera is enabled in general settings.

RADIO AND DISPLAY RECEIVER ASSEMBLY

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