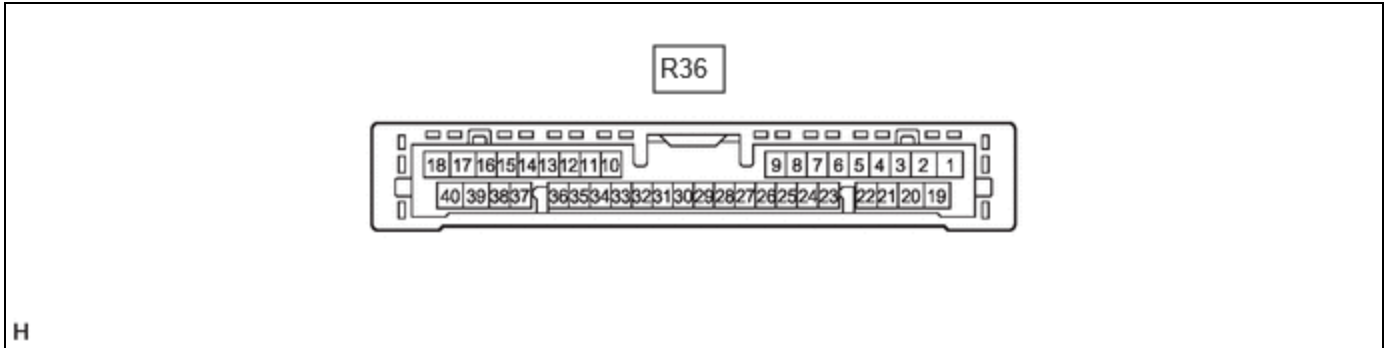


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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> PARK ASSIST / MONITORING: PARKING SUPPORT BRAKE SYSTEM: TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## TERMINALS OF ECU

### CLEARANCE WARNING ECU ASSEMBLY



- (a) Disconnect the R36 clearance warning ECU assembly connector.
- (b) Measure the voltage and resistance on the wire harness side connector according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R36-1 (IG) - R36-31 (E)	IG source signal	Ignition switch off	Below 1 V
		Ignition switch ON	11 to 14 V
R36-31 (E) - Body ground	Ground	Always	Below 1 Ω

- (c) Reconnect the R36 clearance warning ECU assembly connector.
- (d) Measure the voltage and resistance and check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R36-2 (BOF) - R36-31 (E)	Power source for front sensor circuit	Ignition switch off	Below 1 V
		<ul style="list-style-type: none"> <li>• Ignition switch ON</li> <li>• Parking support brake system on</li> </ul>	11 to 14 V
R36-3 (E5) - R36-31 (E)	Ground for front clearance sonar	Always	Below 1 Ω

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R36-4 (SOF) - R36-31 (E)	Front sensor communication signal (Front clearance sonar sensor)	<ul style="list-style-type: none"> <li>Ignition switch ON</li> <li>Parking support brake system on</li> <li>Shift lever in any position other than P</li> <li>Vehicle speed is less than approximately 10 km/h (6 mph)</li> </ul>	Pulse generation (Refer to waveform 1)
R36-5 (LIN1) - R36-31 (E)*1	Front side sensor communication signal (Front side clearance sonar sensor)	<ul style="list-style-type: none"> <li>Ignition switch ON</li> <li>Parking support brake system on</li> <li>Shift lever in any position other than P</li> <li>Vehicle speed is less than approximately 10 km/h (6 mph)</li> </ul>	Pulse generation (Refer to waveform 1)
R36-6 (CSG1) - R36-31 (E)*1	Ground for front side clearance sonar	Always	Below 1 $\Omega$
R36-7 (CSB1) - R36-31 (E)*1	Power source for front side sensor circuit	Ignition switch off	Below 1 V
		<ul style="list-style-type: none"> <li>Ignition switch ON</li> <li>Parking support brake system on</li> </ul>	11 to 14 V
R36-17 (R1)	CAN communication signal	-	-
R36-18 (R2)	CAN communication signal	-	-
R36-19 (BOR) - R36-31 (E)	Power source for rear sensor circuit	Ignition switch off	Below 1 V
		<ul style="list-style-type: none"> <li>Ignition switch ON</li> <li>Parking support brake system on</li> </ul>	11 to 14 V
R36-20 (E1) - R36-31 (E)	Ground for rear clearance sonar	Always	Below 1 $\Omega$
R36-21 (SOR) - R36-31 (E)	Rear sensor communication signal (Rear clearance sonar sensor)	<ul style="list-style-type: none"> <li>Ignition switch ON</li> <li>Parking support brake system on</li> <li>Shift lever in R</li> <li>Vehicle speed is less than approximately 10 km/h (6 mph)</li> </ul>	Pulse generation (Refer to waveform 2)

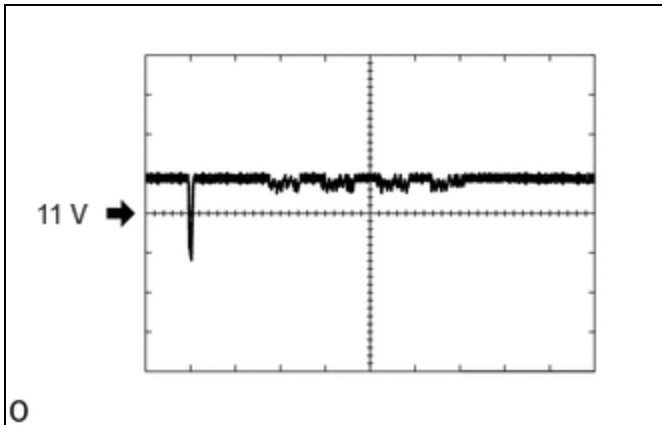
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R36-22 (LIN2) - R36-31 (E)*1	Rear side sensor communication signal (Rear side clearance sonar sensor)	<ul style="list-style-type: none"> <li>Ignition switch ON</li> <li>Parking support brake system on</li> <li>Shift lever in R</li> </ul>	Pulse generation (Refer to waveform 2)
R36-23 (CSG2) - R36-31 (E)*1	Ground for rear side clearance sonar	Always	Below 1 Ω
R36-24 (CSB2) - R36-31 (E)*1	Power source for rear side sensor circuit	Ignition switch off	Below 1 Ω
		<ul style="list-style-type: none"> <li>Ignition switch ON</li> <li>Parking support brake system on</li> </ul>	11 to 14 V
R36-35 (CAPH)*1	CAN communication signal	-	-
R36-36 (CAPL)*1	CAN communication signal	-	-
R36-37 (CANH)*2	CAN communication signal	-	-
R36-38 (CANL)*2	CAN communication signal	-	-

\*1: w/ Advanced Park

\*2: w/ Rear Cross Traffic Alert System

(e) Using an oscilloscope, check waveform 1.

(1) Waveform 1 (Reference)



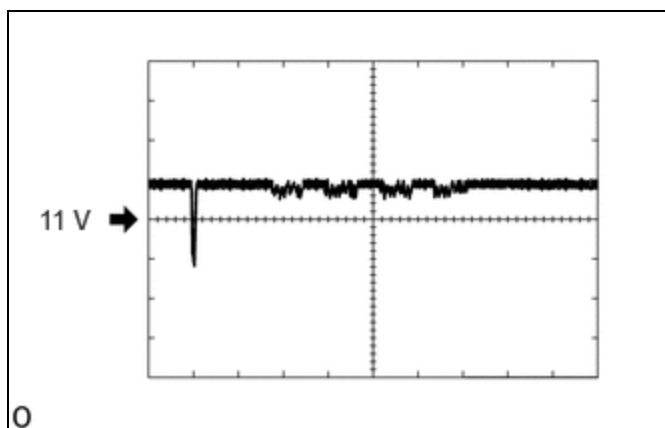
ITEM	CONTENT
Measurement terminal	<ul style="list-style-type: none"> <li>R36-4 (SOF) - R36-31 (E)</li> <li>R36-5 (LIN1) - R36-31 (E)*</li> </ul>
Measurement setting	1 V/DIV., 100 μs./DIV.

ITEM	CONTENT
Condition	<ul style="list-style-type: none"> <li>• Ignition switch ON</li> <li>• Parking support brake system on</li> <li>• Shift lever in any position other than P</li> <li>• Vehicle speed is less than approximately 10 km/h (6 mph)</li> </ul>

\*: w/ Advanced Park

(f) Using an oscilloscope, check waveform 3.

(1) Waveform 3 (Reference)



ITEM	CONTENT
Measurement terminal	<ul style="list-style-type: none"> <li>• R36-21 (SOR) - R36-31 (E)</li> <li>• R36-22 (LIN2) - R36-31 (E)*</li> </ul>
Measurement setting	1 V/DIV., 100 $\mu$ s./DIV.
Condition	<ul style="list-style-type: none"> <li>• Ignition switch ON</li> <li>• Parking support brake system on</li> <li>• Shift lever in R</li> <li>• Vehicle speed is less than approximately 10 km/h (6 mph)</li> </ul>

\*: w/ Advanced Park

### **BLIND SPOT MONITOR SENSOR RH (A) (w/ Rear Cross Traffic Alert System)**

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### **BLIND SPOT MONITOR SENSOR LH (B) (w/ Rear Cross Traffic Alert System)**

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### **PARKING ASSIST ECU (w/ Panoramic View Monitor System)**

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### **REAR TELEVISION CAMERA ASSEMBLY (w/ Parking Assist Monitor System)**

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