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

TERMINALS OF ECU

*2: w/ Rear Cross Traffic Alert System

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
P36-1 (IC) - P36-31 (E)		Ignition switch off	Below 1 V
K30-1 (10) - K30-31 (L)		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
		Ignition switch off	Below 1 V
R36-2 (BOF) - R36-31 (E)	Power source for front sensor circuit	 Ignition switch ON Intuitive parking assist system on 	11 to 14 V
R36-3 (E5) - R36-31 (E)	Ground for front clearance sonar	Always	Below 1 Ω
R36-4 (SOF) - R36-31 (E) Front sensor communication signal (Front clearance sonar sensor)		 Ignition switch ON Intuitive parking assist system on 	Pulse generation (Refer to waveform 1)
*1: w/ Advanced Pa	ark		

https://techinfo.toyota.com/t3Portal/resources/jsp/siviewer/index.jsp?dir=rm/RM41D0U&href=xhtml/RM10000002A0DG.html&locale=en&User=false&... 1/4

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
		 Shift lever in any position other than P Vehicle speed is less than approximately 10 km/h (6 mph) 	
R36-5 (LIN1) - R36-31 (E)*1	Front side sensor communication signal (Front side clearance sonar sensor)	 Ignition switch ON Intuitive parking assist system on Shift lever in any position other than P Vehicle speed is less than approximately 10 km/h (6 mph) 	Pulse generation (Refer to waveform 1)
R36-6 (CSG1) - R36-31 (E)*1	Ground for front side clearance sonar	Always	Below 1 Ω
		Ignition switch off	Below 1 V
R36-7 (CSB1) - R36-31 (E)*1	Power source for front side sensor circuit	 Ignition switch ON Intuitive parking assist system on 	11 to 14 V
R36-17 (R1)	CAN communication signal	-	-
R36-18 (R2)	CAN communication signal	-	-
		Ignition switch off	Below 1 V
R36-19 (BOR) - R36-31 (E)	Power source for rear sensor circuit	 Ignition switch ON Intuitive parking assist system on 	11 to 14 V
R36-20 (E1) - R36-31 (E)	Ground for rear clearance sonar	Always	Below 1 Ω
R36-21 (SOR) - R36-31 (E)	Rear sensor communication signal (Rear clearance sonar sensor)	 Ignition switch ON Intuitive parking assist system on Shift lever in R Vehicle speed is less than approximately 10 km/h (6 mph) 	Pulse generation (Refer to waveform 2)
R36-22 (LIN2) - R36-31 (E)*1	Rear side sensor communication signal (Rear side clearance sonar sensor)	 Ignition switch ON Intuitive parking assist system on Shift lever in R 	Pulse generation (Refer to waveform 2)
*1: w/ Advanced Pa	ark		
*2: w/ Rear Cross	Traffic Alert System		

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PARK ASSIST / MONITORING: INTUITIVE PARKING ASSIST SYSTEM: TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prim...

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R36-23 (CSG2) - R36-31 (E)*1	Ground for rear side clearance sonar	Always	Below 1 Ω
		Ignition switch off	Below 1 Ω
R36-24 (CSB2) - R36-31 (E)*1	Power source for rear side sensor circuit	 Ignition switch ON Intuitive parking assist system on 	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	 R36-4 (SOF) - R36-31 (E) R36-5 (LIN1) - R36-31 (E)* 	
Measurement setting	5 V/DIV., 100 μs./DIV.	
Condition	 Ignition switch ON Intuitive parking assist system on Shift lever in any position other than P Vehicle speed is less than approximately 10 km/h (6 mph) 	

*: w/ Advanced Park

(f) Using an oscilloscope, check waveform 2.

(1) Waveform 2 (Reference)



ITEM	CONTENT	
Measurement terminal	 R36-21 (SOR) - R36-31 (E) R36-22 (LIN2) - R36-31 (E)* 	
Measurement setting	5 V/DIV., 100 μs./DIV.	
Condition	 Ignition switch ON Intuitive parking assist system on Shift lever in R Vehicle speed is less than approximately 10 km/h (6 mph) 	

*: w/ Advanced Park

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