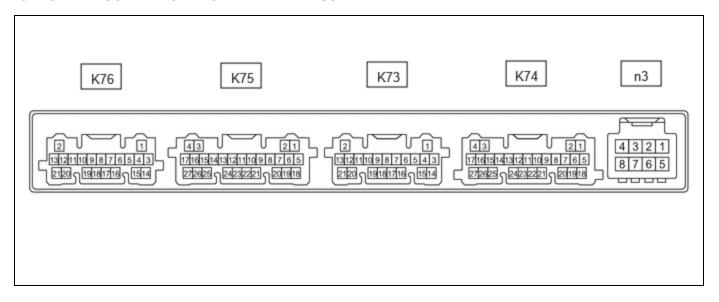
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000002BM1R
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: SEAT: SEAT HEATER SYSTEM:	TERMINALS OF ECU; 2023	- 2024 MY Prius Prius Prime [03/2023 -]

TERMINALS OF ECU

CHECK AIR CONDITIONING AMPLIFIER ASSEMBLY



- (a) Disconnect the K74 air conditioning amplifier assembly connector.
- (b) Measure the voltage and resistance according to the value(s) in the table below.

HINT:

Measure the values on the wire harness side with the connector disconnected.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K74-6 (IG+) - Body ground	IG power supply	Ignition switch off	Below 1 V
K74-0 (IG+) - Body ground	16 power supply	Ignition switch ON	11 to 14 V
K74-17 (GND) - Body ground	Ground	Always	Below 1 Ω

- (c) Reconnect the K74 air conditioning amplifier assembly connector.
- (d) Measure the voltage, resistance and check for pulses generation according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K74-7 (LIN1) - Body ground	LIN communication line	Ignition switch ON	Pulse generation (See waveform 1)
K73-20 (SH2R) - Body ground*1	RH side rear seat heater drive signal	Ignition switch ON Rear seat heater switch RH on	Below 1 V

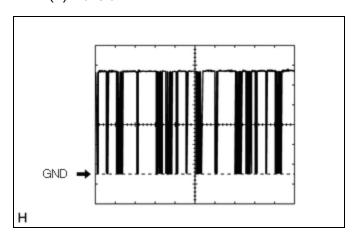
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K73-21 (SH2L) - Body ground*1	LH side rear seat heater drive signal	Ignition switch ON Rear seat heater switch LH on	Below 1 V
K75-12 (SM1R) - K74-17 (GND)*2	RH side front seat heater drive signal	Ignition switch ON Front seat heater switch RH on	Below 1 V
K75-14 (SM1R) - K74-17 (GND)*3	RH side front seat heater drive signal	Ignition switch ON Front seat heater switch RH on	Below 1 V
K75-13 (SM1L) - K74-17 (GND)	LH side front seat heater drive signal	Ignition switch ON Front seat heater switch LH on	Below 1 V
K76-1 (SG-6) - Body ground	Ground	Always	Below 1 Ω
K76-12 (TSR) - Body ground	RH side front seat heater sensor input signal	Ignition switch ON (0 to 30°C)	6.10 to 27.81 kΩ
K76-13 (TSL) - Body ground	LH side front seat heater sensor input signal	Ignition switch ON (0 to 30°C)	6.10 to 27.81 kΩ

*1: w/ Rear Seat Heater

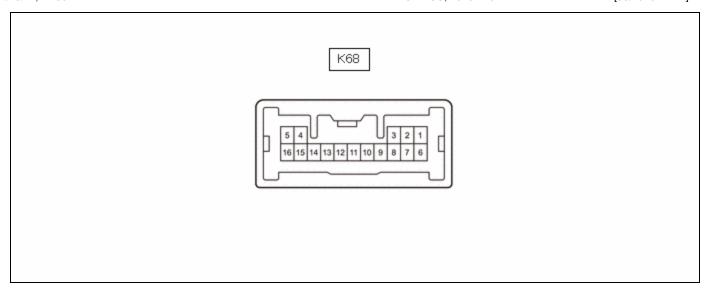
*2: for HEV Model

*3: for PHEV Model

(1) Waveform 1



ITEM	CONTENT
Tester Connection	K74-7 (LIN1) - Body ground
Tool setting	2 V/DIV., 20 ms./DIV.
Condition	Ignition switch ON



CHECK AIR CONDITIONING CONTROL ASSEMBLY

- (a) Disconnect the K68 air conditioning control assembly connector.
- (b) Measure the voltage and resistance according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	NO. (SYMBOL) TERMINAL DESCRIPTION		SPECIFIED CONDITION
K68-1 (IG+) - Body ground	IG nower supply	Ignition switch ON	11 to 14 V
Koo-1 (19+) - Body ground	IG power supply	Ignition switch off	Below 1 V
K68-16 (GND) - Body ground	Ground	Always	Below 1 Ω

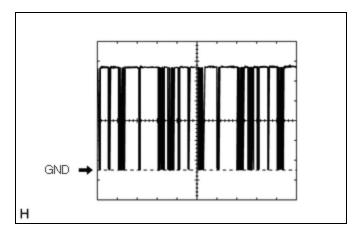
- (c) Reconnect the K68 air conditioning control assembly connector.
- (d) Measure the voltage and check for pulses generation according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K68-8 (SW1) - Body		Ignition switch ON Rear seat heater switch LH on	11 to 14 V
ground*	Rrer seat heater switch LH signal	Ignition switch ON Rear seat heater switch LH off	Below 1 V
K68-9 (SW2) - Body	Rear seat heater switch RH signal	Ignition switch ON Rear seat heater switch RH on	11 to 14 V
ground*	Real Seat Heater Switch Kir Signal	Ignition switch ON Rear seat heater switch RH off	Below 1 V
K68-12 (SWA) - Body ground*	Rear seat heater switch LH indicator drive signal	Rear seat heater switch LH indicator illuminates	Below 1 V

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
		Rear seat heater switch LH indicator not illuminates	11 to 14 V
K68-13 (SWB) - Body	Rear seat heater switch RH	Rear seat heater switch RH indicator illuminates	Below 1 V
ground*		Rear seat heater switch RH indicator not illuminates	11 to 14 V
K68-14 (LIN1) - Body ground	LIN communication line	Ignition switch ON	Pulse generation

*: w/ Rear Seat Heater

(1) Waveform 1



ITEM	CONTENT
Tester Connection	K68-14 (LIN1) - Body ground
Tool setting	2 V/DIV., 20 ms./DIV.
Condition	Ignition switch ON



