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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: POWER DISTRIBUTION: POWER INTEGRATION SYSTEM: TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

TERMINALS OF ECU

NOTICE:

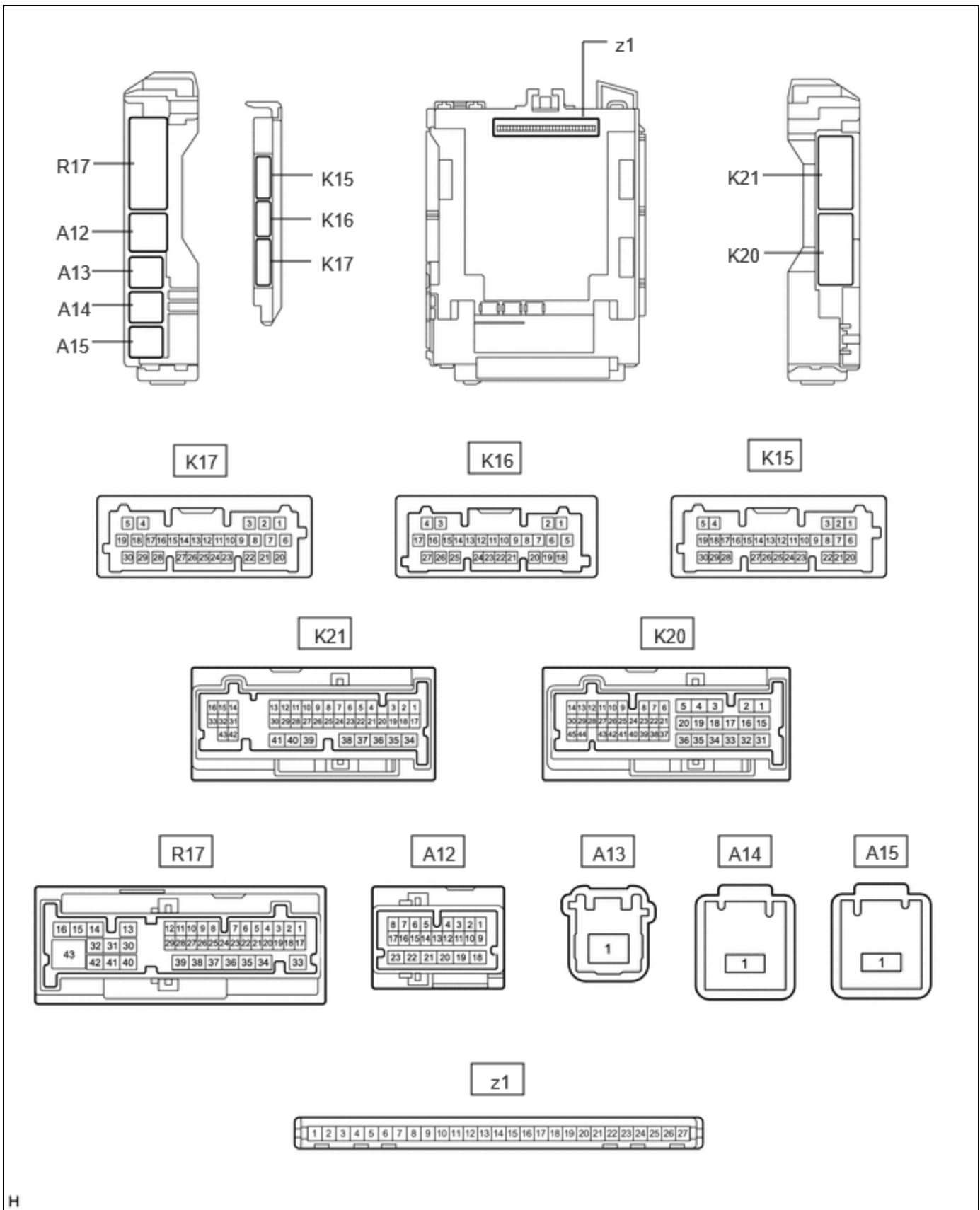
- When disconnecting a wire harness of any component connected to the supply power of the integrated capacitor (integration control supply) or when removing the integrated capacitor (integration control supply), make sure to wait 5 minutes or more after turning the ignition switch off for self-diagnosis to complete and the voltage of the integrated capacitor (integration control supply) to discharge.
- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

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HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

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CHECK MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) AND POWER DISTRIBUTION BOX ASSEMBLY

(a) Remove the main body ECU (multiplex network body ECU) from the power distribution box assembly.

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(b) Reconnect the power distribution box assembly connectors.

(c) Measure the voltage and resistance according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
z1-13 (GND1) - Body ground	Ground	Always	Below 1 Ω
z1-14 (GND2) - Body ground	Ground	Always	Below 1 Ω
z1-26 (BECU) - Body ground	Auxiliary battery power supply	Always	11 to 14 V
z1-27 (IGR) - Body ground	Ignition power supply (IG signal)	Ignition switch ON	11 to 14 V

(d) Install the main body ECU (multiplex network body ECU) to power distribution box assembly.

(e) Measure the voltage and check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
z1-22 - Body ground	CXPI communication line	Ignition switch off	Below 1 V
		Ignition switch ON	Pulse generation
R17-43 - Body ground	Rear window defogger signal (output)	Rear window defogger switch off	Below 1.5 V
		Rear window defogger switch on	8 to 14 V
K20-2 - Body ground	Mirror heater drive voltage (output)	Rear window defogger switch off	Below 1.5 V
		Rear window defogger switch on	8 to 14 V
K21-10 - Body ground	Power retract mirror motor drive voltage (output)	Outer rear view mirror assembly moving to retract position.	8 to 14 V
		Outer rear view mirror assembly not moving.	Below 1.5 V
K21-24 - Body ground	Power retract mirror motor drive voltage (output)	Outer rear view mirror assembly moving to driving position.	8 to 14 V
		Outer rear view mirror assembly not moving.	Below 1.5 V
R17-30 - Body ground	Tail light output	Tail light not illuminated	Below 1.5 V
		Tail light illuminated	8 to 14 V
R17-38 - Body ground	Back-up light output	Ignition switch ON, shift position is not R	Below 1.5 V
		Ignition switch ON, shift position is R	8 to 14 V
K21-4 - Body ground	DOME CUT relay output	Always	8 to 14 V
R17-20 - Body ground			

