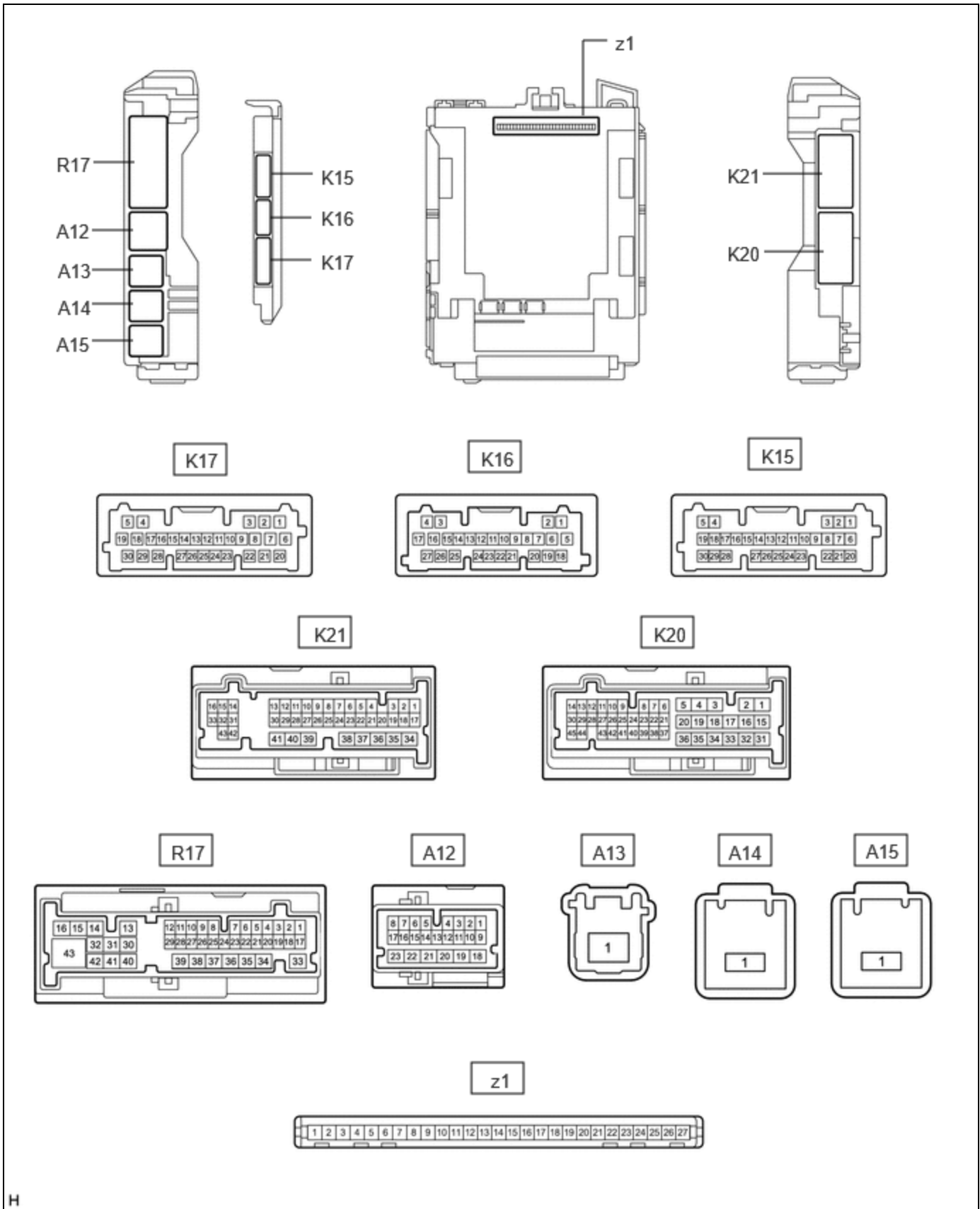


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|--|---------------------------|--------------------------------------|
| Last Modified: 12-04-2024 | 6.11:8.1.0 | Doc ID: RM1000000029IMS |
| Model Year Start: 2023 | Model: Prius Prime | Prod Date Range: [12/2022 -] |
| Title: LIGHTING (INT): LIGHTING SYSTEM: TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 -] | | |

TERMINALS OF ECU

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) Connect 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 |

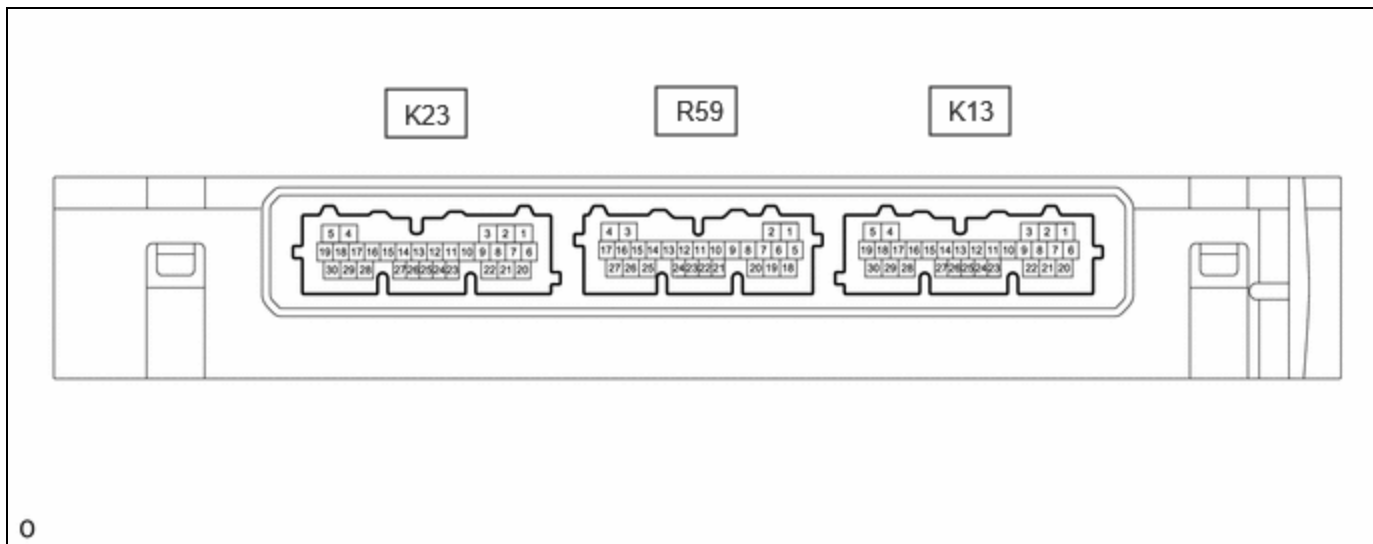
(d) Install the main body ECU (multiplex network body ECU) to power distribution box assembly.

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(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 |
|-----------------------------|--|------------------------------------|---------------------|
| R17-20 - Body ground | Luggage compartment lights power supply | DOME CUT relay off | Below 1 V |
| | | DOME CUT relay on | 11 to 14 V |
| K21-4 - Body ground | Interior lights power supply | DOME CUT relay off | Below 1 V |
| | | DOME CUT relay on | 11 to 14 V |
| K17-5 (ILE) - Body ground | Illuminated entry system drive output | Illuminated entry system inactive | 11 to 14 V |
| | | Illuminated entry system operation | Below 1 V |
| K21-18 - Body ground | No. 2 interior illumination light assembly (LH) ground | Footwell light off | 11 to 14 V |
| | | Footwell light on | Below 1 V |
| K21-19 - Body ground | No. 2 interior illumination light assembly (RH) ground | Footwell light off | 11 to 14 V |
| | | Footwell light on | Below 1 V |
| K16-10 (LED1) - Body ground | Ambient illumination lights ground | Ambient illumination light off | 11 to 14 V |
| K16-14 (LED2) - Body ground | | Ambient illumination light on | Below 1 V |
| R17-9 - Body ground | Instrument panel illumination power supply | TAIL relay off | Below 1 V |
| K21-2 - Body ground | | TAIL relay on | 11 to 14 V |

CHECK CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)



(a) Measure the voltage according to the value(s) in the table below.

| TERMINAL NO. (SYMBOL) | TERMINAL DESCRIPTION | CONDITION | SPECIFIED CONDITION |
|-------------------------------|---|------------------------------------|---------------------|
| K13-20 (SWIL) - K13-30 (AGND) | Push start switch illumination drive output | Push start switch illumination on | 11 to 14 V |
| | | Push start switch illumination off | Below 1 V |

