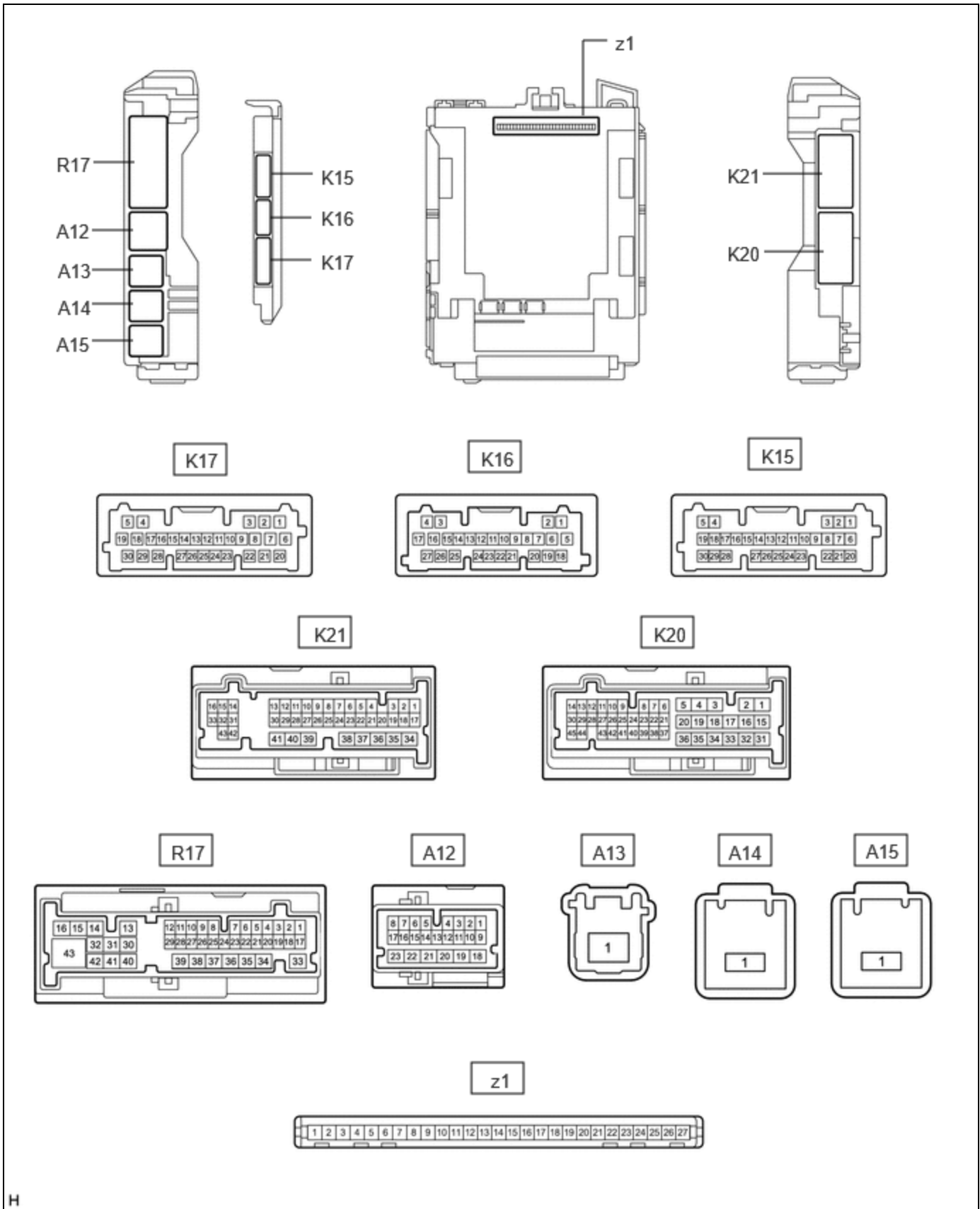


Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000029RBY
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SEAT BELT: SEAT BELT WARNING SYSTEM (w/o Occupant Classification System): TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

TERMINALS OF ECU

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



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

Click here [INFO](#)

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

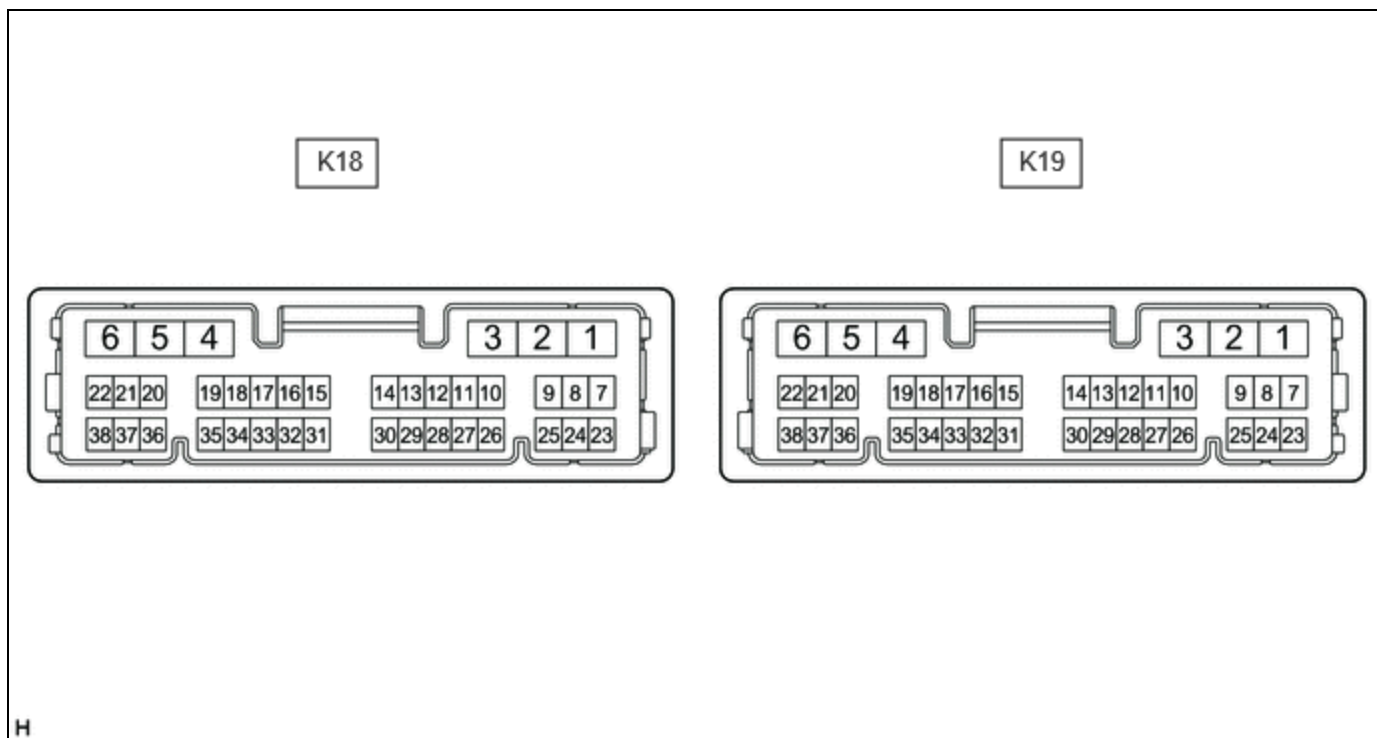
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
z1-13 (GND1) - Body ground	Ground	Always	Below 1 Ω
z1-14 (GND2) - Body ground	Ground	Always	Below 1 Ω
z1-26 (BECU) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
z1-27 (IGR) - Body ground	IG power supply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

(c) Reconnect the power distribution box assembly connectors.

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

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R17-1 (RCTY) - Body ground	Rear door courtesy light switch (for RH) input	Rear door RH open → closed	Below 1 V → 11 to 14 V or pulse output (maximum 14 V)
R17-28 (LCTY) - Body ground	Rear door courtesy light switch (for LH) input	Rear door LH open → closed	Below 1 V → 11 to 14 V or pulse output (maximum 14 V)
R17-4 - Body ground	Rear center seat belt buckle switch signal	Rear center seat belt fastened	Below 1 V
		Rear center seat belt unfastened	11 to 14 V
R17-8 - Body ground	Rear RH seat belt buckle switch signal	Rear RH seat belt fastened	Below 1 V
		Rear RH seat belt unfastened	11 to 14 V
R17-10 - Body ground	Front passenger seat belt buckle switch signal	Front passenger seat belt fastened	Below 1 V
		Front passenger seat belt unfastened	11 to 14 V
R17-19 - Body ground	Rear LH seat belt buckle switch signal	Rear LH seat belt fastened	Below 1 V
		Rear LH seat belt unfastened	11 to 14 V
R17-26 - Body ground	Front passenger seat occupant detection sensor signal	Ignition switch ON, front passenger seat occupied	Below 1 V
		Ignition switch ON, front passenger seat not occupied	11 to 14 V

CHECK COMBINATION METER ASSEMBLY



- (a) Disconnect the K18 combination meter 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
K18-1 (EP) - Body ground	Ground	Always	Below 1 Ω
K18-2 (ES) - Body ground	Ground	Always	Below 1 Ω
K18-5 (B) - Body ground	Auxiliary battery power supply	Always	11 to 14 V
K18-6 (IG+) - Body ground	Ignition power supply	Ignition switch off	Below 1 V
		Ignition switch ON	11 to 14 V
K18-29 (BKL) - Body ground	Driver side seat belt buckle switch signal	Driver side seat belt fastened	1 M Ω or higher
		Driver side seat belt unfastened	Below 1 Ω

