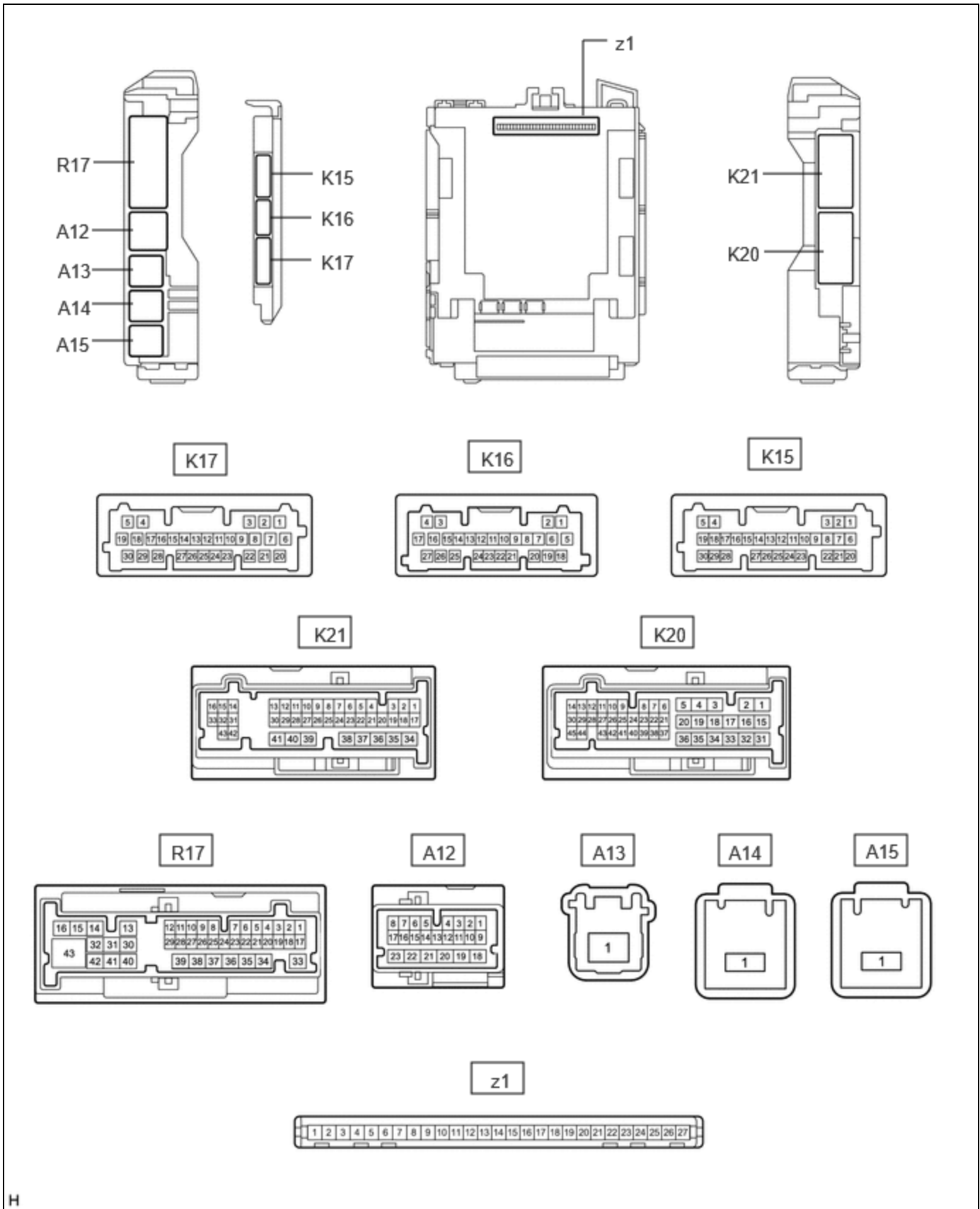


Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000029LEC
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SEAT BELT: SEAT BELT WARNING SYSTEM (w/ Occupant Classification System): TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

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.

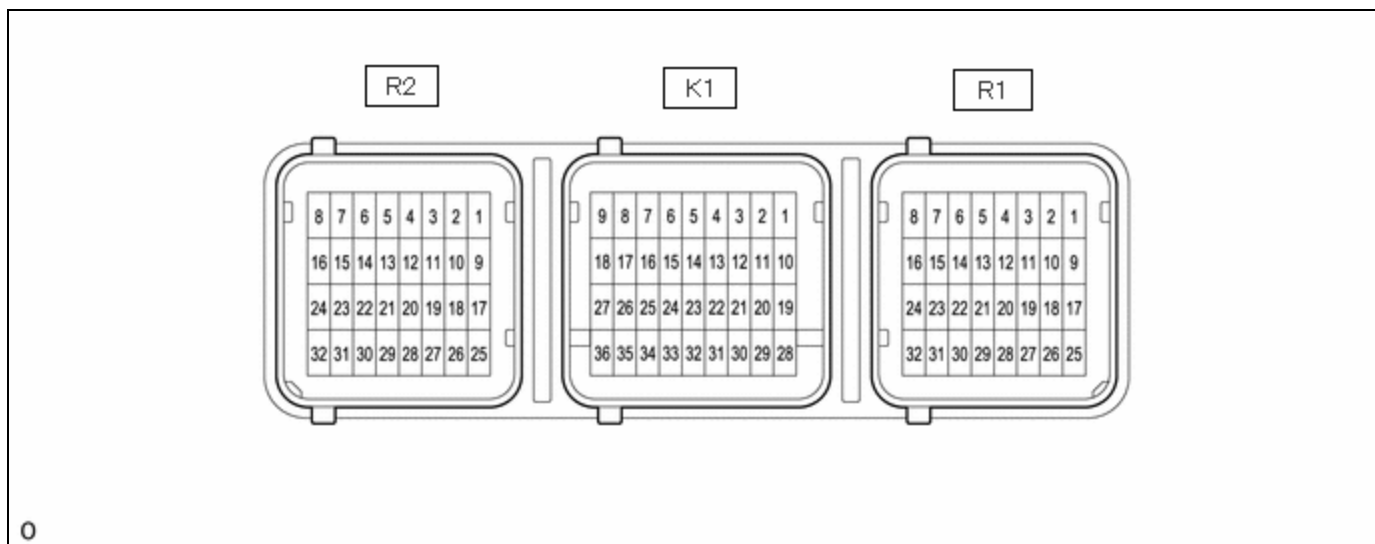
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
z1-13 (GND1) - Body ground	Ground	Always	Below 1 Ω
z1-14 (GND2) - Body ground	Ground	Always	Below 1 Ω
z1-26 (BECU) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
z1-27 (IGR) - Body ground	IG power supply	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)
R17-26 (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	11 to 14 V
		Rear center seat belt unfastened	Below 1 V
R17-8 - Body ground	Rear RH seat belt buckle switch signal	Rear RH seat belt fastened	11 to 14 V
		Rear RH seat belt unfastened	Below 1 V
R17-19 - Body ground	Rear LH seat belt buckle switch signal	Rear LH seat belt fastened	11 to 14 V
		Rear LH seat belt unfastened	Below 1 V

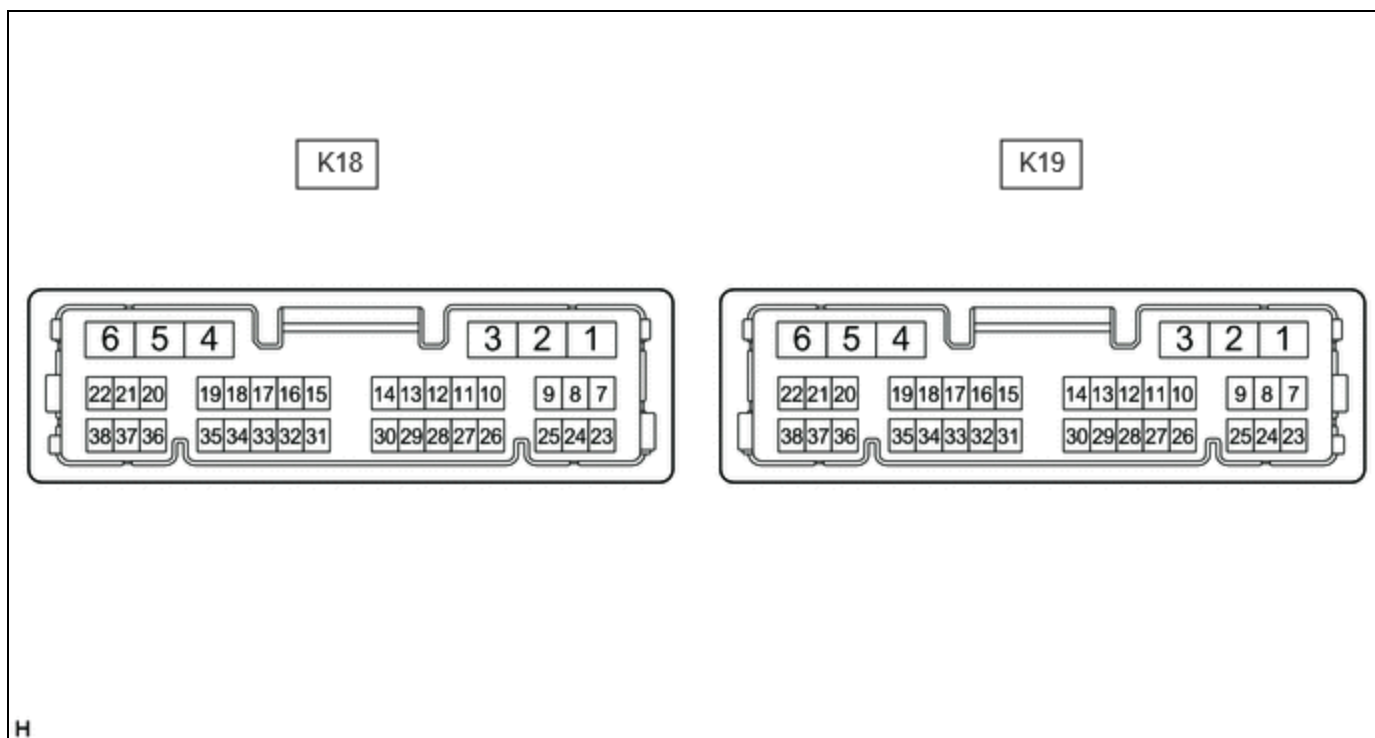
CHECK AIRBAG ECU ASSEMBLY



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TERMINAL NO.	TERMINAL SYMBOL	DESTINATION
R1-18	GNDR	Front seat inner belt assembly RH
R1-27	RBE+	
R1-24	SVC	Occupant classification sensor (Front seat adjuster assembly RH)
R1-31	SGD	
R1-32	SIG	

CHECK COMBINATION METER ASSEMBLY



(a) Disconnect the K18 combination meter assembly connector.

(b) Measure the resistance and voltage 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

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
		Driver side seat belt unfastened	Below 1 Ω

