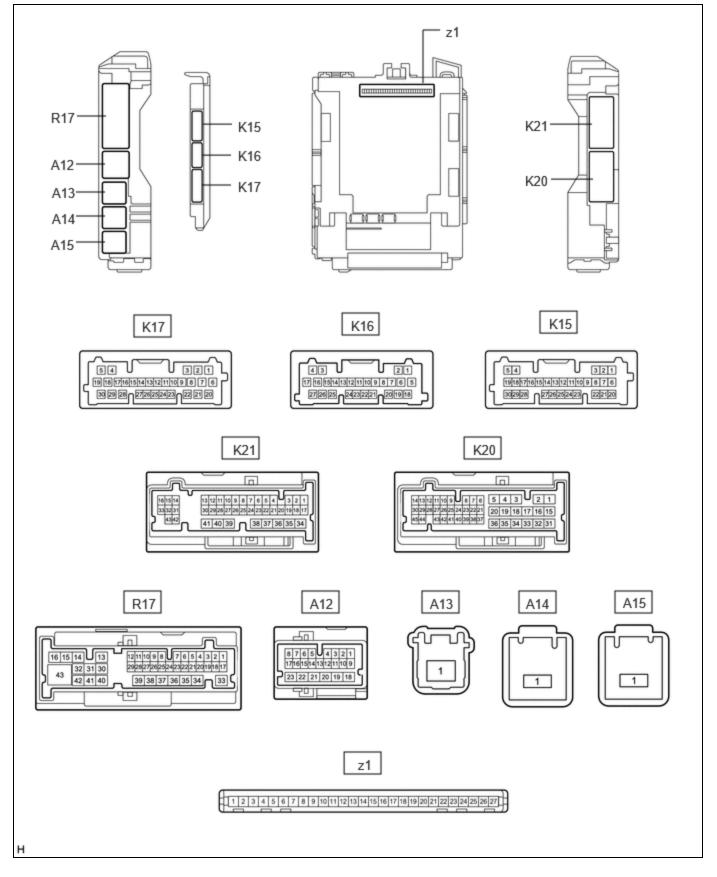
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000029V4X		
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]		
Title: WIPER / WASHER: WIPER AND WASHER SYSTEM: TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime				
[12/2022 -]				

TERMINALS OF ECU

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



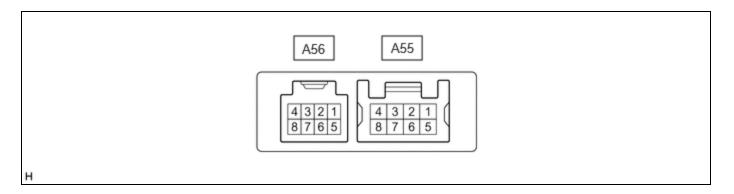
- (a) Remove the main body ECU (multiplex network body ECU) from the power distribution box assembly.

 Click here
- (b) Reconnect the power distribution box assembly connectors.
- (c) Measure the voltage and check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
z1-13 (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	IG power supply	Ignition switch off	Below 1 V
		Ignition switch ON	11 to 14 V
z1-22 - Body ground	CXPI communication line	Ignition switch off	Below 1 V
		Ignition switch ON	Pulse generation
z1-15 (LIN2) - Body ground	LIN communication line	Ignition switch ON	Pulse generation

- (d) Connect the power distribution box assembly and main body ECU (multiplex network body ECU) connectors.
- (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	
K17-12 (WHI) - Body ground	Windshield wiper motor assembly HI operation signal	Windshield wiper motor and link assembly operating in LO	9 to 14 V	
		Windshield wiper motor and link assembly operating in HI	Below 1 V	
K16-11 (LIN4) - Body ground	LIN communication line	Ignition switch ON	Pulse generation	
K17-6 (WPS) - Body ground	Wiper Relay operation signal	Ignition switch ON		
		Less than approximately 60 seconds after ignition switch turned off	11 to 14 V	
		Approximately 60 seconds or more after ignition switch turned off	Below 1 V	



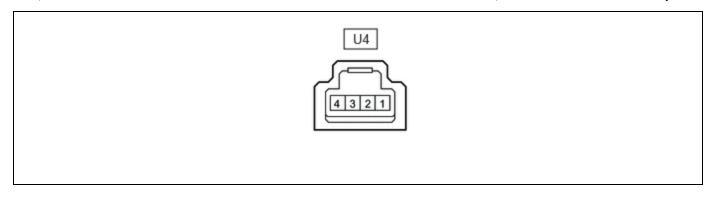
CHECK WINDSHIELD WIPER RELAY ASSEMBLY

- (a) Disconnect the A55 and A56 windshield wiper relay assembly connectors.
- (b) Measure the voltage and resistance according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION	
A55-3 (E) - Body ground	Ground	Always	Below 1 Ω	
A55-5 (EWS) - Body ground	Ground	Always	Below 1 Ω	
A55-6 (IGWS) - Body ground	Washer circuit IG power source	Ignition switch ON	11 to 14 V	
A55-8 (+B) - Body ground	Ignition switch ON signal (Power source circuit)	Ignition switch ON		
		Less than approximately 60 seconds after ignition switch turned off	11 to 14 V	
		Approximately 60 seconds or more after ignition switch turned off	Below 1 V	
A56-5 (ES) - Body ground	Ground	Always	Below 1 Ω	

- (c) Connect the A55 and A56 windshield wiper relay assembly connectors.
- (d) Measure the voltage and check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A55-1 (+WR) - Body ground	Front washer operation signal	Ignition switch ON, front washer operating	11 to 14 V
A55-2 (+1) - Body ground	LO operation signal to windshield Ignition switch ON, windshield wiper wiper motor assembly operating in LO		11 to 14 V
A55-4 (+2) - Body ground			11 to 14 V
A55-7 (-WR) - Body ground	Rear washer operation signal	Ignition switch ON, rear washer operating	11 to 14 V
		Approximately 60 seconds or more after ignition switch turned off	4.5 to 5.5 V
A56-3 (2S) - Body ground	Windshield wiper motor assembly HI operation signal	Windshield wiper motor assembly operating in LO	9 to 14 V
		Windshield wiper motor assembly operating in HI	Below 1 V
A56-4 (MPX1) - Body ground	YPI CXPI communication line Ignition switch ()N		Pulse generation
A56-6 (+SM) - Windshield wiper motor assembly position detection signal	Windshield wiper motor assembly	Windshield wiper motor assembly in LO or HI operation	Below 1 V ←→ 11 to 14 V
	Windshield wiper motor assembly stopped	Below 1 V	



CHECK RAIN SENSOR (w/ Auto Wiper System)

- (a) Disconnect the U4 rain sensor connector.
- (b) Measure the voltage and resistance and check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
U4-2 (ES) - Body ground	Ground	Always	Below 1 Ω
U4-3 (MPX) - Body ground	LIN communication signal	Ignition switch ON	Pulse generation
U4-4 (SIG) - Body ground	IG power source circuit	Ignition switch ON	11 to 14 V



