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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> WIPER / WASHER: WIPER AND WASHER SYSTEM: DATA LIST / ACTIVE TEST; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## DATA LIST / ACTIVE TEST

### DATA LIST

#### NOTICE:

In the table below, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

#### HINT:

Using the GTS to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

(a) Read the Data List according to the display on the GTS.

#### Body Electrical > Main Body > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Wiper Motor Cam Switch 1	Front wiper stop position status	OFF or ON	OFF: Front wiper not at bottom of stroke ON: Front wiper at bottom of stroke	-
Wiper Control Switch HI	Front wiper switch HI position signal	OFF or ON	OFF: Front wiper switch not in HI position ON: Front wiper switch in HI position	-
Rain Sensor Status	Rain sensor temperature circuit condition	Normal or Error	Normal: Rain sensor is normal Error: Malfunction in rain sensor thermistor	w/ Auto Wiper System
Rain Sensor Level Status	Rain sensor output condition	Normal or Error	Normal: Rain sensor is normal Error: Malfunction in rain sensor thermistor output	w/ Auto Wiper System

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Rain Sensor High Temperature Status	Rain sensor high temperature condition	Normal or Error	Normal: Rain sensor is normal Error: Rain sensor temperature is high	w/ Auto Wiper System
Rain Sensor Low Temperature Status	Rain sensor low temperature condition	Normal or Error	Normal: Rain sensor is normal Error: Rain sensor temperature is low	w/ Auto Wiper System
Wiper Switch Auto Signal	Windshield wiper switch assembly (AUTO position) condition	OFF or ON	OFF: Windshield wiper switch assembly not in AUTO position ON: Windshield wiper switch assembly in AUTO position	w/ Auto Wiper System
Wiper Operation Request (from other system)	Status of wiper operation request from other system	OFF or ON	OFF: Not requested ON: Requested	w/ Auto Wiper System
Wiper Motor Control Status	Wiper motor control condition in response to rain sensor request	Normal, Normal (Link Ctrl), Normal (Req Deny), Abnormal or Normal (Wiper Ctrl)	Current motor control condition	w/ Auto Wiper System
Wiper Intermittent Time Volume	Auto sensitivity adjustment volume condition	Shortest, Shorter, Longer or Longest	Shortest: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) P4 position Shorter: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) P3 position Longer: Windshield wiper switch assembly (auto sensitivity	*

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			adjustment volume condition) P2 position Longest: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) P1 position	
Automatic Wiper Wiping Mode (Sensor to Wiper)	Status of command request signal for front wiper speed and intermittent time from rain sensor	Stop, LO Mode, HI Mode, Wait, INT Mode1 (Vehicle Stop), INT Mode2 (Vehicle Stop), INT Mode3 (Vehicle Stop), INT Mode4 (Vehicle Stop), INT Mode5 (Vehicle Stop), INT Mode6 (Vehicle Stop), INT Mode7 (Vehicle Stop), INT Mode1 (Vehicle Run), INT Mode2 (Vehicle Run), INT Mode3 (Vehicle Run), INT Mode4 (Vehicle Run), INT Mode5 (Vehicle Run), INT Mode6 (Vehicle Run), INT Mode7 (Vehicle Run), INT Mode (Sensor Abnormal), OFF (Customize) or Fail Stop	Stop: Windshield wiper switch assembly in AUTO position and stop requested (Windshield wiper switch assembly OFF included) (because rain not detected)  LO Mode: Windshield wiper switch assembly in AUTO position and LO operation requested HI Mode: Windshield wiper switch assembly in AUTO position and HI operation requested Wait: Rain sensor is judging wiping mode INT Mode 1 (Vehicle Stop): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 32.7 s INT Mode 2 (Vehicle Stop): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 17.5 s INT Mode 3 (Vehicle Stop): Windshield	w/ Auto Wiper System

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			wiper switch assembly in AUTO position and intermittent operation requested of 9.7 s INT Mode 4 (Vehicle Stop): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 5.4 s INT Mode 5 (Vehicle Stop): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 3.1 s INT Mode 6 (Vehicle Stop): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 1.6 s INT Mode 7 (Vehicle Stop): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 0.8 s INT Mode 1 (Vehicle Run): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 17.9 s INT Mode 2 (Vehicle Run): Windshield wiper switch assembly in AUTO position and	

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			intermittent operation requested of 10.1 s INT Mode 3 (Vehicle Run): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 5.9 s INT Mode 4 (Vehicle Run): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 3.5 s INT Mode 5 (Vehicle Run): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 2.1 s INT Mode 6 (Vehicle Run): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 1.2 s INT Mode 7 (Vehicle Run): Windshield wiper switch assembly in AUTO position and intermittent operation requested of 0.6 s INT Mode (Sensor Abnormal): Windshield wiper switch assembly in AUTO position and speed sensing intermittent operation requested	

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			<p>OFF (Customize): Windshield wiper switch assembly in AUTO position and stop requested (for customization)</p> <p>Fail Stop: Windshield wiper switch assembly in AUTO position and stop requested (sensor malfunction)</p>	
Rain Sensor	Rain sensor detection information	With or Without	<p>With: w/ Rain Sensor</p> <p>Without: w/o Rain Sensor</p>	w/ Auto Wiper System
Wiper LO Single Operation Signal	Wiper LO single operation signal	With or Without	<p>With: Windshield wiper switch assembly in AUTO position and sensor determines small amount of rain while wiper is in stopped position</p> <p>Without: Windshield wiper switch assembly in AUTO position and wiper in position other than stopped</p>	w/ Auto Wiper System
Communication Wiper ECU	Connection status between windshield wiper motor assembly and main body ECU (multiplex network body ECU)	STOP or OK	<p>STOP: Not Connected</p> <p>OK: Connected</p>	Although this item is displayed on the GTS, it is not applicable to this vehicle.
Communication Wiper Module	Connection status between windshield wiper relay assembly and main body ECU (multiplex network body ECU)	STOP or OK	<p>STOP: Not Connected</p> <p>OK: Connected</p>	DTCs are stored if a malfunction occurs in the CXPI communication system.

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Communication Humidity/Rain Sensor	Connection status between rain sensor and main body ECU (multiplex network body ECU)	STOP or OK	STOP: Not Connected OK: Connected	w/ Auto Wiper System
R Wiper Stop Function at Back Door/Trunk Lid Open	Function to enable the back door open linked rear wiper suspend function	Enable or Disable	Customize setting displayed	Although this item is displayed on the GTS, it is not applicable to this vehicle.
Auto Wiper Function	Function to enable the auto wiper function	Enable or Disable	Customize setting displayed	-
Wiper Voice Control Function	Function to enable the voice recognition function	Enable or Disable	Customize setting displayed	-

\*: Refer to Inspection for each position of the switch.

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### Body Electrical > Combination Meter > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Washer Level Warning Switch	Washer fluid level warning switch status	Washer Level Switch ON, Washer Level Switch OFF or Unknown	Washer Level Switch ON: Washer fluid level not low Washer Level Switch OFF: Washer fluid level low Unknown: Washer fluid level not detected	-
Wiper Switch	Front wiper switch OFF position signal	OFF or ON	OFF: Front wiper switch not in OFF position ON: Front wiper switch in OFF position	-
Wiper Switch (AUTO/INT)	Front wiper switch AUTO*1 or INT*2 position signal	OFF or ON	OFF: Front wiper switch not in AUTO*1 or INT*2 position	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			ON: Front wiper switch in AUTO*1 or INT*2 position	
Wiper Switch (LO)	Front wiper switch LO position signal	OFF or ON	OFF: Front wiper switch not in LO position ON: Front wiper switch in LO position	-
Wiper Switch (HI)	Front wiper switch HI position signal	OFF or ON	OFF: Front wiper switch not in HI position ON: Front wiper switch in HI position	-
Wiper Switch (MIST)	Front wiper switch MIST position signal	OFF or ON	OFF: Front wiper switch not in MIST position ON: Front wiper switch in MIST position	-
Washer Switch	Washer switch Fr WASH position signal	OFF or ON	OFF: Washer switch not in Fr WASH position ON: Washer switch in Fr WASH position	-
Wiper Switch (Intermittent)	Front wiper switch INT position signal	OFF or ON	OFF: Front wiper switch not in INT ON: Front wiper switch in INT	*2
Rear Wiper Switch	Rear wiper switch position signal	OFF or ON	OFF: Rear wiper switch not in ON position ON: Rear wiper switch in ON position	Although this item is displayed on the GTS, it is not applicable to this vehicle.
Rear Washer Switch	Washer switch Rr WASH position signal	OFF or ON	OFF: Washer switch not in Rr WASH position ON: Washer switch in Rr WASH position	*3
Wiper Speed (FAST)	Intermittent time adjustment volume condition	OFF or ON	OFF: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) not in P4 position ON: Windshield wiper switch assembly (auto sensitivity adjustment	*4



TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			volume condition) in P4 position	
Wiper Speed (2nd FAST)	Intermittent time adjustment volume condition	OFF or ON	OFF: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) not in P3 position ON: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) in P3 position	*4
Wiper Speed (3rd FAST)	Intermittent time adjustment volume condition	OFF or ON	OFF: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) not in P2 position ON: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) in P2 position	*4
Wiper Speed (SLOW)	Intermittent time adjustment volume condition	OFF or ON	OFF: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) not in P1 position ON: Windshield wiper switch assembly (auto sensitivity adjustment volume condition) in P1 position	*4

\*1: w/ Auto Wiper System

\*2: w/o Auto Wiper System

\*3: w/ Rear Camera Cleaner System

\*4: Refer to Inspection for each position of the switch.

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## ACTIVE TEST

### HINT:

Using the GTS to perform Active Tests allows relays, VSVs, actuators and other items to be operated without removing any parts. This non-intrusive functional inspection can be very useful because intermittent operation may be discovered before parts or wiring is disturbed. Performing Active Tests early in troubleshooting is one way to save diagnostic time. Data List information can be displayed while performing Active Tests.

(a) Perform the Active Test according to the display on the GTS.

**Body Electrical > Main Body > Active Test**

TESTER DISPLAY	MEASUREMENT ITEM	CONTROL RANGE	DIAGNOSTIC NOTE
Wiper Power Relay	Function to operate the windshield wiper relay	OFF or ON	-
Front Washer Relay	Function to operate the windshield washer motor and pump assembly (Front)	OFF or ON	-
Front Wiper Lo Operation	Function to operate the windshield wiper motor assembly in LO	OFF or ON	-
Front Wiper Hi Operation	Function to operate the windshield wiper motor assembly in HI	OFF or ON	-
Rear Washer Relay	Function to operate the windshield washer motor and pump assembly (Rear)	OFF or ON	-

