Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029V50
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: WIPER / WASHER: WIPER AND WASHER SYSTEM: Rear Cleaner Motor and Relay Circuit; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Rear Cleaner Motor and Relay Circuit

DESCRIPTION

When the main body ECU (multiplex network body ECU) receives a washer switch (Rr CAMERA WASH) signal from the windshield wiper switch assembly, the windshield washer motor and pump assembly operates to spray the windshield washer.

WIRING DIAGRAM

Click here INFO

CAUTION / NOTICE / HINT

NOTICE:

- First check that the windshield washer function operates normally.

  Click here INFO
- Inspect the fuses for circuits related to this system before performing the following procedure.
- If the main body ECU (multiplex network body ECU) is replaced, refer to Service Bulletin.

PROCEDURE

1.	**PERFORM ACTIVE TEST USING GTS**

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

Click here INFO

Body Electrical > Main Body > Active Test

TESTER DISPLAY	MEASUREMENT ITEM	CONTROL RANGE	DIAGNOSTIC NOTE
Rear Washer Relay	Operates the windshield washer motor and pump assembly	OFF or ON	-

Body Electrical > Main Body > Active Test

TESTER DISPLAY
Rear Washer Relay

OK:

The windshield washer motor and pump assembly is operate normally.

OK ▶ **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

NG ▼

2.	**INSPECT WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY**

(a) Remove the windshield washer motor and pump assembly.

Click here INFO

(b) Inspect the windshield washer motor and pump assembly.

Click here INFO

NG ▶ **REPLACE WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY**

OK ▼

3.	**CHECK HARNESS AND CONNECTOR (POWER SOURCE - WINDSHIELD WIPER RELAY ASSEMBLY)**

(a) Disconnect the A55 windshield wiper relay assembly connector.

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

Standard Voltage:

EWD INFO

Click Location & Routing(A55)
Click Connector(A55)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A55-6 (IGWS) - Body ground	Ignition switch ON	11 to 14 V

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

4.	**CHECK HARNESS AND CONNECTOR (WINDSHIELD WIPER RELAY ASSEMBLY - BODY GROUND)**

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

Standard Resistance:

EWD INFO

Click Location & Routing(A55)
Click Connector(A55)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A55-5 (EWS) - Body ground	Always	Below 1 Ω

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

5.	**CHECK HARNESS AND CONNECTOR (WINDSHIELD WIPER RELAY ASSEMBLY - WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY)**

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

Standard Resistance:

EWD INFO

Click Location & Routing(A55,A46)
Click Connector(A55)
Click Connector(A46)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A55-1 (+WR) - A46-1 (B)	Always	Below 1 Ω
A55-7 (-WR) - A46-2 (SW)	Always	Below 1 Ω
A55-1 (+WR) or A46-1 (B) - Body ground	Always	10 kΩ or higher
A55-7 (-WR) or A46-2 (SW) - Body ground	Always	10 kΩ or higher

OK ▶ **REPLACE WINDSHIELD WIPER RELAY ASSEMBLY**

INFO

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**