

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000029A0U
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: MIRROR (EXT): POWER MIRROR CONTROL SYSTEM: AUTO Power Retract Mirrors do not operate; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

AUTO Power Retract Mirrors do not operate

DESCRIPTION

The multiplex network master switch assembly (outer mirror switch) sends a mirror auto retract/return signal to the main body ECU (multiplex network body ECU) when the retractable outer mirror switch on the multiplex network master switch assembly (outer mirror switch) is in the auto retract position. The main body ECU (multiplex network body ECU) retracts or returns the outer rear view mirror assemblies based on the lock/unlock signal of each door while the ignition switch is off.

WIRING DIAGRAM

Click here [INFO](#)

CAUTION / NOTICE / HINT

NOTICE:

- 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 registration.

Click here [INFO](#)

PROCEDURE

1. CHECK POWER RETRACT MIRROR FUNCTION

(a) Check the power retract mirror function.

Click here [INFO](#)

OK:

Power retract mirror function operates normally.

NG ► **GO TO OTHER DIAGNOSIS PROCEDURE (Power Retractable Mirrors do not Operate with Power Retract Mirror Switch)**

OK



2. CHECK POWER DOOR LOCK CONTROL SYSTEM

(a) Check the power door lock control system.

Click here [INFO](#)

OK:

Power door lock control system is normal.

NG  **GO TO POWER DOOR LOCK CONTROL SYSTEM** [INFO](#)

OK



3.	CHECK WIRELESS DOOR LOCK CONTROL SYSTEM
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(a) Check the wireless door lock control system.

Click here [INFO](#)

OK:

Wireless door lock control system is normal.

NG  **GO TO WIRELESS DOOR LOCK CONTROL SYSTEM**

OK



4.	CHECK SMART KEY SYSTEM (for Entry Function)
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(a) Check the smart key system (for Entry Function).

Click here [INFO](#)

OK:

Smart key system (for Entry Function) is normal.

NG  **GO TO SMART KEY SYSTEM (for Entry Function)**

OK



5.	READ VALUE USING GTS (OUTER MIRROR AUTO SWITCH)
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(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
Outer Mirror Auto Switch	Retractable outer mirror switch signal	OFF or ON	OFF: Retractable outer mirror switch not in auto retract position ON: Retractable outer mirror switch in auto retract position	-

Body Electrical > Main Body > Data List

TESTER DISPLAY
Outer Mirror Auto Switch

OK:
On the GTS screen, ON or OFF is displayed accordingly.

OK ▶ REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) [INFO](#)

NG
▼

6.	INSPECT MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY
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Click here [INFO](#)

NG ▶ REPLACE MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY

OK
▼

7.	CHECK HARNESS AND CONNECTOR (MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY (OUTER MIRROR SWITCH) - MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) AND BODY GROUND)
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- (a) Disconnect the K16 main body ECU (multiplex network body ECU).
- (b) Measure the resistance according to the value(s) in the table below.
Standard Resistance:



[Click Location & Routing\(O13,K16\)](#)

[Click Connector\(O13\)](#)

[Click Connector\(K16\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O13-9 (MF) - K16-27 (RET)	Always	Below 1 Ω
O13-10 (MR) - K16-26 (RTR)	Always	Below 1 Ω
O13-9 (MF) or K16-27 (RET) - Body ground	Always	10 k Ω or higher
O13-10 (MR) or K16-26 (RTR) - Body ground	Always	10 k Ω or higher

OK ► **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)** [INFO](#)

NG ► **REPAIR OR REPLACE HARNESS OR CONNECTOR**

