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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: MIRROR (EXT): POWER MIRROR CONTROL 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.

- Connect the GTS to the DLC3.
- Turn the ignition switch to ON.
- Turn the GTS on.
- Enter the following menus: Body Electrical / Main Body or Power Distribution Box / Data List.
- 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 Return Switch	Retractable outer mirror switch signal	OFF or ON	OFF: Retractable outer mirror switch off ON: Retractable outer mirror switch on	-
Outer Mirror Fold Switch	Retractable outer mirror switch signal	OFF or ON	OFF: Retractable outer mirror switch not in retract position ON: Retractable outer mirror switch in retract position	-
Mirror Selection Switch (R)	Mirror select switch signal for RH mirror	OFF or ON	OFF: Mirror select switch off ON: Mirror select switch R switch on	-
Mirror Selection Switch (L)	Mirror select switch signal for LH mirror	OFF or ON	OFF: Mirror select switch off ON: Mirror select switch L switch on	-
Mirror Position Switch (R)	Mirror adjust switch signal (Right)	OFF or ON	OFF: Mirror adjust switch not pressed right	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			ON: Mirror adjust switch pressed right	
Mirror Position Switch (L)	Mirror adjust switch signal (Left)	OFF or ON	OFF: Mirror adjust switch not pressed left ON: Mirror adjust switch pressed left	-
Mirror Position Switch (UP)	Mirror adjust switch signal (Up)	OFF or ON	OFF: Mirror adjust switch not pressed up ON: Mirror adjust switch pressed up	-
Mirror Position Switch (DOWN)	Mirror adjust switch signal (Down)	OFF or ON	OFF: Mirror adjust switch not pressed down ON: Mirror adjust switch pressed down	-
Outer Mirror Fold Switch	Retractable outer mirror switch signal	OFF or ON	OFF: Retractable outer mirror switch off ON: Retractable outer mirror switch on	-
Auto Mirror Switch	Auto retractable outer mirror switch signal	OFF or ON	OFF: Auto retractable outer mirror switch off ON: Auto retractable outer mirror switch on	-
Mirror Selection Switch (R) Failure	Mirror select switch RH stuck	OFF or ON	OFF: Switch stuck is detected ON: Switch stuck is not detected	-
Mirror Selection Switch (L) Failure	Mirror selection switch LH stuck	OFF or ON	OFF: Switch stuck is detected ON: Switch stuck is not detected	-
Mirror Position Switch (R) Failure	Mirror position switch (Right) stuck	OFF or ON	OFF: Switch stuck is detected ON: Switch stuck is not detected	-
Mirror Position Switch (L) Failure	Mirror position switch (Left) stuck	OFF or ON	OFF: Switch stuck is detected ON: Switch stuck is not detected	-
Mirror Position Switch (UP) Failure	Mirror position switch (Up) stuck	OFF or ON	OFF: Switch stuck is detected ON: Switch stuck is not detected	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Mirror Position Switch (DOWN) Failure	Mirror position switch (Down) stuck	OFF or ON	OFF: Switch stuck is detected ON: Switch stuck is not detected	-
Outer Mirror Fold Switch Failure	Outer mirror fold switch stuck	OFF or ON	OFF: Switch stuck is detected ON: Switch stuck is not detected	-
Auto Mirror Switch Failure	Auto mirror switch stuck	OFF or ON	OFF: Switch stuck is detected ON: Switch stuck is not detected	-
ON Menu Switch Failure	-	-	-	Cannot be used

Body Electrical > Power Distribution Box > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Mirror Heater Input Signal	Mirror heater drive signal (Input)	OFF or ON	OFF: Ignition switch ON, rear defogger switch off ON: Ignition switch ON, rear defogger switch on	w/ Mirror Heater
Mirror Heater Output Signal	Mirror heater drive signal (Output)	OFF or ON	OFF: Ignition switch ON, rear defogger switch off ON: Ignition switch ON, rear defogger switch on	w/ Mirror Heater
Mirror Heater Output Current	Mirror heater output current	0 to 255.0 A	Mirror heater operating: 2.8 to 3.4 A	w/ Mirror Heater
Mirror Heater Fuse Shut Off Status	Mirror heater output current shut off status	OFF or ON	OFF: Normal state ON: Current shut off state	w/ Mirror Heater
Mirror Heater Fuse Shut Off Count	Mirror heater output current shut off count	0 to 255	0	w/ Mirror Heater
Power Retract Mirror Input Signal	Power retract mirror drive signal (Input)	Stop, Retract or Return	Stop: Outer mirror switch not being operated Retract: Outer mirror switch in retract position Return: Outer mirror switch in driving position	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Power Retract Mirror Output Signal	Power retract mirror drive signal (Output)	Stop, Retract or Return	Stop: Outer rear view mirror assembly not moving Retract: Outer rear view mirror assembly moves to the retract position Return: Outer rear view mirror assembly moves to the driving position	-
Power Retract Mirror Output Current	Power retract mirror output current	0 to 255.0 A	Power retract mirror operating: 1.6 to 2.0 A	-
Power Retract Mirror Fuse Shut Off Status	Power retract mirror output current shut off status	OFF or ON	OFF: Normal state ON: Current shut off state	-
Power Retract Mirror Fuse Shut Off Count	Power retract mirror output current shut off count	0 to 255	0	-

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.

- Connect the GTS to the DLC3.
- Turn the ignition switch to ON.
- Turn the GTS on.
- Enter the following menus: Body Electrical / Main Body or Air Conditioner / Active Test.
- 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
Mirror Fold Signal	Retract mirror operation	OFF or ON	-
Mirror Return Signal	Retract mirror operation	OFF or ON	-

Body Electrical > Air Conditioner > Active Test

TESTER DISPLAY	MEASUREMENT ITEM	CONTROL RANGE	DIAGNOSTIC NOTE
Rear Defogger Relay	Mirror Heater	OFF or ON	w/ Mirror Heater

