Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029IMU
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: LIGHTING (INT): LIGHTING SYSTEM: DATA LIST / ACTIVE TEST; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DATA LIST / ACTIVE TEST

DATA LIST

NOTICE:

In the following table, 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
FR Door Lock Position Switch Status	Front door RH unlock detection switch signal	LOCK or UNLOCK	LOCK: Front door RH locked UNLOCK: Front door RH unlocked	-
FL Door Lock Position Switch Status	Front door LH unlock detection switch signal	LOCK or UNLOCK	LOCK: Front door LH locked UNLOCK: Front door LH unlocked	-
RR Door Lock Position Switch Status	Rear door RH unlock detection switch signal	LOCK or UNLOCK	ON: Rear door RH unlocked OFF: Rear door RH locked	-
RL Door Lock Position Switch Status	Rear door LH unlock detection switch signal	LOCK or UNLOCK	ON: Rear door LH unlocked OFF: Rear door LH locked	-
FR Door Courtesy Switch Status	Front door courtesy light switch assembly (for RH) signal	Close or Open	Close: Front door RH closed	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Open: Front door RH open	
FL Door Courtesy Switch Status	Front door courtesy light switch assembly (for LH) signal	Close or Open	Close: Front door LH closed Open: Front door LH open	-
RR Door Courtesy Switch Status	Rear door courtesy light switch assembly (for RH) signal	Close or Open	Close: Rear door RH closed Open: Rear door RH open	-
RL Door Courtesy Switch Status	Rear door courtesy light switch assembly (for LH) signal	Close or Open	Close: Rear door LH closed Open: Rear door LH open	-
Back Door Courtesy Switch Status	Back door courtesy switch signal	Close or Open	Close: Back door closed Open: Back door open	-
IGR Power	Ignition switch ON signal	OFF or ON	OFF: Ignition switch off ON: Ignition switch ON	-
Communication Illumination Module "A"	-	-	-	Cannot be used
Communication Illumination Module "B"	-	-	-	Cannot be used
Communication of Color Illumination Module "A"	-	-	-	Cannot be used
Communication of Color Illumination Module "B"	-	-	-	Cannot be used

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Communication of Color Illumination Module "C"	-	-	-	Cannot be used
Interior Lights ON when Approached Function	Function that lights up the interior lights when the electrical key transmitter is brought near the vehicle	Disable or Enable	Enable	-
Interior Lights ON when Door Unlocked Function	Function that lights up the interior lights when the doors are unlocked by an unlock operation	Disable or Enable	Enable	-
Interior Lights ON when IG OFF Function	Function that lights up the interior lights when the ignition switch is turned from ON to off	Disable or Enable	Enable	-
Light Control Function	Function that dims the interior lights when the ignition switch is ON and the shift lever is moved to any position other than P	Disable or Enable	Enable	-
Interior Illumination Light 1 Function	Function that lights up the interior light 1 when the map light assembly is illuminated	Disable or Enable	Enable	-
Interior Illumination Light 2 Function	Function that lights up the interior light 2 when the map light assembly is illuminated	Disable or Enable	Enable	-
Interior Illumination Light 3 Function	Function that lights up the interior light 3 when the map light assembly is illuminated	Disable or Enable	Enable	-
Interior Lights Lighting Timer Setting	Changes the lighting time of the interior lights that are operated by the timer function	Normal/Short/Long	Normal	for Driver 1*
Interior Lights ON Function	Function that lights up the interior lights	Disable or Enable	Enable	for Driver 1*

*: "For Driver 1" is written as a representative example. "For Driver 2", "for Driver 3", and "for Guest" also have identical items.

Body Electrical > Power Distribution Box > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Panel Light Input Signal	Panel light input condition	OFF or ON	OFF: Light control switch not in tail position ON: Light control switch in tail position	-
Panel Light Output Signal	Panel light output condition	OFF or ON	OFF: Panel light off ON: Panel light on	-
Panel Light Output Current	Panel light current	Min.: 0, Max.: 255 A	Below 3.2 A	Interior light current when output is on
Panel Light Fuse Shut Off Status	Panel light fuse condition	OFF or ON	OFF: Fuse not shut off ON: Fuse shut off	-
Panel Light Fuse Shut Off Count	Panel light fuse shut off history	Min.: 0, Max.: 255	Number of fuse shut off displayed	-

Body Electrical > Smart Key > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Start Switch Light Function	Setting for the function to turn on the push start switch illumination.	OFF or ON	Customized value is displayed	-

Chassis > Front Recognition Camera > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Illumination Notification	Setting for the function to turn on the Illumination notification.*	OFF or ON	Customized value is displayed	-

*: w/ Ambient illumination light

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
Illuminated Entry System	Turns on the lights that are controlled by the illuminated entry system*1	OFF or ON	Perform the Active Test with the door linked switch of the map light assembly on and switch of the No. 1 room light assembly in the off (DOOR) position.
Front Footwell Lights	Turns on the following lights: • No. 2 interior illumination light assembly (LH/RH)*2	OFF or ON	Perform the Active Test with the vehicle stopped, ignition switch OFF and lock all doors.
Extended Illumination 1	Turns on the following lights: • No. 2 Interior Illumination Light Assembly (for Front Passenger Side) (No. 2 Instrument Panel Garnish Sub-assembly)*3	OFF or ON	Perform the Active Test with the vehicle stopped and ignition switch ON.
Extended Illumination 2	Turns on the following lights: • No. 1 Interior Illumination Light Assembly (No. 1 Instrument Panel Garnish Sub-assembly)*3 • No. 2 Interior Illumination Light Assembly (for Center) (No. 2 Instrument Panel Garnish Sub-assembly)*3	OFF or ON	Perform the Active Test with the vehicle stopped and ignition switch ON.
Relay for Interior Light Auto Cut Function	DOME CUT relay	OFF or ON	• OFF: DOME CUT relay on (interior lights turn on) • ON: DOME CUT relay off (interior lights turn off)

*1: Refer to Operation Check for the lights that are controlled by the illuminated entry system.

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*2: w/ Footwell light

*3: w/ Ambient illumination light

Body Electrical > Smart Key > Active Test

TESTER DISPLAY	MEASUREMENT ITEM	CONTROL RANGE	DIAGNOSTIC NOTE
Start SW Light Power Supply	Push start switch illumination	OFF or ON	-