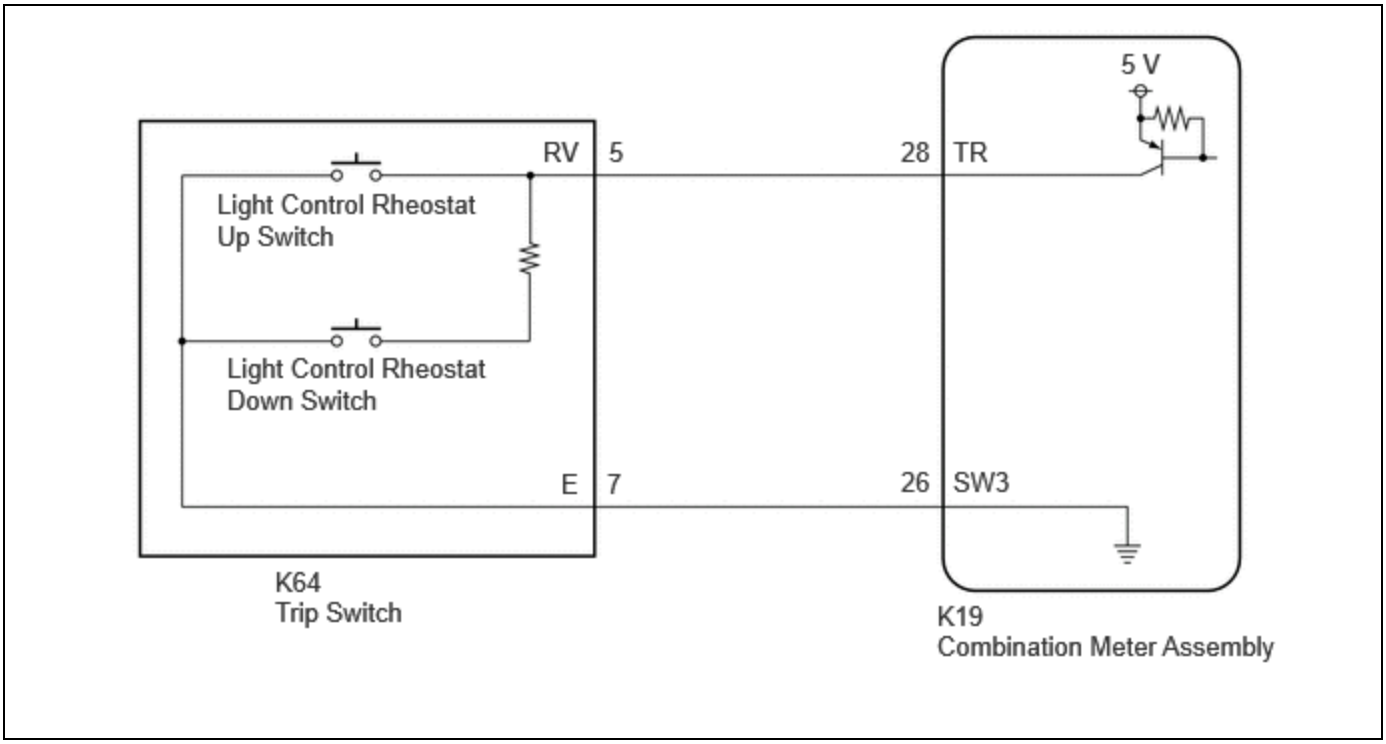
Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029H10
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: METER / GAUGE / DISPLAY: METER / GAUGE SYSTEM: Operating Light Control Rheostat does not Change Light Brightness; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Operating Light Control Rheostat does not Change Light Brightness

DESCRIPTION

The light control rheostat is connected to the combination meter assembly via direct line. When the light control rheostat up switch or light control rheostat down switch is operated, the brightness of the meter illumination changes.

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

- When replacing the combination meter assembly, always replace it with a new one. If a combination meter assembly which was installed to another vehicle is used, the information stored in it will not match the information from the vehicle and a DTC may be stored.
- When replacing the combination meter assembly, update the ECU security key.

Click here INFO

HINT:

Even when the light control rheostat switch is not operated, the brightness of the meter illumination is dimmed automatically when the taillights illuminate.

PROCEDURE

1.	**PERFORM ACTIVE TEST USING GTS**

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

Body Electrical > Combination Meter > Active Test

TESTER DISPLAY	MEASUREMENT ITEM	CONTROL RANGE	DIAGNOSTIC NOTE
Light Control Switch (UP)	Performs the same operation as pressing the light control rheostat up switch	OFF/ON	-
Light Control Switch (DOWN)	Performs the same operation as pressing the light control rheostat down switch	OFF/ON	-

Body Electrical > Combination Meter > Active Test

TESTER DISPLAY
Light Control Switch (UP)

Body Electrical > Combination Meter > Active Test

TESTER DISPLAY
Light Control Switch (DOWN)

RESULT	PROCEED TO
Active Test can be performed correctly	A
Active Test cannot be performed correctly	B

B ▶ **REPLACE COMBINATION METER ASSEMBLY**

A

▼

2.	**READ VALUE USING GTS**

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

Body Electrical > Combination Meter > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Light Control Switch (UP)	Light control rheostat up switch operation	OFF or ON	OFF: Switch released ON: Switch pushed	-
Light Control Switch (DOWN)	Light control rheostat down switch operation	OFF or ON	OFF: Switch released ON: Switch pushed	-

Body Electrical > Combination Meter > Data List

TESTER DISPLAY
Light Control Switch (UP)
Light Control Switch (DOWN)

RESULT	PROCEED TO
The value of the Data List item is correct, and the combination meter assembly operates correctly	A
The value of the Data List item is correct, but the combination meter assembly does not operate correctly	B
The Data List item changes correctly	C

A ▶ **USE SIMULATION METHOD TO CHECK**

B ▶ **REPLACE COMBINATION METER ASSEMBLY**

C ▼

3.	**INSPECT TRIP SWITCH**

Click here INFO

NG ▶ **REPLACE TRIP SWITCH**

OK

4.	**CHECK HARNESS AND CONNECTOR (TRIP SWITCH - COMBINATION METER ASSEMBLY)**

(a) Disconnect the K19 combination meter assembly connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(K64,K19)
Click Connector(K64)
Click Connector(K19)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K64-5 (RV) - K19-28 (TR)	Always	Below 1 Ω
K64-7 (E) - K19-26 (SW3)	Always	Below 1 Ω
K64-5 (RV) or K19-28 (TR) - Body ground	Always	10 kΩ or higher

OK ▶ **REPLACE COMBINATION METER ASSEMBLY**

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