

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000028U13
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> CELLULAR COMMUNICATION: SAFETY CONNECT SYSTEM: B157111,B157113; Indicator (Green) Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>B157111</b>	<b>Indicator (Green) Circuit Short to Ground</b>
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<b>DTC</b>	<b>B157113</b>	<b>Indicator (Green) Circuit Open</b>
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## DESCRIPTION

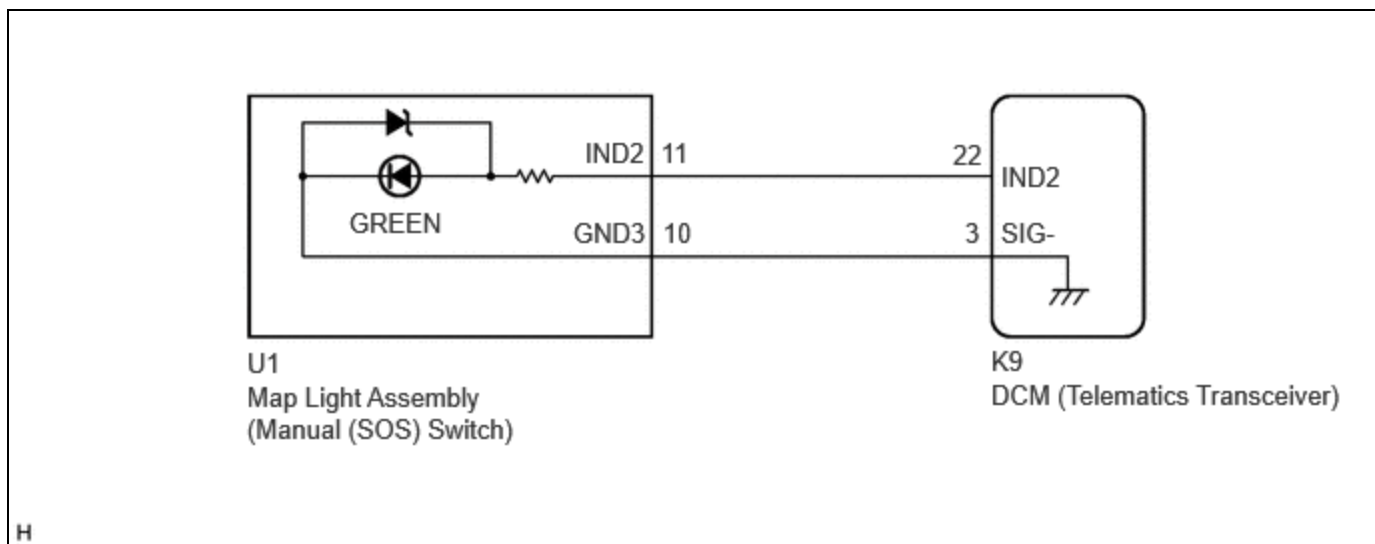
This DTC is stored when the DCM (telematics transceiver) detects an open or short in the manual (SOS) switch green indicator circuit of the manual (SOS) switch. The manual (SOS) switch green indicator illuminates after the ignition switch is turned to ON.

If the safety connect system is not active, the manual (SOS) switch green indicator will turn off.

If the safety connect system is active, the manual (SOS) switch green indicator will blink while communicating with the call center.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B157111	Indicator (Green) Circuit Short to Ground	Manual (SOS) switch green indicator impedance ( $\Omega$ ) is lower than the malfunction threshold for 10 seconds or more when the ignition switch is ON	<ul style="list-style-type: none"> <li>DCM (telematics transceiver)</li> <li>Map light assembly (manual (SOS) switch)</li> <li>Harness or connector</li> </ul>	Telematics	A
B157113	Indicator (Green) Circuit Open	Manual (SOS) switch green indicator impedance ( $\Omega$ ) is higher than the malfunction threshold for 10 seconds or more when the ignition switch is ON	<ul style="list-style-type: none"> <li>DCM (telematics transceiver)</li> <li>Map light assembly (manual (SOS) switch)</li> <li>Harness or connector</li> </ul>	Telematics	A

## WIRING DIAGRAM



## CAUTION / NOTICE / HINT

### NOTICE:

Depending on the parts that are replaced during vehicle inspection or maintenance, performing initialization, registration or calibration may be needed. Refer to Precaution for Safety Connect System.

Click here [INFO](#)

## PROCEDURE

### 1. CLEAR DTC

- (a) Turn the ignition switch to ON and wait for 10 seconds or more.
- (b) Clear the DTCs.

**Body Electrical > Telematics > Clear DTCs**

### NEXT



### 2. CHECK DTC

Pre-procedure1

- (a) Turn the ignition switch to ON and wait for 10 seconds or more.

Procedure1

- (b) Check for DTCs and check that no DTCs are output.

**Body Electrical > Telematics > Trouble Codes**

OK:

No DTCs are output.

RESULT	PROCEED TO
B157111 or B157113 is not output	A
B157111 or B157113 is output	B

Post-procedure1

(c) None

**A** ► **USE SIMULATION METHOD TO CHECK**

**B**



<b>3.</b>	<b>INSPECT MAP LIGHT ASSEMBLY (MANUAL (SOS) SWITCH) (GREEN INDICATOR)</b>
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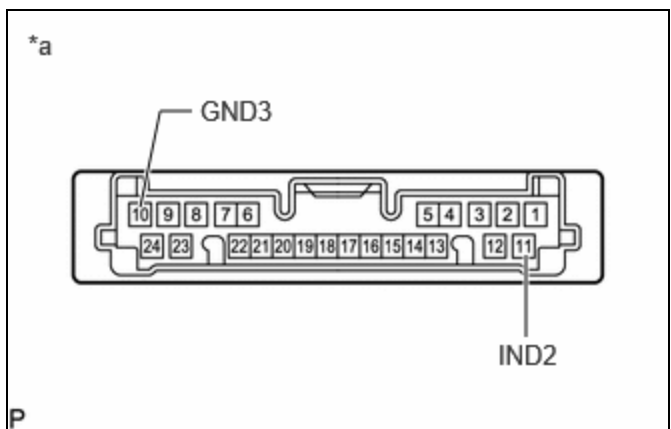
Pre-procedure1

(a) Remove the map light assembly (manual (SOS) switch).

**HINT:**

[Click here](#) **INFO**

(b) Connect 2 dry-cell batteries (1.5 V each) in series.



*a	Component without harness connected (Map Light Assembly (Manual (SOS) Switch))
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(c) Connect a positive (+) lead from batteries to terminal 11 (IND2) and a negative (-) lead to terminal 10 (GND3) of the map light assembly (manual (SOS) switch) connector.

Procedure1

(d) Check if the manual (SOS) switch green indicator illuminates.

OK:

Manual (SOS) switch green indicator illuminates.

Post-procedure1

(e) None

**NG**  **REPLACE MAP LAMP ASSEMBLY**

**OK**



<b>4.</b>	<b>CHECK HARNESS AND CONNECTOR (DCM (TELEMATICS TRANSCEIVER) - MAP LIGHT ASSEMBLY (MANUAL (SOS) SWITCH))</b>
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Pre-procedure1

(a) Disconnect the K9 DCM (telematics transceiver) connector.

(b) Disconnect the U1 map light assembly (manual (SOS) switch) connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(K9,U1\)](#)

[Click Connector\(K9\)](#)

[Click Connector\(U1\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K9-22 (IND2) - U1-11 (IND2)	Always	Below 1 $\Omega$	$\Omega$
K9-22 (IND2) or U1-11 (IND2) - Body ground	Always	10 k $\Omega$ or higher	k $\Omega$
K9-3 (SIG-) - U1-10 (GND3)	Always	Below 1 $\Omega$	$\Omega$
K9-3 (SIG-) or U1-10 (GND3) - Body ground	Always	10 k $\Omega$ or higher	k $\Omega$

Post-procedure1

(d) None

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

**OK**



**5. REPLACE DCM (TELEMATICS TRANSCEIVER)**

(a) Replace the DCM (telematics transceiver) with a new one.

**HINT:**

Click here 

**NOTICE:**

- The ignition switch must be off.
- Do not exchange the DCM (telematics transceiver) with one from another vehicle.

**NEXT**  **PERFORM DCM ACTIVATION**

