

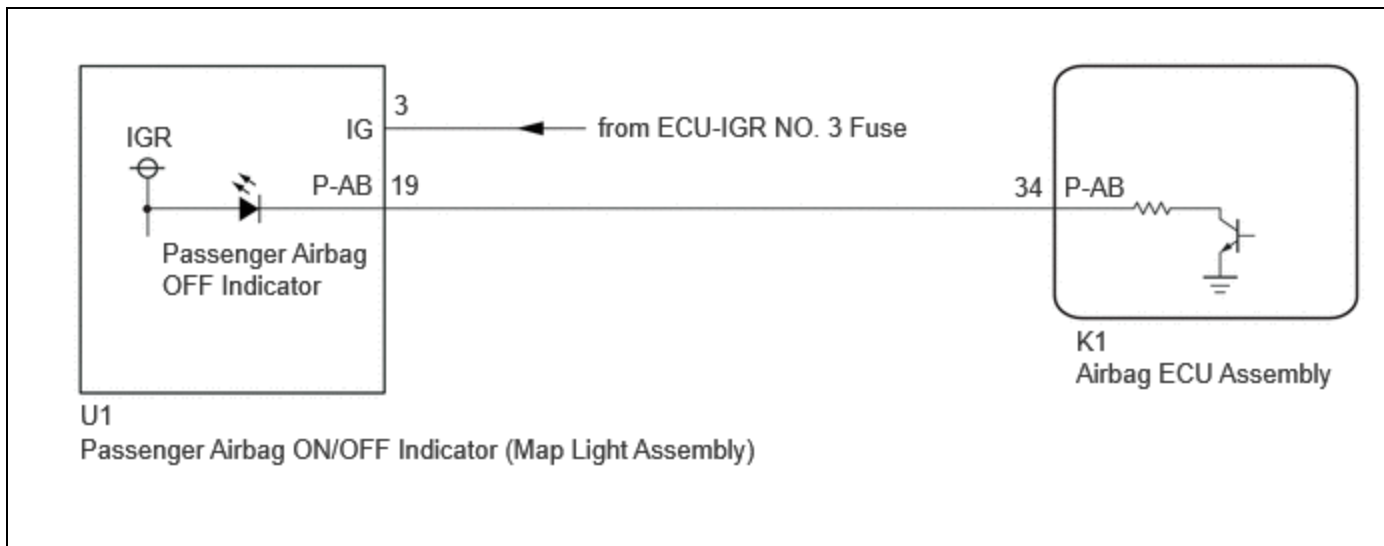
<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000028UXC
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B00D514; Restraint System Passenger Disable Indicator Circuit Short to Ground or Open; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>B00D514</b>	<b>Restraint System Passenger Disable Indicator Circuit Short to Ground or Open</b>
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## DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B00D514	Restraint System Passenger Disable Indicator Circuit Short to Ground or Open	<ul style="list-style-type: none"> <li>The airbag ECU assembly detects an open circuit signal or short circuit to ground signal in the passenger airbag ON/OFF indicator "OFF" circuit when the airbag ECU assembly sends an "OFF" request signal to the "OFF" indicator in the passenger airbag ON/OFF indicator.</li> <li>Passenger airbag ON/OFF indicator malfunction</li> <li>Airbag ECU assembly malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Harness or connector</li> <li>Passenger airbag ON/OFF indicator (map light assembly)</li> <li>Airbag ECU assembly</li> </ul>	Comes on	SRS Airbag	A	Does not apply to test/check mode

## WIRING DIAGRAM



## CAUTION / NOTICE / HINT

### NOTICE:

- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

Click here [INFO](#)

### HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

Click here [INFO](#)

- After replacing the airbag ECU assembly, refer to work procedure.

Click here [INFO](#)

## PROCEDURE

<b>1.</b>	<b>CHECK PASSENGER AIRBAG ON/OFF INDICATOR CONDITION</b>
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Pre-procedure1

- (a) Turn the ignition switch to ON.

Procedure1

- (b) Check the passenger airbag ON/OFF indicator operation.

### HINT:

Refer to the normal condition of the passenger airbag ON/OFF indicator.

Click here [INFO](#)

RESULT	PROCEED TO
Passenger airbag ON/OFF indicator "OFF" is always on.	A

RESULT	PROCEED TO
Passenger airbag ON/OFF indicator "OFF" is always off.	B

Post-procedure1

(c) None

**B**  **GO TO STEP 6**

**A**



<b>2.</b>	<b>CHECK CONNECTION OF CONNECTORS</b>
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Pre-procedure1

(a) Turn the ignition switch off.

(b) Disconnect the cable from the negative (-) auxiliary battery terminal, and wait for at least 60 seconds.

Procedure1

(c) Check that the connectors are properly connected to the airbag ECU assembly and map light assembly.

OK:

The connectors are properly connected.

Post-procedure1

(d) None

**NG**  **CONNECT CONNECTORS PROPERLY**

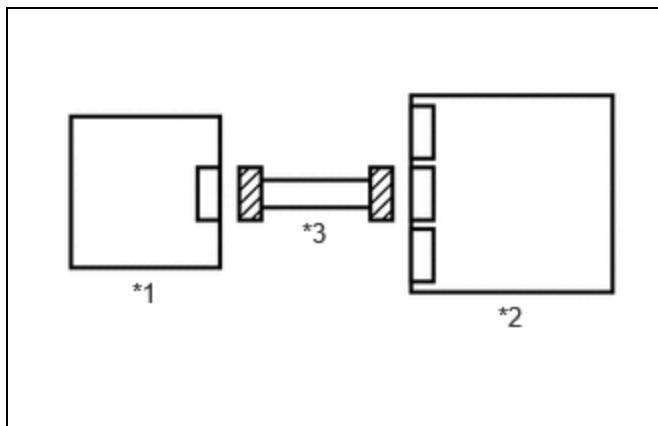
**OK**



<b>3.</b>	<b>CHECK CONNECTORS</b>
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Pre-procedure1

(a) Disconnect the airbag ECU assembly connector.



*1	Map Light Assembly
*2	Airbag ECU Assembly
*3	Wire Harness

(b) Disconnect the map light assembly connector.

Procedure1

(c) Check that the terminals of the connectors are not deformed or damaged.

OK:

The terminals are not deformed or damaged.

Post-procedure1

(d) None

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

**OK**



**4. CHECK HARNESS AND CONNECTOR (CHECK FOR SHORT TO GROUND IN THE CIRCUIT)**

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

Standard Resistance:

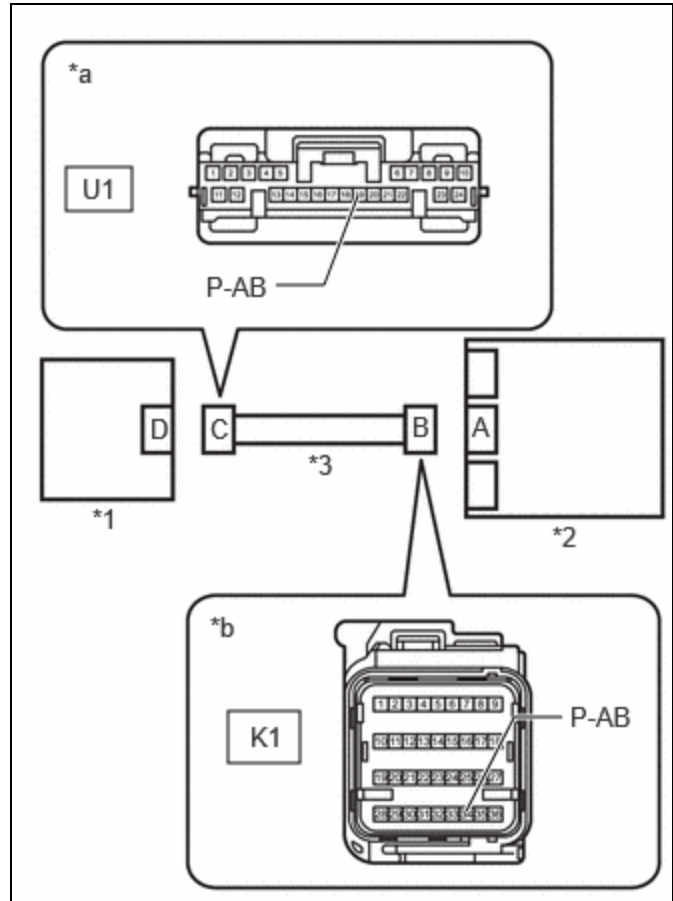


[Click Location & Routing\(K1,U1\)](#)

[Click Connector\(K1\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K1-34 (P-AB) or U1-19 (P-AB) - Body ground	Always	1 MΩ or higher	MΩ



*1	Map Light Assembly
*2	Airbag ECU Assembly
*3	Wire Harness
*a	Front view of wire harness connector (to Map Light Assembly)
*b	Front view of wire harness connector (to Airbag ECU Assembly)

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

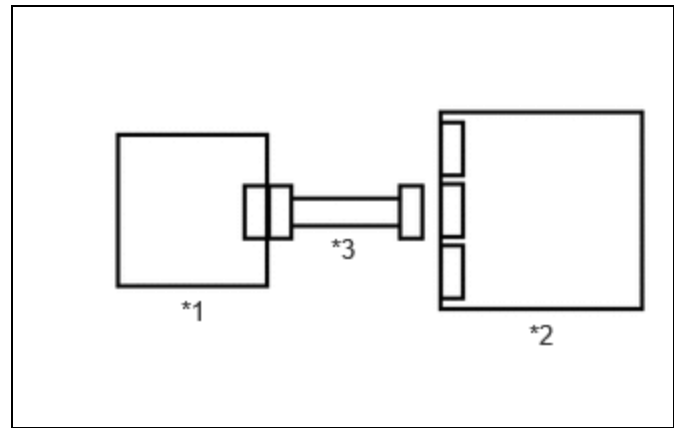
**OK**



<b>5.</b>	<b>CHECK PASSENGER AIRBAG ON/OFF INDICATOR</b>
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Pre-procedure1

(a) Connect the map light assembly connector.



*1	Map Light Assembly
*2	Airbag ECU Assembly
*3	Wire Harness

(b) Connect the cable to the negative (-) auxiliary battery terminal, and wait for at least 2 seconds.

(c) Turn the ignition switch to ON.

Procedure1

(d) Check the passenger airbag ON/OFF indicator operation.

OK:

The passenger airbag ON/OFF indicator "OFF" does not come on.

Post-procedure1

(e) None

**OK** ► REPLACE AIRBAG ECU ASSEMBLY INFO

**NG** ► REPLACE MAP LIGHT ASSEMBLY

## 6. CHECK CONNECTION OF CONNECTORS

Pre-procedure1

(a) Turn the ignition switch off.

(b) Disconnect the cable from the negative (-) auxiliary battery terminal, and wait for at least 60 seconds.

Procedure1

(c) Check that the connectors are properly connected to the airbag ECU assembly and map light assembly.

OK:

The connectors are properly connected.

Post-procedure1

(d) None

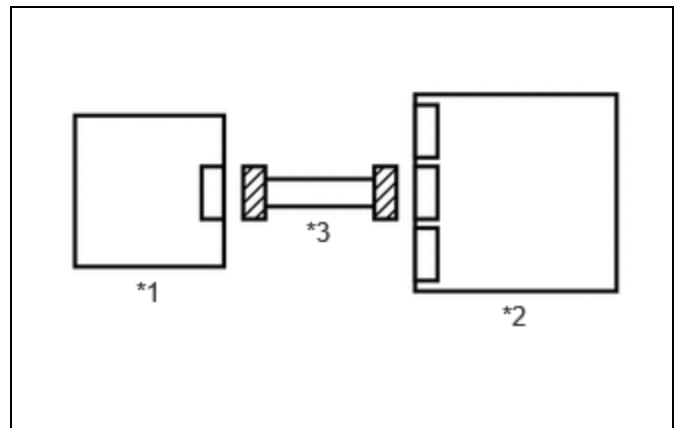
**NG**  **CONNECT CONNECTORS PROPERLY**

**OK**



<b>7.</b>	<b>CHECK CONNECTORS</b>
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Pre-procedure1



(a) Disconnect the airbag ECU assembly connector.

*1	Map Light Assembly
*2	Airbag ECU Assembly
*3	Wire Harness

(b) Disconnect the map light assembly connector.

Procedure1

(c) Check that the terminals of the connectors are not deformed or damaged.

OK:

The terminals are not deformed or damaged.

Post-procedure1

(d) None

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

**OK**



**8. CHECK HARNESS AND CONNECTOR (CHECK FOR OPEN IN THE CIRCUIT)**

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

Standard Resistance:

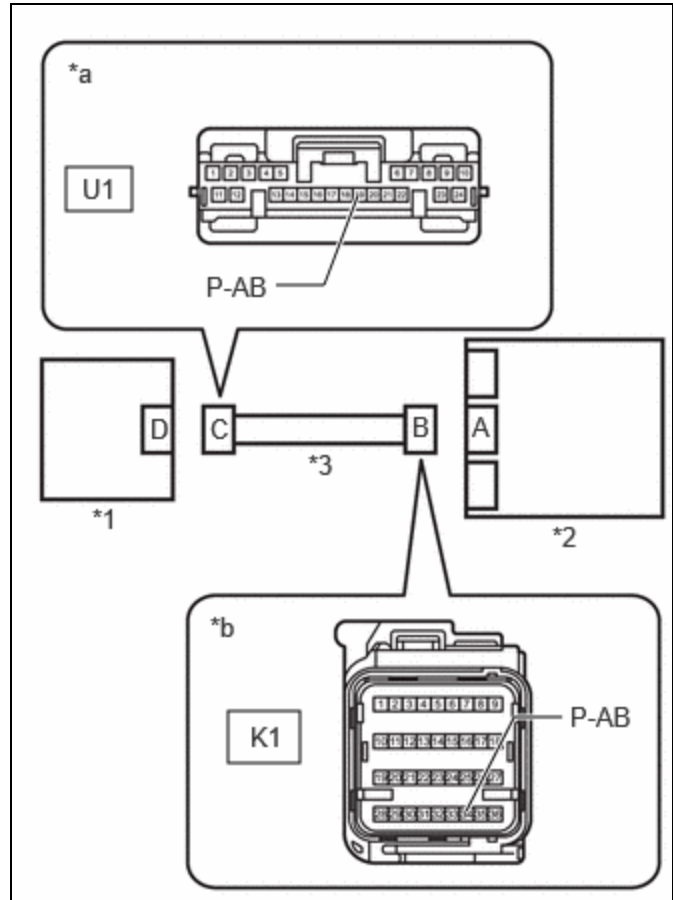


[Click Location & Routing\(K1,U1\)](#)

[Click Connector\(K1\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K1-34 (P-AB) - U1-19 (P-AB)	Always	Below 1 Ω	Ω



*1	Map Light Assembly
*2	Airbag ECU Assembly
*3	Wire Harness
*a	Front view of wire harness connector (to Map Light Assembly)
*b	Front view of wire harness connector (to Airbag ECU Assembly)

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

**OK**  
▼

**9. CHECK HARNESS AND CONNECTOR (POWER SOURCE VOLTAGE)**

Pre-procedure1



- (a) Connect the cable to the negative (-) auxiliary battery terminal, and wait for at least 2 seconds.
- (b) Turn the ignition switch to ON.

Procedure1

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

Standard Voltage:



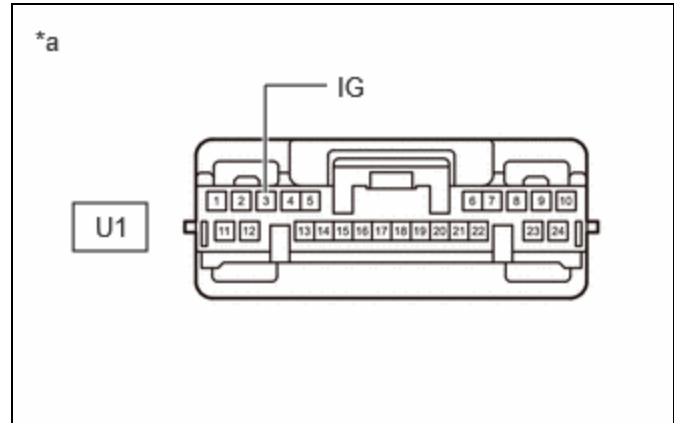
[Click Location & Routing\(U1\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
U1-3 (IG) - Body ground	Ignition switch ON	11 to 14 V	V

Result:

PROCEED TO
OK
NG



\*a Front view of wire harness connector (to Map Light Assembly)

Post-procedure1

- (d) Turn the ignition switch off.
- (e) Disconnect the cable from the negative (-) auxiliary battery terminal, and wait for at least 60 seconds.

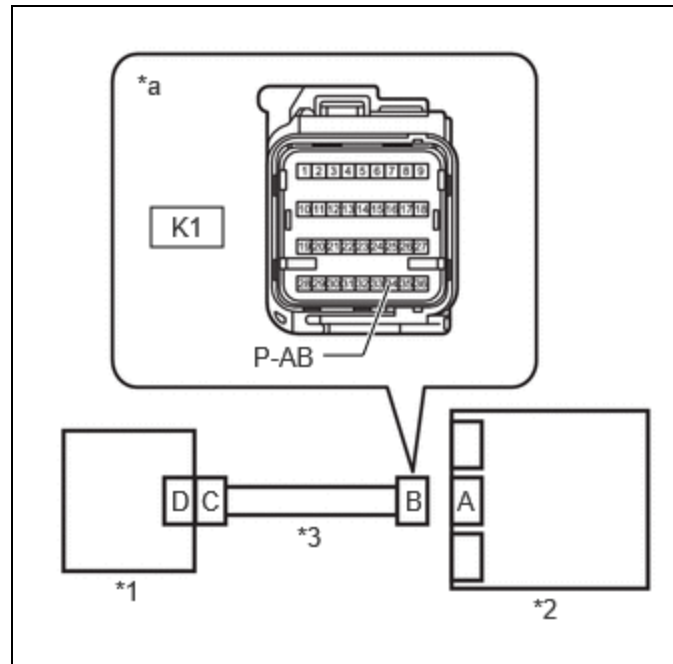
**NG** ▶ REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**  
▼

<b>10.</b>	<b>CHECK PASSENGER AIRBAG ON/OFF INDICATOR</b>
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Pre-procedure1

- (a) Connect the map light assembly connector.



*1	Map Light Assembly
*2	Airbag ECU Assembly
*3	Wire Harness
*a	Front view of wire harness connector (to Airbag ECU Assembly)

(b) Using a service wire, connect terminal 34 (P-AB) of connector B and body ground.

**NOTICE:**

Do not forcibly insert the service wire into the terminals of the connector when connecting a service wire.

(c) Connect the cable to the negative (-) auxiliary battery terminal, and wait for at least 2 seconds.

(d) Turn the ignition switch to ON.

Procedure1

(e) Check the passenger airbag ON/OFF indicator operation.

OK:

The passenger airbag ON/OFF indicator "OFF" come on.

Post-procedure1

(f) Turn the ignition switch off.

(g) Disconnect the cable from the negative (-) auxiliary battery terminal, and wait for at least 60 seconds.

(h) Disconnect the service wire from connector B.

**OK** ▶ REPLACE AIRBAG ECU ASSEMBLY **INFO**

**NG** ▶ REPLACE MAP LIGHT ASSEMBLY

