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|--|---------------------------|--------------------------------------|
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| <b>Model Year Start:</b> 2023  | <b>Model:</b> Prius Prime | <b>Prod Date Range:</b> [12/2022 - ] |
| <b>Title:</b> PARK ASSIST / MONITORING: BLIND SPOT MONITOR SYSTEM: C1AB513; Outer Mirror Indicator (Module "A" Side) Circuit Open; 2023 - 2024 MY Prius Prius Prime [12/2022 - ] |                           |                                      |

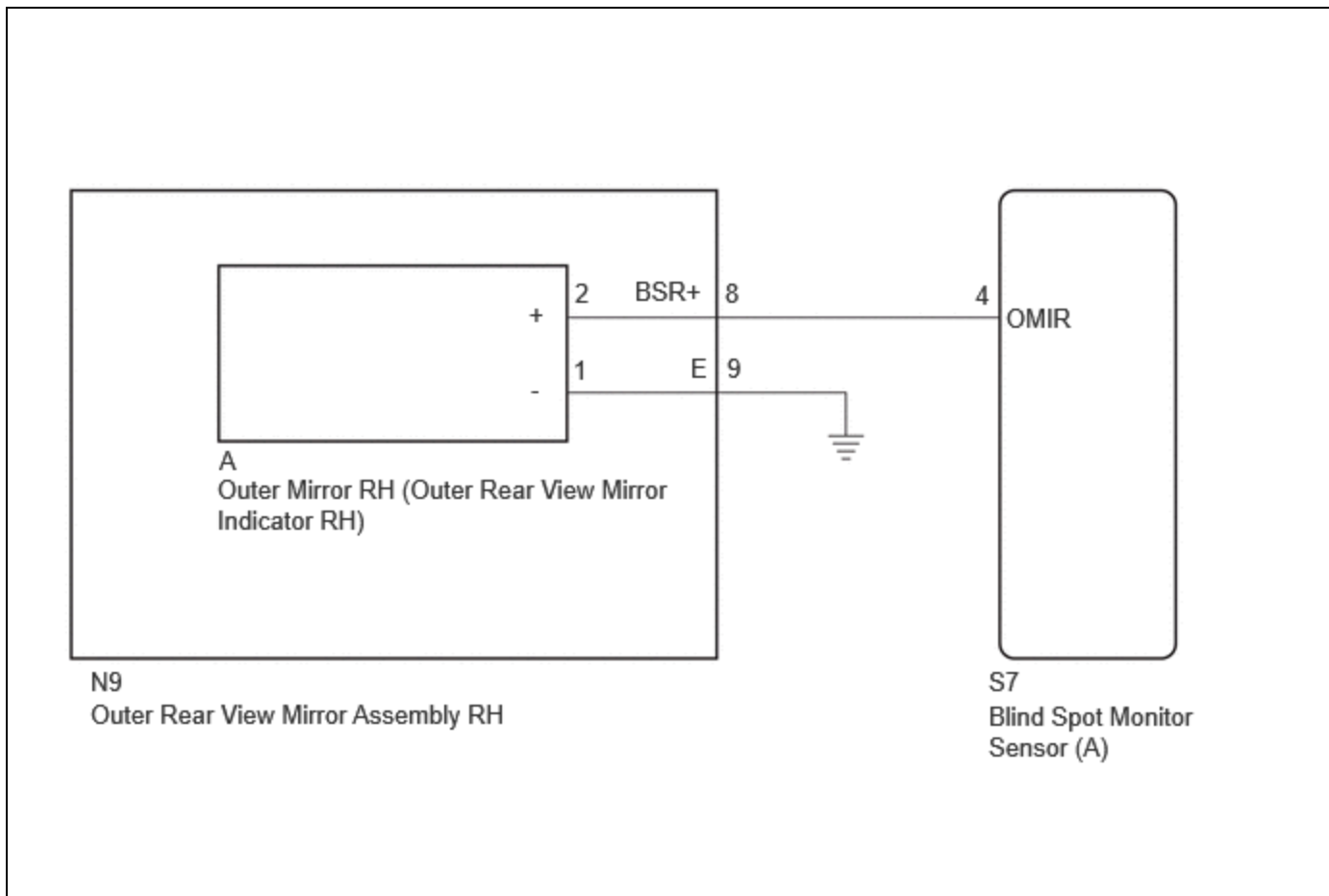
|            |                |  |
|------------|----------------|--|
| <b>DTC</b> | <b>C1AB513</b> | <b>Outer Mirror Indicator (Module "A" Side) Circuit Open</b> |
|------------|----------------|--|

## DESCRIPTION

This DTC is stored when the blind spot monitor sensor (A) detects an open in the outer rear view mirror indicator RH.

| DTC NO. | DETECTION ITEM  | DTC DETECTION CONDITION  | TROUBLE AREA   | DTC OUTPUT FROM        | PRIORITY |
|---------|---|--|--|------------------------|----------|
| C1AB513 | Outer Mirror Indicator (Module "A" Side) Circuit Open | <p><b>Both of the following conditions are met:</b></p> <ul style="list-style-type: none"> <li>The blind spot monitor system is on</li> <li>The current flowing to the indicator is below a specified value when indicator operation voltage is being sent to the indicator</li> </ul> | <ul style="list-style-type: none"> <li>Outer mirror RH (outer rear view mirror indicator RH)</li> <li>Outer rear view mirror assembly RH</li> <li>Harness or connector</li> <li>Blind spot monitor sensor (A)</li> </ul> | Blind Spot Monitor "A" | A        |

## WIRING DIAGRAM



## CAUTION / NOTICE / HINT

### NOTICE:

- When checking for DTCs, make sure that the blind spot monitor system is turned on.
- If the blind spot monitor sensor is replaced, write the ECU software.

Click here [INFO](#)

- After replacing the blind spot monitor sensor, be sure to adjust the optical axis of the blind spot monitor sensor and delete the vehicle control history (RoB) of each system.

### HINT:

The optical axis adjustment of the blind spot monitor sensor is performed by either "Target Adjustment (Triangle Target)", "Driving Adjustment" or "ECU data Save / Write".

- Driving Adjustment: [INFO](#)
- Target Adjustment (Triangle Target): [INFO](#)
- ECU data Save / Write: [INFO](#)

## PROCEDURE

### 1. CHECK FOR DTC

(a) Check for DTCs.

**Body Electrical > Blind Spot Monitor "A" > Trouble Codes**

| RESULT                | PROCEED TO |
|-----------------------|------------|
| C1AB513 is not output | A          |
| C1AB513 is output     | B          |

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

**B**



|           |   |
|-----------|---|
| <b>2.</b> | <b>CHECK HARNESS AND CONNECTOR (OUTER REAR VIEW MIRROR ASSEMBLY RH - BLIND SPOT MONITOR SENSOR (A) AND BODY GROUND)</b> |
|-----------|---|

Pre-procedure1

- (a) Disconnect the S7 blind spot monitor sensor (A) connector.
- (b) Disconnect the N9 outer rear view mirror assembly RH connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(S7,N9\).](#)

[Click Connector\(S7\).](#)

[Click Connector\(N9\).](#)

| TESTER CONNECTION         | CONDITION | SPECIFIED CONDITION | RESULT |
|---------------------------|-----------|---------------------|--------|
| S7-4 (OMIR) - N9-8 (BSR+) | Always    | Below 1 Ω           | Ω      |
| N9-9 (E) - Body ground    | Always    | Below 1 Ω           | Ω      |

Post-procedure1

- (d) None

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

**OK**



### 3. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH

Pre-procedure1

(a) Disconnect the A outer mirror RH (outer rear view mirror indicator RH) connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(N9\)](#)

[Click Connector\(N9\)](#)

| TESTER CONNECTION     | CONDITION | SPECIFIED CONDITION | RESULT   |
|-----------------------|-----------|---------------------|----------|
| N9-8 (BSR+) - A-2 (+) | Always    | Below 1 $\Omega$    | $\Omega$ |
| N9-9 (E) - A-1 (-)    | Always    | Below 1 $\Omega$    | $\Omega$ |

Post-procedure1

(c) None

**NG** REPLACE OUTER REAR VIEW MIRROR ASSEMBLY RH

**OK**



### 4. INSPECT RH OUTER MIRROR (OUTER REAR VIEW MIRROR INDICATOR RH)

**HINT:**

Click here

**OK** REPLACE BLIND SPOT MONITOR SENSOR (A)

**NG** REPLACE OUTER MIRROR RH (OUTER REAR VIEW MIRROR INDICATOR RH)

