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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARK ASSIST / MONITORING: BLIND SPOT MONITOR SYSTEM: U023287; Lost Communication with Side Obstacle Detection Control Module "A" Missing Message; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

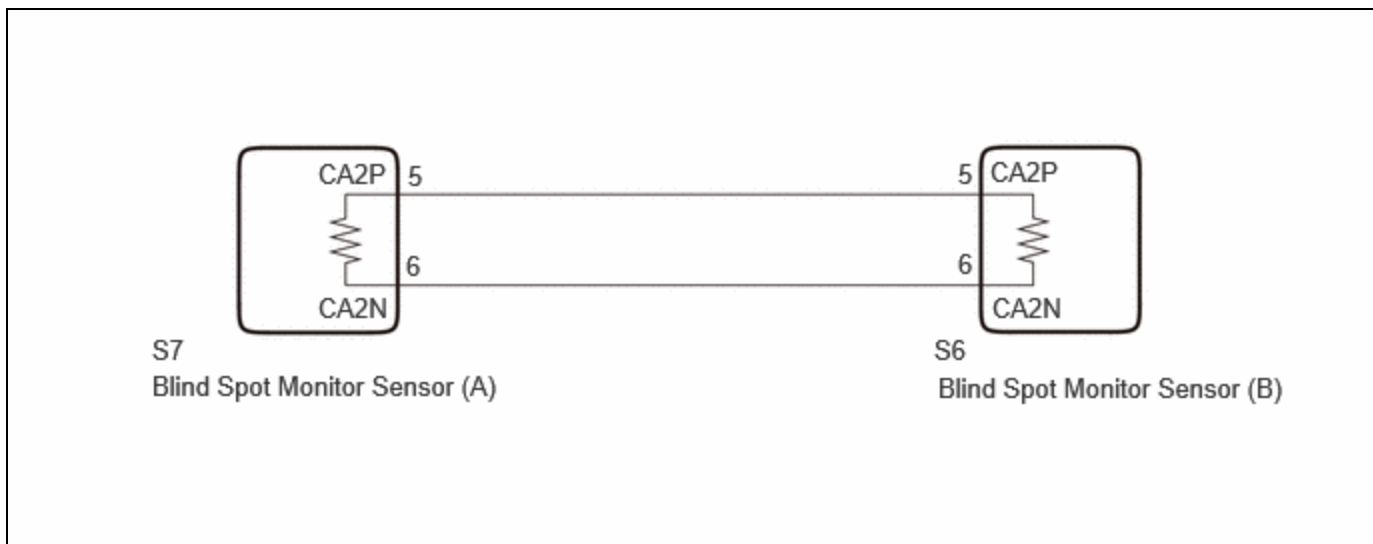
DTC	U023287	Lost Communication with Side Obstacle Detection Control Module "A" Missing Message
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DESCRIPTION

When the blind spot monitor sensor (B) detects a communication malfunction with the blind spot monitor sensor (A), this DTC is stored.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
U023287	Lost Communication with Side Obstacle Detection Control Module "A" Missing Message	The blind spot monitor sensor (B) does not receive communication from the blind spot monitor sensor (A)	<ul style="list-style-type: none"> Blind spot monitor sensor (B) Blind spot monitor sensor (A) Harness or connector 	Blind Spot Monitor "B"	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

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

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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

HINT:

- Before disconnecting each connector for inspection, push in on the connector case to check that each connector is not loose or disconnected.
- When a connector is disconnected, check that the terminals and connector case are not cracked, deformed or corroded.
- If a DTC is stored again after being cleared, the malfunction may be occurring due to vibration of the vehicle. In this case, wiggle an ECU or wire harness to check if a malfunction occurs.

PROCEDURE

1.	CHECK CAN BUS MAIN WIRE
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Pre-procedure1

- (a) Disconnect the cable from the negative (-) auxiliary battery terminal.
- (b) Disconnect the S7 blind spot monitor sensor (A) connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(S7\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
S7-5 (CA2P) - S7-6 (CA2N)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω	Ω
S7-5 (CA2P) - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher	Ω

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
S7-6 (CA2N) - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher	Ω
S7-5 (CA2P) - +B	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher	kΩ
S7-6 (CA2N) - +B	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher	kΩ

Post-procedure1

(d) None

NG  **GO TO STEP 3**

OK


2.	CHECK BLIND SPOT MONITOR SENSOR (A)
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Pre-procedure1

- (a) Connect the S7 blind spot monitor sensor (A) connector.
- (b) Disconnect the S6 blind spot monitor sensor (B) connector.

Procedure1

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

Standard:



[Click Location & Routing\(S6\).](#)

[Click Connector\(S6\).](#)

TESTER CONNECTION	CONDITION	TOOL SETTING	SPECIFIED CONDITION
S6-5 (CA2P) - S6-6 (CA2N)	Ignition switch ON	1 V/DIV., 100 μs./DIV.	Pulse generation

Post-procedure1

(d) None

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

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

3. CHECK CAN MAIN WIRE (BLIND SPOT MONITOR SENSOR (B))

Pre-procedure1

- (a) Connect the S7 blind spot monitor sensor (A) connector.
- (b) Disconnect the S6 blind spot monitor sensor (B) connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(S6\).](#)

[Click Connector\(S6\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
S6-5 (CA2P) - S6-6 (CA2N)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω	Ω
S6-5 (CA2P) - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher	Ω
S6-6 (CA2N) - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher	Ω
S6-5 (CA2P) - +B	Cable disconnected from negative (-) auxiliary battery terminal	6 k Ω or higher	k Ω
S6-6 (CA2N) - +B	Cable disconnected from negative (-) auxiliary battery terminal	6 k Ω or higher	k Ω

Post-procedure1

- (d) None

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

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

