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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT SIDE RADAR SENSOR SYSTEM: U123587; Lost Communication with Cruise Control Front Distance Range Sensor Front Side "A" Missing Message; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

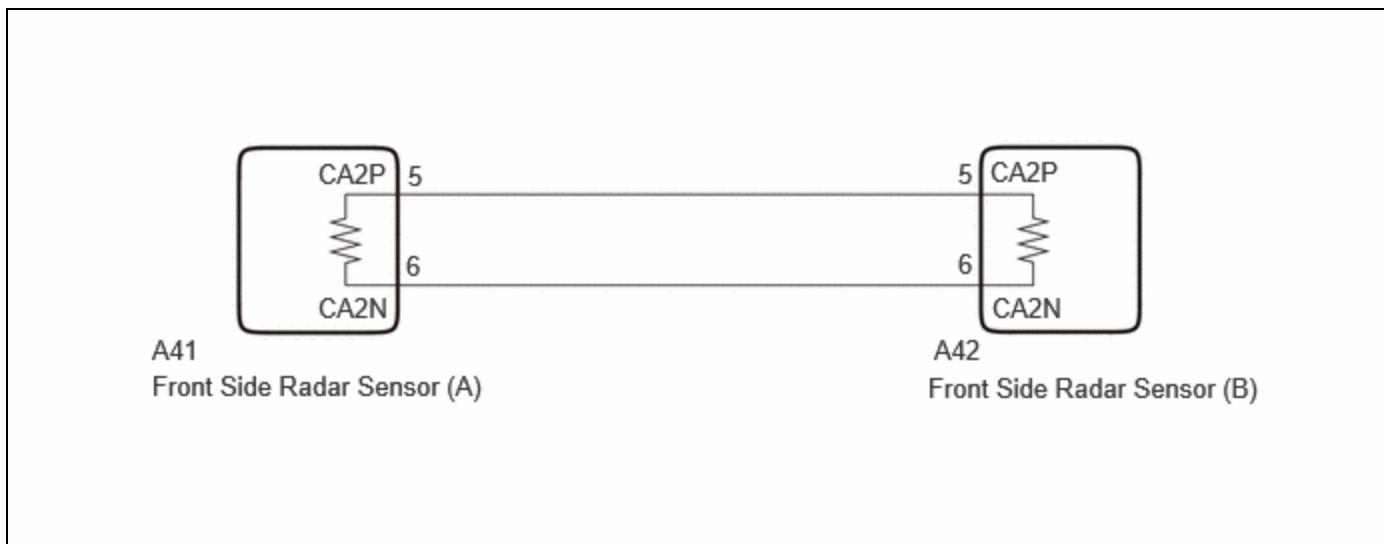
DTC	U123587	Lost Communication with Cruise Control Front Distance Range Sensor Front Side "A" Missing Message
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DESCRIPTION

When the front side radar sensor (B) judges that there is a communication malfunction with the front side radar sensor (A), this DTC is stored.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
U123587	Lost Communication with Cruise Control Front Distance Range Sensor Front Side "A" Missing Message	The front side radar sensor (B) does not receive communication from the front side radar sensor (A)	<ul style="list-style-type: none"> Front side radar sensor (A) Front side radar sensor (B) 	Front Side Radar "B"	A

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

- When checking for DTCs, make sure that the pre-collision system is turned on.
- After replacing the front side radar sensor, make sure to perform ECU writing.

[Click here](#) INFO

- After replacing the front side radar sensor, make sure to perform front side radar sensor beam axis alignment and clear all stored vehicle control history of each system.

HINT:

Front side radar sensor beam axis alignment can be performed by using "Triangle Target", "Driving Adjustment" or "ECU DATA SAVE/WRITE".

Triangle Target: INFO

Driving Adjustment: INFO

ECU DATA SAVE/WRITE: 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 FRONT SIDE RADAR SENSOR (A)
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Pre-procedure1

- (a) Disconnect the A42 front side radar sensor (B) connector.

Procedure1

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

Standard:



[Click Location & Routing\(A42\)](#)

[Click Connector\(A42\)](#)

TESTER CONNECTION	CONDITION	TOOL SETTING	SPECIFIED CONDITION
A42-5 (CA2P) - A42-6 (CA2N)	Ignition switch ON	1 V/DIV., 100 μs./DIV.	Pulse generation

Post-procedure1

- (c) Connect the A42 front side radar sensor (B) connector.

OK ▶ **REPLACE FRONT SIDE RADAR SENSOR (B)** INFO

NG ▶ **REPLACE FRONT SIDE RADAR SENSOR (A)** INFO

