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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: ADVANCED DRIVER ASSISTANCE SYSTEM: FRONT CAMERA SYSTEM: C10001C,....,C1A9500; Control Module Internal Temperature Sensor "A" Circuit Circuit Voltage Out of Range; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	C10001C	Control Module Internal Temperature Sensor "A" Circuit Circuit Voltage Out of Range
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DTC	C10051C	Control Module Internal Temperature Sensor "B" Circuit Circuit Voltage Out of Range
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DTC	C100A62	Control Module Internal Temperature Sensor A/B Correlation Signal Compare Failure
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DTC	C1A7F49	Front Recognition Camera ADC Internal Electronic Failure
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DTC	C1A9346	Main Microcomputer in Front Recognition Camera Calibration/Parameter Memory Failure
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DTC	C1A9447	Image Processing Microcomputer in Front Recognition Camera Watchdog/Safety MCU Failure
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DTC	C1A9500	Image Processing Module Malfunction in Front Recognition Camera
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DESCRIPTION

When an internal malfunction is detected in the forward recognition camera, these DTCs are stored.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
C10001C	Control Module Internal Temperature Sensor "A" Circuit Circuit Voltage Out of Range	A forward recognition camera internal malfunction is detected.	Forward recognition camera	Front Recognition Camera	A

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
C10051C	Control Module Internal Temperature Sensor "B" Circuit Voltage Out of Range	A forward recognition camera internal malfunction is detected.	Forward recognition camera	Front Recognition Camera	A
C100A62	Control Module Internal Temperature Sensor A/B Correlation Signal Compare Failure	A forward recognition camera internal malfunction is detected.	Forward recognition camera	Front Recognition Camera	A
C1A7F49	Front Recognition Camera ADC Internal Electronic Failure	A forward recognition camera internal malfunction is detected.	Forward recognition camera	Front Recognition Camera	A
C1A9346	Main Microcomputer in Front Recognition Camera Calibration/Parameter Memory Failure	A forward recognition camera internal malfunction is detected.	Forward recognition camera	Front Recognition Camera	A
C1A9447	Image Processing Microcomputer in Front Recognition Camera Watchdog/Safety MCU Failure	A forward recognition camera internal malfunction is detected.	Forward recognition camera	Front Recognition Camera	A
C1A9500	Image Processing Module Malfunction in Front Recognition Camera	A forward recognition camera internal malfunction is detected.	Forward recognition camera	Front Recognition Camera	A

CAUTION / NOTICE / HINT

NOTICE:

- When replacing the forward recognition camera, always replace it with a new one. If a forward recognition camera which was installed to another vehicle is used, the information stored in the forward recognition camera will not match the information from the vehicle and a DTC may be stored.
- When the forward recognition camera has been replaced with a new one, make sure to clear all stored vehicle control history of each system and the forward recognition camera beam axis alignment data.

HINT:

Forward recognition camera beam axis alignment can be performed by using "One Time Recognition", "Driving Adjustment" or "Camera Axis Adjustment Value Write".

One Time Recognition: [Click here](#) INFO

Driving Adjustment: [Click here](#) INFO

Camera Axis Adjustment Value Write: [Click here](#) INFO

- If the forward recognition camera has been replaced with a new one, make sure to perform Software Version Confirmation.

[Click here](#) 

PROCEDURE

1.	CHECK FOR DTCs
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Pre-procedure1

- (a) Turn the ignition switch off.
- (b) Turn the ignition switch to ON and wait 80 seconds or more.

Procedure1

- (c) Check for DTCs.

Chassis > Front Recognition Camera > Trouble Codes

RESULT	PROCEED TO
DTCs are not output	A
DTCs are output	B

Post-procedure1

- (d) None

A  **USE SIMULATION METHOD TO CHECK**

B  **REPLACE FORWARD RECOGNITION CAMERA** 

