Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000028P3N
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE SYSTEM: C13B516; Electric Parking Brake Actuator Supply Voltage Circuit Voltage Below Threshold; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	**C13B516**	**Electric Parking Brake Actuator Supply Voltage Circuit Voltage Below Threshold**

DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE
C13B516	Electric Parking Brake Actuator Supply Voltage Circuit Voltage Below Threshold	• Diagnosis Condition: Ignition switch ON or electric parking brake switch assembly pulled to lock side with ignition switch off. • Malfunction Status: Voltage at terminal +BS is less than 6 V* • Detection Time: Approximately 0.5 seconds **HINT:** *: When the auxiliary battery voltage is 12 V.	• Wire harness and connector • No. 2 skid control ECU (brake actuator assembly)	DTC stored	Brake/EPB	A	An electric parking brake system malfunction is displayed on the multi-information display.

DTC Detection Conditions: C13B516

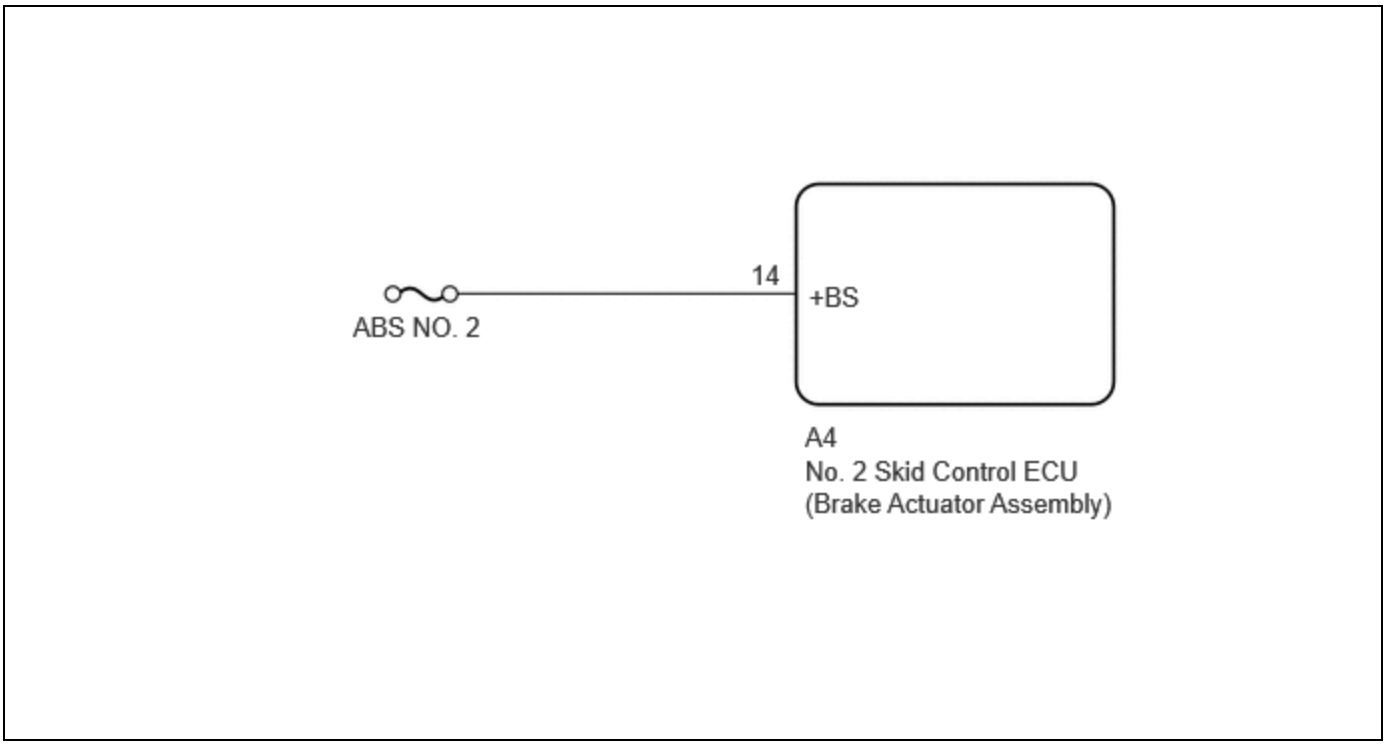
		VEHICLE CONDITION	
		PATTERN 1	PATTERN 2
Diagnosis Condition	Ignition switch ON	○	-
	Electric parking brake switch assembly pulled to lock side with ignition switch off	-	○

		VEHICLE CONDITION	
		PATTERN 1	PATTERN 2
Malfunction Status	Voltage at terminal +BS is less than 6 V* **HINT:** *: When the auxiliary battery voltage is 12 V.	○	○
Detection Time		Approximately 0.5 seconds	Approximately 0.5 seconds
Number of Trips		1 trip	1 trip

HINT:

DTC will be stored when conditions for either of the patterns in the table above are met.

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

Inspect the fuses for circuits related to this system before performing the following procedure.

PROCEDURE

1.	**CHECK HARNESS AND CONNECTOR (+BS TERMINAL VOLTAGE)**

Pre-procedure1

(a) Disconnect the A4 No. 2 skid control ECU (brake actuator assembly) connector.

Procedure1

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

Standard Voltage:

EWD INFO

Click Location & Routing(A4)
Click Connector(A4)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A4-14 (+BS) - Body ground	Ignition switch off	11 to 14 V	V

Post-procedure1

(c) None

OK ▶ **REPLACE NO. 2 SKID CONTROL ECU (BRAKE ACTUATOR ASSEMBLY)** INFO

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