Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000028P3G
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE SYSTEM: C060E2A; Left Electric Parking Brake Actuator Signal Stuck In Range; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	**C060E2A**	**Left Electric Parking Brake Actuator Signal Stuck In Range**

DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE
C060E2A	Left Electric Parking Brake Actuator Signal Stuck In Range	• Diagnosis Condition: Electric parking brake operating • Malfunction Status: Motor locked, gear locked, free spinning • Detection Time: -	• Parking brake actuator assembly LH • No. 2 parking brake wire assembly • Wire harness and connector • Rear brake LH	DTC stored	Brake/EPB	B	An electric parking brake system malfunction is displayed on the multi-information display.

DTC Detection Conditions

		VEHICLE CONDITION		
		PATTERN 1	PATTERN 2	PATTERN 3
Diagnosis Condition	Electric parking brake operating	○	○	○
Malfunction Status	Motor lock detected	○	-	-
	Gear lock detected	-	○	-
	Free spinning detected	-	-	○
Detection Time		-	-	-
Number of Trips		1 trip	1 trip	1 trip

WIRING DIAGRAM

Click here INFO

CAUTION / NOTICE / HINT

NOTICE:

- Although DTC C060E2A may be stored after entering pad replacement mode, this is not a malfunction.
- Although DTC C060E2A may be stored after forcibly releasing the parking brake, this is not a malfunction.

PROCEDURE

1.	**CHECK DTC**

(a) Using the GTS, check for DTCs other than DTC C060E2A.

Chassis > Brake/EPB > Trouble Codes

RESULT	PROCEED TO
Only C060E2A is output	A
C060E2A and other DTCs are output	B

B ▶ **GO TO DIAGNOSTIC TROUBLE CODE CHART**

A ▼

2.	**INSPECT NO. 2 PARKING BRAKE WIRE ASSEMBLY**

Pre-procedure1

(a) Turn the ignition switch off.

Procedure1

(b) Make sure that there is no looseness at the locking part and the connecting part of the connectors.

OK:
The connector is securely connected.

Pre-procedure2

(c) Disconnect the rR3 and r3 No. 2 parking brake wire assembly connectors.

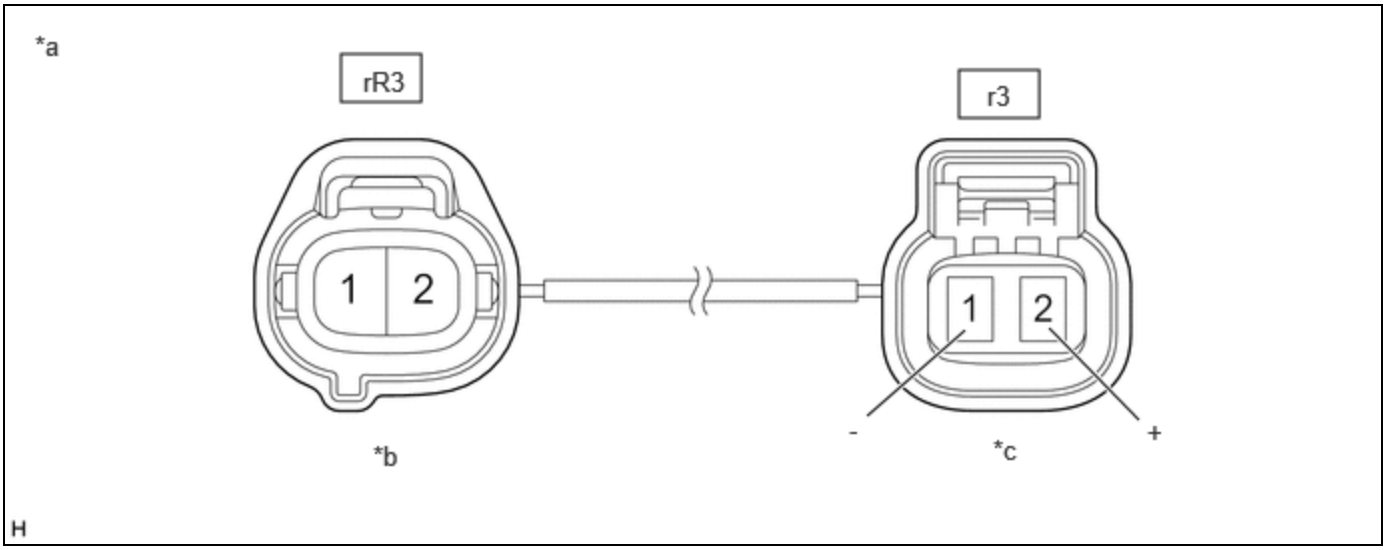
Procedure2

(d) Check both the connector case and the terminals for deformation and corrosion.

OK:
No deformation or corrosion.

Procedure3

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



*a	Front view of No. 2 Parking Brake Wire Assembly	*b	to wire harness connector
*c	to Parking Brake Actuator Assembly LH	-	-

Standard Resistance:

EWD INFO

Click Location & Routing(rR3,r3)
Click Connector(rR3)
Click Connector(r3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
rR3-1 - r3-2 (+)	Always	Below 1 Ω	Ω
rR3-1 or r3-2 (+) - Body ground and other terminals	Always	10 kΩ or higher	kΩ
rR3-2 - r3-1 (-)	Always	Below 1 Ω	Ω
rR3-2 or r3-1 (-) - Body ground and other terminals	Always	10 kΩ or higher	kΩ

Post-procedure1

(f) None

NG ▶ **REPLACE NO. 2 PARKING BRAKE WIRE ASSEMBLY**

OK ▼

3.	**CHECK HARNESS AND CONNECTOR (NO. 2 SKID CONTROL ECU (BRAKE ACTUATOR ASSEMBLY) - PARKING BRAKE ACTUATOR ASSEMBLY LH)**

Pre-procedure1

(a) Turn the ignition switch off.

(b) Make sure the No. 2 parking brake wire assembly is securely installed.

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

(d) Disconnect the r3 parking brake actuator assembly LH connector.

Procedure1

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

Standard Resistance:

EWD INFO

Click Location & Routing(A4,r3)
Click Connector(A4)
Click Connector(r3)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A4-3 (MRL+) - r3-2 (+)	Always	Below 1 Ω	Ω
A4-2 (MRL-) - r3-1 (-)	Always	Below 1 Ω	Ω
A4-3 (MRL+) or r3-2 (+) - Body ground	Always	10 kΩ or higher	kΩ
A4-2 (MRL-) or r3-1 (-) - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(f) None

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

OK ▼

4.	**INSPECT REAR BRAKE AND PARKING BRAKE ACTUATOR ASSEMBLY LH (CHECK FOR ROTATING PARTS THAT ARE STUCK AND FOR FREE SPINNING ACTUATORS)**

Pre-procedure1

(a) Enter rear brake pad replacement mode.

HINT:

Click here INFO

(b) Turn the ignition switch off.

Procedure1

(c) Check that the rotating parts are not seized or the actuator is not spinning freely.

(1) Check that the parking brake actuator assembly LH is installed properly to the rear brake caliper and that it is not spinning freely.

HINT:

For the parking brake actuator assembly LH removal procedure: Click here INFO

(2) Check that there is no damage to the rotating parts from the parking brake actuator assembly LH to the rear brake caliper.

(3) Inspect the parking brake actuator assembly LH and check that it operates correctly.

HINT:

Click here INFO

(4) Check that the rear brake caliper threaded part rotates and that the rear disc brake piston moves outward.

HINT:

For the check procedures, refer to the parking brake forced release method when not using the GTS.

Click here INFO

RESULT	PROCEED TO
Parking brake actuator assembly LH is malfunctioning	A
Other than parking brake actuator assembly LH is malfunctioning	B

Post-procedure1

(d) Return to normal mode after work is complete.

HINT:

Click here INFO

A ▶ **REPLACE PARKING BRAKE ACTUATOR ASSEMBLY LH**

B ▶ **REPAIR OR REPLACE ABNORMAL PARTS**