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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARKING BRAKE: ELECTRIC PARKING BRAKE SYSTEM: C060E19; Left Electric Parking Brake Actuator Circuit Current Above Threshold; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	C060E19	Left Electric Parking Brake Actuator Circuit Current Above Threshold
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DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE
C060E19	Left Electric Parking Brake Actuator Circuit Current Above Threshold	When the electric parking brake is operating, overcurrent is detected in the parking brake actuator assembly LH 3 times.	<ul style="list-style-type: none"> Parking brake actuator assembly LH No. 2 parking brake wire assembly 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.

WIRING DIAGRAM

Click here [INFO](#)

PROCEDURE

1.	INSPECT NO. 2 PARKING BRAKE WIRE ASSEMBLY
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Procedure1

(a) 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-procedure1

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

Procedure2

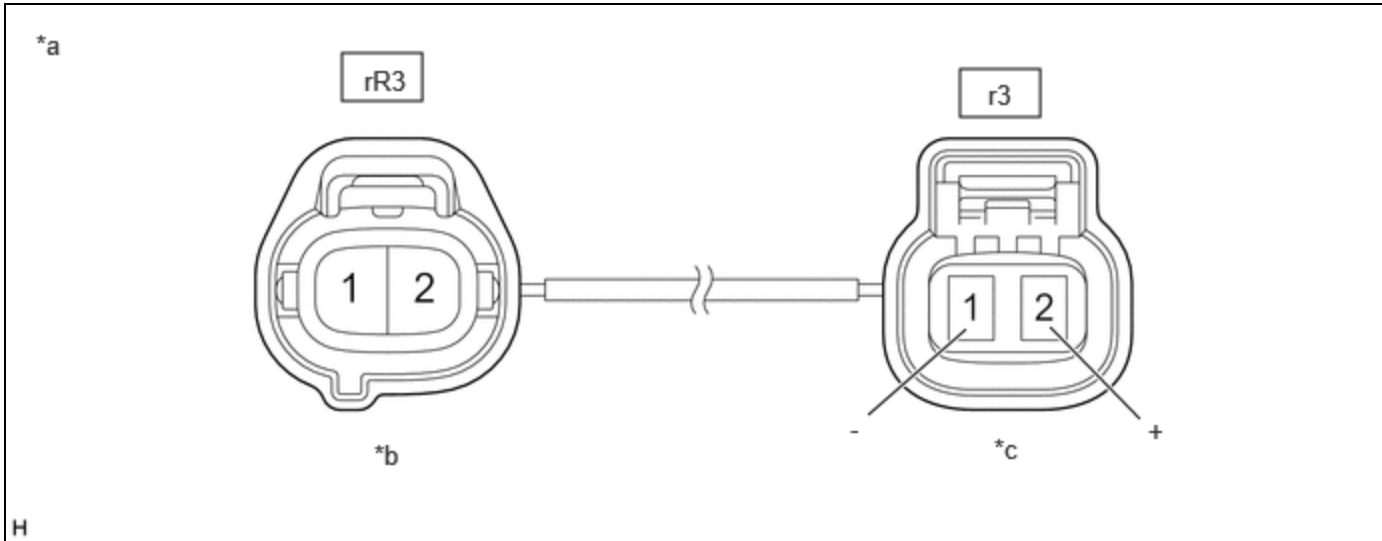
(c) Check both the connector case and the terminals for deformation and corrosion.

OK:

No deformation or corrosion.

Procedure3

(d) 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:



[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

(e) None

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

OK

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

Pre-procedure1

- (a) Make sure the No. 2 parking brake wire assembly is securely installed.
- (b) Disconnect the A4 No. 2 skid control ECU (brake actuator assembly) connector.
- (c) Disconnect the r3 parking brake actuator assembly LH connector.

Procedure1

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

Standard Resistance:

[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
A4-3 (MRL+) or r3-2 (+) - Body ground	Always	10 k Ω or higher	k Ω
A4-2 (MRL-) - r3-1 (-)	Always	Below 1 Ω	Ω
A4-2 (MRL-) or r3-1 (-) - Body ground	Always	10 k Ω or higher	k Ω

Post-procedure1

- (e) None

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR****OK****3.****INSPECT PARKING BRAKE ACTUATOR ASSEMBLY LH**

Click here

NG **REPLACE PARKING BRAKE ACTUATOR ASSEMBLY LH**

OK
▼

4.	CHECK FOR SHORT TO +B
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Pre-procedure1

- (a) Turn the ignition switch off.
- (b) Make sure the No. 2 parking brake wire assembly is securely installed.
- (c) Disconnect the r3 parking brake actuator assembly LH connector.

Procedure1

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

Standard Voltage:



[Click Location & Routing\(r3\).](#)

[Click Connector\(r3\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
r3-2 (+) - r3-1 (-)	Electric parking brake not operating	Below 1 V	V

Post-procedure1

- (e) None

OK ► **REPLACE PARKING BRAKE ACTUATOR ASSEMBLY LH**

NG
▼

5.	CHECK FOR SHORT TO +B
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Pre-procedure1

- (a) Disconnect the rR3 No. 2 parking brake wire assembly connector.

Procedure1

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

Standard Voltage:

EWD INFO

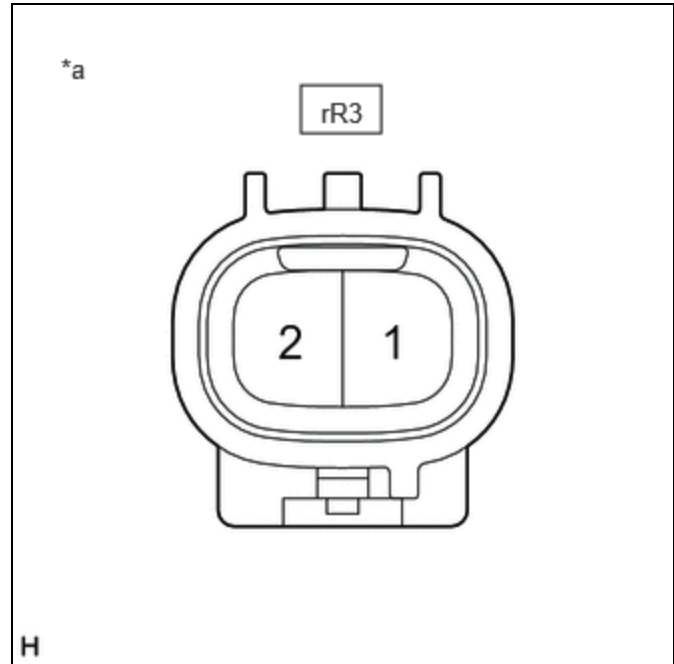
[Click Location & Routing\(rR3\)](#)

[Click Connector\(rR3\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
rR3-1 - rR3-2	Electric parking brake not operating	Below 1 V	V

Result:

PROCEED TO
OK
NG



*a Front view of wire harness connector (to No. 2 Parking Brake Wire Assembly)

Post-procedure1

(c) None

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

NG



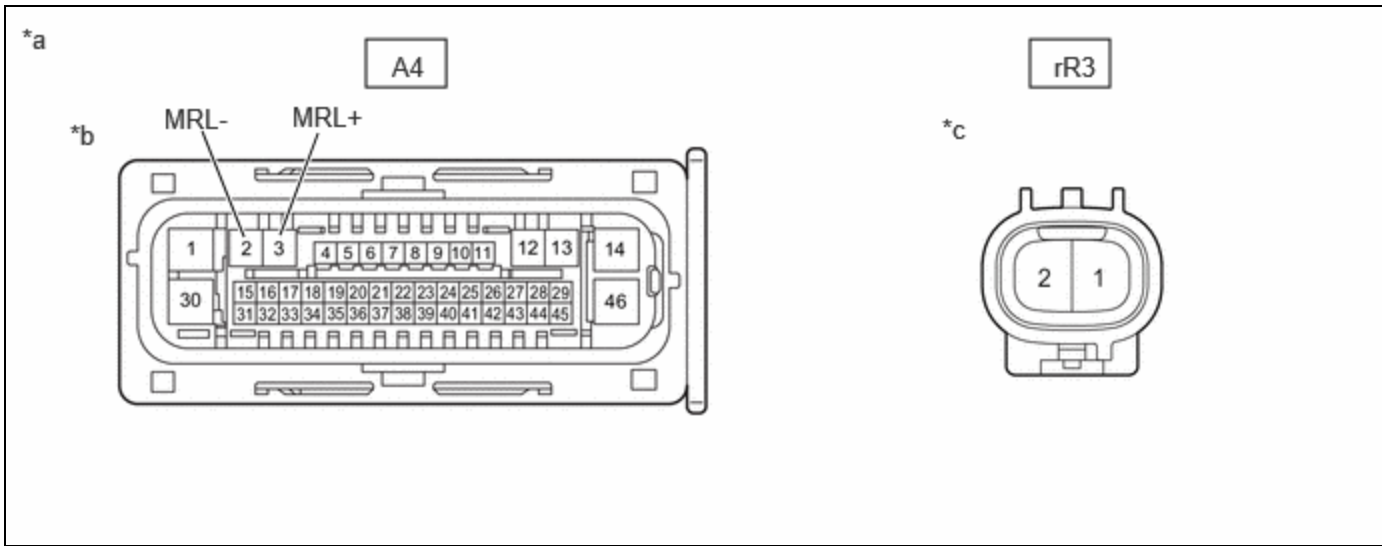
6.	CHECK FOR SHORT TO +B
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Pre-procedure1

- (a) Disconnect the rR3 No. 2 parking brake wire assembly connector.
- (b) Disconnect the A4 No. 2 skid control ECU (brake actuator assembly) connector.

Procedure1

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



*a	Front view of wire harness connector	*b	to No. 2 Skid Control ECU (Brake Actuator Assembly)
*c	to No. 2 Parking Brake Wire Assembly	-	-

Standard Voltage:



[Click Location & Routing\(rR3,A4\)](#)

[Click Connector\(rR3\)](#)

[Click Connector\(A4\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
rR3-1 or A4-3 (MRL+) - Body ground	Always	Below 1 V	V
rR3-2 or A4-2 (MRL-) - Body ground	Always	Below 1 V	V

Post-procedure1

(d) None

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

NG ▶ REPAIR OR REPLACE HARNESS OR CONNECTOR

