Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000028X2G
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: ELECTRONICALLY CONTROLLED BRAKE SYSTEM: P253014; Ignition Switch Run Position Circuit Short to Ground or Open; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	**P253014**	**Ignition Switch Run Position Circuit Short to Ground or Open**

DESCRIPTION

If a malfunction is detected in the power supply circuit, the No. 2 skid control ECU (brake actuator assembly) power source voltage drops, or there is insufficient voltage to operate the main relay, the No. 2 skid control ECU (brake actuator assembly) will store these DTCs.

If the auxiliary battery voltage is temporarily low, this DTC may be stored.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	DTC OUTPUT FROM	PRIORITY	NOTE
P253014	Ignition Switch Run Position Circuit Short to Ground or Open	When communication with the hybrid vehicle control ECU is normal or the vehicle speed is 10 km/h (6 mph) or more, and the IG1 terminal voltage is 9.5 V or more, the IG2 terminal voltage is less than 3 V for 4 seconds or more.	• Open or short in IG2 circuit • Improperly connected connector, deformation or corrosion of terminals • No. 2 skid control ECU (brake actuator assembly)	Does not come on	Brake/EPB	A	Output ECU: No. 2 skid control ECU (brake actuator assembly)

WIRING DIAGRAM

Refer to DTC C137BA2.

Click here INFO

CAUTION / NOTICE / HINT

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following procedure.
- Before performing troubleshooting, make sure to confirm that the auxiliary battery voltage is normal.

Click here INFO

PROCEDURE

1.	CHECK HARNESS AND CONNECTOR (IG2 TERMINAL)

Procedure1

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

OK:
The connector is securely connected.

Pre-procedure1

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

Procedure2

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

OK:
No deformation or corrosion.

Pre-procedure2

(d) Turn the ignition switch to ON.

Procedure3

(e) 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	SWITCH CONDITION	SPECIFIED CONDITION	RESULT
A4-15 (IG2) - Body ground	Ignition switch ON	11 to 14 V	V

Post-procedure1

(f) None

OK ▶ **REPLACE BRAKE ACTUATOR ASSEMBLY** INFO

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