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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: POWER DISTRIBUTION: SUB BATTERY SYSTEM: P177062; Door Lock Switch / Curtesy Switch Signal Compare Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	P177062	Door Lock Switch / Curtesy Switch Signal Compare Failure
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DESCRIPTION

Detects the exit of occupants from the vehicle after a power source malfunction in order to provide backup control when an auxiliary battery power source malfunction occurs.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY
P177062	Door Lock Switch / Curtesy Switch Signal Compare Failure	When the CAN signal and voltage at the DRO1 terminal are being monitored and the CAN signal indicates that the driver door is open, but the DRO1 terminal indicates that the door is closed, and the signal continues to be received for 5 seconds.	<ul style="list-style-type: none"> Integrated capacitor (integration control supply) Front door lock with motor assembly LH (door courtesy switch) Harness or connector 	User informed: Yes	Sub Battery System	A

CHECK FOR DTCs

- Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
- Turn the ignition switch off and wait 6 minutes or more. (A)
- Turn the ignition switch to ON. (B)
- Turn the GTS on. (C)
- Wait for 10 seconds or more. (D)
- Read the DTCs. (E)

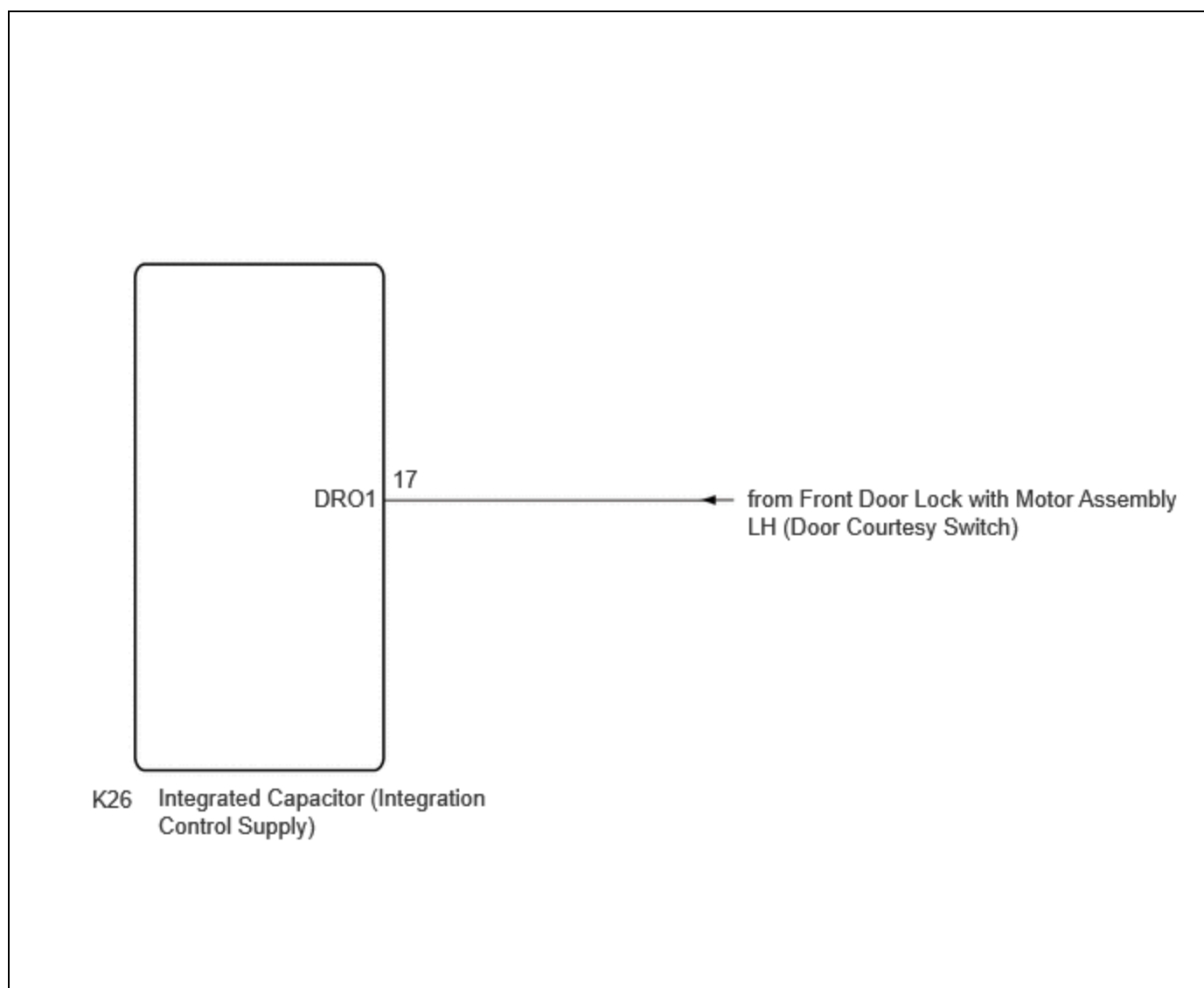
HINT:

- If a DTC is output, the system is malfunctioning.
 - If a DTC is not output, perform the following procedure.
- Enter the following menus: Body Electrical / Sub Battery System / Utility / All Readiness. (F)
 - Enter the DTC to be checked. (G)
 - Check the DTC judgment result. (H)

HINT:

- If the judgment result is NORMAL, the system is normal.
- If the judgment result is ABNORMAL, the system is malfunctioning.
- If the judgment result is INCOMPLETE, perform steps (A) through (H) again.

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

- When removing/installing the transmission floor shift assembly (shift control ECU)/shift control actuator assembly (shift actuator ECU) or disconnecting/connecting connectors, make sure there is no power* supplied.

*: Auxiliary battery, sub battery, integrated capacitor (integration control supply), etc.

- Before removing and installing the integrated capacitor (integration control supply), make sure the cable is disconnected from the negative (-) auxiliary battery terminal after 5 minutes or more has elapsed since the ignition switched was turned off.
- Before performing troubleshooting, check the state of fuses and connectors of this circuit, and contact voltage of respective terminals.

PROCEDURE

1.	CHECK FOR DTC
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(a) Check for DTCs.

Body Electrical > Sub Battery System > Trouble Codes

RESULT	PROCEED TO
P177062 is output	A
P177062 is not output	B

B ► **USE SIMULATION METHOD TO CHECK**

A
▼

2.	CHECK HARNESS AND CONNECTOR (INTEGRATED CAPACITOR (INTEGRATION CONTROL SUPPLY) - FRONT DOOR LOCK WITH MOTOR ASSEMBLY LH (DOOR COURTESY SWITCH))
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Pre-procedure1

(a) Disconnect the K26 integrated capacitor (integration control supply) connector.

Procedure1

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

Standard Voltage:



[Click Location & Routing\(K26\).](#)

[Click Connector\(K26\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K26-17 (DRO1) - Body ground	Ignition switch ON and driver door closed	10 V or higher	V

Post-procedure1

(c) None

OK ► **REPLACE INTEGRATED CAPACITOR (INTEGRATION CONTROL SUPPLY)** INFO

NG ► **REPAIR OR REPLACE HARNESS OR CONNECTOR (INTEGRATED CAPACITOR (INTEGRATION CONTROL SUPPLY) - FRONT DOOR LOCK WITH MOTOR ASSEMBLY LH (DOOR COURTESY SWITCH))**

