Last Modified: 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM1000000290C4		
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 - ]		
Title: THEFT DETERRENT / KEYLESS ENTRY: DIGITAL KEY SYSTEM: B27C687; Front Floor BLE Antenna Missing				
Message; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]				

DTC	B27C687	Front Floor BLE Antenna Missing Message	
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# **DESCRIPTION**

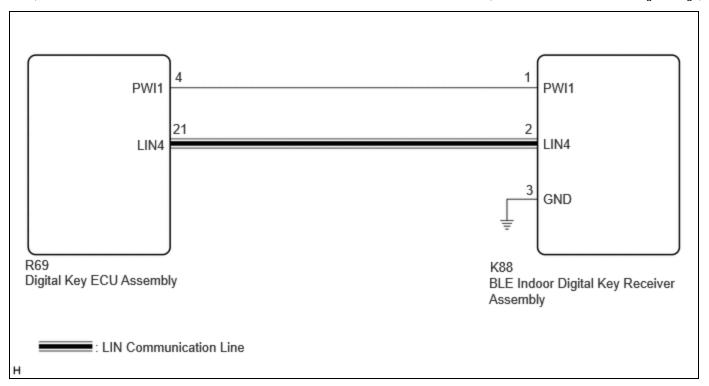
This DTC is stored when a LIN communication malfunction between the digital key ECU assembly and BLE indoor digital key receiver assembly is detected.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY	NOTE
B27C687	Front Floor BLE Antenna Missing Message	LIN communication malfunction between the digital key ECU assembly and BLE indoor digital key receiver assembly	l digital kev	Smart Key		DTC Output Confirmation Operation: Any time

#### **Vehicle Condition and Fail-safe Operation when Malfunction Detected**

VEHICLE CONDITION WHEN MALFUNCTION DETECTED	FAIL-SAFE OPERATION WHEN MALFUNCTION DETECTED
The digital key is on the center console near the vehicle interior BLE digital key receiver.	_
Power source mode does not change	

# **WIRING DIAGRAM**



### **CAUTION / NOTICE / HINT**

#### **NOTICE:**

• Before replacing the digital key ECU assembly or BLE indoor digital key receiver assembly, refer to Registration.

Click here

• Cancel power saving mode before performing troubleshooting.

Click here NFO

### **PROCEDURE**

# 1. CHECK CONNECTOR CONNECTION

(a) Check that the connectors are properly connected to the digital key ECU assembly and BLE indoor digital key receiver assembly.

OK:

Connectors are properly connected.

NG > CONNECT CONNECTORS PROPERLY



2. K

# CHECK HARNESS AND CONNECTOR (DIGITAL KEY ECU ASSEMBLY - BLE INDOOR DIGITAL KEY RECEIVER ASSEMBLY - BODY GROUND)

Pre-procedure1

- (a) Disconnect the R69 digital key ECU assembly connector.
- (b) Disconnect the K88 BLE indoor digital key receiver assembly connector.

Procedure1

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

Standard Resistance:



Click Location & Routing(R69,K88)

**Click Connector(R69)** 

**Click Connector(K88)** 

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
R69-4 (PWI1) - K88-1 (PWI1)	Always	Below 1 Ω	Ω
R69-4 (PWI1) or K88-1 (PWI1) - Other terminals and body ground	Always	10 kΩ or higher	kΩ
R69-21 (LIN4) - K88-2 (LIN4)	Always	Below 1 Ω	Ω
R69-21 (LIN4) or K88-2 (LIN4) - Other terminals and body ground	Always	10 kΩ or higher	kΩ
K88-3 (GND) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

(d) Connect the R69 digital key ECU assembly connector.





### 3. REPLACE BLE INDOOR DIGITAL KEY RECEIVER ASSEMBLY

(a) Replace the BLE indoor digital key receiver assembly with a new one or used one.

#### HINT:

Click here



4.	CLEAR DTC	
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(a) Clear the DTCs.

**Body Electrical > Smart Key > Clear DTCs** 

N	EX.	I
-	_	

5.	CHECK DTC
_	HCHECK DIC

(a) Check for DTCs.

#### **Body Electrical > Smart Key > Trouble Codes**

RESULT	PROCEED TO		
B27C687 is not output	А		
B27C687 is output	В		

A END (BLE INDOOR DIGITAL KEY RECEIVER ASSEMBLY WAS DEFECTIVE)





