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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> CELLULAR COMMUNICATION: SAFETY CONNECT SYSTEM: B153711,B153713; Telephone Sub Antenna Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>B153711</b>	<b>Telephone Sub Antenna Circuit Short to Ground</b>
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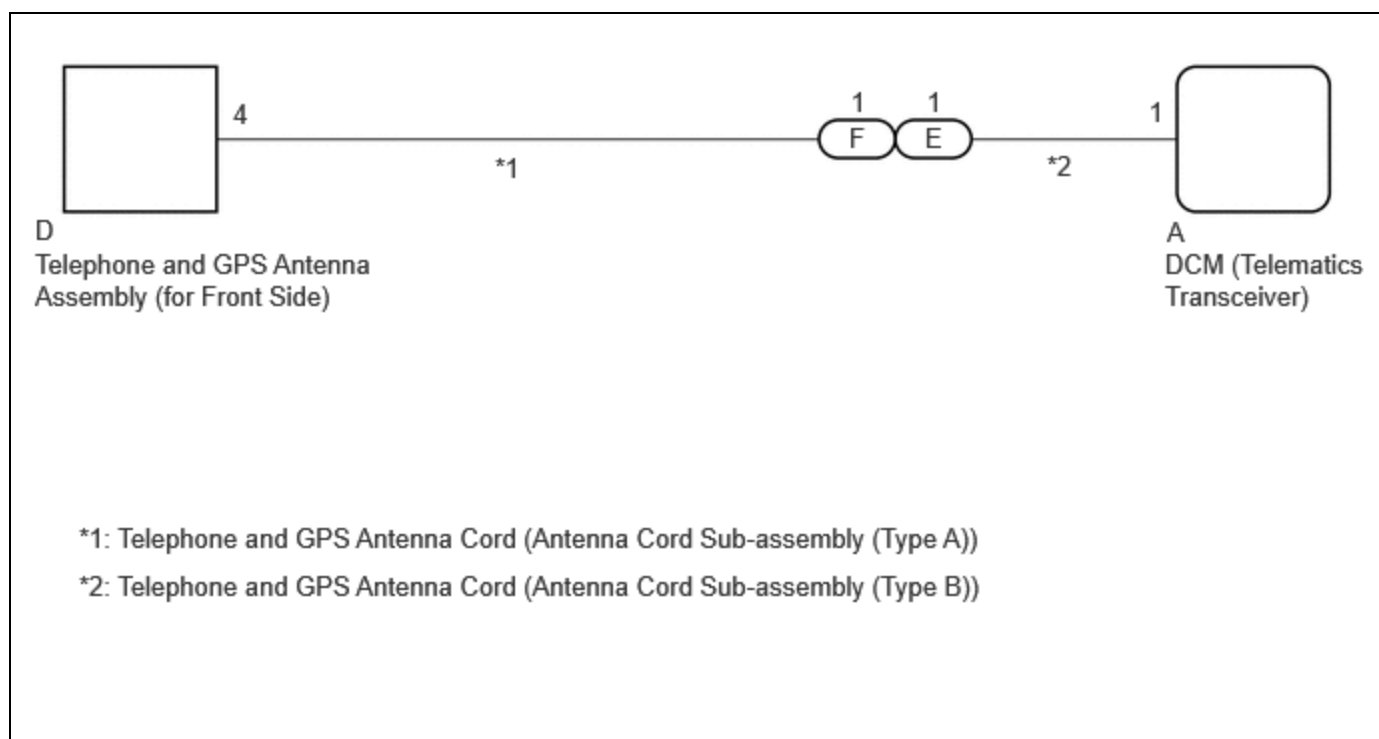
<b>DTC</b>	<b>B153713</b>	<b>Telephone Sub Antenna Circuit Open</b>
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## DESCRIPTION

These DTCs are stored when a malfunction occurs in the telephone and GPS antenna assembly (for Front Side).

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B153711	Telephone Sub Antenna Circuit Short to Ground	Telephone antenna (sub) impedance ( $\Omega$ ) is lower than the malfunction threshold for 10 seconds or more when the ignition switch is ON  (Short circuit)	<ul style="list-style-type: none"> <li>DCM (telematics transceiver)</li> <li>Telephone and GPS antenna assembly (for Front Side)</li> <li>Telephone and GPS antenna cord (antenna cord sub-assembly (for Type A))</li> <li>Telephone and GPS antenna cord (antenna cord sub-assembly (for Type B))</li> </ul>	Telematics	A
B153713	Telephone Sub Antenna Circuit Open	Telephone antenna (sub) impedance ( $\Omega$ ) is higher than the malfunction threshold for 10 seconds or more when the ignition switch is ON  (Open circuit)	<ul style="list-style-type: none"> <li>DCM (telematics transceiver)</li> <li>Telephone and GPS antenna assembly (for Front Side)</li> <li>Telephone and GPS antenna cord (antenna cord sub-assembly (for Type A))</li> <li>Telephone and GPS antenna cord (antenna cord sub-assembly (for Type B))</li> </ul>	Telematics	A

## WIRING DIAGRAM



## CAUTION / NOTICE / HINT

### NOTICE:

Depending on the parts that are replaced during vehicle inspection or maintenance, performing initialization, registration or calibration may be needed. Refer to Precaution for Safety Connect System.

Click here [INFO](#)

### HINT:

Refer to "PARTS LOCATION" for the installation location of telephone and GPS antenna cord.

Click here [INFO](#)

## PROCEDURE

<b>1.</b>	<b>CLEAR DTC</b>
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(a) Turn the ignition switch to ON and wait for 10 seconds or more.

(b) Clear the DTCs.

**Body Electrical > Telematics > Clear DTCs**

### NEXT



<b>2.</b>	<b>CHECK DTC</b>
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Pre-procedure1

(a) Turn the ignition switch to ON and wait for 10 seconds or more.

Procedure1

(b) Check for DTCs and check that no DTCs are output.

**Body Electrical > Telematics > Trouble Codes**

OK:

No DTCs are output.

RESULT	PROCEED TO
B153711 or B153713 is not output	A
B153711 or B153713 is output	B

Post-procedure1

(c) None

**A**  **USE SIMULATION METHOD TO CHECK**

**B**



<b>3.</b>	<b>INSPECT TELEPHONE AND GPS ANTENNA ASSEMBLY (for Front Side)</b>
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Pre-procedure1

(a) Disconnect the telephone and GPS antenna assembly (for Front Side) connector.

**HINT:**

[Click here](#) 

Procedure1

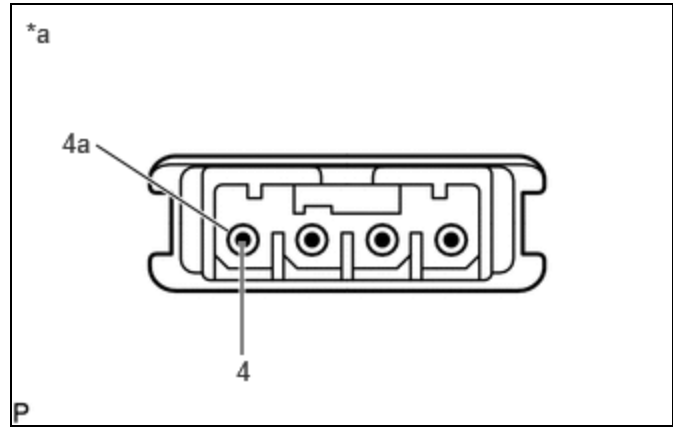
(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
4 - 4a	Always	9 to 11 kΩ	kΩ

Result:

PROCEED TO
OK
NG



*a	Component without harness connected (Telephone and GPS Antenna Assembly (for Front Side))
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Post-procedure1

(c) None

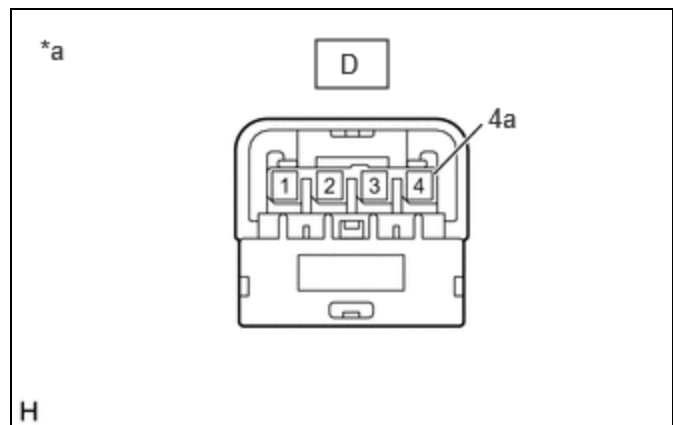
**NG** ▶ **REPLACE TELEPHONE AND GPS ANTENNA ASSEMBLY (for Front Side)** INFO

**OK**  
▼

<b>4.</b>	<b>INSPECT TELEPHONE AND GPS ANTENNA CORD (ANTENNA CORD SUB-ASSEMBLY (for Type A))</b>
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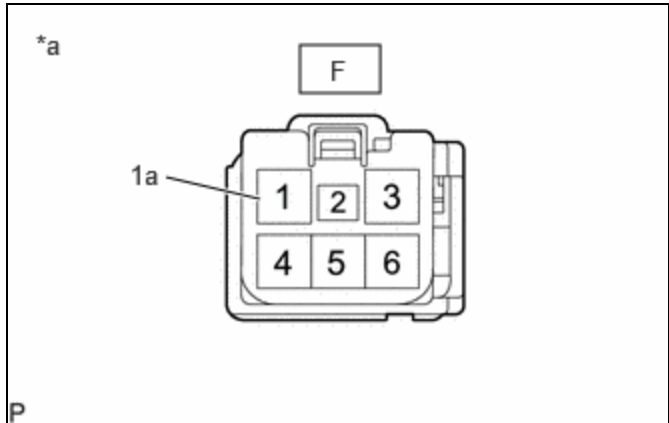
Pre-procedure1

(a) Disconnect the D telephone and GPS antenna cord (antenna cord sub-assembly (for Type A)) connector.



*a	Component without harness connected
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(Telephone and GPS Antenna Cord (Antenna Cord Sub-assembly (for Type A)))



\*a Component without harness connected (Telephone and GPS Antenna Cord (Antenna Cord Sub-assembly (for Type A)))

(b) Disconnect the F telephone and GPS antenna cord (antenna cord sub-assembly (for Type A)) connector.

Procedure1

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
D-4 - F-1	Always	Below 1 Ω	Ω
D-4a - F-1a	Always	Below 1 Ω	Ω
D-4 or F-1 - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

**NG** **REPLACE ANTENNA CORD SUB-ASSEMBLY (ANTENNA CORD SUB-ASSEMBLY (for Type A))**

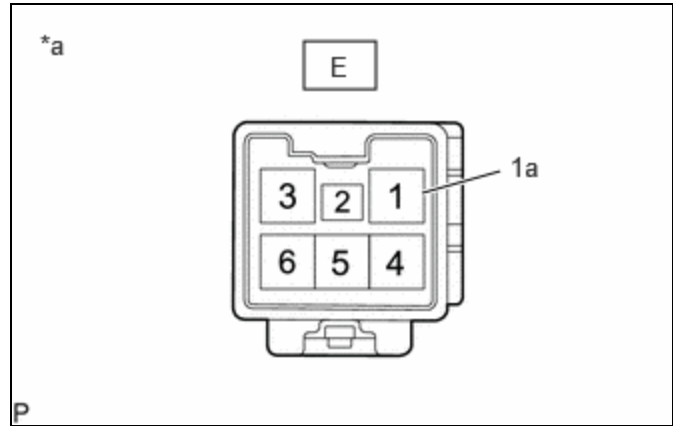
**OK**



**5. INSPECT TELEPHONE AND GPS ANTENNA CORD (ANTENNA CORD SUB-ASSEMBLY (for Type B))**

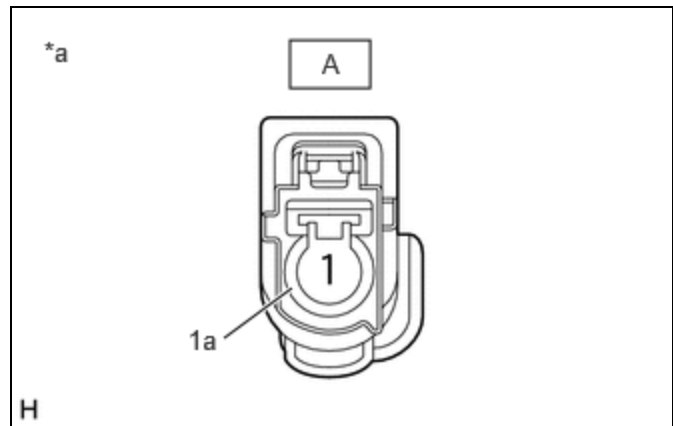
Pre-procedure1

(a) Disconnect the E telephone and GPS antenna cord (antenna cord sub-assembly (for Type B)) connector.



*a	Component without harness connected (Telephone and GPS Antenna Cord (Antenna Cord Sub-assembly (for Type B)))
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(b) Disconnect the A telephone and GPS antenna cord (antenna cord sub-assembly (for Type B)) connector.



*a	Component without harness connected (Telephone and GPS Antenna Cord (Antenna Cord Sub-assembly (for Type B)))
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Procedure1

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
E-1 - A-1	Always	Below 1 Ω	Ω
E-1a - A-1a	Always	Below 1 Ω	Ω
E-1 or A-1 - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

**NG** ▶ **REPLACE TELEPHONE AND GPS ANTENNA CORD  
(ANTENNA CORD SUB-ASSEMBLY (for Type B))****OK****6. REPLACE DCM (TELEMATICS TRANSCEIVER)**

(a) Replace the DCM (telematics transceiver) with a new one.

**HINT:**

Click here 

**NOTICE:**

- The ignition switch must be off.
- Do not exchange the DCM (telematics transceiver) with one from another vehicle.

**NEXT** ▶ **PERFORM DCM ACTIVATION**