

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028U0X
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: CELLULAR COMMUNICATION: SAFETY CONNECT SYSTEM: B15CB11,B15CB13; Telephone Main Antenna Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B15CB11	Telephone Main Antenna Circuit Short to Ground
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DTC	B15CB13	Telephone Main Antenna Circuit Open
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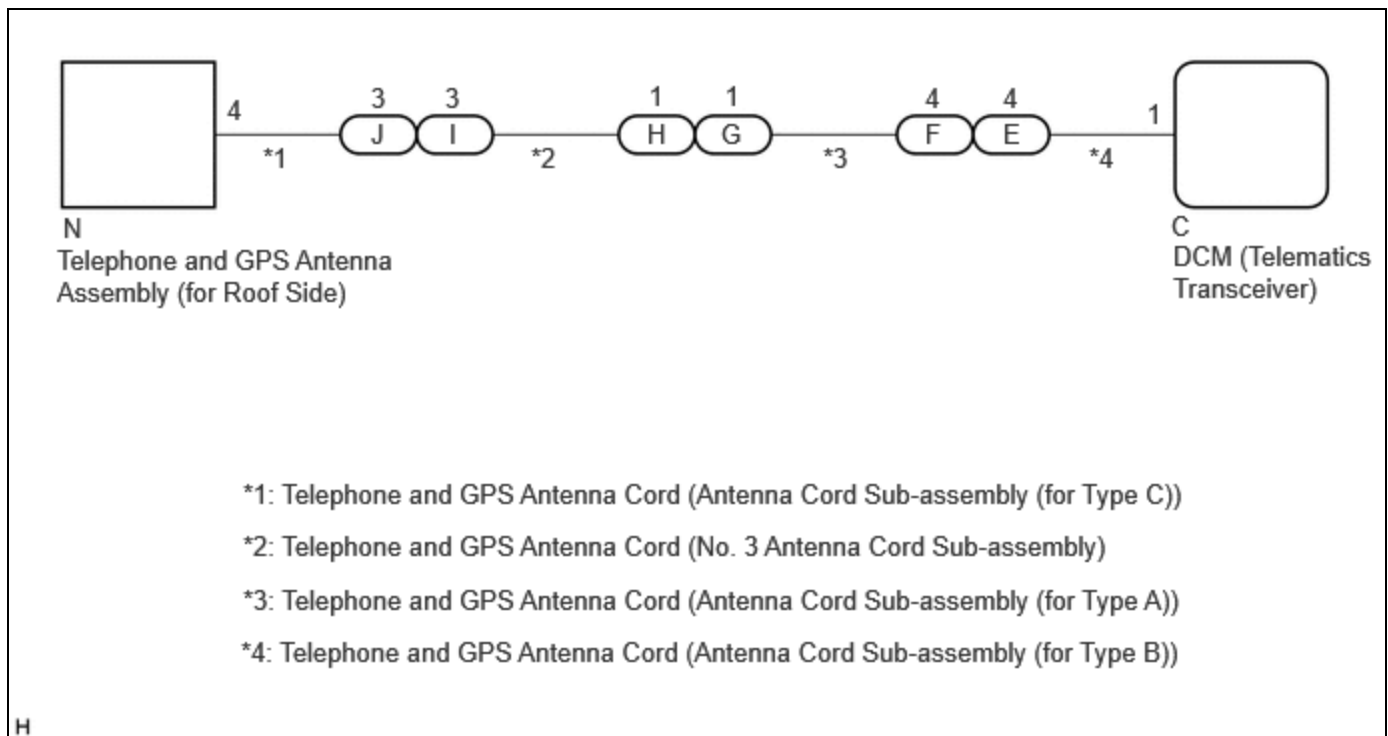
DESCRIPTION

This DTC is stored when the DCM (telematics transceiver) detects an open or a short in the telephone antenna (main) circuit.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B15CB11	Telephone Main Antenna Circuit Short to Ground	Telephone antenna (main) impedance (Ω) 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"> Telephone and GPS antenna assembly (for Roof Side) Telephone and GPS antenna cord (Antenna cord sub-assembly (for Type C)) Telephone and GPS antenna cord (No. 3 antenna cord sub-assembly) Telephone and GPS antenna cord (Antenna cord sub-assembly (for Type A)) Telephone and GPS antenna cord (Antenna cord sub-assembly (for Type B)) DCM (telematics transceiver) 	Telematics	A

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B15CB13	Telephone Main Antenna Circuit Open	Telephone antenna (main) impedance (Ω) 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"> Telephone and GPS antenna assembly (for Roof Side) Telephone and GPS antenna cord (Antenna cord sub-assembly (for Type C)) Telephone and GPS antenna cord (No. 3 antenna cord sub-assembly) Telephone and GPS antenna cord (Antenna cord sub-assembly (for Type A)) Telephone and GPS antenna cord (Antenna cord sub-assembly (for Type B)) DCM (telematics transceiver) 	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

1.	CLEAR DTC
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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



2.	CHECK DTC
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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
B15CB11 or B15CB13 is not output	A
B15CB11 or B15CB13 is output	B

Post-procedure1

(c) None

A **USE SIMULATION METHOD TO CHECK**

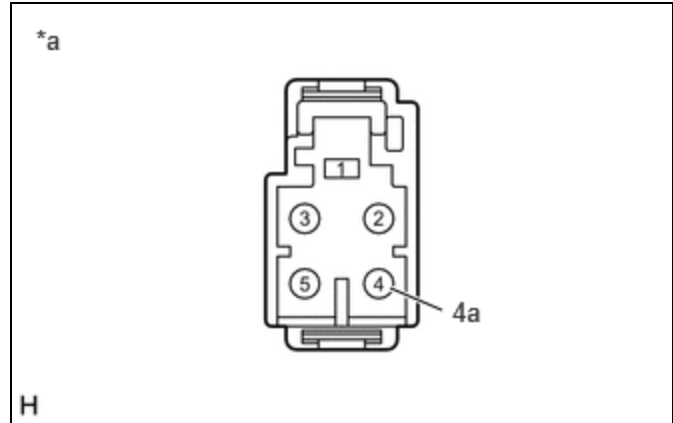
B



3. INSPECT TELEPHONE AND GPS ANTENNA ASSEMBLY (for Roof Side)

Pre-procedure1

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



*a	Component without harness connected (Telephone and GPS Antenna Assembly (for Roof Side))
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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

Post-procedure1

(c) None

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

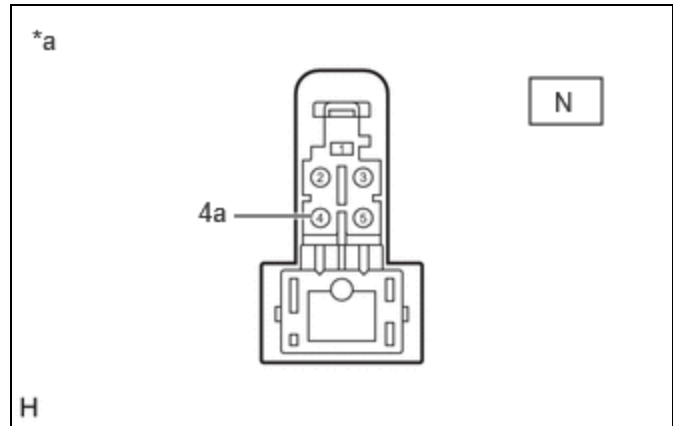
OK



4. INSPECT TELEPHONE AND GPS ANTENNA CORD (ANTENNA CORD SUB-ASSEMBLY (Type C))

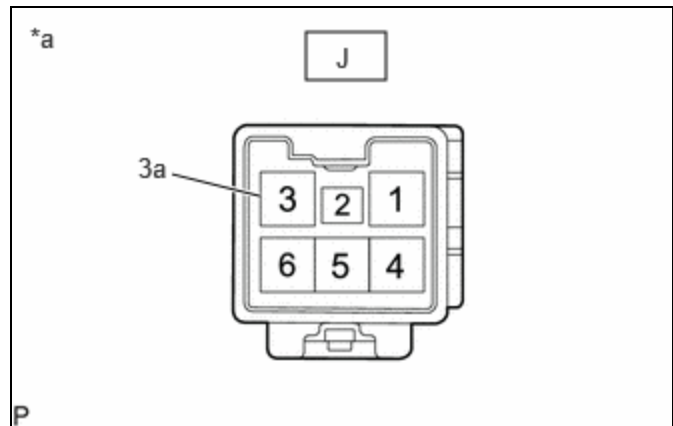
Pre-procedure1

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



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

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



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

Procedure1

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
N-4 - J-3	Always	Below 1 Ω	Ω
N-4 or J-3 - Body ground	Always	10 kΩ or higher	kΩ

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
N-4a - J-3a	Always	Below 1 Ω	Ω
N-4a or J-3a - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

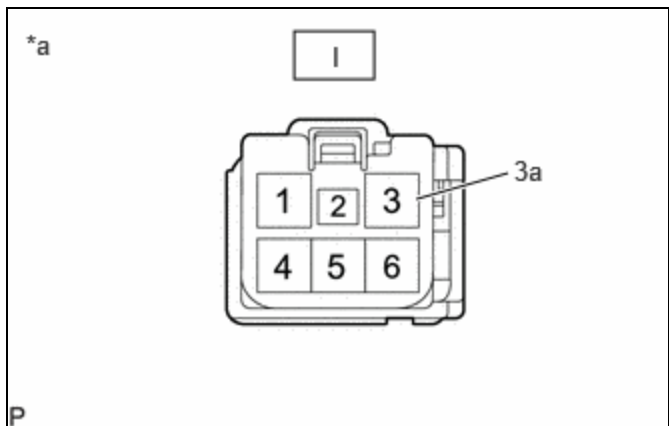
NG ▶ **REPLACE TELEPHONE AND GPS ANTENNA CORD**
(ANTENNA CORD SUB-ASSEMBLY (for Type C)) INFO

OK



5. INSPECT TELEPHONE AND GPS ANTENNA CORD (NO. 3 ANTENNA CORD SUB-ASSEMBLY)

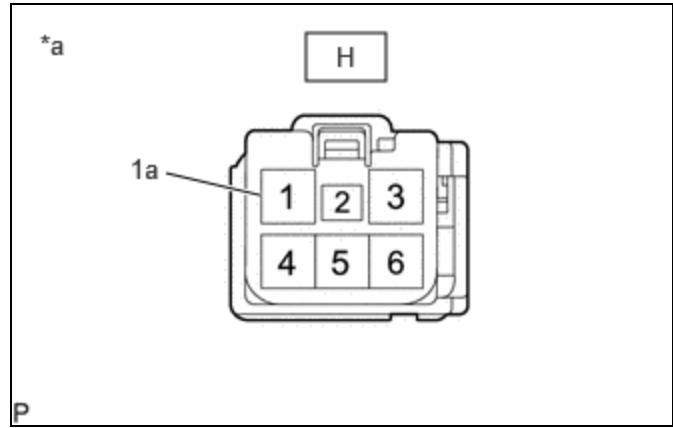
Pre-procedure1



*a	Component without harness connected (Telephone and GPS Antenna Cord (No. 3 Antenna Cord Sub-assembly))
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(a) Disconnect the I telephone and GPS antenna cord (No. 3 antenna cord sub-assembly) connector.

(b) Disconnect the H telephone and GPS antenna cord (No. 3 antenna cord sub-assembly) connector.



*a	Component without harness connected (Telephone and GPS Antenna Cord (No. 3 Antenna Cord Sub-assembly))
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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
I-3 - H-1	Always	Below 1 Ω	Ω
I-3 or H-1 - Body ground	Always	10 kΩ or higher	kΩ
I-3a - H-1a	Always	Below 1 Ω	Ω
I-3a or H-1a - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

NG **REPLACE TELEPHONE AND GPS ANTENNA CORD (NO. 3 ANTENNA CORD SUB-ASSEMBLY)** INFO

OK

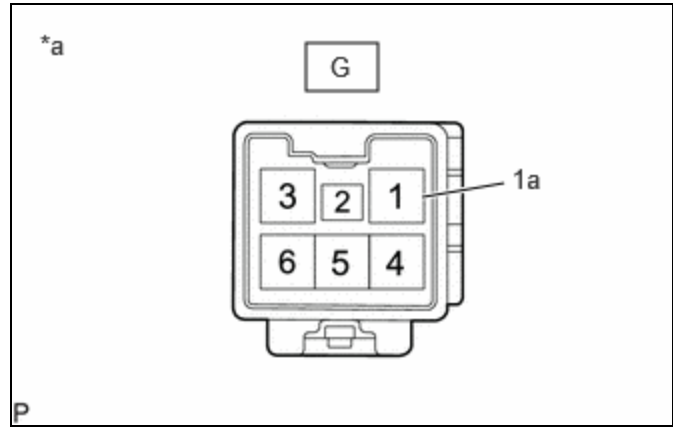


6.	INSPECT TELEPHONE AND GPS ANTENNA CORD (ANTENNA CORD SUB-ASSEMBLY (for Type A))
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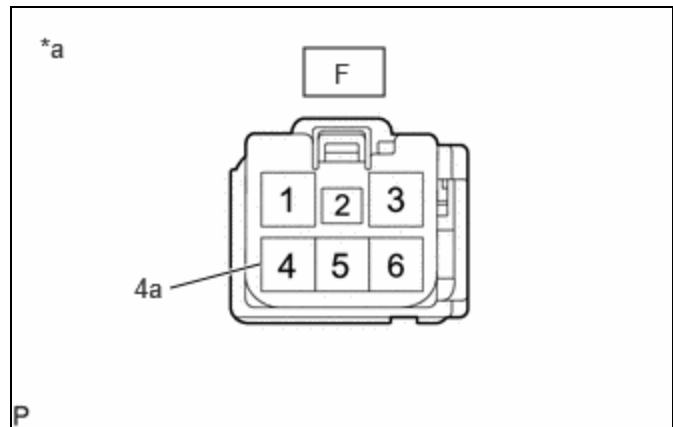
Pre-procedure1

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

connector.



*a	Component without harness connected (Telephone and GPS Antenna Cord (Antenna Cord Sub-assembly (for Type A)))
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*a	Component without harness connected (Telephone and GPS Antenna Cord (Antenna Cord Sub-assembly (for Type A)))
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(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
G-1 - F-4	Always	Below 1 Ω	Ω
G-1 or F-4- Body ground	Always	10 kΩ or higher	kΩ
G-1a - F-4a	Always	Below 1 Ω	Ω
G-1a or F-4a - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

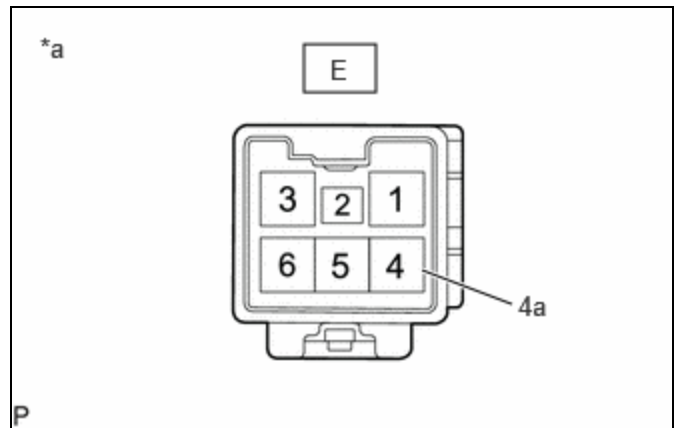
NG ▶ **REPLACE TELEPHONE AND GPS ANTENNA CORD**
(ANTENNA CORD SUB-ASSEMBLY (for Type A)) INFO

OK
▼

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

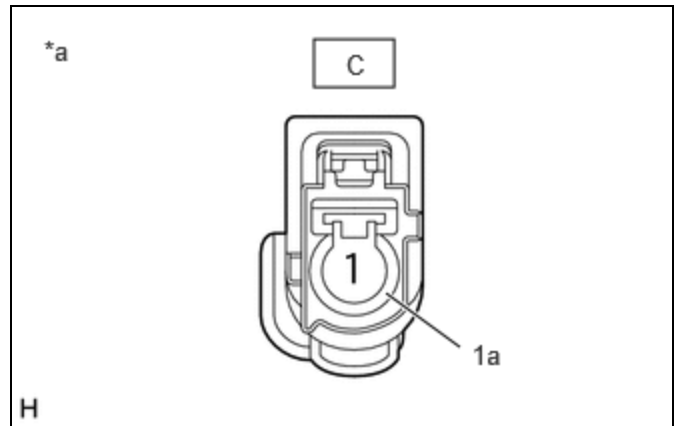
Pre-procedure1

(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 C 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-4 - C-1	Always	Below 1 Ω	Ω
E-4 or C-1- Body ground	Always	10 kΩ or higher	kΩ
E-4a - C-1a	Always	Below 1 Ω	Ω
E-4a or C-1a - 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



8.	REPLACE DCM (TELEMATICS TRANSCEIVER)
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(a) Replace the DCM (telematics transceiver) with a new one.

HINT:

Click here [INFO](#)

NOTICE:

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

NEXT ▶ **PERFORM DCM ACTIVATION**

