

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000291Z6
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: B154711,B154713; GNSS Antenna Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B154711	GNSS Antenna Circuit Short to Ground
------------	----------------	---

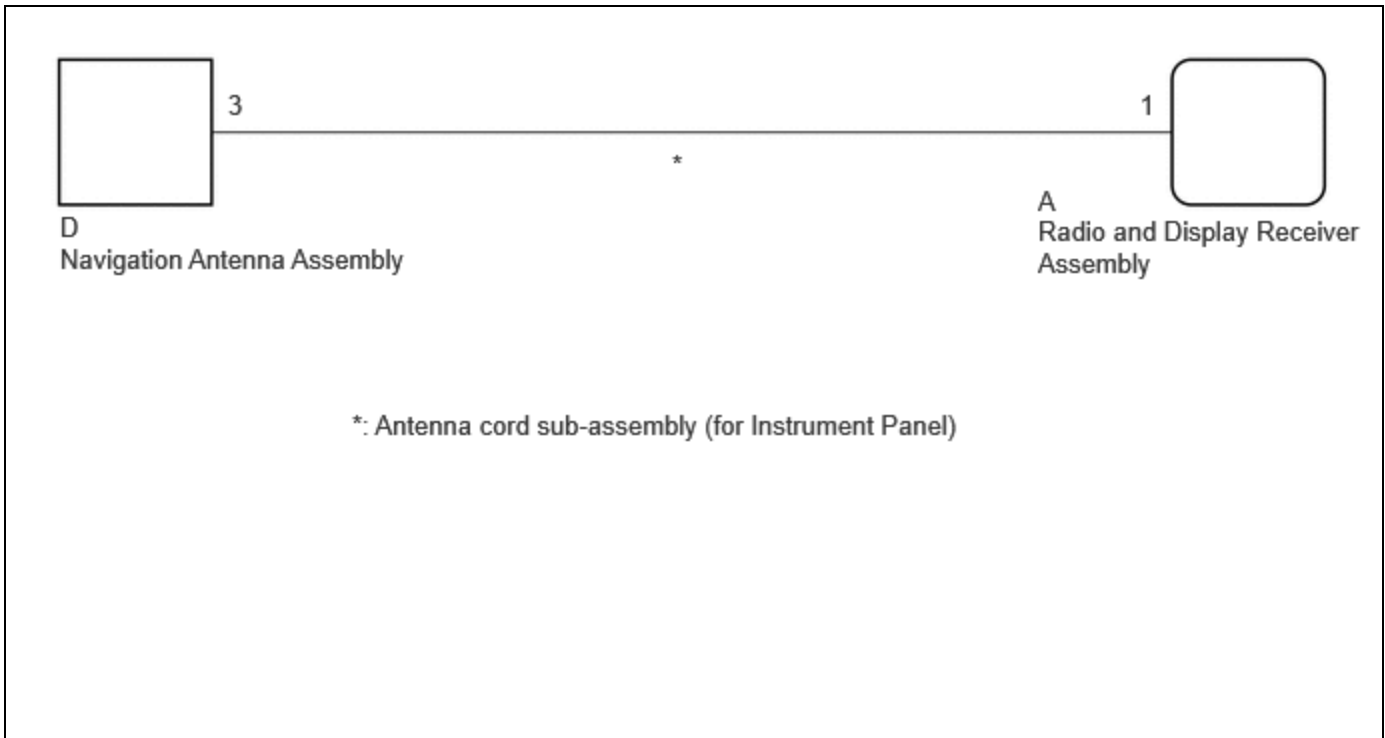
DTC	B154713	GNSS Antenna Circuit Open
------------	----------------	----------------------------------

DESCRIPTION

These DTCs are stored when the radio and display receiver assembly detects an open or short in GNSS antenna assembly.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B154711	GNSS Antenna Circuit Short to Ground	Short in GNSS antenna assembly (2 trip detection logic)	<ul style="list-style-type: none"> Navigation antenna assembly Radio and display receiver assembly Antenna cord sub-assembly (for Instrument Panel) 	Navigation System	A
B154713	GNSS Antenna Circuit Open	Open in GNSS antenna assembly (2 trip detection logic)	<ul style="list-style-type: none"> Navigation antenna assembly Radio and display receiver assembly Antenna cord sub-assembly (for Instrument Panel) 	Navigation System	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.

Click here [INFO](#)

PROCEDURE

1.	CHECK MODEL
-----------	--------------------

(a) Choose the model to be inspected.

RESULT	PROCEED TO
w/ DCM (Telematics Transceiver)	A
w/o DCM (Telematics Transceiver)	B

B **GO TO STEP 4**

A

2. INSPECT NAVIGATION ANTENNA ASSEMBLY

HINT:

Click here [INFO](#)

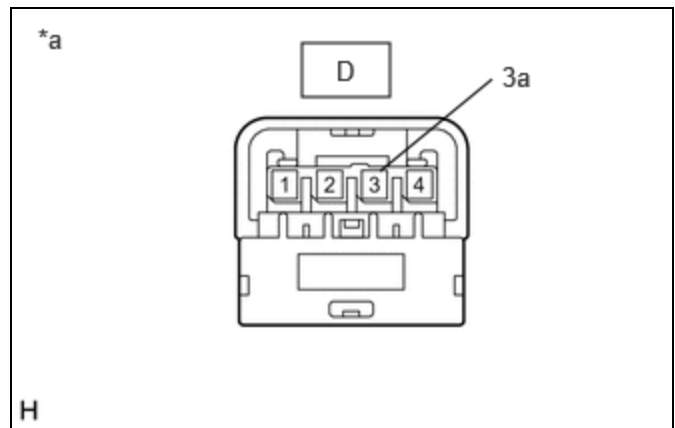
NG REPLACE NAVIGATION ANTENNA ASSEMBLY [INFO](#)

OK


3. INSPECT ANTENNA CORD SUB-ASSEMBLY (for Instrument Panel)

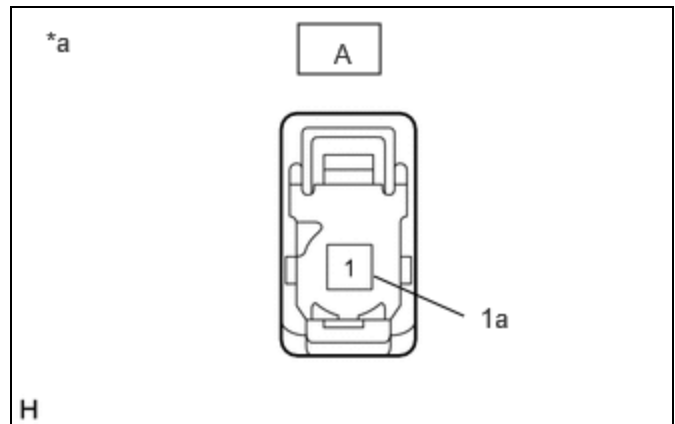
Pre-procedure1

(a) Disconnect the navigation antenna assembly connector.



*a	Front view of antenna cord sub-assembly (for Instrument Panel) connector (to Navigation Antenna Assembly)
----	---

(b) Disconnect the radio and display receiver assembly connector.



Procedure1

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
D-3 - A-1	Always	Below 1 Ω	Ω
D-3a - A-1a	Always	Below 1 Ω	Ω
D-3a or A-1a - Body ground	Always	10 k Ω or higher	k Ω

Post-procedure1

(d) None

OK  **REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY**

NG  **REPLACE ANTENNA CORD SUB-ASSEMBLY (for Instrument Panel)** [INFO](#)

4.	INSPECT NAVIGATION ANTENNA ASSEMBLY
-----------	--

HINT:

[Click here](#) [INFO](#)

NG  **REPLACE NAVIGATION ANTENNA ASSEMBLY** [INFO](#)

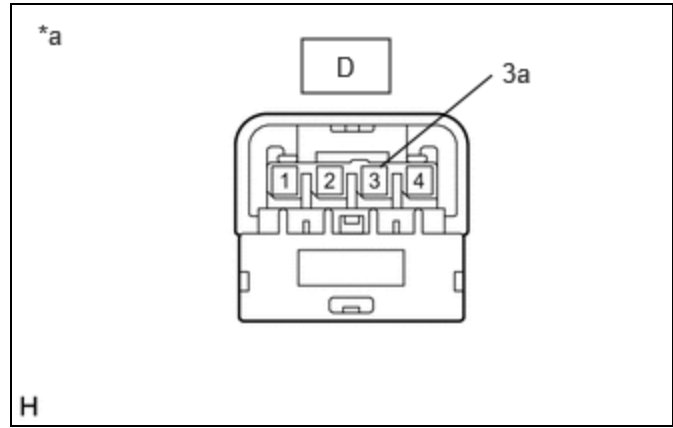
OK



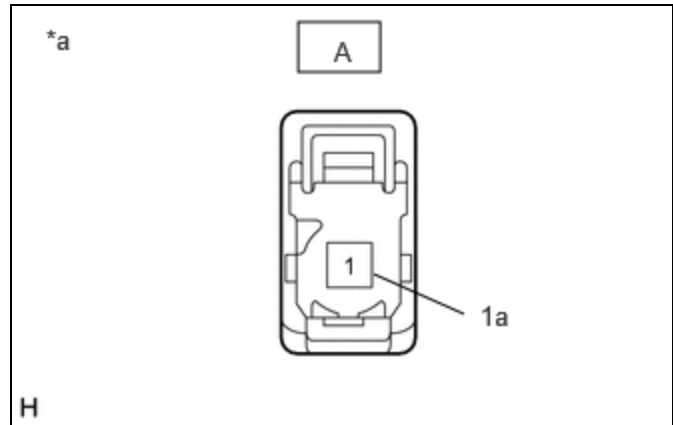
5.	INSPECT ANTENNA CORD SUB-ASSEMBLY (for Instrument Panel)
-----------	---

Pre-procedure1

(a) Disconnect the navigation antenna assembly connector.



*a Front view of antenna cord sub-assembly (for Instrument Panel) connector (to Navigation Antenna Assembly)



(b) Disconnect the radio and display receiver assembly connector.

Procedure1

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
D-3 - A-1	Always	Below 1 Ω	Ω
D-3a - A-1a	Always	Below 1 Ω	Ω
D-3a or A-1a - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None

OK ▶ REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY

NG ▶ REPLACE ANTENNA CORD SUB-ASSEMBLY (for Instrument Panel) [INFO](#)

