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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> AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: B157913; Voice Recognition Microphone1 Circuit Open; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>B157913</b>	<b>Voice Recognition Microphone1 Circuit Open</b>
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## DESCRIPTION

The telephone microphone assembly LH is connected to the radio and display receiver assembly via voice recognition microphone 1 signal detection line.

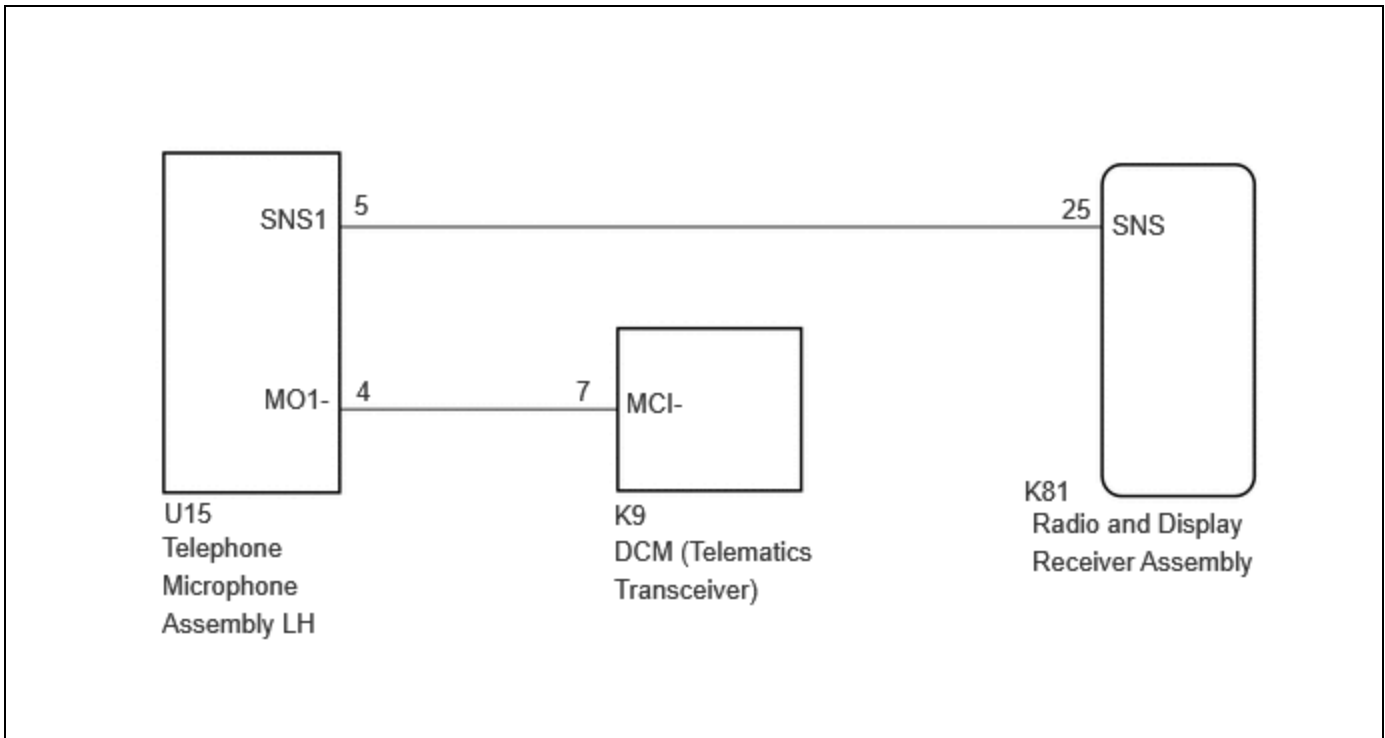
This DTC is stored when the radio and display receiver assembly detects disconnection of telephone microphone assembly LH.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B157913	Voice Recognition Microphone1 Circuit Open	Voice recognition microphone 1 terminal (SNS) disconnected  (2 trip detection logic)	<ul style="list-style-type: none"> <li>Telephone microphone assembly LH</li> <li>Radio and display receiver assembly</li> <li>Harness or connector</li> <li>DCM (Telematics Transceiver)*</li> </ul>	Navigation System	A

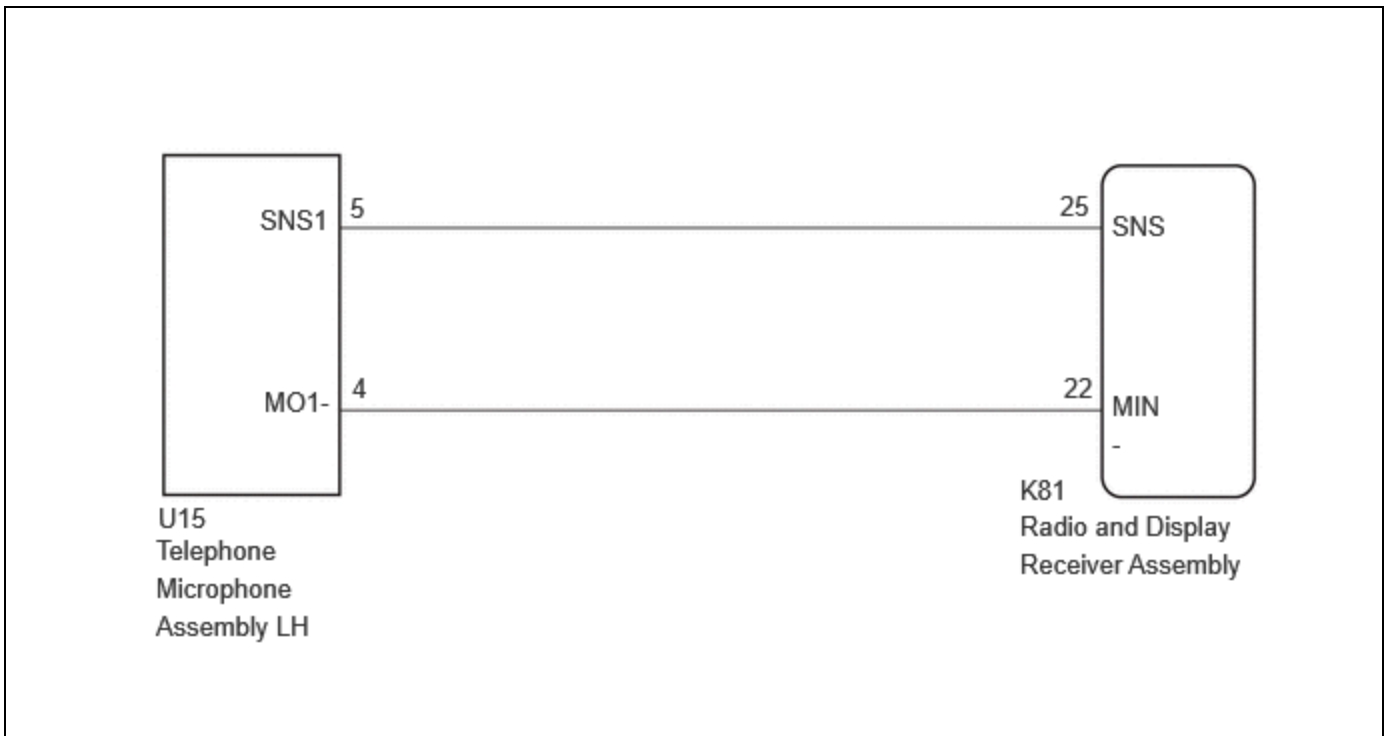
\*: w/ DCM (Telematics Transceiver)

## WIRING DIAGRAM

**w/ DCM (Telematics Transceiver)**



**w/o DCM (Telematics Transceiver)**



**CAUTION / NOTICE / HINT**

**NOTICE:**

- When replacing the telematics transceiver, make sure to replace it with a new one (w/ Telematics Transceiver).
- Depending on the parts that are replaced during vehicle inspection or maintenance, performing initialization, registration or calibration may be needed.

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

## PROCEDURE

<b>1.</b>	<b>CHECK MODEL</b>
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RESULT	PROCEED TO
w/ DCM(Telematics Transceiver)	A
w/o DCM (Telematics transceiver)	B

**B**  **GO TO STEP 4**

**A**



<b>2.</b>	<b>CHECK HARNESS AND CONNECTOR (TELEPHONE MICROPHONE ASSEMBLY LH - RADIO AND DISPLAY RECEIVER ASSEMBLY, TELEMATICS TRANSCEIVER)</b>
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Pre-procedure1

- (a) Disconnect the U15 telephone microphone assembly LH connector.
- (b) Disconnect the K81 radio and display receiver assembly connector.
- (c) Disconnect the K9 telematics transceiver connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(U15,K81,K9\)](#)

[Click Connector\(U15\)](#)

[Click Connector\(K81\)](#)

[Click Connector\(K9\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
U15-5 (SNS1) - K81-25 (SNS)	Always	Below 1 $\Omega$	$\Omega$
U15-4 (MO1-) - K9-7 (MCI-)	Always	Below 1 $\Omega$	$\Omega$
U15-5 (SNS1) or K81-25 (SNS) - Body ground	Always	10 k $\Omega$ or higher	k $\Omega$
U15-4 (MO1-) or K9-7 (MCI-) - Body ground	Always	10 k $\Omega$ or higher	k $\Omega$

Post-procedure1

(e) None

**NG**  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**



<b>3.</b>	<b>INSPECT TELEMATICS TRANSCEIVER (MCI-)</b>
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Pre-procedure1

(a) With the telematics transceiver connectors connected, disconnect the U15 telephone microphone assembly LH connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(U15\)](#)

[Click Connector\(U15\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
U15-4 (MO1-) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

(c) None

**OK**  **GO TO STEP 6**

**NG**  **REPLACE DCM (TELEMATICS TRANSCEIVER)**

<b>4.</b>	<b>CHECK HARNESS AND CONNECTOR (RADIO AND DISPLAY RECEIVER ASSEMBLY - TELEPHONE MICROPHONE ASSEMBLY LH)</b>
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Pre-procedure1

(a) Disconnect the K81 radio and display receiver assembly connector.

(b) Disconnect the U15 telephone microphone assembly LH connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(U15,K81\)](#)

[Click Connector\(U15\)](#)

[Click Connector\(K81\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
U15-5 (SNS1) - K81-25 (SNS)	Always	Below 1 $\Omega$	$\Omega$
U15-4 (MO1-) - K81-22 (MIN-)	Always	Below 1 $\Omega$	$\Omega$
U15-5 (SNS1) or K81-25 (SNS) - Body ground	Always	10 k $\Omega$ or higher	k $\Omega$
U15-4 (MO1-) or K81-22 (MIN-) - Body ground	Always	10 k $\Omega$ or higher	k $\Omega$

Post-procedure1

(d) None

**NG** **REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**



<b>5.</b>	<b>INSPECT RADIO &amp; DISPLAY RECEIVER ASSEMBLY (MIN-)</b>
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Pre-procedure1

(a) With the radio and display receiver assembly connectors connected, disconnect the U15 telephone microphone assembly LH connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(U15\)](#)

[Click Connector\(U15\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
U15-4 (MO1-) - Body ground	Always	Below 1 $\Omega$	$\Omega$

Post-procedure1

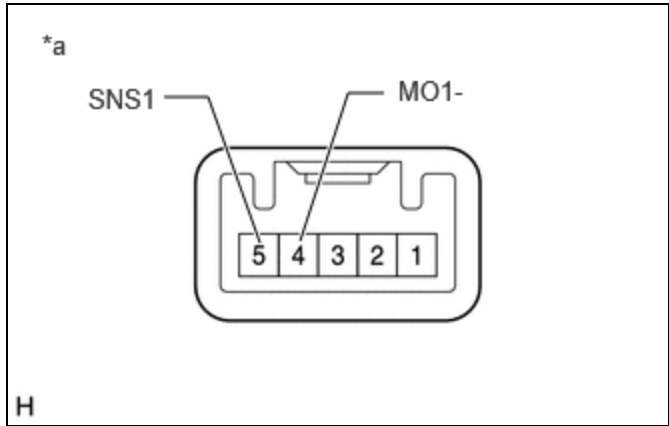
(c) None

**NG** **REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY**

**OK**  
▼

**6. INSPECT TELEPHONE MICROPHONE ASSEMBLY LH (SNS1, MO1-)**

Pre-procedure1



\*a Component without harness connected (Telephone microphone assembly LH)

(a) Remove the telephone microphone assembly LH.

Procedure1

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
5 (SNS1) - 4 (MO1-)	Always	Below 1 Ω	Ω

Post-procedure1

(c) None

**OK** ► REPLACE RADIO & DISPLAY RECEIVER ASSEMBLY

**NG** ► REPLACE TELEPHONE MICROPHONE ASSEMBLY LH  
INFO

