

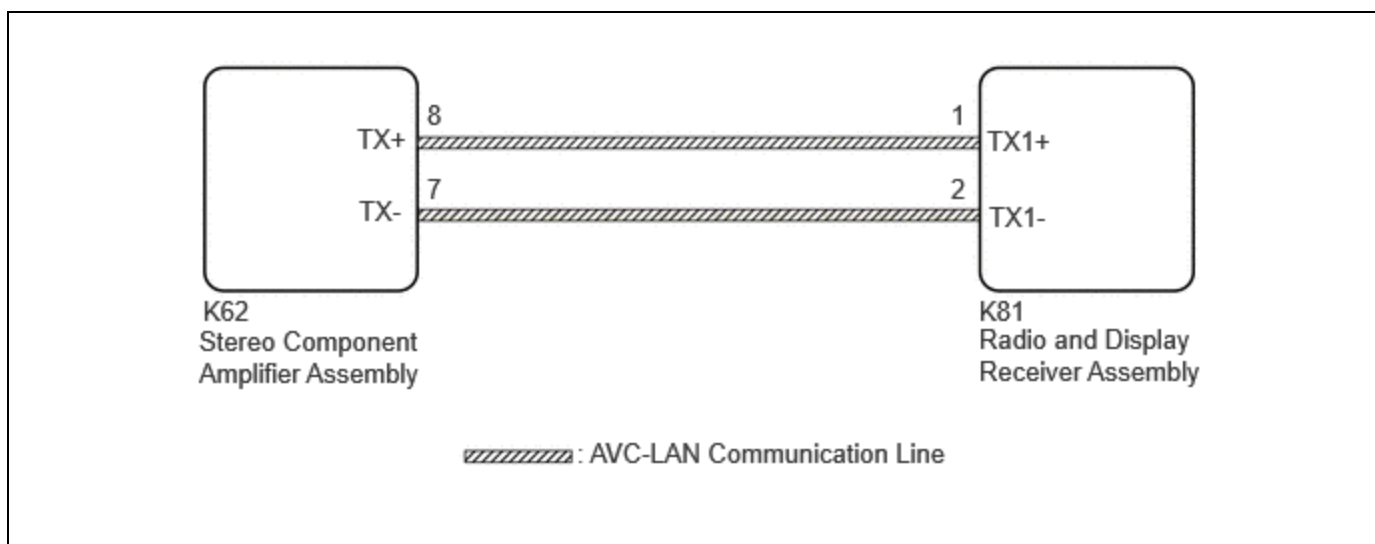
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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: AVC-LAN Circuit; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## AVC-LAN Circuit

## DESCRIPTION

The audio and visual system communicates with each device via AVC-LAN communication. If a malfunction such as a short in a communication line, short to +B or short to ground occurs in the AVC-LAN circuit, communication will stop and the audio and visual system will not operate correctly. The malfunctioning device can be identified if the system returns to normal when the malfunctioning device is disconnected from the AVC-LAN circuit.

## 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 Audio and Visual System.

Click here [INFO](#)

### HINT:

The radio and display receiver assembly is the master unit.

## PROCEDURE

### 1. DEALER INSTALLED OPTIONAL DEVICES (AVC-LAN COMPATIBLE DEVICES)

- (a) Disconnect the connector of each dealer installed optional device (AVC-LAN compatible device) and check if the malfunction continues.

RESULT	PROCEED TO
No dealer installed optional devices are installed	A
The malfunction reoccurs	
The system returns to normal	B

**B** ▶ REPLACE THE DEVICE (OR WIRE HARNESS)

**A** ▼

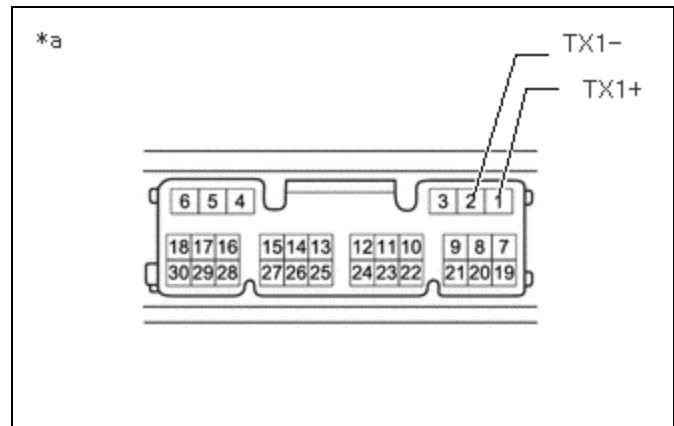
**2. INSPECT RADIO AND DISPLAY RECEIVER ASSEMBLY**

(a) Remove the radio and display receiver assembly.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 (TX1+) - 2 (TX1-)	Always	60 to 80 Ω



\*a Component without harness connected (Radio and Display Receiver Assembly)

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

**OK** ▼

**3. CHECK HARNESS AND CONNECTOR (AVC-LAN CIRCUIT)**

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

(b) Disconnect the I68 stereo component amplifier assembly connector.

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

Standard Resistance:



[Click Location & Routing\(K62,K81\).](#)

[Click Connector\(K62\).](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K62-8 (TX+) - K81-1 (TX1+)	Always	Below 1 $\Omega$
K62-7 (TX-) - K81-2 (TX1-)	Always	Below 1 $\Omega$
K62-8 (TX+) - Body ground	Always	10 k $\Omega$ or higher
K62-7 (TX-) - Body ground	Always	10 k $\Omega$ or higher

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

**OK**



<b>4.</b>	<b>INSPECT RADIO AND DISPLAY RECEIVER ASSEMBLY (AVC-LAN VOLTAGE)</b>
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(a) Measure the voltage according to the value(s) in the table below.

Standard Voltage:



[Click Location & Routing\(K81\).](#)

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

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
K81-1 (TX1+) - K81-2 (TX1-)	Ignition Switch ACC	Approximately 0 V
K81-1 (TX1+) - Body ground	Ignition Switch ACC	Approximately 2.5 V
K81-2 (TX1-) - Body ground	Ignition Switch ACC	Approximately 2.5 V

**OK** **REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY**

**NG** **CHECK HARNESS OR CONNECTOR**

