Mute Signal Circuit between Radio and Navigation Assembly and Television Display Assembly

DESCRIPTION

The radio and navigation assembly controls the volume according to the MUTE signal from the television display assembly.
The MUTE signal is sent to reduce noise and a popping sound generated when switching the mode, etc.
If there is an open in the circuit, noise can be heard from the speakers when changing the sound source.
If there is a short in the circuit, even though the radio and navigation assembly is normal, no sound or only an extremely small sound can be produced.

WIRING DIAGRAM

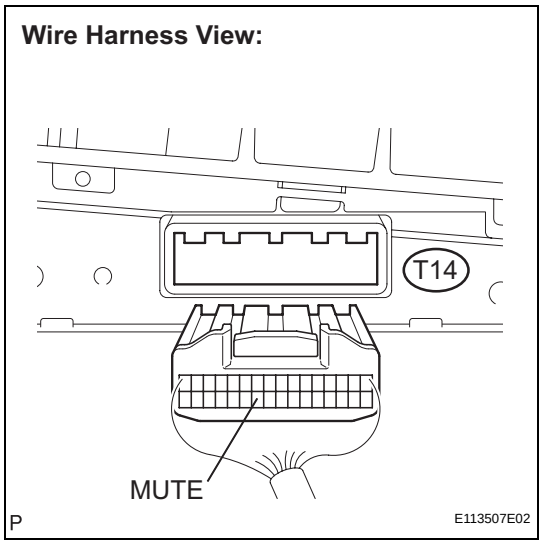


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INSPECTION PROCEDURE

1	INSPECT TELEVISION DISPLAY ASSEMBLY

Wire Harness View:



(a) Measure the voltage according to the value(s) in the table below.

Standard voltage

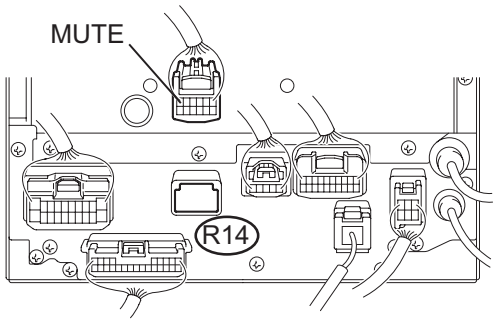
Tester connection	Condition	Specified condition
MUTE - Body ground	Turn ignition switch to ACC, RSE system is playing → Changing mode	Above 3.5 V → Below 1 V

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

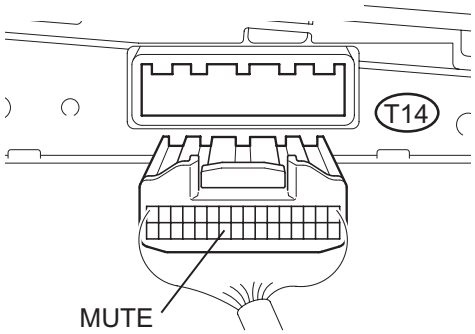
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2	CHECK HARNESS AND CONNECTOR (RADIO AND NAVIGATION ASSEMBLY - TELEVISION DISPLAY ASSEMBLY)

Radio and Navigation Assembly Wire Harness View:



Television Display Assembly Wire Harness View:



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(a) Disconnect the radio and navigation assembly R14 connector and television display assembly T14 connector.

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

Standard resistance

Tester connection	Condition	Specified condition
R14-6 (MUTE) - T14-26 (MUTE)	Always	Below 1 Ω
MUTE - Body ground	Always	10 kΩ or higher

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

OK

3	REPLACE TELEVISION DISPLAY ASSEMBLY

(a) Replace the television display assembly and check if it operates normally.

OK:

The navigation system operates normally.

OK → **NORMAL OPERATION**

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REPLACE RADIO AND NAVIGATION ASSEMBLY

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