Mute Signal Circuit between Radio Receiver and Television Display Assembly

DESCRIPTION

The radio receiver 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 receiver is normal, no sound or, only an extremely small sound, can be produced.

WIRING DIAGRAM

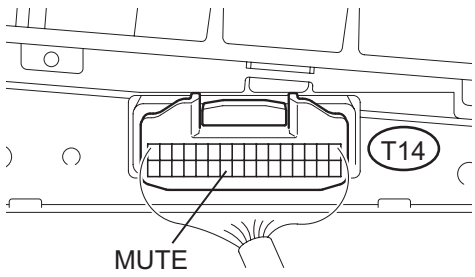


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INSPECTION PROCEDURE

1	INSPECT TELEVISION DISPLAY ASSEMBLY

Wire Harness View:



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

Standard voltage

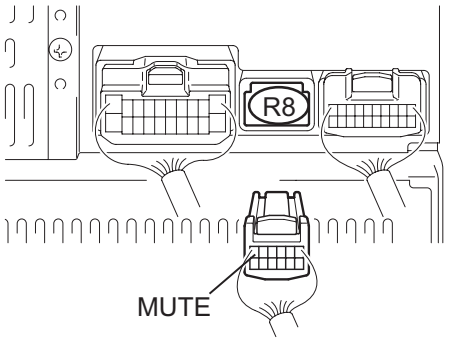
Tester Connection	Condition	Specified Condition
MUTE - Body ground	Turn ignition switch to ACC, RSE system is playing → Changing mode	Above 3.5 V → Below 1 V

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

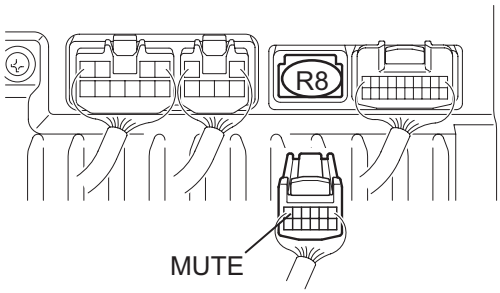
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2	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - TELEVISION DISPLAY)

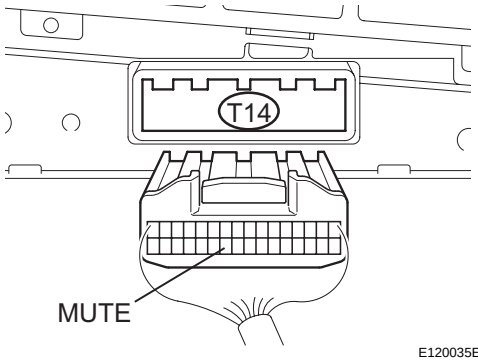
Radio Receiver (10 Speaker System) Wire Harness View:



Radio Receiver (6 Speaker System) Wire Harness View:



Television Display Assembly Wire Harness View:



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(a) Disconnect the radio receiver connector R8 and television display assembly connector T14.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
MUTE - 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 the audio system operates normally.

OK:

The audio system operates normally.

OK → **END**

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REPLACE RADIO RECEIVER