

**Product:** A/V Receiver

**Hardware Technical Bulletin:** T743-H2005-05

**Date:** February 28/05

**Subject:** Static protection for muting transistors

**Note:** Implemented in production from serial number:R49T74310201

**Previous T.B.'s required:**

- YES
- NO

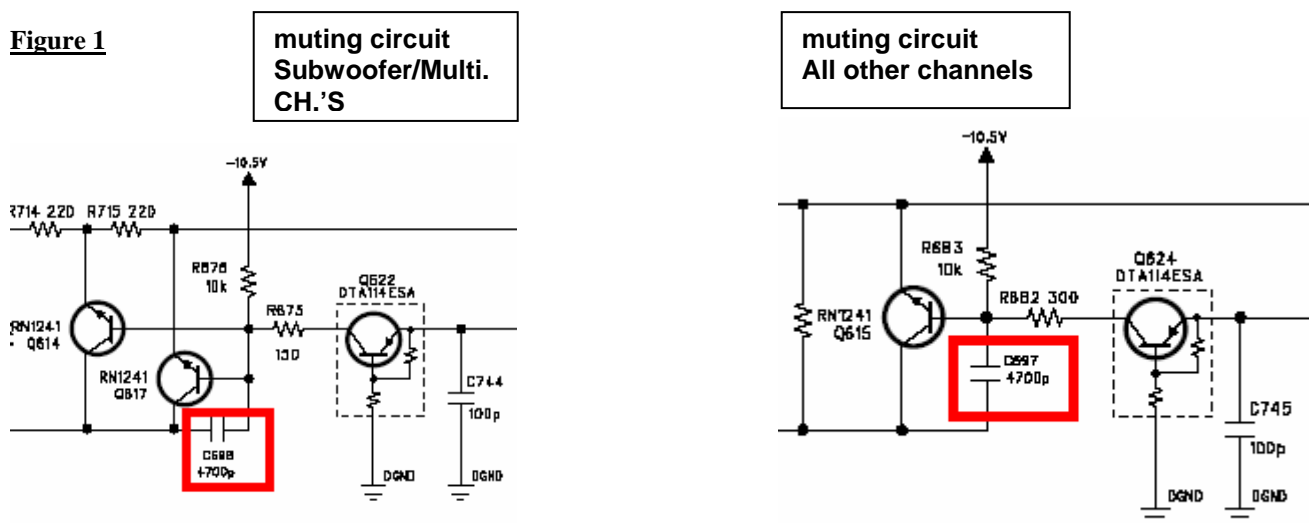
**DESCRIPTION:** You may have the complaint that the subwoofer or other channels are popping when switching inputs or when turning on and off.

**REASON:** The channel that is popping may have a muting transistor damaged due to an external source or subwoofer causing static damage to the transistor.

**SOLUTION:** Replace the transistor and install a 4700 pF capacitor between the base and collector on the pre amp pc board, as shown in the following two schematics. The use of a surface mount capacitor is recommended. Placing the capacitor on the bottom of the board between the base and collector of each muting transistor is preferred. See figure 2 on page 2.

**Note:** It is recommended to install this capacitor to each channel's muting transistor. The following are the designations of the muting transistors, Q608, Q609, Q610, Q611, Q615, Q617.

**Figure 1**



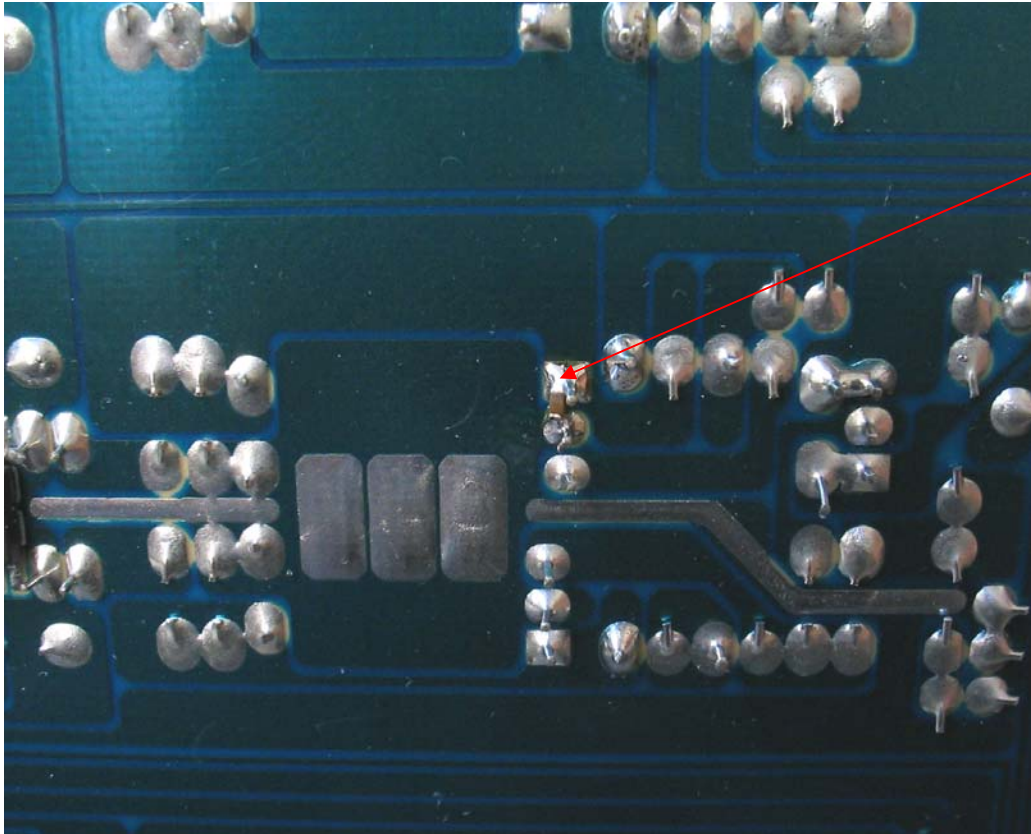
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**Figure 2**



4700pF surface  
mount capacitor  
between base  
emitter pins of  
muting transistor  
on the pre amp  
pc board

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