

**Product:** A/V Receiver

**Hardware Technical Bulletin:** T163-H2005-05R

**Date:** March 7/05

**Subject:** Static protection for muting transistors

**Note:** Implemented in production from serial number:R4ZT16301923

*Previous T.B.'s required: Revised from T163-H2005-05*

- YES
- NO

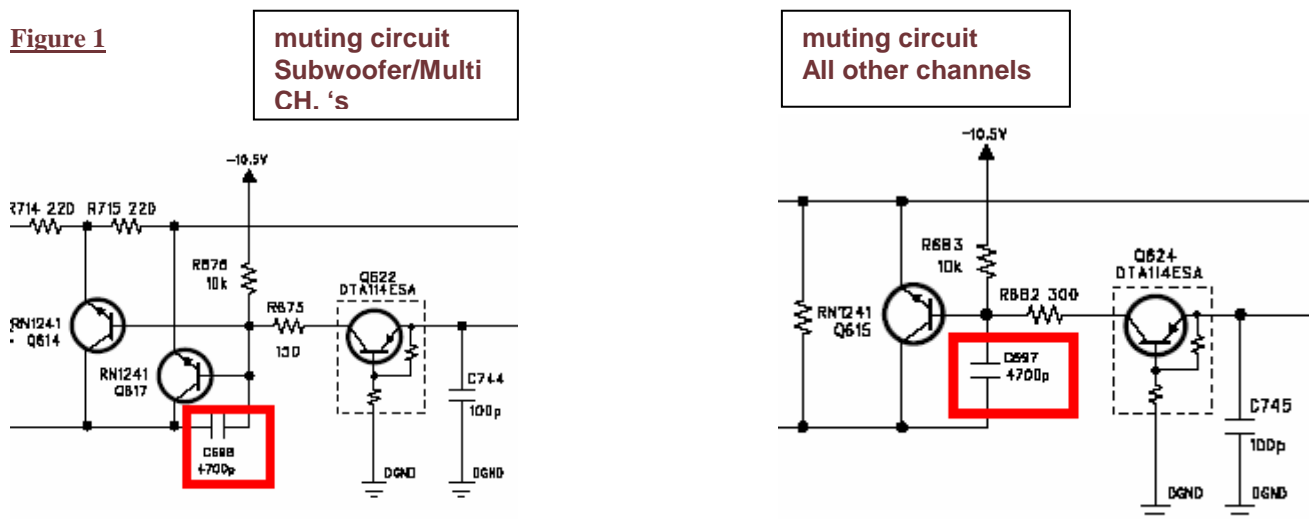
**DESCRIPTION:** You may have the complaint that the subwoofer or other channels are popping when switching inputs or when turning on and off.

**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, Q612, Q613, Q615, Q617 and Multi source muting transistors Q632, Q633.

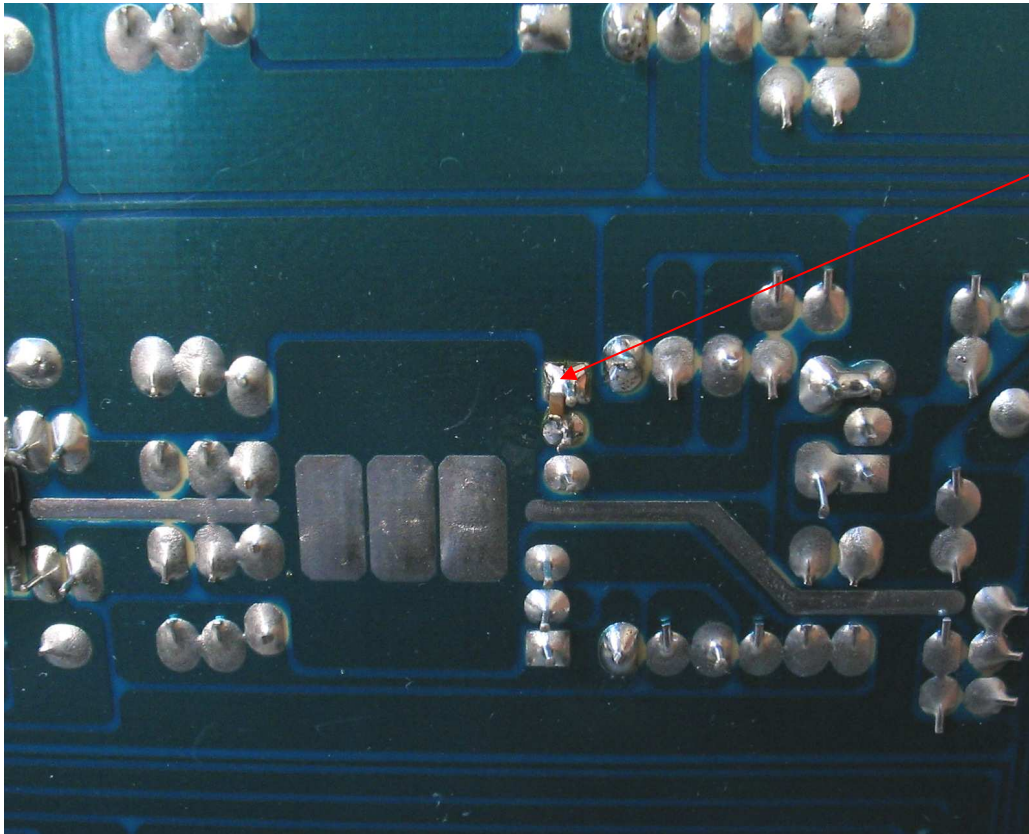
**Figure 1**



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**Figure 2**



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

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**Product: A/V Receivers**

**Hardware Technical Bulletin: T163-H2004-01**

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**Date:** June 15, 2004

**Subject:** Flat Ribbon Cables

**Note:**

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

- YES
- NO

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**DESCRIPTION:** *The unit may be experiencing intermittent audio or display. The unit may not always power up.*

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**REASON:** *The flat ribbon cables, primarily the ones running from the front panel but may include all flat ribbon cables. They may have intermittent contact due to oxidization.*

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**SOLUTION:** *Clean all ribbon connectors using an eraser or preferably a non alcohol based cleaner which will leave no residue. See figures 1, 2 and 3.*

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Locate and remove the ribbon cables, front panel cables shown.

Figure 1

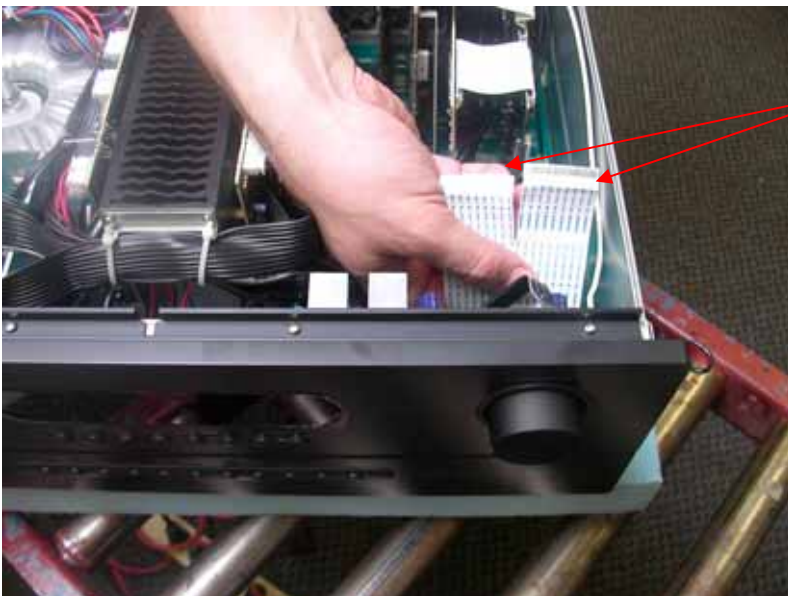
*Product: A/V Receivers*

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Ribbon cables are easily unplugged from these connectors.

**Figure 2**



Clean the ends of the ribbon cables with eraser or non alcohol based cleaners.

**Figure 3**

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# Technical Bulletin T163

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**Product:** A/V Receiver

**Hardware Technical Bulletin:** T163-H2004-02

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**Date:** June 1, 2004

**Subject:** HDTV Component  
Video change

**Note:** Implemented in production from Serial number: R44 series and onwards

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

YES

NO

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**DESCRIPTION:** To improve the compatibility of HDTV signals with some TV/Monitors.

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**REASON:** When decoding HDTV signals some TV/Monitors may experience horizontal sync loss.

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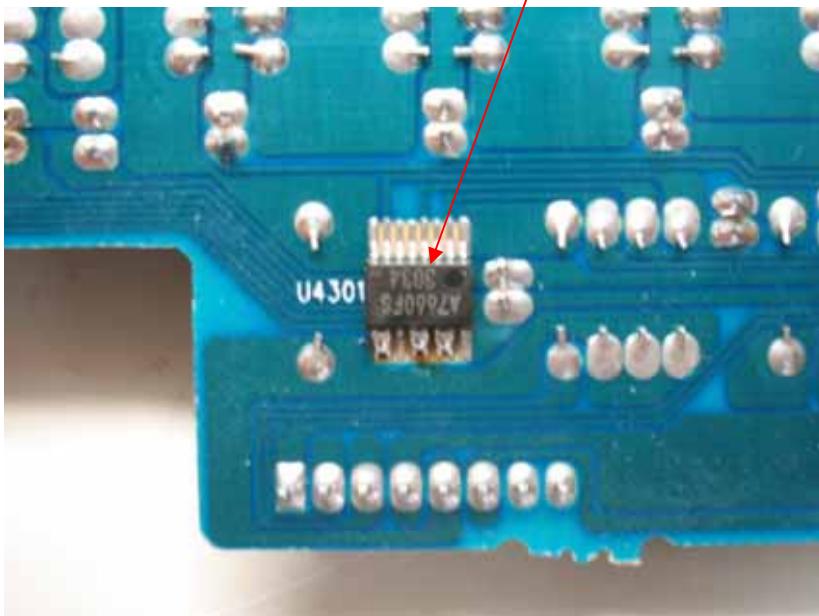
**SOLUTION:** Perform the following change to the Component video board.

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On the component video PCB U4301

- A) Link the following pins on U4301;
- Pins 9 to 10
  - Pins 12 to 13
  - Pins 14 to 15

Figure1



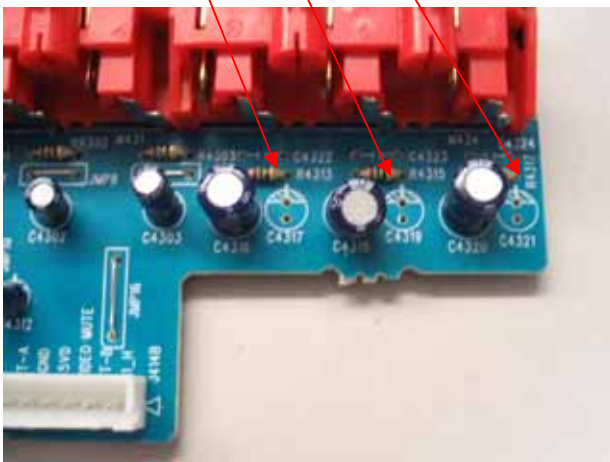
**Product:** A/V Receiver

**Hardware Technical Bulletin:** T163-H2004-02

## HDTV Component Video Change

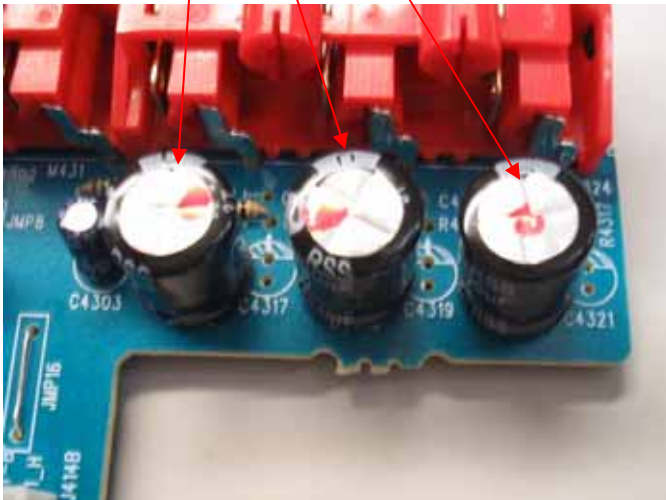
B) Remove C4317, C4319, C4321.

Figure 2



C) Replace C4316, C4318, and C4320 with 1000 uF 6V.

Figure 3



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# Technical Bulletin T163

**Product:** A/V Receiver

**Hardware Technical Bulletin:** T163-H2005-04

**Date:** February 28/05      **Subject:** Intermittantly shuts down  
**Note:** Implemented in production from serial number:R46T16301386

*Previous T.B.'s required:*

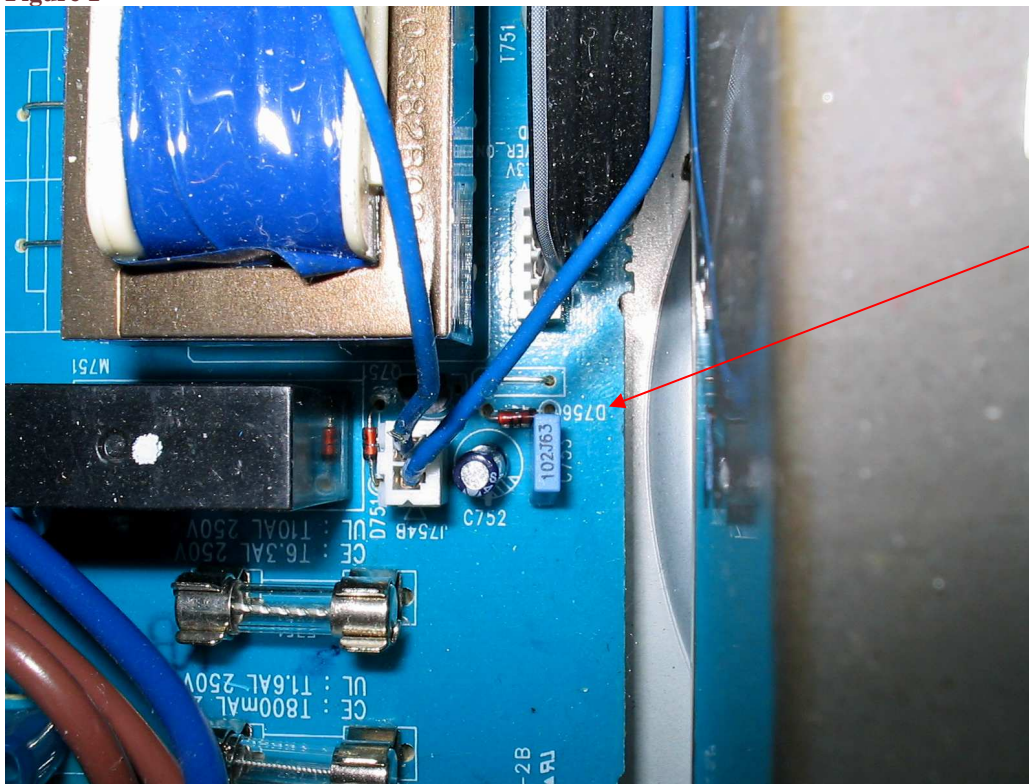
- YES
- NO

**DESCRIPTION:** Unit may shut down, shortly after turn on.

**REASON:** There is a diode on the standby board that maybe operating intermittantly.

**SOLUTION:** Locate and identify D756 on the standby board. Change only if the diode is a 1N4148. Change from a 1N4148 to a 1N4004 or equivalent. See figure 1 for details.

Figure 1



D756  
CHANGE  
FROM  
1N4148 TO  
1N4004

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