

**Product:** *Integrated Amplifier*

**Hardware Technical Bulletin:** *C372-H2005-01*

**Date:** June 1/05 **Subject:** Power supply capacitors

**Note:** Implemented in production from serial number: H54C37210151

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

YES

NO

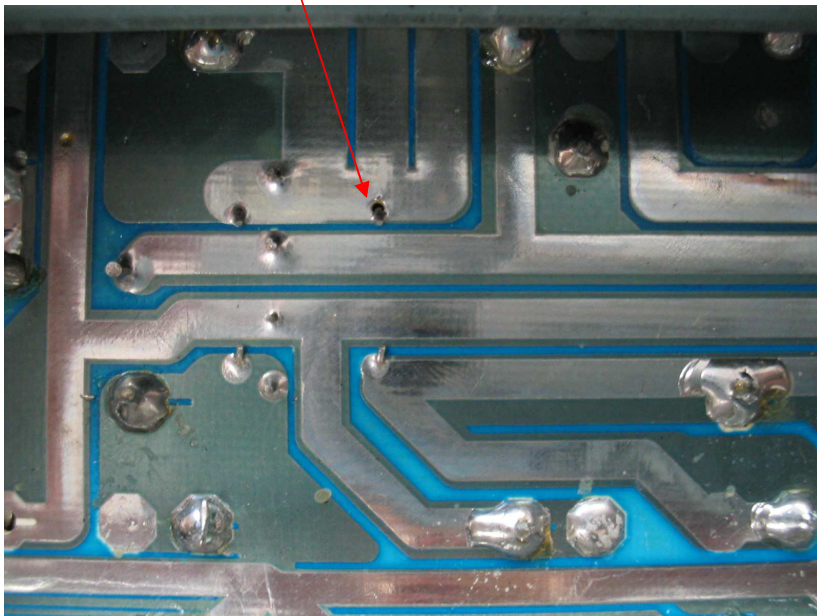
**DESCRIPTION:** Please perform the following modification when in for service for any reason .Power supply capacitors maybe stressed(top of caps are expanded) due to insufficient soldering on pc board trace. A very small percentage of units are affected, but severe damage is possible due to the high voltage and current in this part of the circuit.

**REASON:**Solder pads around jumper wires have higher than normal resistance causing power supply ripple to increase across filter capacitors. See figure 1.

**SOLUTION:**Add 18 gauge wires to thePCB to lower the circuit resistance.To install this modification, first remove the bottom service plate. Look for the PCB area shown in figure 2. In figure 3, the addition of black jumper wires to lower the resistance of these pc board traces is shown. Capacitors showing any signs of stress or damage should also be replaced at the same time.

**Warning:** Check the correct polarity after performing this change . Use a variac to bring up supply voltage to ensure proper polarity. Failure to do this check could destroy capacitors!!

Figure 1 (Original layout, showing cracked solder on jumper wire)



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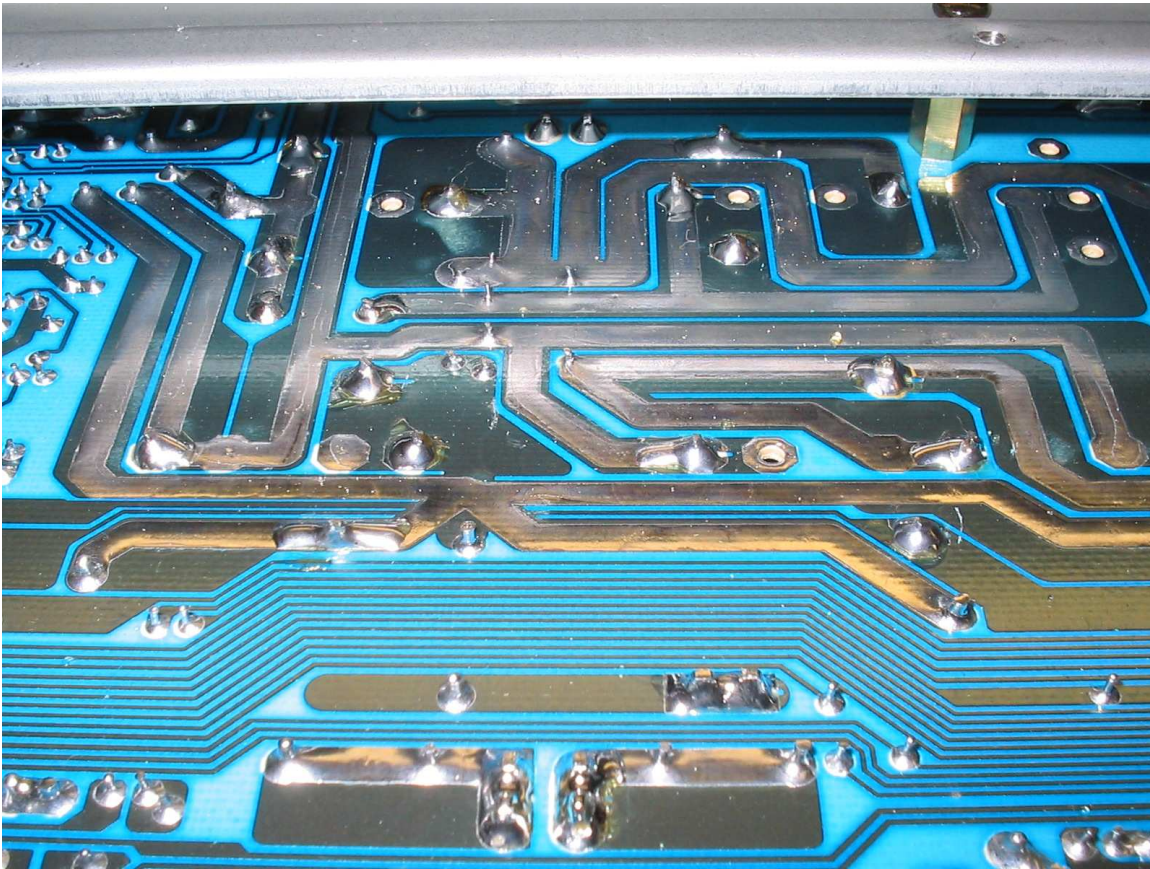
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Figure 2

Area of PCB to be modified



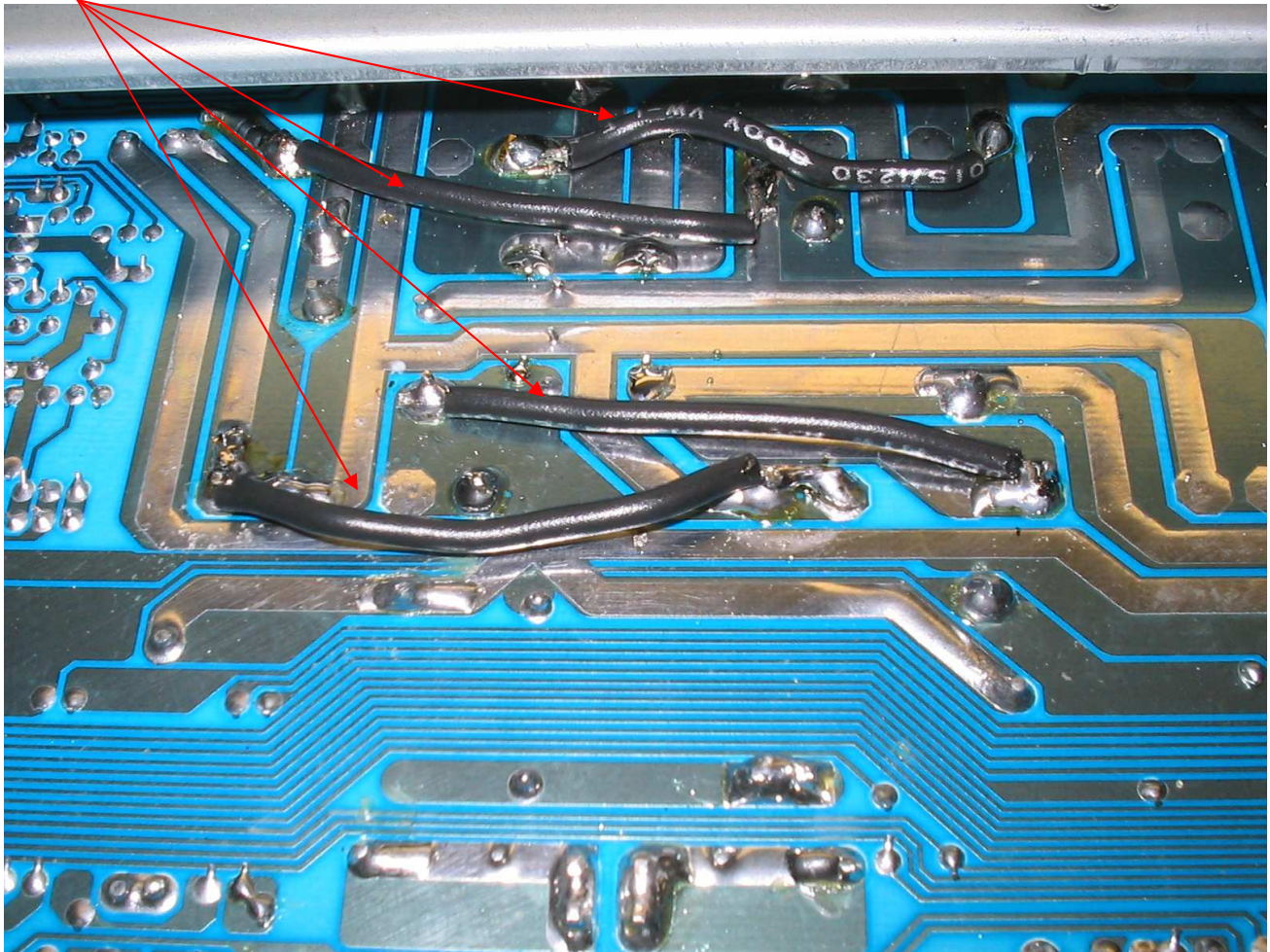
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**Figure 3**

**Addition of wires to PC Board area**

Four wires shown below



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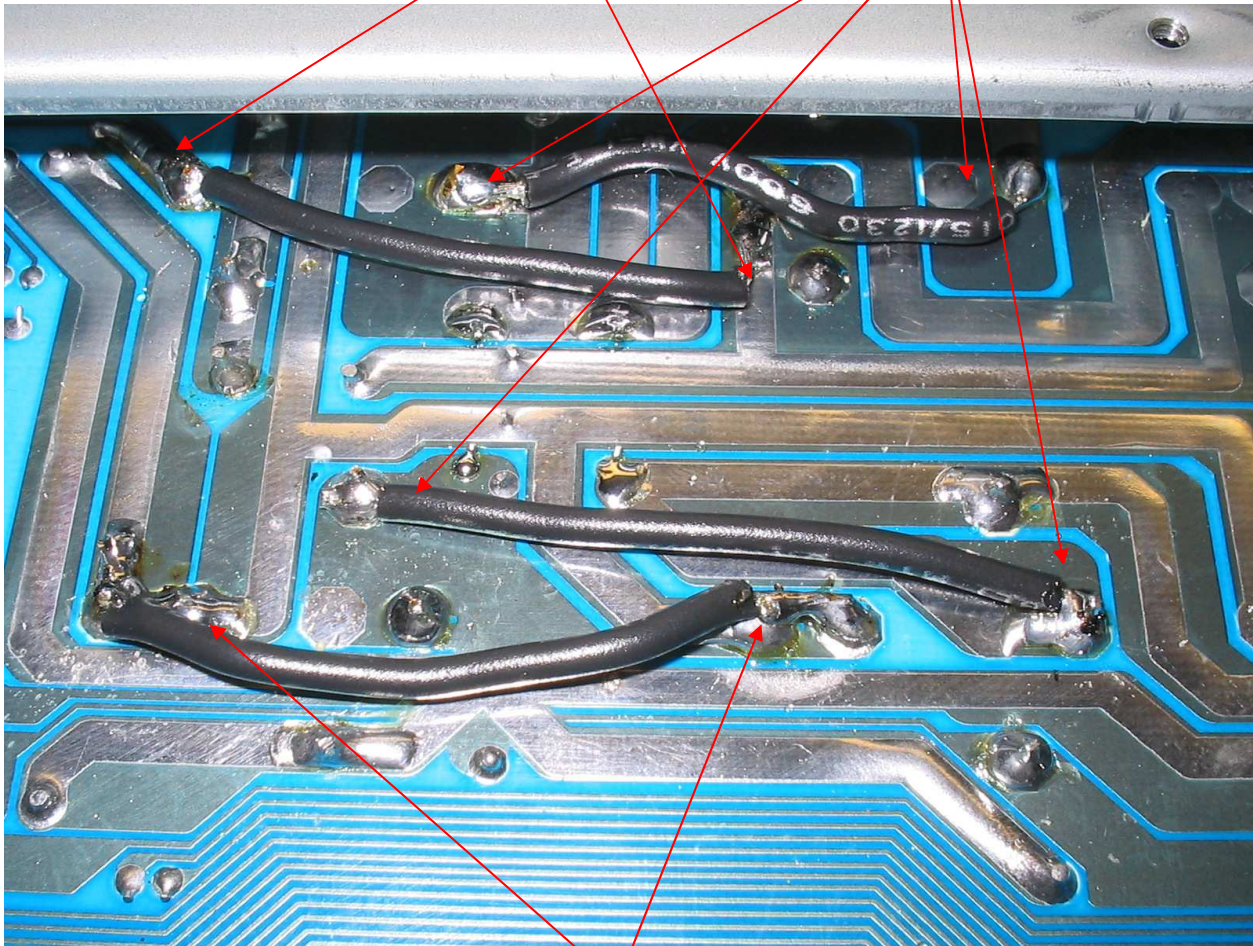
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Positive supply , add this wire between these two pads

Common/ground supply, add these two wires as shown between these pads

**Figure 4**

Alternative view showing four wires



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Negative supply , add this wire between these two pads