

# Technical Service Bulletin No. 21

**Created by: Lab.gruppen AB Service Department**

**Date: 2011-02-01**

**Reference no: C...X models**

It is highly recommended to implement this service bulletin as preventative maintenance if the unit is serviced for another issue.

## **Affected models**

Following models are affected by this technical service bulletin:

C20:8X, C10:8X, C10:4X & C5:4X

## **Affected boards/modules**

Describe which boards/modules this technical issue affects.

AICO4B08a-F01 or earlier.

AICO4B08a-F02 or earlier.

## **Symptom**

Amplifier may refuse to start up.

If it starts up and there is no Audio on any channel.

## **Solution**

AICO4B08x-FXX

1. Measure +18V across C407 & - 18V across C405.
2. If +18V across C407 & - 18V across C405 is ok, then nothing is damage and follow service bulletin 21.
3. If zero, measure resistance between pin 2 & 3 at U403.  
If reading below 100 Ohm then U403 is broken and in need of replacement.
4. Measure resistance across D422 and D423. If reading below 100 Ohm replace D422 & D423.

AICO4B07x-Fxx or earlier.

1. Measure +18V across C407 & - 18V across C405.
2. If +18V across C407 & - 18V across C405 is ok, then nothing is damage and follow service bulletin 21.

If zero, measure resistance between pin 2 & 3 at U403. If reading below 100 Ohm then U403 is broken and in need of replacement.

Measure resistance across C407 and C405 if below 100 Ohm then there are several damaged integrated circuits.

Note! When service bulletin 10/14 is not implemented can U403 cause damage to several integrated circuits. AICO boards may need to be replaced. Contact Lab.gruppen for spare parts.

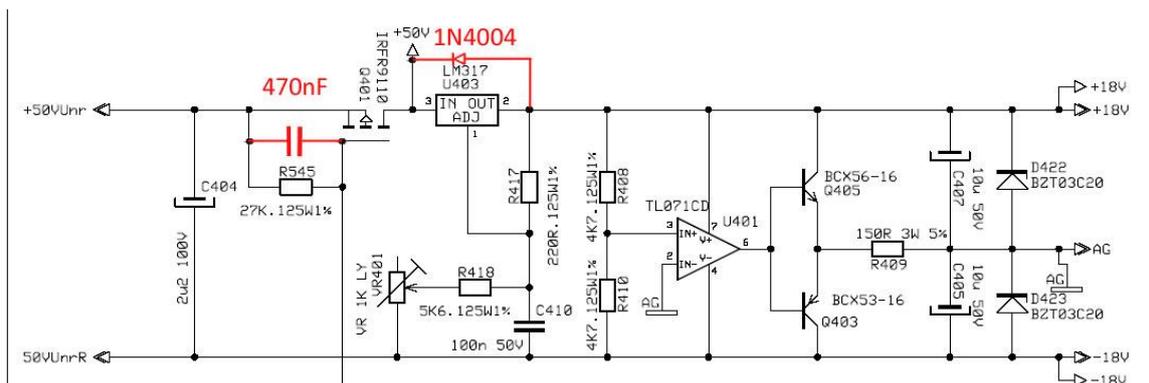
### Service Log Information

Write “Technical Service Bulletin no.21” in column “Repair Remedy” besides other normal repair information.

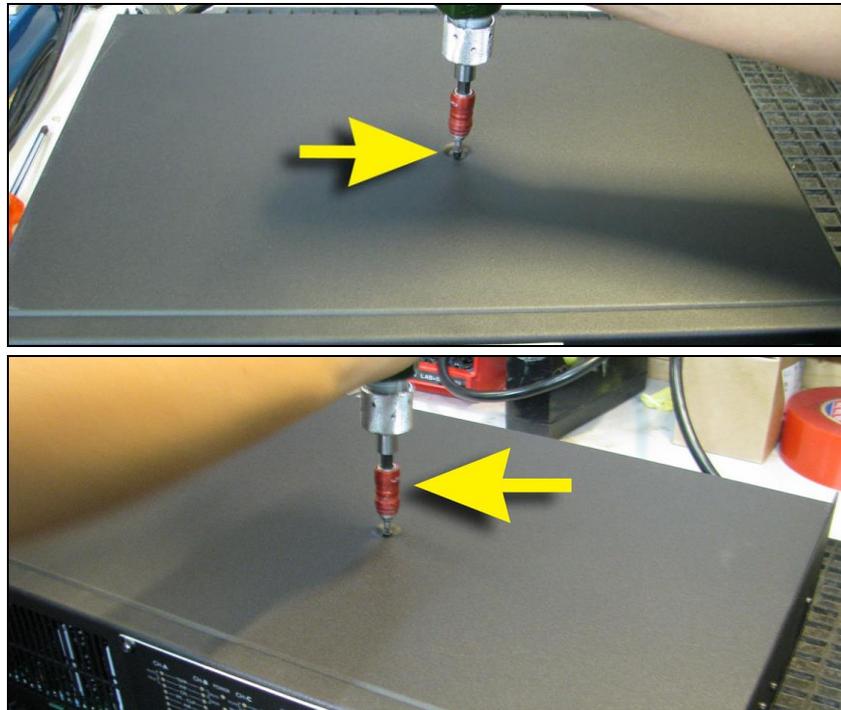
### Instruction

Part No.	Description	Amount	Info	Pos
1N4004	Diode Power 1n4004	1		See instruction
470n200VX7R 10%5	Capacitor Ceramic 470n 200V X7R 10% 5mm	1		See instruction

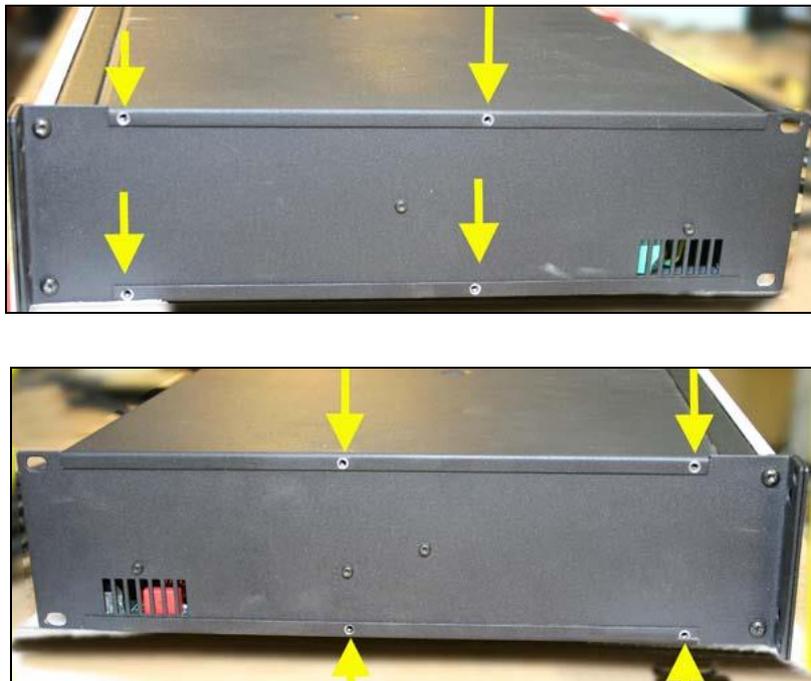
1.	“New “components in Schematic.		
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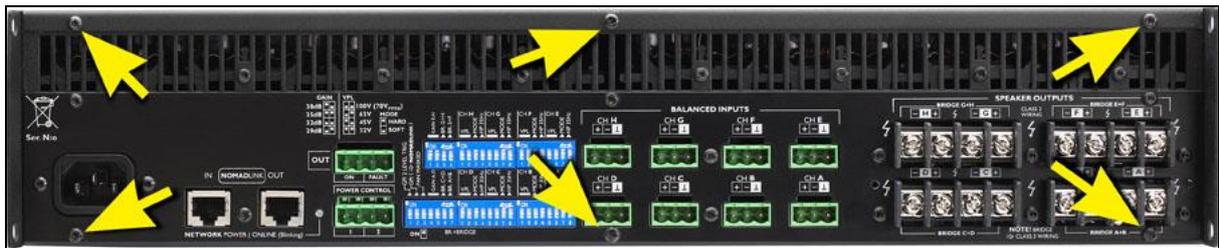
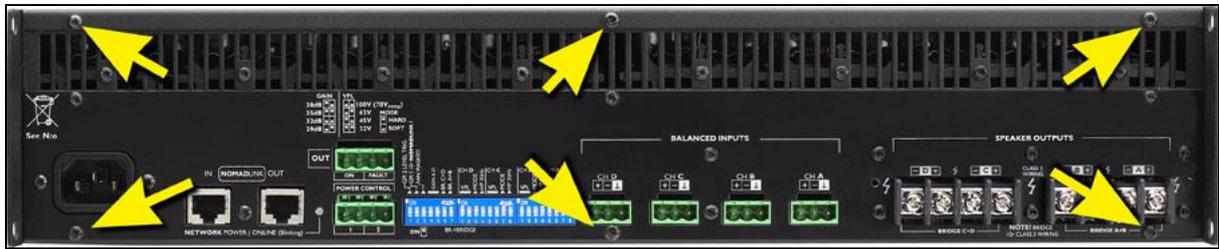
2.	Remove the screw from the bottom and top cover. Remove the cover.		
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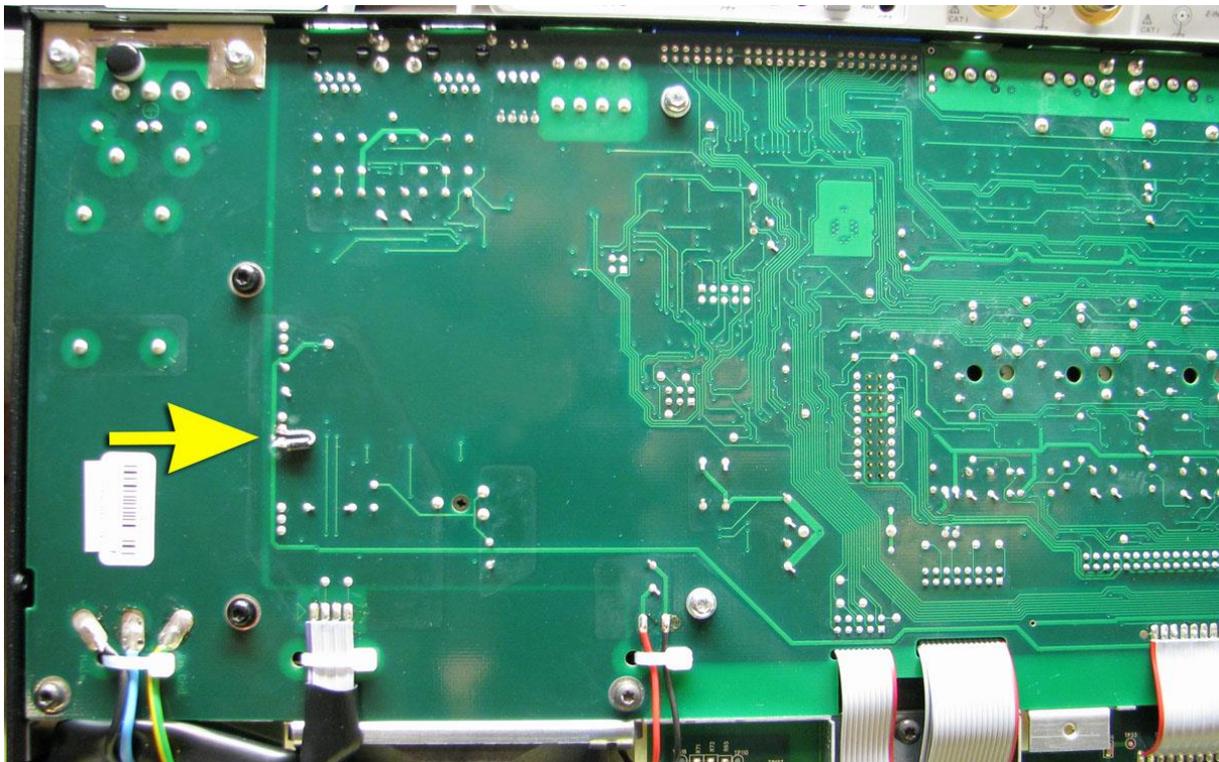
3.	Remove screws from the side panels.		
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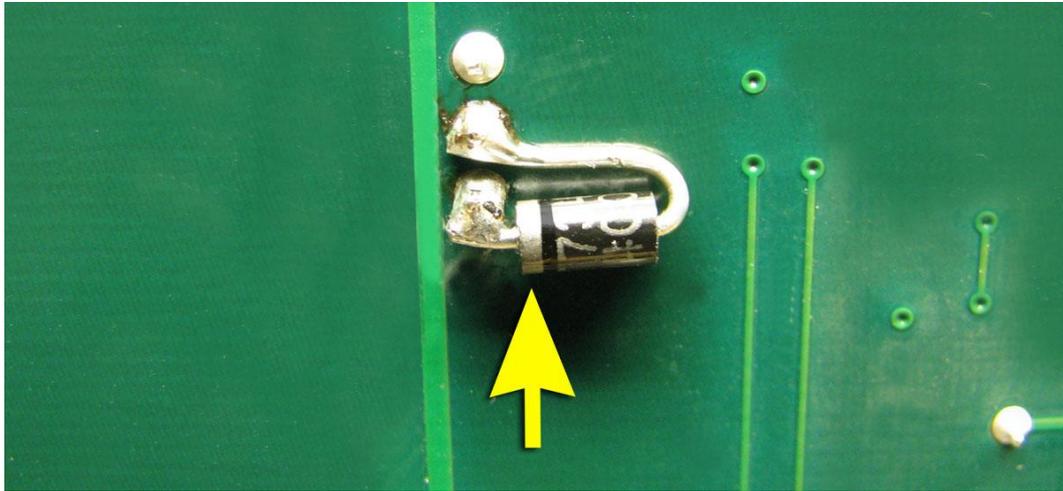
4. Remove screws from the rear panels.



5. Form diode, cut legs and solder according to picture.  
Make sure that diode is close to pcb as possible.



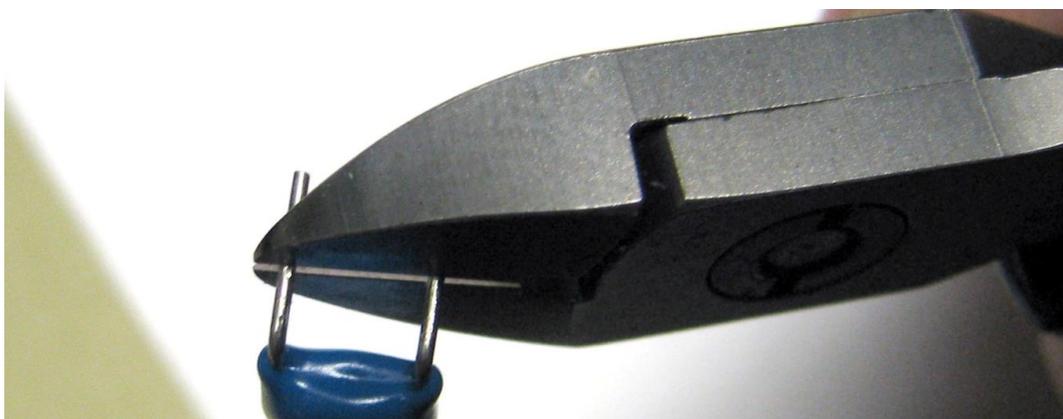
6.	Note! Please note the direction of the diode. Incorrectly mounted major damage can occur.		
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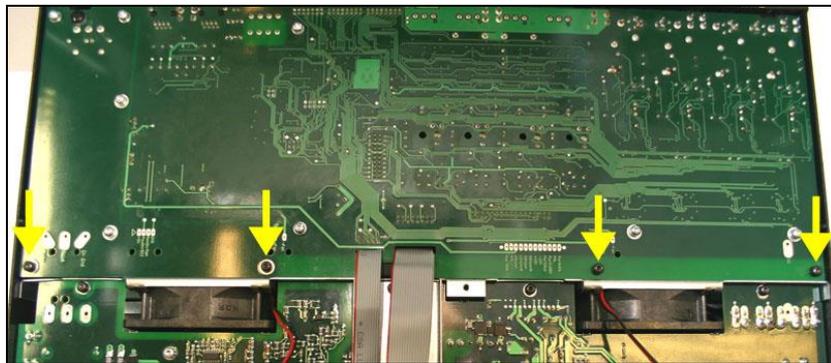
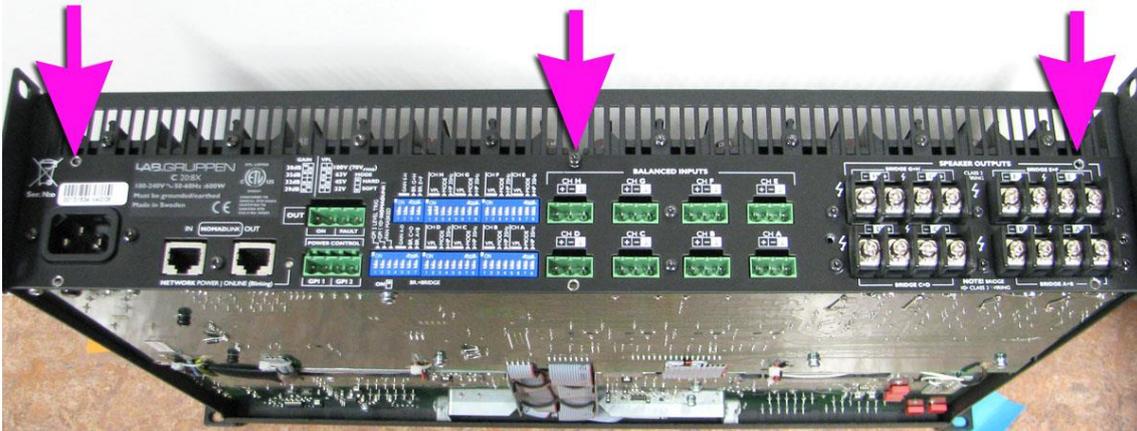
7.	Form capacitors legs according to picture.		
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8.	Cut of legs according to picture.		
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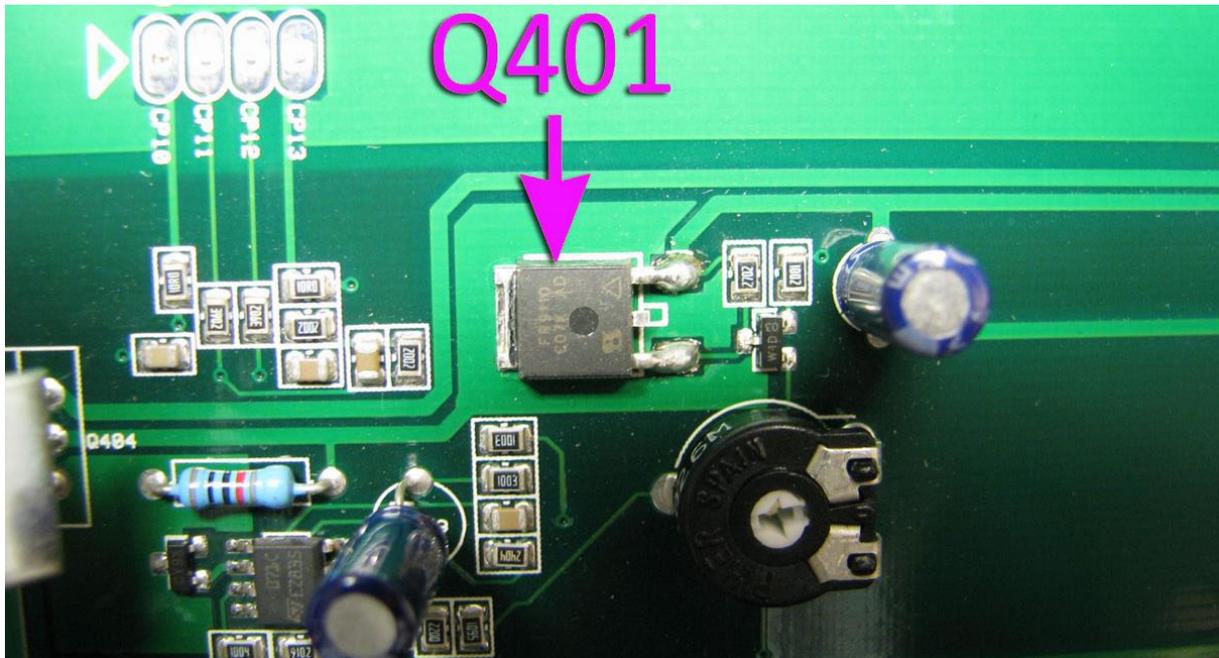
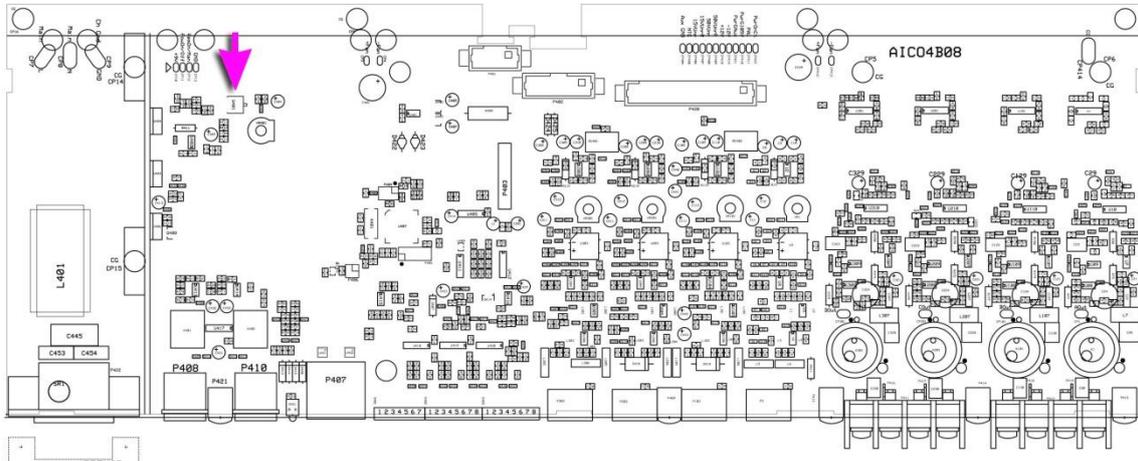
9. Remove screws from rear panel and AICO pcb.



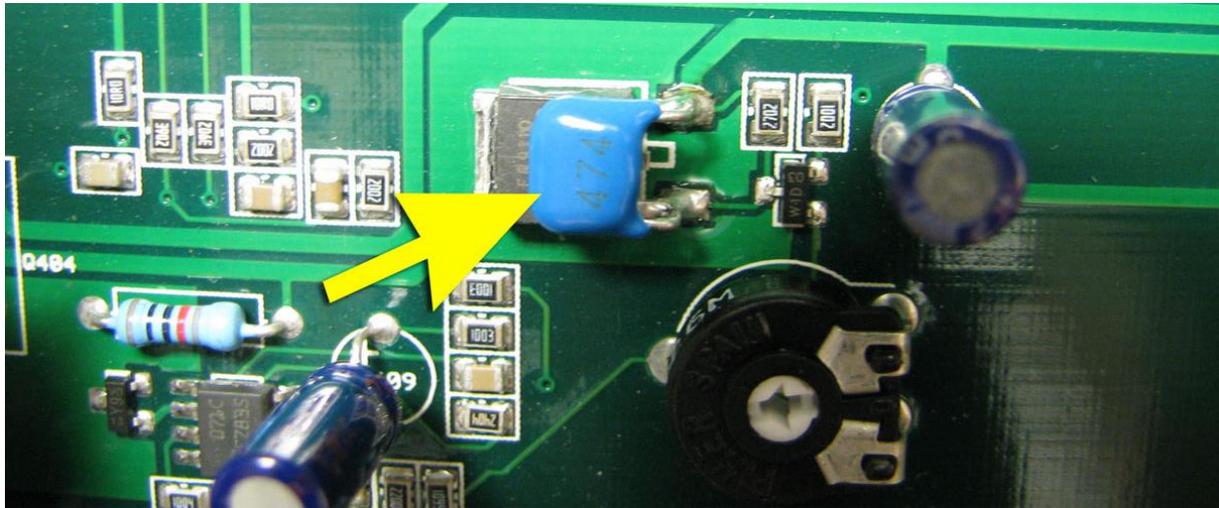
10. Fold gently AICO according to picture.



11. AICO4B overview. Capacitor should be placed on top of Q401.		
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12.	Solder capacitor according to picture.		
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13.	Assemble all parts and fasten screw.		
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### **Serial numbers**

14.	From serial number <b>00163154</b> and below could be affected.		
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### **Service repair report forms**

Write "Technical Service Bulletin no.21" in the service repair report form, column "Repair Remedy" besides other normal repair information.

### **History**

Date	Created By	Status	Bulletin no.	Comment
20110201	LP	OLD	21	
20140403	AR	SHARP	21	Updated with service repair report form information