

---

Subject: Distorted output

Posted by [cassent5150](#) on Thu, 08 Mar 2012 19:37:59 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I have a K200-2 I'm working on and I'm having a problem with the preamp signals when they are both hooked up. Each channel sounds great when hooked up independently. This came in as an empty chassis with a 303 board and face plate. I robbed the transformer, rectifier, power filter caps and output section from a K-III (PC-5065). I got the 303 up and running and installed a PC-105 in the non effects side and ran each pre amp outputs through a 33 K resistor and hooked them together into the input of the PC-5065. I found that this reduced the signal a bit too much. I went strait in with no resistor and had plenty of volume on the 105 but the 303 is dim and distorted. I tried putting resistance in the 105 output but can't get the distortion out of the 303 unless I totally unhook the 105. The 303 is clean and strong then. Anyone have any ideas?????

---

---

Subject: Re: Distorted output

Posted by [chicagobill](#) on Thu, 08 Mar 2012 21:16:54 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Is there any dc voltage present on either preamp output?

---

---

Subject: Re: Distorted output

Posted by [cassent5150](#) on Thu, 08 Mar 2012 23:10:11 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

As a matter of fact I do. With no load or input and all controls full open 303 has .31 + and 105 has 1.2 + at the output.

---

---

Subject: Re: Distorted output

Posted by [chicagobill](#) on Thu, 08 Mar 2012 23:22:17 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Try changing the output coupling caps on the two preamp boards.

---

---

Subject: Re: Distorted output

Posted by [cassent5150](#) on Fri, 09 Mar 2012 05:24:05 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I replaced both caps at pre amp output wire and voltage is .05+ and .02+. The caps on both boards were in backwards compared to a good PC-105 I had handy. We have clean signal on both channels. I think we're good now. Thanks for the advice!!! Steve C

---

---

Subject: Re: Distorted output  
Posted by [chicagobill](#) on Fri, 09 Mar 2012 06:20:05 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Good to hear that it's working.

Just be sure that when you measure the voltage across the cap that it is higher on the positive marked side.

---

---

Subject: Re: Distorted output  
Posted by [steven](#) on Fri, 09 Mar 2012 11:20:06 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Its so pleasing when a fix is simple is it not?

---

---

Subject: Re: Distorted output  
Posted by [cassent5150](#) on Fri, 09 Mar 2012 15:03:10 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Yes the simple fixes are a pleasure. Now, maybe I can figure out that PC-900 with the darn + voltage in the output. I'm cooled off enough to give it a rational look over. Steve C

PS Thanks chicagobill for the tip on the higher voltage at the + side of the outputs coupling cap

---