Subject: DeVille 212 amp trouble.
Posted by James on Sun, 23 Apr 2006 00:09:12 GMT
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HelpBlowing one of the 6L6's after short use. Bias trouble?thanks JIM

Subject: Re: DeVille 212 amp trouble.
Posted by Damir on Sun, 23 Apr 2006 07:18:39 GMT
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It`s hard to say - see the answer to the similar message. You can try to measure all the voltages on tube sockets, even without opening the cover. If you don`t know how to mesure HV safely and check the bias - maybe trip to the tech is in order?
http://audioroundtable.com/GuitarAmp/messages/375.html

Subject: Re: DeVille 212 amp trouble.
Posted by James on Sun, 23 Apr 2006 21:28:21 GMT
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Hey thanks for your quick reply. I checked all the pin voltages on both 6L6's with the tubes pulled.They are as directed. Got nice heater volts, 500v B+, and -50v bias on the grid. I'm lost. Short of simply changing out the electrolitic caps, I'm looking for a techy guy to take over! Thanks again JAMES

Subject: Re: DeVille 212 amp trouble.
Posted by Damir on Mon, 24 Apr 2006 12:36:22 GMT
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If all those voltages are OK, then chances are that you`ve just had the bad tube. Try another good tubes, but look to the plates - if they turn red, switch it off immediately!(The proper metod, of course, would be monitoring cathode current through small R=10 Ohms between cathode and the ground - 30...40mA of standing current.)

Subject: Re: DeVille 212 amp trouble.

Posted by James on Mon, 24 Apr 2006 20:59:53 GMT
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Well, this might be my lucky day. With all the voltages okay, I used a trouble light and magnifying glass and found some cold solder joints where the tube socket meets the PC board. A few minutes later, bingo! I THINK the trouble has been resolved. Can tell more later. Again thanks for all the tips and ideas...JAMES

Subject: Re: DeVille 212 amp trouble.
Posted by Damir on Tue, 25 Apr 2006 11:07:49 GMT
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With absent negative "bias" voltage on g1 (pin 5), the tube "draws" large current and quickly overheats. PCB traces can be "intermitent" `cos of heat, vibrations and by pushing tubes in the sockets. Clean burned carbon marks (conductive) on the tube socket, if old tubes remained any. Good luck!"That`s one small step for a man, one giant leap for manikin."