Subject: Filament Caps
Posted by Manualblock on Fri, 04 Mar 2005 12:47:19 GMT
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Anyone; while I wait for the 10k caps to be delivered; why can't I use the original 4.7K filter caps again??

Subject: That's what I used
Posted by colinhester on Fri, 04 Mar 2005 14:03:41 GMT
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I used what was on the heater schematic, which was 4.7 mF (4700uF)and I believe 25V rating. See link below and remember the resistors were changed to 2 and 2 ohm.....Colin
http://audioroundtable.com/GroupBuild/messages/397.html

Subject: Re: That's what I used
Posted by Manualblock on Fri, 04 Mar 2005 14:22:44 GMT
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Thanks Colin; I am somewhat upset now. Where did the 10k come from??? I am sitting here like a nitwit waiting for some caps I don't even need!I have that schematic but somehow I got the impression it was changed.Jeez.

Subject: That's what I used
Posted by PakProtector on Fri, 04 Mar 2005 14:29:28 GMT
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4k7 uF is aceptable, so is 10k uF. I ran a bit on the iffy side with 10k uF @ 16 V. I hope yo guys can see the risk in that. L-C filter with ~18 vac will over-voltage them in a big way if no load is applied to the filter.10k was just as easy for me to get as 4k7. You'll be fine w/either. I keep forgetting to limit your options, and act like a dictator.Gilligan, dreaming, promises the crowd, "this, that, and the other thing..."regards,Douglas

Subject: Less ripple w/10k uF

Posted by colinhester on Fri, 04 Mar 2005 14:47:20 GMT
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Ran a PSU simulation using 4.7k vs. 10k uF in the RCRC heater. 10k gives a lot less ripple if used in the first position (the one closest to the diodes) A change in ripple was not even noticed if the value was increased in the second position (cap closest to load) From this, you might want to hold off and use the 10k's. It sure looks like you'll be better off.....Colin

Subject: Re: Less ripple w/10k uF
Posted by Manualblock on Fri, 04 Mar 2005 15:06:36 GMT
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Dictator; thats good, I like that. I want to get going here, before you guys move on and I am just a faint echo in the distance "Hallooo?"I may need to post photo's for help; is that too much, like hogging the action? Don't be afraid to tell me; I'm not sensitive.Also it don't matter; as far as perfection; all will change eventually anyway;no?

Subject: Re: Less ripple w/10k uF
Posted by PakProtector on Fri, 04 Mar 2005 16:21:12 GMT
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Hey-hey!!!,I'll help if you post photo's or not. Until You're satisfied.regards,Douglas

Subject: Re: Less ripple w/10k uF
Posted by Manualblock on Fri, 04 Mar 2005 17:15:18 GMT
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"I just can't seem to be satisfied!"; Muddy Waters.(M'Kinley Morganfield.)

Subject: Is cap size worth increasing in heater PS?
Posted by colinhester on Fri, 04 Mar 2005 19:18:03 GMT
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From a PSU simulation, it looks like ripple is really reduced by increasing the size of the capacitor that is closer to the diodes - not quite as much as the LCRC but still reduced. In your opinion would it be worth John replacing the first cap with the 2 10uF in parallel and using one of his 4.7uF in the second position. I'm thinking of adding a 10uF in parallel across the 4.7uF I already have installed, giving a total capacitance of 14.7uF.....Colin

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Subject: Re: Is cap size worth increasing in heater PS?
Posted by Manualblock on Fri, 04 Mar 2005 19:35:49 GMT
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Say Colin; are you up and running yet?

Subject: Up and running w/ about 15 hours on the pre
Posted by colinhester on Fri, 04 Mar 2005 19:43:21 GMT
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Yes, it works very nicely, but I gotta go back and cut some long leads, dress up the wire routing and retouch some solder joints. I do have very minimal 120Hz hum in one channel only. This should not be too hard to track down (now there's some famous last words.).....Colin

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