
Subject: Would Anyone Feel Like Discussing DC Filament Supply Methods?

Posted by [Manualblock](#) on Sun, 23 Jul 2006 16:13:40 GMT

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How about separate supplies for the Driver tubes and the Power tubes? I would love to hear some good ideas and how they are implemented here. Thank You.

Subject: Re: Would Anyone Feel Like Discussing DC Filament Supply Methods?

Posted by [Damir](#) on Mon, 24 Jul 2006 12:12:07 GMT

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IMO/IME and generally:-with indirectly heated tubes and a power amplifiers, DC supplies for the heaters (both driver and output tubes) are often not necessary, especially with PP amps-preamps, especially low-level signal types (mics, RIAA) usually need DC-powered heaters-filaments in DHT-based power amps (power tubes) can be AC operated, but sometimes DC is needed, in SET low power amp + high efficiency speakers cases. Some people claim that AC sounds better, especially in comparison with simple/bad DC filament supply -there are several types of DC supplies - from simple, passive types (CLC, CRC...) to the regulated ones. With IDHTs, simple series voltage regulators (transistors or ICs) are "good enough". But, with DHTs (where filament = cathode = signal path), probably more "refined" versions are in order (CCS, shunt regulation...)-see, for example, some heaters/filaments and supplies article by Mark Kelly: <http://www.members.iinet.net.au/~quiddity/audio.html>

Subject: Re: Would Anyone Feel Like Discussing DC Filament Supply Methods?

Posted by [Manualblock](#) on Mon, 24 Jul 2006 13:53:59 GMT

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Thanks D; that is a very good article. What empirical evidence can you offer regarding why you used what you used in your 300b amp.

Subject: Re: Would Anyone Feel Like Discussing DC Filament Supply Methods?

Posted by [Damir](#) on Mon, 24 Jul 2006 17:56:57 GMT

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No evidence you can find - I even wiped up fingerprints from the tubes...

<http://www.lyricsbox.com/television-lyrics-prove-it-hzw4zrzr.html>

Subject: Re: Would Anyone Feel Like Discussing DC Filament Supply Methods?

Posted by [Manualblock](#) on Mon, 24 Jul 2006 19:42:09 GMT

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I have a very good design and explanation for a PS used in a SE 300B built by J.C. Verdier written up in SP # 14. If you won't share yours I will have to study his; so there! Only his is regulated. Pete Millet has a regulated supply he did for a pre-amp that uses two EL 34's as a CCS. That looks interesting. Lots of folks like the tuner tube front ends now; why is that?

Subject: First question...

Posted by [PakProtector](#) on Mon, 24 Jul 2006 23:38:36 GMT

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are you sure you need them? or is it a 'Want' thing?I can see the use for front end stages of a high gain amp, but I have not found them a requirement on my normal designs(that are high enough gain I can get by with no additional gain).cheers,Douglas

Subject: Re: First question...

Posted by [Manualblock](#) on Tue, 25 Jul 2006 14:04:48 GMT

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Well; I assumed that we want the quiet low noise floor for very efficient loudspeakers; no?

Subject: Re: First question...

Posted by [PakProtector](#) on Wed, 26 Jul 2006 23:42:20 GMT

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Well...I am not certain that DC is needed. I have heard AC amps with no hum. I would also suggest that making that much DC will have challenges all its own, and perhaps divert resources from other parts. It's also a noise risk itself, with multiple paths wo sneak in noise.it's an interesting challenge, and I don't feel qualified to say what should be done. Matter of fact, it's your amp, work it out, and learn a lot along the way, and then build another....)cheers,Douglas

Subject: Re: First question...

Posted by [Manualblock](#) on Wed, 26 Jul 2006 23:55:07 GMT

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Can't argue with that. Say; have you done anything with the Dyna ST 70 e-linear driver mod lately?

Subject: Re: First question...

Posted by [PakProtector](#) on Thu, 27 Jul 2006 10:39:14 GMT

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Hey-Hey!!!,I drew it, but I have no St.70 to experiment on. It's a remarkably generic front-end. With a few component changes, it can be applied to nearly any U-L final stage. So far I've only used it on DH finals, but any ole power tube should be just as happy. There's a few other folks who have run 6L6's with it.I need to work out some details on the 813 amp. I have to rig a fairly high-power umbilical for those 2-channel beasties. That and getting the Peerless S-271-S output's wound, stacked and waxed...:) That big 5k should make for an interesting comparison between the stock Citation II iron. Fortunately Heyboer is in no rush to get those TX's underway. The project is getting bigger and bigger, I suspect some of the issues will need solved as it is built. It will have 10VAC on its filaments.cheers,Douglas
