Subject: new arrival
Posted by PakProtector on Fri, 02 Dec 2005 23:10:14 GMT
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Hey-Hey!!!,My Harmon-Kardon Citation II just came in the mail. What a heavy beast!I took a close look underneath and found it complete. The meter is intact and no evidence of fire. Going to rebuild it and see if it lives up to expectations. Been wanting one of these for a while...:)If it lives up to its billing, I may have to borrow its output Iron for another project. I love the looks of this, it runs the outputs at 46 Watts of dissipation each, and allegedly is only happy with EI KT90's. Fortunately I do have a quad of those. The outputs are big, far larger than the can the Peerless S-265-Q came in. Guess that's the diff between a 40W and a 60+ Watt.Oh, didn't I have another project in the works...so easy to get distracted.cheers,Douglas

Subject: Re: new arrival
Posted by Manualblock on Sat, 03 Dec 2005 12:41:29 GMT
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Stu Hegeman designed that amp; no? I have a friend who owns several as well as the Citation I pre-amp and a Citation V. He won't buy anything else and I do think that is some of the best sounding vintage stuff around. Ballsy.

Subject: yep...
Posted by PakProtector on Sat, 03 Dec 2005 13:09:21 GMT
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That is Stu's amp. It is going to need some serious rehab. The plastic insulation is breaking down into a sticky gooey mess. The cloth covered stuff is not so bad, but I am not moving it back and forth much while I am under the hood.And then there is all of the rest of the circuit. Most of the values on the bigger resistors are marginal. It was just painted on the big brown bodies. Fortunately the replacements are already gathered up in kit form. Just need to get a few minutes so I can fix it all up. Going to go and model the PS, I have some 1k2v SiC diodes from Cree that should do a bit better than the ancient originals. I suspect that the doubler circuit is going to have some big spikes of current delivery. No sense toasting them...cheers,Douglas

Subject: Re: new arrival
Posted by Tre' on Thu, 08 Dec 2005 23:48:14 GMT
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"I may have to borrow its output Iron for another project."Douglas, I just built PP 300b with those transformers. Sounds good. I have my 8 ohm speakers connected to the 4 ohm tap. The loss of bass due to the lower relative inductance doesn't bother me as I am bi-amping into my subs at 100hz.Have Fun...Tre'

Subject: Picture
Posted by Tre' on Thu, 08 Dec 2005 23:52:31 GMT
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http://www.dock.net/tre/300bPP.jpg
300b PP

Subject: drool-drool!!!
Posted by PakProtector on Fri, 09 Dec 2005 00:20:50 GMT
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Those are some *SWEET* looking pieces of ndustrial Art. Very pretty. Are those the 3k8 or 3k2 a-a ones? I have the 3k2, and they ratio out near perfectly at 3k1 on 4, 8, and 16.Draw a 1k6 load line on an 813 with 30% U-L, and B+ of 650-700V. Idle at ~140 mA and I am off to the races with this pair of Iron. I am figuring about 75W or so and being Class A all the way. I have some special power Iron on the boards with Heyboer. Half an amp DC from 500 to 700V with a few stops in the middle.None of this Class A to Max-Power/N(with N being an integer larger than 1), and Class AB1 at Max-Power pile of Marketing beefalo-chipz....:)I am first getting a kit from Jim so I can resurrect the amp and listen to it. Got a few pairs of Tektronix matched 12BY7A's in the stash to try on that one.

Subject: Re: drool-drool!!!
Posted by Tre' on Fri, 09 Dec 2005 01:18:09 GMT
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They are the FT3273671A. In 1990 John Atwood tested them at 3K5 on the 8 ohm tap.Tre'
Atwood transformer tests

Subject: Re: drool-drool!!!

Posted by PakProtector on Fri, 09 Dec 2005 02:16:05 GMT
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hey-Hey!!!,My Citation II manual says that same part number applies to a 3k2 a-a. I heard there were two a-a loads, and mine ratio out at 3k1. Add DCR and we're *REALLY* close to 3k2.I don't suppose you'd care to check voltage ratio's with some 60 cps from a variac, would you? I am quite curious as to the exact details of the other version. If you do decide to get into it, could you also check the U-L tap location?cheers,Douglas

Subject: Re: drool-drool!!!
Posted by Tre' on Fri, 09 Dec 2005 02:39:54 GMT
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Next time they are on the bench, I'll check them.Howard Sams says 3K2 for that part number.Tre'

Subject: Re: drool-drool!!!
Posted by Damir on Fri, 09 Dec 2005 09:25:30 GMT
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Hi, Tre` - glad to see you here! Interesting amps - feel free to post a schematic/description in "Group Build" department.

Subject: Thanks Damir
Posted by Tre' on Fri, 09 Dec 2005 17:24:54 GMT
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They are really just the output stages. The left and right front ends (paralleled 6sn7, SS CCS loaded, cap coupled to a center tapped, phase inverting, grid choke) are on a third chassis with a LCLC power supply for the front end on a forth. The 300b's are running 72ma. cathode biased with 360VDC across the tube. I will be increasing the current in the output tubes slowly until I find that sweet spot. The output stage supply is 5u4 10HY 20uf (oil) 2.5Hy 40uf (oil) Tre'