Subject: Going to build Gunevere with you guys...
Posted by PakProtector on Sun, 20 Feb 2005 18:58:54 GMT
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slight changes to accomodate what I have on hand. Hammond 261G6 with a hybrid SS/valve rectifier(still a 6CA4). Amplifier valves are 12B4's 'cause I don't need the gain and I already have two holes in the chassis from when it was the Foreplay Imposter built with 5687's.L-C supply with the big cap and a 157G Hammond. Chassis is only 5 3/4 by 11. space is at a premium. I hope I can cram it all in.regards,Douglas

Subject: Photographic report, then?:-) /nt/
Posted by Damir on Mon, 21 Feb 2005 21:45:54 GMT
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nt

Subject: but of course...
Posted by PakProtector on Mon, 21 Feb 2005 22:34:59 GMT
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I have to get the R-set 1k trip pots. I hope R-S has them. I'm getting the little heatsinks from themtoo. 4-40 screws from Lowes to attach them to the TO-220 MOSFETS. I loked at the box, there is no way I'm getting one of those 100-mike Pop-can sized caps under there. the sol'n is even cheaper. A trip to the photo shop for some disposable flash cameras. They have 100 uF/330 volt flash caps inside. a few hundred mikes of them ought to do the trick. I may put in a 6NO30 delay relay to turn on the 6CA4's heater...probably just put in a 40k bleeder resistor. Perhaps 33k as I have soem IRC GS3 3W metal film. The small resistro provides enough draw to pull the voltage significantly lower than root2* RMS.I hope my camera works well enough with close ups.This is what it looked like with two 5687 and ForePlay circuit.regards,Douglas

Subject: Re: but of course...
Posted by Manualblock on Mon, 21 Feb 2005 23:09:42 GMT
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So now you tell us. Disposable camera's; let me see $1.99 vs. $8 for oilers. Hmmm.O'Kay.So how can you fit the Heyboeur on that tiny plate? The trans is bigger than the chassis.Seriously; those

amps look like Eiclone's. Nice.So far my chssis is the size of a microwave oven.

Subject: Eiclones?
Posted by PakProtector on Mon, 21 Feb 2005 23:58:50 GMT
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Please check the scale. those power valves are KT90's not EL84's. The OPTx is the Dynaco A441 and the choke in the middle is as big as a Mk.III OPTx. There's 280 uF of GE oilers underneath. they're two person amps.The parts compromises are Time expedients. I could make another plate, but that would take a bit ov time. Poke one more hole or start from scratch. The photo-flash are a second choice by a mile. They are easy to get and small enough. they're better than a lot of 'lytics. Just not all that compared to a good oiler.I am putting in a Hammond 157G, the little one from the cheap build I think. I have a 193C and may try cramming it on top. Look at my new linestage, I'm not restricting myself. I also want it done in time for the Bottlehead meet in Maryland in March. Nice exposure with pix and everything.regards,Douglas

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Subject: Re: Eiclones?
Posted by Manualblock on Tue, 22 Feb 2005 11:56:08 GMT
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Yes they are gorgeous. Eiclones use KT 88's and Dyna Iron also. They are on the DIY tube site. Or some build them with custom Iron. They are copies of the old Eico HF-89 circuit. The photoflash caps like the ones in a Foreplay; right?

Subject: Re: Eiclones?
Posted by PakProtector on Tue, 22 Feb 2005 13:25:17 GMT
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Hey-Hey!!!,I don't think the ForePlay comes with Photo-flash caps. I think they are Panasonic TSHA. The circuit of those amps uses the tertiary widing in the OPTx for cathode feedback. Cascaded diff amps, a 6BL7 to a 7236 was the last combo I tried. It sounded great. The OPTx was definately the limiting factor. I am designing a replacement on a smaller core with a better interleaving schedule. I am aiming for the Quad II 9 3/8:1 ratio. It is taking a bit of iterating, that's for sure.Remember, the flash caps are a budget and space expediency, I don't think they are designed for continious charge storage. They seem to survive it adequately(and I can put together a few hundred uF from a parallel connection). If I didn't already have most of a chassis ready to go, I'd use the motor run caps I have in a box in a second.regards,Douglas

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Subject: Re: Eiclones?
Posted by Manualblock on Tue, 22 Feb 2005 16:15:46 GMT
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Ahh;I see, I remmember where I saw the photo flash caps now. The Eiclones use the Dyna 441 trans also.

Subject: changes
Posted by PakProtector on Wed, 23 Feb 2005 01:56:43 GMT
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Well, after I got the little DH amp up and running, I did some surgery. I had been experimenting with pentode front ends. same general format, ground one grid, apply signal to the other and put a good CCS under the cathodes. So I took out the A441(had been runnig it Quad II style with cathode NFB with its Tertiary winding) and put in the A431(the Mk.III OPTx). I needed the screen taps for the E-Linear connection for the front end. 12BY7A's with a shunt regulator for its screens. It Rocks. Almost 40 watts. It makes a lot of heat though.The Dynaco OPTx is what is holding it back. I need better Iron. Not that it's bad, just the rest is that good.regards,Douglas

Subject: Re: changes
Posted by Manualblock on Wed, 23 Feb 2005 12:48:04 GMT
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Wait a minute; how do you know that? Is it the fact of lots of heat? The 431 is a pretty good trans right? What was it that clued you in to the trans? This anecdotal evidence is enlightening.

Subject: Re: changes
Posted by PakProtector on Wed, 23 Feb 2005 12:58:39 GMT
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The heat is just a side issue. No relation to the overall sound. I borrowed another TX and the amp improved. Close to the same loading a-a, and tap points. On the 441 I found a few really silly behaviours, which would not have been there if the thing was properly coupled.The 431 is a fairly simple wind. Not nearly as complex as another I have used(and had wound, and seen the instructions for). They're not bad, just not excellent. If we want to build like Doc Bottlehead does, the Dynaco stuff is a reasonable starting point. Doc's stuff is adequate but usually leaves you wanting more, hence the upgrade steps he offers. It is also allowing him to put a product out at

near the bottom of the price pile. Not criticizing Doc, just explaining as I see it. I hope it does not offend anybody.regards,Douglas

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Subject: Re: changes
Posted by Manualblock on Wed, 23 Feb 2005 16:22:35 GMT
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Not at all; I have a maxed out Foreplay and have always obtained that it is very good for the money, but not really up there with the big boys.Actually thats why we're here.What I notice is something that while may sound simplistic always seems to be the case, BIG trans/caps and tubes=Big sound.(5687 notwithstanding)Say how is the Peerless thing going for you?You know they just as of last week made huge volume's of Patents available free due to some lawsuit.The Heybeour is definately a more substantial product than the Dyna. And better finished also.She's a beauty.

Subject: acquisitions
Posted by PakProtector on Wed, 23 Feb 2005 19:37:52 GMT
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Hey-Hey!!!,Life is good. I just picked up a piece of old lab equipment. Stuff inside is pretty nice. One eachof LS52 and LS54 UTC Linear Standard OPTx's. 8k a-a to voice coil and beyond. Getting them out ov the pots is going to take a bit of research into the assembly. The one with secondary taps to 500R I think would make an awesome headphone OPTx. They're 20 watts and 20-20 Plus in response(7 to 50k ?).If you think of an amp as a modulated power supply, it makes perfect sense to make the PS as tough and capable as is possible. This sometimes gets into Forklift territory, along with consult your floor loading specification...I'll say about the OPTx project that it is going well. I am designing a new wind and hope to get Phil at Heyboer making me the first prototype. It's a Tertiary winding design, similar in operation to the big Dynaco A441, but done a bit differently. Something more like a Quad II OPTx in turns ratio. It is about a project and a half out. I can't make up my mind what valve to use with it. Probably 813...that one has got too much potential. Run it gently and take ~60W or so in Class A. Definaltely a winter amp.'block, just to refresh mymemory, you got the 8039 choke for Guinevere didn't you?regards,Douglas

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Subject: Re: acquisitions
Posted by Manualblock on Wed, 23 Feb 2005 21:33:10 GMT
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Actually I went with the Hammond 139. I went there for the 6CA4 and while there I just went

ahead and ordered it. Time is ticking and I still don't have all my parts so at this point I just grab what I can.I may be live with you later this week with some questions if thats allright?While we are at it; short explanation of Tertiary winding and why that is beneficial? Can Heybeor do c-core or other variations do you know?