Subject: Power Tx question - Dumb question
Posted by colinhester on Fri, 10 Jun 2005 15:51:54 GMT
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I'm looking at an 811 SE schematic (Vacuum Tube Valley, Issue 5, pg. 22) that calls for a 800VCT power transformer. Should I be looking for a 400-0-400 or an 800-0-800 transformer?.....Colin

Subject: Re: Power Tx question - Dumb question
Posted by Manualblock on Fri, 10 Jun 2005 17:35:41 GMT
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Jeez; didn't you just build a state of the art tube pre-amp? The 800v is the entire coil, centertapped would indicate 400-0-400; just like Guinevere, 350-0-350. Did you get the 45 schematic from SP?

Subject: Re: Power Tx question - Dumb question
Posted by colinhester on Fri, 10 Jun 2005 18:25:37 GMT
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Man, ask a simple question..... Which of the variations of the 45 would you consider?.....Colin

Subject: Re: Power Tx question - Dumb question
Posted by Manualblock on Fri, 10 Jun 2005 19:50:37 GMT
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You know I am probably not qualified to answer that; I never really spent serious time with either amp using that tube. You should look at the SP amp though; because as Akhilesh says in his post, the DRD is just a way to try and save on OPT's. And I tend to agree with his point. The SP is more like a normal design and heck; if it is good enough for Gordon Rankin.There is no free lunch.

Subject: Re: Power Tx question - Dumb question
Posted by colinhester on Fri, 10 Jun 2005 20:15:17 GMT
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I'm not going DRD. This is a straight 811 SE using a 6EA7 as the driver. There is one cap in the signal path, and the price of the OPTx (Electra Print MT5KB) about made me choke; so, there is no cutting corners to save money. What's killing me right now is finding the 20 (10 per channel) 10mF 660V oil caps for the power supply. Am I really going to build this? I don't know. I want to get a firm grip on the price before I commit.I will look over the SP amp more, but the 811 I'm considering is about as dead-nuts simple as you're going to find.BTW. The 811 amp is listed in VTV issue 5.....Colin

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Subject: Re: Power Tx question - Dumb question
Posted by Manualblock on Sat, 11 Jun 2005 00:28:39 GMT
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Thanks; I am going to fish that issue out and check up on it. I agree; at this point I am open to suggestions. And you know what? It is nice and relaxing just checking out different schematics and pondering a build.

Subject: Re: Power Tx question - Dumb question
Posted by colinhester on Sat, 11 Jun 2005 01:19:53 GMT
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I think once you read the article and see the schematic, you'll know why I'm pretty hot on this particular amp. The design is about as simple as one can get and still have a functioning amp. There are four resistors and one cap in the signal section; however, there is a ton of iron and many capacitors in the power supply. I really wish you would look this over and tell me what you think. It's nothing fancy; it's just the best of 1930s technology.....Colin

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Subject: Re: Power Tx question - Dumb question
Posted by Manualblock on Sat, 11 Jun 2005 01:45:11 GMT
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Good stuff. Little late now but tommorrow I'll definately look it over. Whats the rating 10 watts or so?

Subject: Re: Power Tx question - Dumb question

Posted by colinhester on Sat, 11 Jun 2005 03:14:44 GMT
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It's kind of confusing how the power ratings are stated, but, yes, it should be around 10 watts peak and 7 watts continous.....Colin

Subject: Re: Power Tx question - Dumb question
Posted by Forty2wo on Sat, 11 Jun 2005 04:18:39 GMT
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Hi Colin.I am siting on a Pair of new 400-0-400 transformers send me a copy of the schematic or a list of the volts and amps. Maybe I can Help...John

Subject: Re: Power Tx question - Dumb question
Posted by colinhester on Sat, 11 Jun 2005 04:24:19 GMT
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Awesome!! What I need are a pair of Txs rated at: 800VCT @ 210mA; 5V @ 2A; and 6.3V @ 5A. If you got something that will fit the bill, let me know and I'll try to take them off your hands.....Colin

Subject: ummmmm....
Posted by PakProtector on Sat, 11 Jun 2005 12:47:32 GMT
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A PS with 10 caps per chanel is *NOT* what I'd call simple. What is B+? if it is under 1kV, you can use 440VAC caps quite comfortably. GE dual rated theirs at 1kV DC and 440VAC. ASC is similar. The 440's from ASC are labeled 900 VDC. They also come in 40 uF cans.regards,Douglas

Subject: Clarification
Posted by colinhester on Sat, 11 Jun 2005 14:47:20 GMT
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The original article I'm getting the schematic from calls for some pretty rare caps: PCB-filled Cornell-Dubliner Model 121J. The power supply section is a 5R4WGT rectifier followed by an CLCLC. The first C is 10uF @1000V; L is 8H @200mA; next C are 5 10uF @600V; next L is 20H @ 50mA and the last C are 4 10uF @ 600V.I'm hoping, as you suggested, to use 50 and 40uF, respectively, in the last two C sections. The B+ is 430V, so it looks like stock 440V oil caps should do the trick across the board, including the 10Uf @ 1000V.Thanks for the help.....Colin

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Subject: shewwww...
Posted by PakProtector on Sat, 11 Jun 2005 15:11:14 GMT
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You can get away with 370VAC at that B+. They come packaged down to less than 5 uF too. I have some GE caps that are Pyranol filled and AC rated to 660vac. They make really nice speaker cross over caps. I replaced them with some 23F*** AC caps which are also PCB. They do sound good. Wish I had enough for use in a PS. The second place sol'n is the 440vac rated, modern motor-run types. A very close second I must say.I can't quite reconcile why what has to be a thicker film seems to sound better. Oh well, just because there are no answers today does not mean that they won't appear sometime If we keep looking.regards,Douglas

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Subject: Re: Power Tx question - Dumb question
Posted by Forty2wo on Sat, 11 Jun 2005 23:28:15 GMT
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Hi Colin,I think these are just the ticket.They are 800VCT @200ma, 5VCT @2A, 5VCT @3A, 6.3VCT @6AThere will be no problem at 210ma if you don't fully load all of the other secondarys.They were for the DRD but I have decided to go with a transformer that will support a 45 or 2A3 as well as 300B...More on this in a little bit Let me know and I will send them out...John

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