Subject: 45 SE
Posted by colinhester on Thu, 02 Jun 2005 17:29:25 GMT
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Any one ever build a 45 SE amp? Looking for suggestions and schematics.....Colin

Subject: Re: 45 SE
Posted by Manualblock on Thu, 02 Jun 2005 20:56:07 GMT
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Want a copy of The Bugle? It's Wavelength Audio's 45 published for private use in SP issue 13. There is a very thorough thread concerning 45's on ART or maybe in Pi Speakers. Many of us have heard the 45 in various configurations and it is discussed on that thread. In my opinion; not enough power for the Altecs.

Subject: Re: 45 SE
Posted by colinhester on Thu, 02 Jun 2005 21:43:29 GMT
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Yes, I'd like to take a look at it. IS this of their Sig 45? I've always liked the looks of Wavelength Audio, but their prices are well above what I can afford to spend. By the way, these guys are just right down the road from me. Maybe I should go over and do some dumpster diving.....Colin

Subject: Re: 45 SE
Posted by Manualblock on Thu, 02 Jun 2005 21:51:01 GMT
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Well; there you go! Just get those black ski mask and gloves and slip on in. Is Gordon Rankin still with them?I will send the Article ASAP.

Subject: Re: 45 SE
Posted by Mark Williams on Fri, 03 Jun 2005 03:34:47 GMT
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Hi,Here's one from Electra-Print I found last night.http://www.electra-print.com/2A3DRD.htmlMark

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Subject: Re: 45 SE
Posted by colinhester on Fri, 03 Jun 2005 04:02:22 GMT
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Thanks for the link. I forgot all about EP. Looking through their other schematics, I found a 45 .....Colin
http://www.electra-print.com/images/45DRD.jpg

Subject: Re: 45 SE and also 2A3
Posted by Mark Williams on Fri, 03 Jun 2005 11:39:04 GMT
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Hi Colin,I thought it was odd because earlier on I had seen a post where you pointed someone to the Electra-Print site.There's no pwr. supply for that 45 DRD posted. I'm interested in a 2A3 DRD myself, with SS rectifier, just like the Welbourne Labs.Do you know how to alter the 300B one shown on the Electra-Print site? Is that possible, or just a good idea to start from scratch? It seems the B+ of the 300B is much higher and also as I recall the heater voltage supplied too is higher. So, perhaps a different transformer is in order?I don't feel I know enough to design my own yet. I'm not very expert at electronics, just a rookie.Mark

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Subject: Re: 45 SE and also 2A3
Posted by colinhester on Fri, 03 Jun 2005 12:42:38 GMT
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That's what I get for trying to google and not think.Is the power supply not drawn at the bottom of the schematic? It's a B+ of 500V using a PWR45 Trans.What I know about power supplies could be written on the back of a postage stamp. I'm pretty much the newest newbie.I think Forty2wo (John S.) over in the Group Build Forum is going to build the DRD300b. John is a real good guys and helped us with the preamp build; he knows his stuff and might be worth pinging.....Colin
http://audioroundtable.com/GroupBuild/messages/1116.html

Subject: Re: 45 SE and also 2A3

Posted by Mark Williams on Fri, 03 Jun 2005 20:25:53 GMT
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Ah yes, Colin...We were looking at different pages, one of them with "drive" in the title does have the 45 amp power supply shown. This should work for the 2A3 as long as the heater voltage requirements are the same with the 2A3 and the 45. Will have to check on that.Good suggestion about the Group Build Forum. I just discovered it last night and did notice some interest in the 300B. Thanks for pointing me over there.These look pretty simple, so even "dummies" like us should be able to construct, right? Maybe with a little help from Forty2wo?Mark

Subject: Re: 45 SE
Posted by akhilesh on Mon, 06 Jun 2005 16:53:01 GMT
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I have a 45 amp. Works great! super transparent. muddy bass. -akhilesh

Subject: Re: 45 SE
Posted by DRCope on Thu, 09 Jun 2005 11:44:49 GMT
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Interesting. I'm using a Yamamoto A08 from Venus HiFi currently, and the bass is fast, tuneful and powerful - not just for a 1.5w amp, but period! It causes a fair bit of headscratching, but there it is just the same!

Subject: Re: 45 SE
Posted by akhilesh on Thu, 09 Jun 2005 15:48:34 GMT
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Cool. Mine sounds muddy in the bass, so I use it in a triamped system above 90 HZ, where it does fantastic!-akhilesh

Subject: Re: 45 SE
Posted by colinhester on Fri, 10 Jun 2005 18:58:52 GMT
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I heard the Yamamoto at Spkrman57's house a couple of weeks ago. We were listening through some high eff. JBLs LF drivers and Altec/Edgar/JBL horns with various drivers. The sound, especially bass, was a fast as I've ever heard. Also, for a 1.5-2 wpc amp, this thing has got some balls.....Colin

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Subject: Re: 45 SE
Posted by John Chleapas on Sat, 18 Jun 2005 04:44:39 GMT
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I have the tube rectified Welborne 45 and 300b DRD amps. I have a much different experience with 45 tubes. The bass is really fast on my 45 mono blocks. I used them for months to drive my 2-way speakers. The bass bins are jbl twin 15" wofers and 100 dB efficient. The bass is not muddy. These little 1.8 wpc mono blocks sounded great. They are driving my HF horns in my biamplified horn speaker set up. John C.

Subject: Re: 45 SE
Posted by akhilesh on Sat, 18 Jun 2005 19:17:15 GMT
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Sounds good! COuple of questions that will help us get more from you experiences:1. What is driving the LF part of your horn setup?2. Do you think the 45 will provide the same bass as a solid state for a cone speaker?thanks-akhilesh

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Subject: Re: 45 SE
Posted by John Chleapas on Sun, 19 Jun 2005 05:59:37 GMT
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1)Right now I am switching between 300b SET and pp el34 for my bass bins. Both do things that sound good to my ears. The pp are klimo kent and these are the best of the el34 amps that I have owned. The CJ Premier 4, 90 pound monster had incredible midrange. The klimo are better sounding. The 300b is 8 wpc and it is more than enough to drive my bass bins. 2) Dunno. To do this right you really need very efficient bass bins. My JBL twin 15" bass bins are rated at 100 dB efficent. So my teeny 1.8 wpc 45 tube pair of mono blocks can get plenty loud for my ears. I think it is more about the efficiency of the speaker and the quality of the tube amplifier, and its power supply for bass. My bass bins on paper state they can get down to 35 Hz. Prolly more like 40 Hz is realistic as I do not always believe what I read. I do believe what I hear with my own ears. I have used many tube amps from a 100 wpc CJ using 8 el34 tubes to my 1.8 wpc 45 amps. A lot

of folks are quite happy with solid state to drive their bass bins. I say to all go with what sounds the best to your own ears. There is no absolute right answer in home audio. We all chase the sound of live music and we all fall well short. The closest I have come is my 31" x 31" horns and my bass bins. John

Subject: Re: 45 SE
Posted by akhilesh on Sun, 19 Jun 2005 13:34:31 GMT
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I agree John! Your bins sound interesting! Can you tell us more about them, andif yuo have a link to them?thanks-akhilesh

Subject: Re: 45 SE
Posted by John Chleapas on Sun, 19 Jun 2005 18:04:12 GMT
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Hello Akhilesh. I have posted a link to similar speakers. I have he 2360A 31" x 31" biradial jbl horns. I am using tad td-4001 2" compression drivers in them. This is my "cobbled" together 2-way sspeaker set up I got for my Dad to replace the JBL L300 Summit speakers he had. I am using the L300 with a few different tube amps now in my apartment. The tad drivers I bought used and also the 2360A horns. The horns do not honk. I attribute this to their good design and the sweet sounding tad pro audio drivers. I bought my 4648A-8 jbl bass bins from the jbl tent sale a few years ago for the princely sum of $222 each bin delivered to my door by jbl. These bins are/were a great deal. On one of the other forums a guy was reporting he was having fun knocking things off shelves and shaking his whole house with them with a lot of serious wattage. These bass bins are quite decent sounding. They have a near zero WAF to be sure. When I play a vinyl album with a lot of percussion like "Rise" by Herb Albert you can feel the bass hitting you in the chest. I honesly have driven these 2-way speakers with single amps like my 45 mono blocks to loud SPL's. When I biamplify them with my marchand xm-126 vacuum tube active speaker crossover they sounded even better to my ears. I find myself switching back and forth between the SET 300b and push pull el34 mono block amps for the bass bins. Both tube amps sound good, and each adds a different flavor to the sound. I have also used a 100 wpc CJ tube amp. I sold that amp to a doctor because it was WAY overkill for the speakers power requirements. Plus the fact that my elderly Dad is profoundly hard of hearing. With this 2-way set up he heard female voices in his music for the forst time since he lost most of his hearing in WW2. But I was afraid he would turn off and turn on the stereo with the volume cranking with the CJ amplifier. Rebuilding the tad td-4001 drivers if he blew them up was like $800 each. Like I said in my view there is no absolute right or wrong way to power speakers between tube and solid stagte. Many enjoy SS to power their bass bins. They decide what sounds the best in their own set ups. To my ears I simply choose to use vacuum tubes for my biamplified speakers. I am wrong a whole lot but I believe that people who say the bass is not good with flea powered tube amps simply mated their speakers

and their amps "wrong." Meaning the speakers might not have been efficient enough. A stout power supply is very important if using tube amps with bass bins. I turn off my Welborne 300b amp and it continues playing for around 5 seconds. One of the small 11 wpc pp 6V6 amps I have in my apartment stops instantly when I turn it off. I am now using my Welborne 45 tube rectified DRD mono blocks for the HF horns. The linked jbl speaker set up looks exactly like my current set up for my Dad. John C.
jbl 2-way speaker info

Subject: Re: 45 SE
Posted by akhilesh on Sun, 19 Jun 2005 22:07:31 GMT
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Sounds like a sweet set-up, John! Thanks for sharing with us. I have often considered JBL cinema systems, andwondered if htey sounded good. Your insights are helpful! I have a pair of 1978 original (meaning totally stock) Klipschorns. I like the way tey sound too. Right now my common listening setup is a triamoe setup, with a HSu sub driving the bass from 25 Hz to about 90 HZ. It sounds fine for my room, and provides a good foundation. -akhilesh

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Subject: Re: 45 SE
Posted by John Chleapas on Mon, 20 Jun 2005 01:27:03 GMT
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Hi Akhilesh, I was looking at one time to trade my JBL L300 Summit speakers for a pair of much older Klipschorns. I heard these once. Many diss the mighty Klipschorn, but not me. They make some good sounding music, period. No speaker is ever perfect. I think the crossovers are the weakest link on these. Your triamplifying yours must make a big difference. Paul Klipsch made some outstanding speaker designs. When was the Klipschorn designed back in the late 1940's, or early 1950's? He is spinning in his grave at some of the consumer grade crappy speakers Klipsch is now selling after his recent death. I am speaking of the Best Buy grade of Klipsch. They recently eliminated one of my favorite's in the Cornwall. No doubt it was done by the bean counters sadly. I bet if you beefed up the power supply in your 45 amp the bass just might come alive for you. As for my speakers the jbl cinema series are sleepers. Not too many are using them for home audio. This is too bad because they are a great sounding pair of speakers. They are a real bargain when compared side by side with boutique audio speakers. John C.

Subject: Re: 45 SE
Posted by akhilesh on Mon, 20 Jun 2005 13:45:31 GMT
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HI John,The klipschorn is a great design, and I don;t want to alter mine, in homage to the genius of Paul Klipsch, the ultimate DIYer!BTW, when I say the bass on my 45s is not great, it could have been because of the Khorns, since they are old. I know the corssover needs new caps. My triamped setup is Not the Khorns, it's a DIY rig, consisting of a hsu vtf-2 sub, a pair of stephens trusonic 80Frs in bass refles cabs (tuned to 40 Hz) and a pair of vifa tweeters (dome). The crossovers are at 95 Hz, and at 3200 Hz. The 45Se Amp drives the trusonics.believe me, I LOVe the sound of the SET amps. My 45 Se amp delivers a level of realism and transparency that satisfies me completely. I don;t care what it is, the old fashioned AC heated DHT (like my 45, or a 300 b or a 2a3) offers somethng that is unique. The power supply on my 45 is already quite good (Pi filtered with a choke) , though the power tranny is a bit weak I think (it's a NOS stancor, but not overbuilt). Good feedback on the JBL movie speakers: I thought they would be good value, but yours is the first review I have seen of it. I hope people consider these, becuase JBL certainly knows how to engineer speakers. Hey, what do you think about these tripath chip amps? My Khorns sounded pretty good with those. -akhilesh-akhilesh