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Posted by [beto1](#) on Wed, 24 Aug 2005 22:13:31 GMT

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response, etc. I suppose that depends on the drivers, so also I will like to know if I can use just Eminence drivers or some others like JBL. Can I obtain the enclosure plans here? I'm planning to build something like these speakers to match with my Audio Note Kit One (300B SET). Thanks a lot in advance, Beto

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Subject: Re: Hola Beto; Hey Guys, Beto's in Chile and needs a little help

Posted by [Bill Epstein](#) on Thu, 25 Aug 2005 00:26:51 GMT

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Glad to see you found your way here. Just ask your questions and ask Wayne for plans.

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Posted by [Wayne Parham](#) on Thu, 25 Aug 2005 01:28:49 GMT

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Tell me your E-Mail address and I'll send you the plans. Frequency response is 40Hz to 16kHz, they sound excellent. In fact, that's one of the system combinations I used at the Great Plains

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Posted by [beto1](#) on Thu, 25 Aug 2005 02:08:44 GMT

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Hi Wayne, Thank a lot for your info. I'm planning to build hi-eff speakers for my kit one and now I'm researching which will be the best and affordable prospect. Here I have an Eminence dealer, I think also a JBL, so I suppose that I can get a good choice in order to avoid huge shipping cost. Can you tell me more about the best enclosure/driver option to fill completely my relatively small room (5 X 3.5 meters, but my equipment is placed, obligatory, on the large side, so I have just 3.5 "throw") Also this means that corners are far from the speakers position. Maybe I can put some partition wall or panel, at speakers height, to generate the corner situation. I'm thinking on the seven Pi

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model because it seems to be the most sensitive and full bass enclosure. Again, thank you a lot. Greetings from Chile, Beto (I sent an e-mail also)

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Subject: Gracias Bill!!  
Posted by [beto1](#) on Thu, 25 Aug 2005 02:16:57 GMT  
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Thanks a lot Bill for your help! Now I'm crazy searching here in my country for Altec and JBL vintage drivers, but they are hard to find in good working order (or they are absurd expensive like an Altec A7 system, in the past, my first choice) that I have found, so I decided to, eventually, move to a "modern" and affordable alternative. Eminence and JBL seems to be a very good alternative. Best regards, Beto

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Subject: You've got mail!  
Posted by [Wayne Parham](#) on Thu, 25 Aug 2005 02:47:12 GMT  
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Subject: Eminence or JBL  
Posted by [beto1](#) on Sat, 27 Aug 2005 02:03:58 GMT  
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Wayne, Thank you very much for your info and plans. Eminence or JBL? Which one is your personal taste? Regards, Beto

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Subject: Re: Eminence or JBL  
Posted by [Wayne Parham](#) on Sat, 27 Aug 2005 05:56:31 GMT  
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The JBL midrange has a shorting ring, so the all-JBL Professional Series system offers lower distortion. Sounds very nice. But the Eminence Magnum has a shorting ring so the Audiophile Series system sounds very nice too. To compare with amplifiers, the Audiophile Series has a sort of SET sound, where the Professional Series is more of a FET sound.

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Subject: Re: Eminence or JBL  
Posted by [beto1](#) on Sat, 27 Aug 2005 23:45:47 GMT  
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Hi Wayne, that means for a SET amp like my 300B AN kit One there is a better synergy with Eminence drivers? (there are other PI speakers models too). Do you believe that for this amp, in my described room, Eminence drivers will be the best option? I know this is subjective, but there are some parameters like soundstage, low level details, transparency, etc. I hear all kinds of music, but 60% of the time is acoustic jazz, 20% Classics, the rest is Rock, etc (including experimental electronic music) Sorry about this ton of questions, but this will be a blind purchase until I have built the speakers, so I need all the feedback from whom has experienced both configurations. Regards, Alberto

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Subject: Re: Eminence or JBL  
Posted by [Wayne Parham](#) on Sun, 28 Aug 2005 00:53:24 GMT  
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Both will sound fabulous with your amp. Their sound is similar, but the JBL midrange has a shorting ring so it generates less harmonics.

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Subject: Re: Eminence or JBL  
Posted by [beto1](#) on Sun, 28 Aug 2005 01:35:43 GMT  
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Hi Wayne, I forgot to ask you another thing. As I have said it, my room has 5 X 3.5 meters, but the equipment, obligatory, was on the large side, so the speakers "throw" was 3.5 meters, moreover, corners are far from them, so this attempt to the speakers corner design. This is a heavy situation? This attempt too much to the low frequencies? I know I can patch this, but if I don't, are the speakers perform too weak? Thanks, again, in advance. Alberto

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Subject: Re: Eminence or JBL  
Posted by [Wayne Parham](#) on Sun, 28 Aug 2005 04:14:59 GMT  
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if the room isn't too small. Your room is 16 feet by 11 feet, and that's a good size. If you put them along the 11 foot wall, the whole room from just a few feet back will sound good. With the

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speakers on the 16 foot wall, the best area will move back a little more from the common wall, but I think it will sound good throughout the room.

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Subject: Re: Eminence or JBL  
Posted by [beto1](#) on Mon, 29 Aug 2005 01:06:11 GMT  
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Hi Wayne,thanks for your advices. I think if I place the speakers on the large side, at 6 or 6.5 feet (around 1.8 or 2 meters), one each other I can put some panel or separation wall (with the speaker height and deep) on each outter speaker side to generate the corner situation, then the best area will be at 3 or 3.5 in front of them. Do you believe this will be a good solution? This is my actual configuration but with KEF bass reflex design speakers who don't need corners.Regards,Beto

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Subject: Re: Eminence or JBL  
Posted by [Wayne Parham](#) on Mon, 29 Aug 2005 01:11:55 GMT  
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No, use your corners if you can.

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Subject: CORNER SITUATION  
Posted by [beto1](#) on Mon, 29 Aug 2005 11:27:37 GMT  
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Hi Wayne,thats the problem also, on the left corner, large side wall, there is a door, so I cant use this corner. I have plans to modify the house, specially this situation, (I live in a house that is not my design) but not at the short future.So, the next question will be how well is the performance for corner speakers design that is not placed on the corner. I supose that this affect low frequencies.Regards,Alberto

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Subject: Re: CORNER SITUATION  
Posted by [Wayne Parham](#) on Tue, 30 Aug 2005 04:59:55 GMT  
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If it isn't in the corner, several things happen. None of them are terrible, but none are really good either. The corner forces all sound to radiate into the room from the apex. It limits the radiating angle to 90°, and this increases the intensity of sound. It also prevents sound from reflecting off the back or side walls, because that is their launch point. Sound travels along them or out into the room rather than bouncing off them, so early reflections are reduced. The midrange and tweeter horns are also 90° horns, so their pattern remains within the wall angle too, again, reducing early reflections. If you move the speaker so that it is no longer in the corner pointing into the room, you lose some or all of these benefits.

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Subject: Re: CORNER SITUATION

Posted by [beto1](#) on Tue, 30 Aug 2005 15:00:25 GMT

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Hi Wayne, Thanks for your explanation. Now I get the picture. As an alternative set up, do believe that a bass reflex design like the Pi 4 model will work best in this situation? Do the Pi bass reflex design a good job with SET amplifiers, better than a corner speaker does is not placed on the corner? Regards, Alberto

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Subject: Re: CORNER SITUATION

Posted by [Wayne Parham](#) on Tue, 30 Aug 2005 20:39:10 GMT

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corners to use them in.

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Posted by [beto1](#) on Wed, 31 Aug 2005 01:04:02 GMT

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(18HO, also?) in the Kilomax 15 place, I suppose. But also suppose that this arrange will need a different crossover. There are some information about it? Thank you again, Alberto

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Posted by [Wayne Parham](#) on Wed, 31 Aug 2005 04:23:57 GMT

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it isn't really suitable for a DI matched two-way loudspeaker. You might look at the Stage or Pro speaker.

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Posted by [beto1](#) on Wed, 31 Aug 2005 16:45:26 GMT

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O.K., thanks again. So in this way we have the following systems that shared components on 4 and 7 model: Stage: Omega 15 Premium: Kilomax 15 Pro Series: JBL 2226 so the next question will be obvious: which one will be the best match to the AN Kit one? Which driver have the best detail, bass extension, soundstage, etc with a 300B SET amp? Can I suppose that the expensive driver the better sound in this enclosure? (and room size). Thank you again in advance. Sorry about this lot of questions but I have never hear an Eminence driver before. Regards, Alberto

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Posted by [Wayne Parham](#) on Wed, 31 Aug 2005 20:56:34 GMT

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Of those, only the JBL 2226 has a shorting ring. Naturally, it is the one that sounds the best. The Eminence Magnums also have shorting rings and they sound great too. But you can only use

and clean woofer, even without a shorting ring. Since you're only going to be driving it with 10 watts, the woofer is going to be loafing along. That will keep distortion way down. The Premium

a little more power. It sounds great at moderate and low levels too, and some prefer it. But it is made for all-out power and I think it trades maybe a bit of lower level detail refinement for maximum output capabilities.

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**Subject: JBL & LOW POWER SET**

Posted by [beto1](#) on Thu, 01 Sep 2005 16:46:24 GMT

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Hi Wayne,thank you for the 4 pro model plans. I am little concern about a review (Ken Schwarz)on the online shop. This customer says that JBL woofer sounds thin and lacks bass with a low powered SET amp but very good with a more watts push pull amp. One of the things that I want a high eff speaker is to get full, rich, detailed, textured, etc sound. My 300B amp only delivers 7 or 8 beautiful watts so, because this is the expensive driver on the list, I will be very sure. My purchase will be based on your and other experienced comments only. On the other hand I want the cleanest, low distortion and articulated sound, so I don't mind if I have to spend a few bucks more for the JBL if I can get what I want. I know what I can expect from the Omega 15, Kilomax 15 and if I I will go directly for the audiophile 7, with the Magnum 15 or 18, but I'm still a little confuss with the JBL 2226 (I will get the Eminence tweeter).Thank you again,Alberto

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Subject: JBL & amp design

Posted by [beto1](#) on Thu, 01 Sep 2005 18:25:54 GMT

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Hi Wayne,I have read lots of forum post about the SET low power and JBL 2226 driver and now I know that this will work very well with some SET's amps but depends on the amp design (damping factor, impedance, etc). So, the question is about the Audio Note Kit One 300B SET(running at 420 volts with 75mA current), directly heated, no negative feedback, class A, works with the JBL's. I suppose that The Klit One is similar in the low output impedance with the Kit 2, but with a little less output watts. On the paper this will design will give 9 or10 watt, but I prefer to asume only 7 or 8 watts to be conservative.I don't know if I need to provide more specifications for the kit one, like the exact damping factor, but surely I can get this info with Brian, the AN kit seller.Thank you again.Alberto

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Subject: Re: JBL & LOW POWER SET

Posted by [Wayne Parham](#) on Thu, 01 Sep 2005 21:11:53 GMT

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Ken's speakers use the JBL 2227, which has more rising response than the 2226. Also, the Audio Note amps are full in the bass, so you'll find it a very good combination. I'd suggest the 2226 if you can afford it. The Omega 15 is a good choice too, at about 1/3rd the cost. The Magnum 15HO is probably the best for performance/dollars, but only if you can run it as a three-way.

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Subject: Re: JBL & amp design

Posted by [Wayne Parham](#) on Thu, 01 Sep 2005 21:13:07 GMT

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The Audio Note amps work very well with these speakers. You'll certainly not want for bass with this combination.

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Subject: THANK YOU , WAYNE!!!

Posted by [beto1](#) on Fri, 02 Sep 2005 16:32:16 GMT

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Wayne,thank you very much for your answers.Best regards,AlbertoP.S. By the way, Stage four cabinet (Omega 15) it's the same that the Pro four (JBL)?

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Subject: Re: THANK YOU , WAYNE!!!

Posted by [Wayne Parham](#) on Fri, 02 Sep 2005 22:48:05 GMT

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The cabinet is the same, but the crossover is a little different. The crossovers share many common parts though, so one can be modified to make the other pretty easily.

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Subject: SUMMARY 2

Posted by [beto1](#) on Sat, 03 Sep 2005 13:49:59 GMT

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Hi,so, depends on my budget, the final solution will be the four pro model, first, or the four stage. Then, when I can get the corner situation, upgrading to the seven pi model. On both, with Eminence compression driver. But, as I have read, also the Altec 802 or 902 will be a perfect match (like Bill speakers). Maybe I can get some good pair here.One though comes to my mind: can I build the four model, but with the mid woofer and the tweeter and on a diferent cabinet the Eminence Magnum 15 or 18, all in bass reflex arrange? Does anyone do this design? Just though.Also, I wonder if there is some more detailed plans (construct details)?Thanks a lot,Beto

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Subject: Re: SUMMARY 2

Posted by [Wayne Parham](#) on Sun, 04 Sep 2005 02:52:06 GMT

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Sure, you can run the Magnum in a reflex cabinet with a direct radiating mid and tweeter. There are many very nice drivers that would work well in this kind of system.

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