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Subject: Can this be done?

Posted by [Bill Epstein](#) on Thu, 18 Aug 2005 21:47:00 GMT

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Approx 6' tall cabinet with JBL 2226's top and bottom with mid-horn in-between and a tweeter somewhere.

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Subject: Re: Can this be done?

Posted by [Wayne Parham](#) on Thu, 18 Aug 2005 22:25:23 GMT

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Sounds like you're up to something really cool. You'll want to use Martin King's spreadsheets, possibly in addition with others, in order to model it properly. That way you can investigate possible layouts before cutting wood. I expect you'll find certain driver placements and crossover configurations that work very well and produce a nice response curve. If you get serious about it, let me know and I'll look it over with you.

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Subject: Re: Can this be done?

Posted by [GarMan](#) on Fri, 19 Aug 2005 01:27:04 GMT

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Bill, if the two 2226 don't go deep enough for you, you may have to augment your 6' tall cabinets with a pair of Wayne's 12-PI's.

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Subject: Re: Going deep

Posted by [Bill Epstein](#) on Fri, 19 Aug 2005 08:01:29 GMT

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One 2226 per side gives me great quality bass. You should hear string bass on the 45 amps! What I'm after is 8 ohms with 2 "J's" per side (which I already have) for higher efficiency to go with the approx 105dB of the JBL 2123 on mid-horn and Altec 902's. Then the DRD 45's can really do their thing.

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Subject: Re: Can this be done?

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Posted by [spkrman57](#) on Fri, 19 Aug 2005 11:43:56 GMT

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I don't know how close the 2226's would be physically to each other, but with the 4648 cabinets there is a destructive interference at 817hz which means crossing over below 800hz. Since you are running the midhorn starting at around 300hz, I would say you would be pretty safe there. What crossover are you using for the pair of 2226's? Single coil won't cut it as the 2226 is a high inductance driver, might need a 2nd order here????? Maybe Wayne will chime in on this!Ron

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Subject: Re: Going deep

Posted by [GarMan](#) on Fri, 19 Aug 2005 12:43:27 GMT

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Bill, I was trying to poke fun at you about the size of the speakers. It was late, I was tired and didn't do a very good job. BTW, what's with the recent quest for large speakers. There was a recent interest in A7's. Wayne's building his 12-PI. And now you're looking at a six-footer. My 5 cu ft cabinets are starting to look like bookshelves.

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Subject: Re: Going deep

Posted by [Jerrod Harden](#) on Sat, 20 Aug 2005 00:59:01 GMT

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Hi Bill, Here's my current setup. It's similar to what you are proposing. I'd be interested in going vertical with it, in a wmttw arrangement. I've been toying around with the idea of replacing the 2226's with a single 2245, though the dual 2226's sound phenomenal with a little tweaking from the Richter Scale III e.q. I'm running 2123's in the midhorns, 2426's on the 2370's and 2404's up top. The three horns are powered by Paraglow II's with cobalt trannies and Mundorf Silver & Oil caps as well as the usual little mods. Woofers get solid state. It's about the best I've heard, including the big rigs at MAF O3'. Please keep me posted on the status of the project. I'd be interested in what you and Wayne come up with. Jerrod

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Subject: Re: Going deep

Posted by [Wayne Parham](#) on Sat, 20 Aug 2005 04:08:53 GMT

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I took the liberty of looking up the photos directory from your

link:[http://pg.photos.yahoo.com/ph/jerrod\\_harden/detail?.dir=8b0b&.dnm=f340.jpg](http://pg.photos.yahoo.com/ph/jerrod_harden/detail?.dir=8b0b&.dnm=f340.jpg)Yahoo disables direct linking to image files on their servers, so the picture doesn't display in your message. But the link below lets people see the photo. That's one nice looking setup!

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Subject: Re: Going deep

Posted by [Jerrod Harden](#) on Sat, 20 Aug 2005 13:36:11 GMT

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Thanks Wayne, It loaded okay with my computer so I didn't consider the file linking issue with yahoo. You have some experience with the 2245 woofers. What do you think about the a single 2245 vs. a pair of slightly equalized 2226's? Thanks for your help along the way, many of your ideas were implemented in this build. The end result was better than I could have expected! Jerrod

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Subject: Re: Going deep

Posted by [Wayne Parham](#) on Sat, 20 Aug 2005 13:47:44 GMT

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The 2226 is excellent as a midwoofer, but I like the 2245 better for subwoofer use.

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Subject: Kickass setup Jerrod <nt>

Posted by [Grant Marshall](#) on Sat, 20 Aug 2005 15:00:19 GMT

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Subject: Re: "The three horns..."

Posted by [Bill Epstein](#) on Sat, 20 Aug 2005 16:55:32 GMT

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That's exactly what I was wondering. How to get to the really high freq's and stay efficient. Figured I'd use the 806A or 902B from 3500 up perched on top of the mid-horn. Then somehow fit in a 97dB Aurum Cantus ribbon from, say, 7000.2 16 ohm 2226 should be around 99dB, the 2123 in horn about 105 and the 902 also almost 105. Some balancing act! Need more dB's for the '45' amp

and it wouldn't hurt for the 300B.

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Subject: Re: "The three horns..."

Posted by [Jerrod Harden](#) on Sat, 20 Aug 2005 17:19:23 GMT

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Hi Bill, It certainly is a balancing act. It took me a long time to get it right in my head. I knew I didn't want to pad the midhorn, that was the opposite of where I was trying to go. So the midhorns are run wide open with only the inductor flattening the response. The 2426J's are padded 4 db to match the midhorns and crossed at 1.6K, 3rd order. The 2404H's are crossed at 20K, 1st order. The trio makes a solid 106 db/1w and measure very well across the combined bandwidth. The most suprising part is how well the midhorns blend with the 100 db woofer section. I had to crossover the woofers much lower than anticipated to get flat response, but it measures spot on and sounds amazing. The AudioControl Richter Scale III helped out a great deal with this. It works great to smooth out the response, but I would only use the active crossover to perform low pass function. Believe it or not the woofers are crossed electronically at 90 hz, 4th order and the midhorn/woofer crossover region actually sums flat. I'm anxious to see how your sytem evolves. Please keep us updated.Regards, Jerrod

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Subject: Re: "The three horns..."

Posted by [Bill Epstein](#) on Sat, 20 Aug 2005 17:57:11 GMT

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I just returned from a quick trip to E-Bay.....A single 2245 would be much easier to implement. AND, the Fs is 20Hz! I had no idea. Think of it, we could move up out of the Stereophile Class "A" restricted low frequency!

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Subject: Re: "The three horns..."

Posted by [Jerrod Harden](#) on Sun, 21 Aug 2005 12:14:30 GMT

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Yes, it appears to be quite a driver. I wonder if it has the same sound as the 2226, just better bottom octave performance. The 2226's are great in my system. Every bass line is extremely defined, not the blur you get with most woofer systems. Let me know if you get any leads on 2245's or 2242's. I've been keeping my eyes open but haven't found anything yet. Jerrod

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Subject: Re: "The three horns..."  
Posted by [Bill Epstein](#) on Sun, 21 Aug 2005 13:46:49 GMT  
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SAme guy has another one separate auction. I'm tapped right now you go ahead and grab'm.  
JBL 2245's

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Subject: Re: "The three horns..."  
Posted by [Jerrod Harden](#) on Sun, 21 Aug 2005 15:44:23 GMT  
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Hi Bill, I saw that. And only 90 miles from where I live. One needs a recone but if you could buy them right. Wonder what a professional recone runs?

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Subject: Re: "The three horns..."  
Posted by [Wayne Parham](#) on Sun, 21 Aug 2005 17:14:22 GMT  
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The C8R2245H recone kit is \$200.00, so I expect you can have it reconed for \$250.00.

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Subject: Re: "The three horns..."  
Posted by [dwkurfma](#) on Wed, 24 Aug 2005 13:37:34 GMT  
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JBL 2245 H - 18" Subwoofers. 8 ohms. 400 watt. Excellent condition. SPU385 \$600.00 pair [Jamminjersey.com] I really don't have experience with the 2245 but it really is very similar to the 15" 2235 which allows a tremendous range of tuning options and does sound great.Dan

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Subject: Like the JBL K2 S5800  
Posted by [Spinjack](#) on Thu, 25 Aug 2005 13:13:17 GMT  
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JBL has an over/under speaker that has gotten some very good reviews. Might make for a good

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concept model for what you are trying to do.  
K2

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