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Subject: so I built these lines with a single tweeter  
Posted by [Dave](#) on Thu, 24 Jan 2008 23:56:30 GMT  
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I hadn't seen this site when I built them, I just read the "Griffin paper" a couple of times, I bought a few cases of NSB's and went to town. I really need to work on the crossover, it's a 2nd order LR at 3.5k. I didn't weigh down the nsb's like people recommend, I didn't even put in all the screws, I'm still kind of playing with things. I don't like the single tweeter. Not as "in you face" as I've heard other lines. I put it half way between ear sitting and standing ear level. This was a bad idea, as they only sound good sitting or standing, and great if you hunch over a little. My next lines will have a full compliment of tweeters. I actually like the center channel, my wife hates it. That tweeter doesn't quite keep up with the mids. You have to be in front of the center channel, but that doesn't really bother me seeing as it's as wide as the TV, and if I'm going to sit and watch a movie, that's where I'll be. The sub is 4 12" Dayton DVC's, sealed .707, running off a QSC 1850 HD that I keep in the basement. I like this site and I'll be here picking brains for as long as you let me.

<http://s9.photobucket.com/albums/a75/1371dave/?action=view&current=HPIM0805.jpg>

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Subject: Re: so I built these lines with a single tweeter  
Posted by [justinc](#) on Fri, 25 Jan 2008 14:38:45 GMT  
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what tweeter did you use for the center channel, there are a couple with faceplates that might just drop in that have very high sensitivity and should give a better result. I used an older version of this one from MCM with my nsb arrays that were very similar to yours 92db/1w, not bad considering the

price [http://www.mcminone.com/product.asp?product\\_id=53-572&catalog\\_name=MCMProductsOr](http://www.mcminone.com/product.asp?product_id=53-572&catalog_name=MCMProductsOr)  
a much better tweeter is this one 96db/1wm, and still a bargain at only  
\$30 <http://www.gr-research.com/index.asp?PageAction=VIEWPROD&ProdID=109>

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Subject: Re: so I built these lines with a single tweeter  
Posted by [Anonymous](#) on Fri, 25 Jan 2008 21:00:47 GMT  
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NSB's are pretty good drivers for 49 cents. I get more from the drivers by doing the cone treatment and putting them in a ported design for strong upper midbass. My budget array uses NSB + PT2 and I can do over 126dB[c] SPL in room, upper midbass, about 122dB[c] midrange. A single tweeter wouldn't be able to keep up.

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Subject: Re: so I built these lines with a single tweeter  
Posted by [Dave](#) on Sat, 26 Jan 2008 01:52:38 GMT  
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It's a Morel MDT 30, I picked it up in the scratch and dent isle at parts express for like \$15. I'm not sure how my next center channel will end up. Like I said my wife hates this one, and there were some construction techniques I tried with it, that I didn't end up liking. I don't know what to do about a new center, I know it's bad to mix up your speakers but I have some TB W4's that would sound great as a center.

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Subject: Re: so I built these lines with a single tweeter  
Posted by [Dave](#) on Sat, 26 Jan 2008 02:35:00 GMT  
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Do you use any type of gasket for the NSB's? I think next time I'll make a template for pre-drilling the screw holes that hold the speakers in. The openings in the basket are so big that if you don't get it right on you can drive the basket out of it's seat. Sounds like it's easy, and it is, but the repetitiveness gets to you, or gets to me at least.

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Subject: your wife  
Posted by [Marlboro](#) on Sat, 26 Jan 2008 13:55:09 GMT  
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Why does your wife hate the system?

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Subject: Re: your wife  
Posted by [Dave](#) on Sat, 26 Jan 2008 21:34:32 GMT  
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She likes the towers, just not the center. I guess while I was building them she had some strange idea that I would build them with front grills in mind. I don't know why she thought that. I like to look at the speakers, like looking at boobs. She doesn't mind the towers, but really doesn't like the center. "Because it's ugly"

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Subject: Re: your wife  
Posted by [Dave](#) on Sat, 26 Jan 2008 21:36:06 GMT  
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She just hates the center, "because it's ugly".My next one has to have a grill.

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Subject: Re: so I built these lines with a single tweeter  
Posted by [Anonymous](#) on Sun, 27 Jan 2008 02:16:10 GMT  
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NSB installation was a PITA. The frame lip problem.I used a precision rabbet after cutting the hole out, to recess the frame lip inside it. Then I used generic rope caulk found at partsexpress to gasket the driver.

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Subject: Re: your wife  
Posted by [Marlboro](#) on Sun, 27 Jan 2008 14:27:11 GMT  
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Do you have a photo? I'm betting she wouldn't like mine with the 34 midranges and the 60 tweeters, and the two large 12 inch woofers.My wife's not too big on the size, but the sound is so spectacular that she doesn't care. of course they aren't in my living room, they are in a special music room.Marlboro

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Subject: Re: so I built these lines with a single tweeter  
Posted by [Dave](#) on Sun, 27 Jan 2008 16:41:52 GMT  
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Wow, that sounds time consuming. You got great results though, where did you tune? I like that idea of sinking the frame lip. I was thinking of making my first pass with the router the pass that makes the lip flush, then coming in and doing the hole. I can see how coming back after the holes are cut would be faster because you don't have to keep finding the pilot hole.

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Subject: Re: your wife  
Posted by [Dave](#) on Sun, 27 Jan 2008 16:49:55 GMT

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Special music room would definitely net you a lot more slack. Our basement isn't deep enough to build a floating floor and all that, so I'll have to wait for our next house to make one.

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Subject: basement?

Posted by [Marlboro](#) on Sun, 27 Jan 2008 16:57:16 GMT

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In about a year you can buy my current house, since my wife and i are moving to Mount Desert Island, Maine.....

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Subject: Re: basement?

Posted by [Dave](#) on Sun, 27 Jan 2008 21:22:51 GMT

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Is it a single story ranch with unfinished, yet finishable basement? Also needs to be out in the country, I want it quiet outside in the evenings. I'd like a small outdoor amphitheater. I love music outside, I've got a pair of NSB arrays with 9 tweeters mounted at sitting height for my back deck. The NSB.s and tweeters are mounted on the face, and the 2 sides are mounted to the face with 4 ft. long hinges. They are dipoles, and the hinges allow for constant tweaking. They need a subwoofer to cover from about 200Hz, I've got a couple of RS 180's I'm not using and a small plate amp that I'll use to cover the bottom end. Should be a neat little project coming up before the summer.

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Subject: Re: so I built these lines with a single tweeter

Posted by [Anonymous](#) on Mon, 28 Jan 2008 17:43:45 GMT

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I tuned to 100hz, four NSB per chamber [~1.5 cu. ft.], 6" hole in the back as the port. The WinISD models shows a peak in upper midbass, I wanted this on purpose as I didn't expect much from the NSB's as I wanted higher SPL levels. It works well, the upper midbass is very strong - in room - and if it's too much, I can use the DCXEQ to tame it. I can also plug the rear port with a fancy piece of wood to make it a sealed box. I did this, but I liked the more aggressive sound with the port.

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Subject: Re: basement?  
Posted by [Marlboro](#) on Tue, 29 Jan 2008 11:31:47 GMT  
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Where do you live now?

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Subject: Re: basement?  
Posted by [Dave](#) on Tue, 29 Jan 2008 20:40:01 GMT  
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Near Dayton Ohio, about 15 minutes from Parts Express.

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Subject: Re: basement?  
Posted by [colinhester](#) on Thu, 31 Jan 2008 15:26:55 GMT  
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Hey. I live near in West Chester, OH. We should hook up. I host events every once in a while. I had David Janszen over a few months ago....Colin  
<http://www.audioasylum.com/forums/MUG/messages/11/119544.html>

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Subject: Re: basement?  
Posted by [Marlboro](#) on Fri, 01 Feb 2008 13:07:36 GMT  
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Who is David and Arthur Janzen?

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Subject: Janszen \$32,000 speakers  
Posted by [Marlboro](#) on Fri, 01 Feb 2008 13:12:59 GMT  
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I don't think that my \$1400 speaker system total cost including electronic crossovers, three amps, one preamp and a cd player, and all the speakers would be in the same league as Janszen's \$32,000 speakers, nor would he consider them to be in the same league. I get in enough trouble

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with Rick Craig by telling him that my system performs as well as his \$8000 systems.

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Subject: Re: basement?

Posted by [colinhester](#) on Fri, 01 Feb 2008 17:28:47 GMT

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Arthur Janszen invented the electrostatic speaker and marketed under the name Janszen. David is Arthur's son; David restarted the company a few years ago.....C

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Subject: Re: Janszen \$32,000 speakers

Posted by [colinhester](#) on Fri, 01 Feb 2008 17:41:50 GMT

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\$32,000 is a big chunk of change for a pair of speakers, but it all depends who your market is. Are they for me? No. Did they sound exceptional? Hell yeah. One thing to remember is they are plug-and-play. No amps or cables to buy; that has all been optimized. When David first played them the source was an Ipod. It sounded OK. Then we hooked up a music server with a custom DAC ala Larry Moore (of UltraFi). Much better sound. Then a tube-buffered CD player with integrated volume control was plugged in and the sound was in full glory.

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Subject: Rick's \$8,000 Speakers

Posted by [FredT](#) on Mon, 04 Feb 2008 19:22:21 GMT

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"I get in enough trouble with Rick Craig by telling him that my system performs as well as his \$8000 systems" Have you actually heard Rick's \$8K arrays or Danny Ritchie's LS-6 and LS-9 line arrays? Often on the DIY-oriented forums I see somebody's claim that "my DIY speaker sounds better than a pair of (choose any expensive speaker brand). I've even found myself falling into this trap with some of my budget line arrays, but only until we placed mine side-by-side with speakers that use premium quality drivers and crossover parts. In my experience well designed speakers using top quality parts have always trumped speakers using inexpensive drivers. One comparison I haven't been able to do is a multi-amped budget array like yours using active crossovers versus a high quality array using a passive crossover. No doubt the active crossover array will outperform the same speaker using a passive crossover, but I doubt it will outperform Rick's \$8K arrays or Danny Ritchie's LS-6 and LS-9 arrays. On the other hand, yours might be the exception.

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Subject: Re: so I built these lines with a single tweeter  
Posted by [Dave](#) on Sun, 17 Feb 2008 20:54:48 GMT  
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Why did you go with 4 separate chambers instead of one common one?

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