
Subject: Anyone use a diferent tweeter for the studio 2?

Posted by [tweakk](#) on Wed, 08 Sep 2004 21:28:43 GMT

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I have my eye on the studio 2 kit but wonder if a Selenium DH200HM tweeter and a simple xover (maybe just a cap) would mess-up the whole "Pi alignment" design.

Subject: Re: Lots of options

Posted by [Bill Martinelli](#) on Wed, 08 Sep 2004 23:25:59 GMT

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I use an Audax TW025A0 or TW025A12. I like and use the A12 best. Better voiced for Jazz, Classical and home theater. The A0 is less expensive and better voiced for Rock. The Pioneer AHE60-51F has worked well for me too and a great deal at 9.00. You can use a simple crossover to protect the tweeter and still allow the woofer to roll off with the coil. I'm using a little steeper crossover than that right now that I'm very happy with. If I'm not mistaken, I think the Pi alignment is pertinent to the woofer and tuning of the cabinet for the woofer. Bill

Subject: Got it! Thanks!....nt

Posted by [tweakk](#) on Thu, 09 Sep 2004 00:36:15 GMT

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nt

Subject: Re: Lots of options

Posted by [Matts](#) on Thu, 09 Sep 2004 02:27:56 GMT

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Bill, what do you do with it- just put it in with a cap to make a high pass filter? What do you use? May check it out sometime. Thanks, Matts

Subject: Re: This what I'm using

Posted by [Bill Martinelli](#) on Thu, 09 Sep 2004 04:09:48 GMT

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This is the solution I like to use. If you wanted to use a simple cap I would try a 5uF or a 6uF, and still use the small coil with the woofer. There's really lots and lots of different arrangements you could come up with.

Subject: Re: Thanks!
Posted by [Matts](#) on Thu, 09 Sep 2004 13:28:31 GMT
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nice drawing! Have you tried this with low-powered SET's? I assume it retains the original efficiency if you have values listed for further attenuation of the tweeter....

Subject: Polarity
Posted by [pokey1](#) on Thu, 09 Sep 2004 17:47:25 GMT
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I see you reversed polarity on the tweeter. I know that 2-2 and 1-3 crossovers are usually supposed to be done this way, but do you really notice a difference?

Subject: Re: yes
Posted by [Bill Martinelli](#) on Thu, 09 Sep 2004 21:25:56 GMT
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you will notice a difference. The drivers will be out of phase and the imaging will suffer. Sounds that should be coming from the center will be less definedBill

Subject: Re: Thanks!
Posted by [Bill Martinelli](#) on Thu, 09 Sep 2004 21:37:11 GMT
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Thanks, I have not tried this with a SET. Maybe I can hook up my 300B to them someday. If I was going to guess. They should be fine. The original efficiency is maintained and the attenuation is just a preference. The tube amps usually have problems with woofer impedance and that should

not be a problem in this case. The Box size, tuning and woofer has all been worked out by Wayne and I wouldn't deviate from that. No reason this couldn't work with the 2 Pi tower, it's a larger box with deeper response. For a size inbetween you would have to consult with Wayne.

Subject: If my memory...

Posted by [mollecon](#) on Sun, 12 Sep 2004 22:29:50 GMT

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...doesn't fail me, Wayne recommends a tuning frequency of 40Hz for all sizes of boxes between 1½ and 5 cu.ft. with the Alpha 10.

Subject: Re: Polarity

Posted by [Wayne Parham](#) on Mon, 27 Sep 2004 09:13:07 GMT

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Actually, this depends on a few other factors than just crossover frequency and configuration. Just as important is driver position in respect to depth. It's a matter of distance to the listener in terms of wavelength in the crossover region. The polarity is reversed this way on the

first-order filter on the mid driver and a third-order on the tweeter. It is not reversed on the Pro four
