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Subject: Wayne - Is this a WACKY idea?

Posted by [BobCat](#) on Wed, 17 Apr 2002 17:38:01 GMT

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Wayne,I am considering building a Two Pi with a slightly different twist.What do you think of mounting a second 10" Eminence Alpha woofer on the back baffle to compensate for baffle step? The second woofer would be wired in Push-Push configuration. The reason I ask is there has been quite a bit of discussion regarding Push-Push implementation on the Single Driver Forum. Also, the Vandersteen 2CE's utilize a rear "acoustical coupler". The acoustical coupler is a larger woofer than the front woofer. I would double the box volume by doubling the vertical dimension and adding a second port. Are there drawbacks to this configuration? Is this feasible or just plain wacky?Also, what is the shipping cost for a Two Pi KIT to Dubuque, IA 52003? Is the port included in the kit?Best regards,BobCat

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Subject: Re: Wayne - Is this a WACKY idea?

Posted by [Adam](#) on Wed, 17 Apr 2002 18:08:41 GMT

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The problem with this is how the woofer would radiate the frequencies from the rear of the box. Even a 24" wide baffle begins the transformation at around 615 Hz. So imagine your woofer bouncing midrange frequencies around the back of the speaker, smearing the image and making for an incomplete compensation. There is nothing wrong with your idea, it's called a 2.5 way setup, and you'll have to use a proper inductor to keep the frequency response in check at the higher frequencies. The only thing I would worry about that is the inductor not rolling frequencies off enough to eliminate breakup modes. The way to fix this is to just mount the woofer on the front of the box instead of the back. As far as pushpull goes, it may not be a good idea with your woofer running up to 600 Hz or even higher.Adam

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Subject: Re: Wayne - Is this a WACKY idea?

Posted by [BobCat](#) on Thu, 18 Apr 2002 00:31:14 GMT

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Adam,Push-Push NOT Push-Pull. Push-Push drivers are wired IN-PHASE and in this respect the

woofers will overcome Newtonian distortion as well as provide enhanced bass output. Thanks, BobCat

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Subject: Re: Wayne - Is this a WACKY idea?  
Posted by [Adam](#) on Thu, 18 Apr 2002 13:33:06 GMT  
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Oh, oops. My bad. Adam