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Subject: speaker plans 4 pi  
Posted by [pda2000](#) on Sat, 08 Apr 2023 16:41:39 GMT  
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Hi Wayne!  
Thanks for your hard work and generosity.  
Could I please get a set of 4 pi plans?  
Thanks,  
Jim Nash

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Subject: Re: speaker plans 4 pi  
Posted by [Wayne Parham](#) on Sat, 08 Apr 2023 17:56:30 GMT  
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Subject: Re: speaker plans 4 pi  
Posted by [Vistacrusin](#) on Fri, 26 May 2023 03:56:22 GMT  
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Hi Wayne,

Been reading through a bunch of posts and a couple of your papers

Could you send me the 4 pi plans please

Does that include the crossover information? Values, layout, recommended models

I found some JBL of the 2226 HPL 8 ohm local that I'm waiting to pull the trigger on prior to going through the plans.

B&C DE250 comes in Polyimide or Titanium. Is the Polyimide the correct driver for this application?

Thank you

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Subject: Re: speaker plans 4 pi  
Posted by [Wayne Parham](#) on Fri, 26 May 2023 04:59:33 GMT  
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And - yes - the polyimide version of the DE250 is the one you want.

By the way, look into the concept of flanking subs too. If you don't use a pair right away, maybe save that for an upgrade project later.

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Subject: Re: speaker plans 4 pi  
Posted by [Vistacrusin](#) on Fri, 26 May 2023 05:13:41 GMT  
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Subject: Re: speaker plans 4 pi  
Posted by [Wayne Parham](#) on Fri, 26 May 2023 05:43:02 GMT  
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Subject: Re: speaker plans 4 pi  
Posted by [Vistacrusin](#) on Sat, 10 Jun 2023 01:26:42 GMT  
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I acquired two full 4 pi kits from someone going a different direction. All products new with premium built crossovers

I sourced two JBL 2226 hpl woofers from a local used music instrument store.

I need to start sourcing parts to make a 3rd for the center channel. I've seen the posts to remove the port and to center the horn. Is this still correct, or should the port be moved somewhere else?

Is there any changes to the crossover that needs to happen? I couldn't find anything in the FAQ.

Is there a preferred method of raising the speakers. I have access to some large beams and could do solid wood risers. Or something different?

Thanks.

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Subject: Re: speaker plans 4 pi  
Posted by [Wayne Parham](#) on Sat, 10 Jun 2023 03:57:14 GMT

That's awesome! Hope it was a good deal for both you and the seller.

The deal with the center channel is the port can be removed for aesthetics. There isn't a benefit when doing so, in fact, there's a slight penalty. But only slight. The spectral match is still very good from 200Hz up, and below that you're in the modal range anyway. So it's not bad, and it looks better if the left and right speakers are made in mirror images - each with the tweeter towards the outside. The center speaker can have the tweeter centered when the port is removed.

Best to have the mains 12" to 15" up off the floor, with flanking subs placed slightly behind and beside the mains, sitting on the floor so slightly below the mains too. Left main has a left flanking sub and right has a right sub. Each is passed a (100Hz second-order) low-passed copy of the signal sent to the main it is flanking. This approach mitigates SBIR and higher-frequency room modes and also compensates for baffle step while providing increased bass extension.

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Subject: Re: speaker plans 4 pi  
Posted by [Greg](#) on Sat, 01 Jul 2023 14:32:16 GMT  
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Hi Wayne,

I've finally managed to pick up the drivers (JBL + B&C) for a pair of 4 pi as well!

Thanks for supplying the waveguides. Could you please send me a copy of the plans.

I appreciate the work you've put into this and I'm looking forward to the build.

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Subject: Re: speaker plans 4 pi  
Posted by [Wayne Parham](#) on Sat, 01 Jul 2023 17:05:22 GMT  
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Subject: Re: speaker plans 4 pi  
Posted by [SonOfThundr](#) on Mon, 24 Jul 2023 21:15:07 GMT  
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I may have sourced some used 2226s :)

When you get a moment would you please share the plans for the PI4?

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Subject: Re: speaker plans 4 pi  
Posted by [Wayne Parham](#) on Mon, 24 Jul 2023 22:30:11 GMT  
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