Subject: 3pi in 4pi cabinet?
Posted by ecc83 on Sun, 05 Feb 2012 20:29:24 GMT
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I would like to build the 3pi but the cabinet size is too big for my room.
Is it possible to build the 3pi into the 4pi enclosure without changing the crossover?
If it is not possible-how many percent can i decrease the cabinet size?

Thank you very much,

Frank

ps: i have 2 closed subwoofer to help for the bass...

Subject: Re: 3pi in 4pi cabinet?
Posted by Wayne Parham on Sun, 05 Feb 2012 23:20:07 GMT
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They're very close in size:

Only four inches difference in height and two inches difference in width. Such a small difference, are you sure you can't "fit" the "larger" speakers in your room? I mean, they really seem to be the same size. If you stand them side-by-side, you can tell the difference but if you set a pair on stands, then replace them with the other pair, it will feel like there is absolutely no difference in size.

and it would be pretty much the same as the standard box, with maybe a smidge less bass extension. But the key thing here is "maybe". It hasn't been tested.

Why throw away all the hours of design/test and optimization work just to shave a couple inches off the box? It might work, but it might put a port in a standing wave pressure node and adversely affect the response. So honestly, I would suggest that you stick with the stock design. If you have a compelling enough reason to modify the design that you are willing to perform tests to verify the changes, then by all means, give it a go. But I wouldn't suggest doing it blindly.

Subject: Re: 3pi in 4pi cabinet?
Posted by ecc83 on Sun, 05 Feb 2012 23:38:04 GMT

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Wayne,

thank you very much for your response!

Best wishes from a cold (-15°C) Germany,

Frank

Subject: Re: 3pi in 4pi cabinet?
Posted by Wayne Parham on Mon, 06 Feb 2012 04:04:54 GMT
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Yikes! That's cold!

I've worked in places that were cold like that, Chicago, for example. Sometimes gets below -20° C there. It's so cold, material properties are different. Rubber gets hard, plastics get brittle. Just a few minutes outdoors is enough to actually feel painful to me. I just can't take that cold!

Subject: Re: 3pi in 4pi cabinet?
Posted by Norbert on Tue, 07 Feb 2012 02:59:43 GMT
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World climate this year is definitely unusual. Here in Toronto Canada, we should have been getting -15C in February but instead we are getting +8C.

Subject: Re: 3pi in 4pi cabinet?
Posted by Wayne Parham on Tue, 07 Feb 2012 03:09:31 GMT
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It's very mild here too. Last year was nuts, very cold winter and very warm summer. This year is starting out very mild. Weather, like all other chaotic systems, is very rich and dynamic. So interesting!