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Subject: Re: 3 Pi Subwoofer Plans

Posted by [Wayne Parham](#) on Mon, 30 May 2011 14:51:11 GMT

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Sounds like you've thought of most things, so I think you're on the right track. With the cabinet baffle mounted flush to the wall, you'll have no self-interference from that wall. And keeping driver spacing the same (in all three dimensions) will get you where you need to be (or extremely close) with respect to path-length verses phase, which is the biggest part of what sets the position, shape and size of the forward lobe.

I said "or extremely close" in the last sentence because there is one thing left to consider - the reactive nature of the drivers, themselves. If you don't use the same drivers and horns, then the electrical, mechanical and acoustic (in the case of a horn) resistance/reactance is different, and this changes things, sometimes quite significantly.