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Subject: Re: 3Pi Satellite idea

Posted by [Wayne Parham](#) on Wed, 25 Nov 2009 21:31:40 GMT

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In general, closer spacing is a good idea. But the drivers are fairly close - you can't really get pretty closely spaced as designed. Just enough room between them to get a brace in there. Closer than that and there's not enough meat to retain strength and allow room for an internal brace, which is pretty important.

I tested with the configuration as shown in the plans, and I would probably be hesitant to deviate. The nulls are widely spaced and the forward lobe is well formed. Best not to mess with success, in my opinion.

Look how far apart the nulls are in the video contained in the link below. Also notice how smooth the response is through the arc between nulls. It's a very nice, smooth pattern. I wouldn't modify the layout unless you had measurement equipment and time to optimize. I mean you can, and I wouldn't expect adverse results from inching the tweeter closer to the woofer a smidge, but you wouldn't know unless you measured to see. And again, you need room to put the cross brace, so I'm not sure it's worth spending a lot of time to investigate.

Crossover optimization for DI-matched two-way speakers

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