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Subject: Re: seven Pi midhorn

Posted by [Wayne Parham](#) on Thu, 07 Aug 2008 22:07:04 GMT

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Adrian Mack did a horn like that and its response looked pretty good. I chose a square throat because I could match the flare pieces nicely. But either way, there are path length differences that chew up some of the upper frequencies. My thinking was if I used a square throat, the flare transition would be pure. The path length differences are within the compression chamber, but without a phase plug, there are path length differences using any throat shape. The compression chamber forms a low-pass filter, and the path length issues add to that. It becomes a variable, where cone and dust cover size and shape affect the response. This set of variables is hard to model without FEA, so you pretty much have to build and test. Every model of driver will be different.

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