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Subject: Re: 4 Pi and 7 Pi bass response- More similar or different?

Posted by [Psychoacoustic](#) on Wed, 13 Jan 2010 04:39:04 GMT

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Finished the 7 Pi midhorn over the winter break. Gained some new woodworking skills, that's for sure! For example, take cursed thing to old mate down at the woodyard... put it through the tree-ripping bandsaw. Problem solved.

Had the crossovers built by Wayne on hand, mounted them in boxes. Removed the HF gear from this project <http://audioroundtable.com/forum/index.php?t=msg&th=11661&start=0&> (4 Pi derivative), made a cover plate for the hole. Mounted the HF unit in box and... SHA-ZAAM!

Have a couple of queries, if I may.

My three-year-old son has already made gestures towards reaching up and poking the dust caps. It's embarrassing to hear a grown man scream like a girl. Would acoustically-transparent cloth glued to the inside of the horn throat square be a problem?

What is the theory behind the 'backward' facing woofer? Is this to utilise the corner principle, negate floor bounce? In theory or practise, would a forward facing woofer as I currently have sound any different?

As pictured, the walls (to the left, curtains covering ancillaries, to the right window curtains) would diffract sonic reflections from the midhorn (and tweeter)- yes? Currently in the process of constructing doors to cover both of these curtained areas (due to a desire to secure the hi-fi gear and dust is a big problem on these components from the curtains). Which surface would be optimal- a diffractive, reflective, absorptive (i.e. rigid fibreglass acoustic panel) or combination from the above?

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## File Attachments

- 1) [before.JPG](#), downloaded 6276 times
  - 2) [woodshop.JPG](#), downloaded 6433 times
  - 3) [close up.JPG](#), downloaded 13403 times
  - 4) [room 7 Pi.JPG](#), downloaded 6347 times
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