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Subject: Studio 2 pi kit, 3 questions before I get started....  
Posted by [drumwagon](#) on Mon, 26 Dec 2005 14:11:05 GMT  
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Happy holidays everyone! I'm getting ready to start my Studio 2 Pi kit and have a couple of questions. I may be getting anal with these questions, but as this is my first experience building speakers I don't have a good feel for how much wiggle room there is in the specs. 1) I understand that changing the size of the cabinet is okay as long as the internal volume stays the same. My question is how close is "the same"? Playing around with different sizes that work better for my listening space cabinet volume may be off from the plan by 50 cubic inches. Is this a problem? 2) Are there any minimum cabinet dimensions? The cabinet sizes I was toying with had internal dimensions of 30"h x 10"w x 8,373"d. My concerns are.....-The distance the insulation would be from the woofer back, and side. -The port location in relation to the woofer centerline. 3) I have a nice port that I would like to use. It is 2" id versus 1.91" id, if I'm doing my math right, I should increase the length to 2.06" to compensate for the larger diameter. Does this sound right? Thanks!

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Subject: Re: Studio 2 pi kit, 3 questions before I get started....  
Posted by [Wayne Parham](#) on Tue, 27 Dec 2005 00:46:36 GMT  
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You can fudge the plans 50 cubic inches with no problems at all, but if you make a tower then be careful about the geometry. If the box weren't so long, this would be a non-issue but the tower configuration makes pipe modes a consideration. If you're going to modify the plans of the tower, you may want to analyze the standing wave modes inside the box. If the standard bookshelf version, just make sure the Helmholtz frequency is right. That holds true on the port dimensions as well.

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