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Subject: Re: cabinet maker screwed up again

Posted by [Wayne Parham](#) on Sun, 17 Mar 2002 02:18:26 GMT

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On the volume - It's no problem. For one thing PiAlign tends towards smaller cabinets and volume tolerance is pretty large, and for another, we could always add displacement material inside if we found it to be out of tolerance too much. On the port - Can you remove 3/4" length? Does the cabinetmaker have tools that could easily remove this much material from them? They are pretty close to the rear and side of the cabinet, so it might be difficult. But the port dimensions require much tighter tolerance. I honestly think that you're OK, and certainly this is true with the overall cabinet dimensions. You'll find that if you go one direction - towards overdamped - the bottom cutoff frequency strats to rise rapidly after a certain point. But until you reach that point, response doesn't hurt much by being a bit overdamped. And going the other direction, you'll reach a point where peaking starts to rise fast. Before that, you aren't going to have a bad response curve and can barely tell the difference and then suddenly, there's nothing you can do to remove the peak. So those two points - one towards the overdamped and the other towards underdamped - are what I'm talking about when I say "in tolerance." The window between these two events is pretty wide for PiAlign'ed cabinets. It's a very conservative alignment. So that 1/4" is almost nothing, so as long as its braced sufficiently, you're in business. And I'll check the response curve for the port and double-check my assumption on the cabinet volume too. I'll let you know by tomorrow afternoon.