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Subject: Port Flare on 2 Pi

Posted by [Caddis](#) on Sat, 14 Feb 2004 03:20:38 GMT

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Wayne,I would like to flare the port on my 2 Pis, perhaps with a 1/2 or 3/8 inch round over bit on the router. If it matters, I am using 3/4" stock with appropriate compensation to keep the design cabinet volume. How would I change the port length to compensate for the flare? I do not want to change the Helmholtz frequency, but I would like to reduce the noise from a sharp transition at the mouth of the port. Thanks for any help you can provide.Caddis PM

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Subject: Re: Port Flare on 2 Pi

Posted by [Wayne Parham](#) on Sat, 14 Feb 2004 10:13:20 GMT

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The Helmholtz formula makes no provisions for flares of this sort. You may have to come at it from an empirical point of view. I would suggest that if you just radius the edge, you'll probably not alter the Helmholtz frequency very much. But you can always double-check when your done to be sure.

Measuring Helmholtz frequency