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Subject: Pi one port

Posted by [48h350](#) on Sun, 24 Jun 2012 14:01:56 GMT

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Hi Wayne , I am assembling a pair of Pi one.

I have obtained a port duct from PE :

<http://www.parts-express.com/pe/showdetl.cfm?Partnumber=260-478>

Unfortunately it is flared and has the required diameter nearly in the middle, it is much larger at the end that will be on the face of the baffle.

I can cut the duct to the required length, no problem there.

What worries me is the diameter of the port: does it have to be of the designated size all the way , or just at one end is enough?

Thanks.

Massimo

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Subject: Re: Pi one port

Posted by [Wayne Parham](#) on Mon, 25 Jun 2012 00:40:03 GMT

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Well, it was designed for a port that has uniform cross-section. Flared ports are good for reducing turbulence at high airspeed, but then again, the port on this model is so oversized it'll never even get close. Still, I think you'll probably be OK. Maybe just add 1/4" extra length to make up for the flare. You can always check the Helmholtz frequency when you're done, and if it's between 57Hz and 63Hz, it's fine.

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Subject: Re: Pi one port

Posted by [48h350](#) on Mon, 25 Jun 2012 14:13:44 GMT

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Thanks Wayne, i will add the extra 1/4 inch.

Can you shine some light on the method of checking the Helmholtz frequency when the cabinet is finished?

Thanks for answering on a Sunday.

massimo

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Subject: Re: Pi one port

Posted by [Wayne Parham](#) on Mon, 25 Jun 2012 15:05:05 GMT

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You can do it like this:

T/S Measurements Or you can buy a Smith & Larson Tester, which makes it real easy:

Smith & Larson Audio

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