Subject: Help with my car audio
Posted by Crystal on Tue, 11 Sep 2007 19:52:39 GMT
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If my port is in an "L" shape and i want to change it to a "T" shape do i need to change the dimensions or do I just leave it? Thanks.

Subject: Re: Help with my car audio
Posted by Wayne Parham on Wed, 12 Sep 2007 14:16:54 GMT
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This is best tested empirically. The Helmholtz formula assumes a straight, unimpeded port. Deviations from that usually change the resonant frequency somewhat.

Subject: Re: Help with my car audio
Posted by Crystal on Wed, 12 Sep 2007 15:45:52 GMT
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Thanks for the response. I appreciate it. And that mkaes a lot of sense.

Subject: Re: Help with my car audio
Posted by Gilipsie on Thu, 04 Oct 2007 18:34:12 GMT
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Wayne, I got her question but can you put that in "lamons"(I think I spelled that wrong) terms.

Subject: Re: Help with my car audio
Posted by Wayne Parham on Mon, 08 Oct 2007 06:07:26 GMT
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Well, in layman's terms, the formula that predicts the frequency a box is tuned for assumes a straight port, not one that is bent or flared or made into a "T" shape. Those kinds of changes are straightforward, and a finite element analysis could surely be done which would give a very

accurate frequency prediction. But the Helmholtz formula assumes a straight port, so if you deviate from that too much, the formula will become inaccurate. When making an unusually shaped port, you can always estimate, make the port how long you think it should be and then measure it and modify as needed. Best to make it long at first, that way you can trim it down to size to get the desired frequency.
