Subject: Experiment, Insights pls?
Posted by Barry on Fri, 22 Feb 2008 00:28:59 GMT
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Any insights would be helpful.Placed Delta 12LF in 5.1cu ft. Tuned 40Hz. Supposed f3 35Hz.Near identical twin.Place Delta 12LF in 5.1cu ft. Made pathway with just a little expansion from driver to near port area (but not too close).Sounded best when tuned to 35Hz. Perhaps -3 at 30Hz.Beginning of pathway on 13 inch width interior was set 6.25 inches back so no real compression there IMO. Purpose of experiment was to see if lower -3 was possible by reducing Fs of driver by having a pathway inside (but open to full width prior to port. Observations:It sounds pretty good I think. Seems to have reduced fs of driver by 5Hz. Seems to go lower but less punchy. Making it sound just a little less loud. Did try tuning the one without the pathway a little lower and then it did not sound good. No increase of volume from "inside of speaker horn" at least not with the size of port chosen. Questions:Should this not have produced some possible phase problems?Maybe there is an I'm not hearing it yet?Maybe what I hear as punchy in the one without pathway is the way is should be and the other is a phase issue on the one with the pathway?Is there a better way to reduce fs and get a speaker to go lower in a given size box? (one that does not infringe on the patents of others)Any input would be appreciated.Barry