Subject: Re: Arry port lengths
Posted by Anonymous on Tue, 07 Jun 2005 21:23:56 GMT
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Change the frequency, box volume, and port diameter to whatever you like.For my NSB array I created;* 4 chambers per tower* 4 NSB's per chamber* 1 6" diameter port, 1 3/8" length per chamber in the rear.I chose the 6" diameter for a few reasons. First it gave me a portlength that is essentially a hole in the rear wall as I have 3/4" plywood + another 5/8" MDF dampening sheet for 1 3/8" wall thickness.Second, I could only afford ~ 1.5 cu. ft. air space per chamberand I achieved the desired tuning I wanted, ~ 95-100hz with a nice+6dB boost centered around 106 hz. The plan was to make a port dooron each port so when you close the door it's now a sealed box and youattenuate the bass or you can open the door slightly to tune lower but you don't really get much output from tuning lower as NSB's don'treally move alot of air. The 100hz peak is nice as it gives you natural boom without over driving the NSB's and you could mate this toa subwoofer. I have one of my array's in the corner, rotated and Iget alittle bit more bass due to corner loading. People that auditionthe system are amazed at how much bass I get from the array, they assume I have some woofers 'somewhere' but I don't. The last reasonfor making a big 6" diameter port is... With all the sound conditioning and dampending I installed, the port is in the 'line of fire' of those NSB's so the rear wave can exit the chamber so reduce reflections off the back wall that may add coloration. If you pay attention to detail you can make an amazing NSB system, pretty neat for 49 cent speakers.