Subject: Re: Ordered Stage 4 a few days ago, question on port... Posted by Wayne Parham on Wed, 25 Oct 2006 17:58:11 GMT View Forum Message <> Reply to Message

You'll want to tune the box to 38Hz. To do that with a 4" port, I'd make it 6" long. The Helmholtz formula used to calculate this is for a straight (non-flared) port, but the alignment has a lot of "wiggle room" so I wouldn't worry about the flare. In fact, you could safely use a 4" port anywhere from 5" to 7" and the response would be almost the same.Here's the Helmholtz formula:Here's a little BASIC program that will calculate the formulas for you:10 INPUT"Enclosure Volume";VE20 INPUT"Diameter of Port";PD30 INPUT"Length of Port";PL40 VB=VE*1728:PI=3.1415926535:AP=PI*((PD/2)^2):LC=PL+((8*PD)/(3*PI))50 FR=(13548/(2*PI))*(AP/(VB*LC))^.560 PRINT"Fr = ";FR;"Hz."70 GOTO 10