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Subject: Re: Two Pi with off-sized speaker box

Posted by [Wayne Parham](#) on Sat, 23 Oct 2004 18:00:32 GMT

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tune the box to 40Hz. Here's a little BASIC program that will calculate the formulas for you, if you can still find an old BASIC interpreter around somewhere.

```
10 INPUT "Enclosure Volume";VE
20 INPUT "Diameter of Port";PD
30 INPUT "Length of Port";PL
40 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))^0.560
60 PRINT "Fr =";FR;"Hz."
70 GOTO 10
```

50000 cubic inches is 2.9ft<sup>3</sup>, which is a nice size for the Alpha 10 driver. You could go with a 4" diameter port that's 4" long or a 3" diameter port that's 2" long.

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