Subject: Re: physics of port tuning Posted by Jostein on Tue, 03 Sep 2002 10:28:01 GMT View Forum Message <> Reply to Message

The physics involved:Port resonance fport=(1/(2\*Pi))\*squareroot(K/M)K is stiffness of airspring, M is mass of moving air in port.K=beta\*Ap\*Ap/Vb, there Ap is port area, and Vb is box volume and beta is a stiffness constant for air.M=p\*Ap(Lp+16/3sqrroot(Ap/Pi\*Pi)) there p is air density and Lp is length of port.If you use one port with area A and port length Lp or 2 ports with area A/2 and port length Lp, the tuning frequency should be the same

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