
Subject: 7Pi plans

Posted by [O'tor](#) on Mon, 30 Jan 2006 21:10:53 GMT

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Hello, could I have plans for 7pi corner-horns using Eminence Kilomax 18" ? What's also the difference between Magnum 18 and Kilomax 18 (sonically speaking) ? Is Alpha 10 instead of Delta 10 a bad choice for the middle-horn ? Could I also use JBL 2426H instead of Eminence PSD 1" ? Thank you in advance, O'Tor

Subject: You've got mail!

Posted by [Wayne Parham](#) on Tue, 31 Jan 2006 02:30:04 GMT

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The Kilomax doesn't have a shorting ring. The Magnums have a shorting ring which reduces distortion. All of the JBL drivers have shorting rings. I would prefer the Delta 10 in the midhorn except in cases where the rear chamber is made large and vented to do double-duty as a bass system. The midhorn with the Delta 10 has a little better upper midrange output, and it has better power handling too. Even if you're not planning to push them, it's nice to have the overhead.

Subject: Re: You've got mail!

Posted by [O'Tor](#) on Tue, 31 Jan 2006 10:59:34 GMT

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Wayne, Thanks, I've replied you by email – you sent me by mistake 15" version and I was

kilomax 18" I was wondering to use two of them per side in push-pull configuration in order to decrease volume of the box and also to decrease distortion (kind of shorting ring effect?). I suppose in this case I have to reduce cabinet volume by 2, to recalculate the port length accordingly and, the hard part, to recalculate crossover in some way – could you help me with that please? Thanks, O'Tor

Subject: Re: You've got mail!

Posted by [Wayne Parham](#) on Tue, 31 Jan 2006 22:29:34 GMT

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push-pull configuration because the drivers are hidden. But a pair of 18" woofers might need a

cornerhorn bass bin.

Subject: Re: You've got mail!

Posted by [O'Tor](#) on Wed, 01 Feb 2006 08:06:52 GMT

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Wayne, First, thank you for 18" plans. I meant push-pull in face-to-face - "Isobaric" - arrangement, as for example on <http://diyaudiocorner.tripod.com/images/clam.gif>. The box volume has to be 1/2 in this case. When I connect speakers in parallel, I suppose that impedance pas from 8 Ohms to 4 Ohms (rough approach...) so I suppose the only change I have to do is modify L3 accordingly. I imagine two possibilities: to raise the value of L3 from 5mH to 10mH and put 2 woofers in parallel: 2L-(W||W); or to keep 5mH with each woofer and put the combo in parallel (L-W) || (L-W). Which approach would you recommend? Is there anything else I have to modify? Thanks, O'Tor

Subject: Re: You've got mail!

Posted by [Wayne Parham](#) on Wed, 01 Feb 2006 15:16:11 GMT

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As far as the coils go, it's really just a matter of inductance and resistance. Two coils - one on each woofer - would be similar to one larger coil with half the DCR. Choose whichever method suits you best.

Subject: Re: You've got mail!

Posted by [Otor](#) on Thu, 02 Feb 2006 20:59:40 GMT

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Wayne, Thanks a lot for all your responses, I will build your original design. It is really a huge box, btw

Subject: Re: You've got mail!

Posted by [Leeloo](#) on Sat, 04 Feb 2006 01:26:51 GMT

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m2.Thanks and Regards,Matjaz

Subject: Re: You've got mail!

Posted by [Wayne Parham](#) on Sat, 04 Feb 2006 18:17:44 GMT

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I will depend on the components chosen and the tuning alignment. You'll want a slightly
