
Subject: 4-10 bass cab inductor

Posted by [BillyG](#) on Fri, 06 Feb 2009 01:43:49 GMT

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Hi folks. I don't think that I have posted on this forum before but I have checked it out several times with interest. I love the four ten configuration for bass guitar because of the low end punch that I get. The part that I don't like so much is how it sounds off axis because of comb filtering. I was considering trying an inductor in series with two of the tens in my 4-10 cab. My thought on this would be to have two drivers running below 100 hz and the other two would operate full range with the existing horn and crossover. I would like to know if this will effect phasing and will it even help with comb filtering?

Subject: Re: 4-10 bass cab inductor

Posted by [Wayne Parham](#) on Fri, 06 Feb 2009 17:37:00 GMT

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No, an inductor won't help. You can't correct acoustics problems like that with an electrical filter. Comb filtering is a three dimensional problem, with response that is different at every point in 3D space. An electrical filter is two dimensional, and can only modify amplitude and phase response. This would then be applied to all points in 3D space, so no help there. Have you considered a straight vertical array instead?

Subject: Re: 4-10 bass cab inductor

Posted by [BillyG](#) on Fri, 06 Feb 2009 17:58:22 GMT

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Thanks Wayne, I have considered building a straight vertical array. I was under the assumption that comb filtering mostly happens in upper frequencies and that this would solve that problem because two of the drivers would be limited to lower frequencies.....OH well....thanks again.

Subject: Re: 4-10 bass cab inductor

Posted by [Wayne Parham](#) on Mon, 09 Feb 2009 18:08:19 GMT

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Actually, that's not a bad idea. You could reduce HF from a pair on one side, leaving only the pair on the other side to do HF duty. That would work pretty well. Good idea.

Subject: Re: 4-10 bass cab inductor
Posted by [BillyG](#) on Wed, 11 Feb 2009 02:06:59 GMT
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I finally gave it a try with a 10mH inductor in series with one side(2-tens)and it seemed to be a good improvement. Hopefully this weekend I will be able to do some real tests.....rta etc. and I was also toying with the idea of byamping to get a little more control and to play around with the crossover point.I'll post again when I get some results. thanks BillyG
