
Subject: crossover for Altec 604-8G

Posted by [billfort](#) on Tue, 23 Oct 2001 17:39:15 GMT

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Hi Wayne. What would you suggest as a crossover design for Altec 604-8G co-axial drivers? I believe the stock Altec crossovers are 12db at 1500Hz but I have heard that 6db at 1200Hz works well with these. The compression driver/horn requires 4 or 5db attenuation and has a slightly nasty 2 to 4k forwardness - is this a good situation for a compensation network?thanks, Billf

Subject: Re: crossover for Altec 604-8G

Posted by [Wayne Parham](#) on Tue, 23 Oct 2001 20:58:08 GMT

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I expect that compensation would be appropriate, but without a response graph, it's hard to say what kind. And as for crossover slope, first order is probably fine but I would be surprised if second or third order wasn't better. Crossover frequency would be dependant on the characteristics of the two drivers. Without any information or specifications, I'd probably make the tweeter circuit something like the second or third order networks shown on my crossover document. Page 53 shows a good second order with compensation and pages 61 and 64 show good third order networks with compensation. Since the tweeter and woofer are physically close, you'll probably want a symmetrical crossover but again, it's hard to say without measurements. Woofer specs are important for knowing which of these networks is optimal, and tweeter/horn specs are important for knowing what values should be chosen for R1, R2 and C3. Judging from what you've said, I'd probably start with 8-12 ohms R1, 30 ohm R2, and 0.47 to 1.0uF C1.

Subject: Re: crossover for Altec 604-8G

Posted by [Thatch_Ear](#) on Fri, 26 Oct 2001 19:51:08 GMT

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Try www.soundpractices.com There is a very good xover for 604s that was designed by a studio engineer that used 604s as monitors.

Subject: Re: crossover for Altec 604-8G

Posted by [Wayne Parham](#) on Sat, 27 Oct 2001 03:49:18 GMT

Thanks for the post! This site looks very helpful for Altec users. I see that both the A5 crossover and the 604 crossover listed on Sound Practices site use a crossover having HF compensation, very similar to what I show in the Pi Speakers crossover document. I think those will work just fine and probably sound very nice.
