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Subject: Re: Thanks!

Posted by [AstroSonic](#) on Thu, 01 May 2003 20:22:43 GMT

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Thanks to all who responded. Plenty of leads to follow. I have a copy of the Crossover doc which I have found to be a great source of ideas. Of course, this is a 'problem' endemic to all multiway speakers, except perhaps the Tannoy type coax's. I understand that there will always be some phase cancellation until the perfect brick wall filter is developed. However, I have heard many multiway speakers with 1st and 2nd order networks that sounded enjoyable and musically involving, so I am confident that this combination of drivers can be made to sing. I have not seen or been able to locate Altec (tech note?) AN-9. I did find a suggestion, in an un-numbered tech booklet on the Lansing Heritage site, to try reversing the leads on the drivers (i.e., wire the tweeters in phase with the woofers). I tried this tonight and knew at once that that was not the solution in my case! Sam emailed a picture of a sliding horn assembly using common drawer slides. This will have to be tried! The sound quality with the horns projecting just off the front edge is really quite good. Just a little thin in the mids and thrown in contrast by the metallic ringing from the 511b horns. I am currently researching solutions to that problem. Good possibilities include destressing by cutting through the fins, surrounding the horns with sand, and damping with adhesive backed damping material like Black Hole 5 or VE-1. Also, the low pass crossover values are those of Hiraga (I am using 515b's) which were developed for the front loaded horn commonly used with these components. I may revert to classic 2nd order values with a Zobel. Any suggestions greatly appreciated. Again, thanks for your help. Regards, AstroSonic