Subject: You've got mail!
Posted by Wayne Parham on Sat, 31 Jan 2009 17:23:55 GMT
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model speakers are perhaps less sensitive to changes since they are not constant directivity

directivity can be adversely affected by movements in the positions of the drivers with respect to each other, so design changes have to be carefully considered.You have a little more wiggle room

models. Keep the box volume and tuning frequency the same and you can expect bass performance to be pretty much the same. Don't make one dimension significantly longer than the others though, at least not without further analysis. This can introduce pipe modes that should be considered and possibly mitigated.Another thing, even though baffle position isn't as critical as the larger models, I'd still maintain the same woofer/tweeter physical relationship as shown in the plans. Keep the tweeter close to the woofer, and on the same plane vertically (one on top of the other) or very close to it. You can offset both drivers to one side or another if you wish, but don't offset the tweeter centerline with respect to the woofer centerline. I've done some speakers that

below the speaker, not offset to the sides.