Subject: Re: Helper Woofer Location
Posted by Wayne Parham on Sat, 22 Jun 2013 16:55:53 GMT
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They are designed for corner placement, keeping the sound source acoustically close to the apex of the corner. That removes the need for flanking subs because there is no self-interference from nearest boundary reflections.

There is no way to place a matched-directivity two-way acoustically close to the corner unless it is mounted in a soffit. It's close enough at low frequencies, but by the lower midrange, it becomes acoustically distant, which is what causes the self-interference that flanking subs mitigate.

Soffit mounting always a great way to go, but most people don't have that luxury. So the next best thing is to use flanking subs, which at least smooth the self-interference notch(es) that result from nearest boundaries.

In your case, I think I would probably put the subs outboard, bringing the mains in a couple feet from the side walls. Push them back against the front wall, just close enough to allow the toe-in. Then push the subs back against the front wall and bring them in from the side wall a bit.

Try that and see how it sounds. You can always try the other way too, with mains outboard, but I think it will probably sound better with them inboard. But again, if you can do constant directivity cornerhorns, those are even better still.

Speaker placement and wavefront launch