
Subject: Help with placement of subs with Three Pis
Posted by [FloydV](#) on Tue, 03 Jul 2012 19:49:36 GMT
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I have two three pi speakers as my left and right speakers. Each requires a flanking subwoofer that rolls off at 110 Hz.

This would be a question for Wayne, but anyone's help would be appreciated, since I wire a new house tomorrow.

The question is, is it better to have the flanking subs on the inside of the Threes or on the outside. I'm attaching one of my crude drawings. Do I want the subs in position A or B?

Thanks,

Floyd

PS: Why I used here twice and hear twice eludes me.

File Attachments

1) [Subwoofer placement.jpg](#), downloaded 2104 times

Subject: Re: Help with placement of subs with Three Pis
Posted by [Wayne Parham](#) on Tue, 03 Jul 2012 21:04:02 GMT
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Either position A or B would work, but I would prefer A. That position will do a better job of smoothing the reflection off the back wall than the side walls. But this is truly minutia, because if your speakers are positioned tightly in the corners, neither back or side wall reflections will be severe.

When a 90° CD/waveguide speaker is placed very near the apex of the room corner, adjacent walls are acoustically close at low frequencies, so they act more like a constraint boundary than a reflector. And at higher frequencies, the tweeter is directional enough that the energy directed at the walls is reduced at least -6dB, which in turn, reduces the amplitude of any reflections. The angle of incidence helps too, since the reflections from this position don't reach the listener without multiple bounces, truly defining the reverberent field.
Speaker placement and wavefront launch
