

---

Subject: Re: My new 4Pis

Posted by [Wayne Parham](#) on Thu, 04 Sep 2014 15:23:08 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I just love the looks of those speakers in red! Especially with the red amp and stereo rack. Love that amp, by the way. It's awesome!

When you have the time and/or budget, please do setup some flanking subs. Those have a specific purpose, which is to smooth the upper midbass and lower midrange. They should be placed just beside, below and behind the mains, one for each side. They should overlap the mains up to 150-200Hz or so, with a low-pass having slow gradual rolloff.

This is not how subs are normally run - Most times, subs are low-passed with steep slopes and crossover is done lower, usually below 100Hz and sometimes as low as 80Hz or even 60Hz. This is perfect for a distant distributed sub or two, which may also be helpful for smoothing the lowest frequency mode or two. But in the midbass and midrange, we're talking about acoustic scale of just a few feet, so the subs need to be closer to the mains to get the same results. The idea is to blend the sound sources (mains and subs), and that way where one source gets self-interference from a boundary, the other does not and vice-versa. The flanking sub approach averages the sound field in the midbass and midrange.

You really have a difficult environment, and that's where flanking subs and distributed multisubs help most. Every surface is rigid, with brick walls and hardwood floors, all reflections are very loud. Self-interference and room modes are very strong in your room. Damping would help a great deal, but you can't do that without totally changing decor. So flanking subs become extremely important, because the room effects are so strong.