Subject: Re: Mono "flanking sub"
Posted by Wayne Parham on Thu, 14 Jul 2016 18:40:10 GMT
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I have realized over the last decade or so that it always helps to add bass sound sources, up to about four where we start to see diminishing returns. But even beyond that, there are improvements. I have also learned that placement matters most when there are fewer bass sound sources. In the midbass, we want helper woofers a.k.a flanking subs. For lower bass, we want distributed multisubs.

So there are many take-aways from this. For one thing, the idea of high-passing mains to crossover to a single sub is useful for reducing excursion on the mains, but it is counter-productive for bass smoothness. Where modal smoothing is concerned, it would be better to have the mains be more capable of good bass reproduction, and to blend the subwoofer with them. That provides several bass sound sources, from the mains and the sub(s).

That's where I see your approach. You have a single sub, but it's blended with the mains. That provides some modal smoothing. It also can probably help reduce self-interference notches from nearest boundaries, provided the summed signal matches the mains in the problem frequencies.

Self-interference and room modes are both boundary-related problems, by the way. So while they are different problems, they are related in both their general symptoms and by the suggested treatments. Not the same, but close.