Subject: Re: Subwoofer Setup
Posted by Wayne Parham on Sun, 08 Jul 2018 16:57:59 GMT
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That's great to hear, Barry. Thanks for the feedback!

As you and I have discussed, I'm a big proponent of multisubs but I consider the flanking sub aspect to be an additional requirement. I think that distributed multisubs by themselves only solve part of the problem. Actually, I don't just think that, I can see it in measurements.

Some would say the upper end of the modal region - the top octave or so - is less problematic than the lower end. Their argument is usually that the modes are becoming closer and closer together, acting more like the reverberent field.

But this transition region is where I would argue is the most troublesome range. It's not just room modes that are a problem in the transition region but also self-interference, which is similar to room modes but not exactly the same. They occur in the lower vocal range, where our ears are becoming more sensitive. And because of that, we can't just put sound sources anywhere like we can with the distributed multisubs. The higher frequency is more localizable and our ears are more sensitive to anomalies in this range. So it's a tough frequency range to address, but one that's very important to do.

That's why I love the flanking sub + distributed multisub configuration. The flanking subs are two of the multisubs, but their more tightly coupled relationship with the mains allows them to mitigate problems above 80Hz as well as to smooth room modes below 80Hz.
Room modes, multisubs and flanking subs