Subject: Re: Mono "flanking sub"
Posted by Wayne Parham on Sun, 25 Oct 2015 20:20:57 GMT
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A flanking sub is useful for one main speaker. So you can have just one, but if you do, it can't help both speakers of stereo mains. It can only help one.

The main job of a flanking sub is to smooth the self-interference anomalies from nearest boundaries, e.g. the wall behind the speaker and the floor. It also helps smooth vertical modes and other room modes at the high end of the modal region.

But a setup that only contains a single sub will always suffer room mode problems. You can't make the room smooth with just one sub. I think the best you can hope for is to settle for a "sweet spot" by either placing the subwoofer physically close to the listening position or equalizing the response or both. This can make the one spot sound pretty good, but the rest of the room will suffer.