Subject: Re: Mono "flanking sub"
Posted by Wayne Parham on Mon, 30 Nov 2015 16:31:34 GMT
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Never apologize for asking questions here. That's what AudioRoundTable.com is for!

The thing is, flanking subs are a specialized type of multi-sub. Each flanking subwoofer is supposed to be placed two to three feet below, beside and behind a main speaker and be presented a low-passed copy of the exact same signal presented to the main speaker it is flanking. They are really intended to smooth the upper midbass and lower midrange by "filling in" the holes caused by self-interference from nearest boundaries. Flanking subs also tend to smooth the higher end of the modal region, above about 80Hz.

Distributed multi-subs are placed further away from the mains and are usually presented the LFE channel or a summation of all bass content in all channels. They can be equalized individually or globally, but the whole approach is to use several sound sources to create dense interference in the modal range, which tends to make equalization less important than location. The main benefit is derived by the number of sound sources and their distribution throughout the room.

Flanking subs are generally used with one or two distributed subs for best results. Flanking subs smooth the higher end of the modal region and the more distant distributed subs smooth the lower end.