Subject: Re: subwoofer use for old cabinets
Posted by Wayne Parham on Wed, 21 Sep 2011 20:49:06 GMT
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Don't high-pass the mains, let them run wide open. Low-pass the subs depending on their distance from the mains. If you only have a couple subs, make them flanking subs and low-pass them around 90Hz. Put the mains on stands, and put the subs on the floor just beside and behind the mains. One sub beside each main, run in stereo as left main/flank and right main/flank. Each sub should be a couple feet away from the main it is flanking in each dimension, e.g. behind, below and to the side. Make them symmetrical with the mains, mirror images of each other, with the subs just inside or outside. I generally like them to the outside, but I've measured a few rooms that were better with them inside. Either way is better than none, waaaay better.

If you have another sub or two, put them further away, on the other side of the room, and low-pass them around 50Hz. These more distant subs can be put just about anywhere you have room and they'll help. If you have your druthers, put them at side wall midpoints. Another good configuration is four corners, so if your flanking subs are near the front two corners, put a pair of distant subs in the back corners. But like I said, pretty much any location will work. Once you get this many subwoofers in the room, it almost doesn't matter where you put them as long as they're not all grouped together. Spread them around.

still pretty much the same crossover we use today in the mains. The tweeter circuit capacitor that used to be 8.2uF is now 6.8uF, but that's the only difference. Woofer circuits were always unique to the woofer you had, Zobel values changed and sometimes the core splitter components did too. I think the woofer values in your crossover are pretty much the same as what is used in the

sub.

What I would suggest for a sub crossover is an active crossover and separate amp. This can also be implemented as a plate amp. I've used the Rekkhorn F1 sub crossover, and it worked pretty well. It allows variable adjustment of the (24dB/octave) low-pass frequency and amplitude. But honestly, I kind of like this modded Pyle crossover better. It has a gentle 12dB/octave slope, which works very nicely for multisubs which are supposed to be blended with the mains. It's definitely not as cool looking though.