Subject: Re: Power/pre amp question for Pi Speakers
Posted by Wayne Parham on Sat, 05 May 2012 03:03:38 GMT
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It sounds like you have thought it through and have a reasonable plan. If all the amp channels are able to be run independently - without some kind of processor - then you should be able to use them. Basically everything but the subs are run full range, without any processing. Optionally, you can high-pass the mains and surrounds, but no higher than the Helmholtz frequency. We aren't looking for the conventional crossover - we're looking for blending. So we want the mains and surrounds to be used through the whole band.

The sub crossover is ideally configurable with respect to frequency and slope. Flanking subs are unique in that work best with low-order slopes. A fourth-order slope is fine for more distant subs, but flanking subs work better with second-order slopes. You want a gradual fadeout in the actave above 100Hz.