Subject: Crossover design is science and art!
Posted by spkrman57 on Tue, 06 Sep 2011 13:40:44 GMT
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I agree with Wayne that you can't just throw a textbook crossover together without taking the drivers/amps/environment into consideration.

Right now I'm trying to decide if I want to build Wayne's new 4 Pi crossover or reduce the LF section to be a 2nd order w/heavy zoebel. Either design is modified for 16 ohm use!

JBL 2226J and 2446J/Be/500hz round tractix Edgarhorn are the drivers and it has been mentioned before that the round horn has a different dispersion pattern and that affects the lobing.

In the past I have had success with the old 4 Pi crossover w/single coil on the 2226. I also built the new design years ago and I felt the whole did not equal the sum of the parts. Bear in mind the different compression drivers/horns I used.

I will probably build 3 versions of the LF crossover section and listen to each one for a week or so and see which I prefer in the long run.

I'm currently using a modified version of the 3 Pi crossover as it worked very well in my previous system using a EV SP-12. However the 2226 and SP-12 are 2 completely different drivers.

I just had to break-in some 2226's I just swapped for recently. The part that was really hard to handle is using a pair of JBL 2426's on a 1" to 2" JBL adaptor for my 2nd pair of 500hz Edgarhorns.

"Titanium vs Berilium" (sp?) is a no brainer, I just did not want my good horns/drivers out while swapping things around and testing.

The Be diaphrams are everything a diaphram can be. I'm spoiled big-time with them and listening to the Ti phrams now is depressing!

Sorry to go so far OT Bill/Wayne, I just have not posted much lately and trying to catch up!

Regards, Ron