Subject: Re: 3pi with Sonido SCW-300
Posted by Wayne Parham on Tue, 29 Nov 2011 23:48:47 GMT
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The forward lobe will be right as long as driver spacing and crossover phase are right. That part is really a function of the crossover and of the midwoofer and horn position on the baffle.

The stock box will work with your woofer, but as you've seen, response will fall off below 80Hz. As long as you're running flanking subs, that will be fine.
Room modes, multisubs and flanking subsIf you change box size, what's affected most is the Helmholtz tuning and the position of standing wave nodes. Those will change bass, midbass and lower midrange characteristics. My suggestion is to start off by making the box proportions and port position similar to the standard model. In other words, just grow the box by the amount needed, but keep the same proportions. Put the port at the same distance - about 300mm (center-to-center) and diagonal. I would still suggest you check the response with measurements, paying attention to the bass and lower midrange. But these suggestions will give you a good start.