Subject: Re: Open Baffle Speakers
Posted by gofar99 on Mon, 03 Jun 2013 23:22:04 GMT
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Hi Wayne, Actually they sound pretty good. Some refinements are in order though. For one I am going to enlarge the baffles to the more common size of 36 wide and 31 tall (now are 29 wide and 25 tall). This will increase the bass response with the speaker I'm now using by about 3 db all the way down to 40HZ and not mess up the lower mids in the range up to about 500HZ. Modeling indicates a response from 40 to 500 as +/- 2.5 db and a lot flatter above that. Right now I'm using a GRS car audio woofer (high Q and low cost - about $15 each from Parts Express) and a Goldwood GT25 tweeter from Madisound ($4 each)with a 2.7uf PIO crossover and a -3 db network on the tweeter. The original plans call for use of a Zenith 12 inch woofer (lots on Ebay) with the GT25 on the small baffle. If found that combination lacking in bass and it had a significant bump at about 200HZ that colored the sound. Cheap though. The GRS woofer is even cheaper and seems a better match. I tried a few other things.... 15 inch infinite baffle sub from PE (good on bass, bad in mid range without a choke to hold it to under 1K), a pair of vintage Lafayette radio tri ways, 15 inch as well (OK, but just didn't do what I thought they should), a Fostex FE126E for the upper end (too forward), some B&G Neo 3 planers on the top end (OK but perhaps too bright).

The idea is to come up with a cheap easy to do speaker system that has good performance. Hopefully with a cost of under $50 per channel. With the GRS woofer and GT25 tweeter it is close.

More to follow as I tinker.