
Subject: Subwoofers are back in town

Posted by [Bill Epstein](#) on Fri, 09 Aug 2013 18:57:09 GMT

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Some may remember I long ago cut down the BatSpeakers

and installed the 15" Dayton Classics with mis-matched plate amps.

Last year one amp quit and I hadn't been happy with the other from the start so left the subs out of the system 'til now.

With all the rain we've had this year I've spent a lot of time listening and thinking...thinking about what to do with the Adcom 545 I picked up cheap as a "Summer amp" but really didn't enjoy listening to. Then...(envision light bulb)

...acquired a cheapo 130Hz Dayton dual coil subwoofer crossover, cut it in half, installed each half in a sub, buttoned up the plate amp hole and installed a terminal.

Figuring there might be a SLIGHT mis-match between the 1.8 Watt 45 Amp and the 150 Watt Adcom

, I built a level control with a pair of Alpha 10K mono pots and a \$4 Radio Shack project box.

Subs are playing nicely with the 4Pis which is especially gratifying 'cause my "pre-amp" is passive; the level controls make the combo work.

A new pair of plate amps would have been \$250 and hum is always an issue with them. I spent less than \$50 bucks over what I already had in the Adcom and parts drawer RCAs, etc.

Let it rain. Well...not really...I do hate having that 150MM travel bike parked so many days

but it's great getting all the notes down to 27Hz or so.

File Attachments

- 1) [IMG_0298_1.JPG](#), downloaded 2810 times
- 2) [IMG_2216_1.JPG](#), downloaded 2877 times
- 3) [IMG_3248_1.jpg](#), downloaded 2755 times

- 4) [IMG_3245_1.JPG](#), downloaded 2864 times
 - 5) [IMG_3143_1.JPG](#), downloaded 2891 times
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Subject: Re: Subwoofers are back in town
Posted by [Wayne Parham](#) on Fri, 09 Aug 2013 19:35:02 GMT
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That's excellent, Bill. As you know, when we met I wasn't big on subwoofers either. I think that was because of two problems in most every subwooer implementation I heard: 1. The sub was too load, making it sound "tubby", and 2. being a single sub, it made worst-case room mode excitation, exacerbating problem 1. But after reading Welti's papers on multisubs, I began to try various approaches and found some of them to work really well. Just gotta put the subs in the right places and turn them down low enough they don't stand out. Subtle.

Subject: Re: Subwoofers are back in town
Posted by [petew](#) on Sat, 10 Aug 2013 01:00:08 GMT
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That's it Wayne, "subtle".

I thought I might be going overboard building four 15" sealed subs. My sub amp is switched with my processor, so it's easy to play music or video with the main amps off (and speakers silent).

The subs just rumble and thump somewhat quietly and don't seem to be doing a lot. But once the main speakers come online, the sound is full and amazing. Kill the sub amp and the life just drains out of the system.

Multiple subs, loping along not breaking a sweat, do wonderful things to the sound.

Subject: Re: Subwoofers are back in town
Posted by [Bill Epstein](#) on Sat, 10 Aug 2013 01:26:05 GMT
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Quote:Multiple subs, loping along not breaking a sweat, do wonderful things to the sound.

That's the key. When you can't "hear" them, it's the right level.

BTW, if anyone is interested in the level control, don't forget to tie the input and output grounds together. I did at first and heard HUMMMM!
