Subject: doubling up woofers
Posted by dr.joe on Wed, 25 Feb 2004 23:09:52 GMT
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I'm wondering about the advantages of using two woofers per cabinet. I'm thinking of an "mini-DMS-1" arrangement using a JBL 2426/2370A driver/horn between two 2206 12" LF drivers. I know using two woofers is a way of increasing sensitivity, getting the LF output 3 dB closer to that of the HF horn. But does it also extend bass response and reduce distortion? Does it improve the spatial presentation of the music (all that imaging and soundstaging stuff)? Not only DMS-1s, but a lot of "audiophile" speakers seem to favour this MTM arrangement. But with the high-power, high sensitivity 2206 JBL driver, is there any point in this for home music listening?And, finally, are any special calculations required for building double-woofer boxes, or does one simply double the internal volume and the number of ports?For e.g., JBL suggests, for the 2206 12" driver, a 2 cu. ft. box (18.9 x 14.2 x 12.3 in. inside dimensions), tuned to 40 Hz via a one 4-inch diameter port 7.6 in. long.Many thanks to all posters for a lively and always informative forum!Regards,Joel.

Subject: Re: doubling up woofers
Posted by Wayne Parham on Wed, 25 Feb 2004 23:37:33 GMT
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If running two woofers, I'd suggest limiting midrange from the lower of the two. If they aren't run up into the midrange, that's a non-issue. But if they are, then having only one of them operating in the midrange will get around the issues of having two sound sources that are spaced several wavelengths apart.

Subject: What Wayne said and...
Posted by HenryW on Thu, 26 Feb 2004 12:51:19 GMT
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You will have some figuring to do on baffle issues. Distance between the center of the voice coils and angle on the baffle will need to be part of what you address. When done all should be fine..