
Subject: Goodmans Update - Bass and Notch
Posted by [GarMan](#) on Fri, 23 Jun 2006 14:22:13 GMT
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I was able to spend some time with the Goodmans Axiote this week and was very surprised by a couple of findings. First was the bass. According to the T/S parameters I measured and Boxplot, these drivers can extend down to 30Hz in a 3 1/2 cu ft box. It just so happens that I have a box of that size available in the form of my 3-PI Theatres. I made an adaptor for the Goodmans to fit on the baffle and guess what? It does go down that deep! I'm guessing its about -10dB at that point, but its clean, clear and detailed. I still can't believe these little guys can actually pump the way it does. Now I'm rethinking my intent to cross with a sub. The second surprise was what it took to tame the mids. These speakers sound very mid-rangey when used naked. I connected a 10-band eq to the system and played with the settings for a couple of hours to find where the problem areas were. What it took was simple attenuation at 1kHz. Not by -3dB or -6dB. But as far as the eq can go, to -15dB. At this setting the drivers had an extremely natural tone, but I'm finding it surprising that it takes such an extreme attenuation at such a specific frequency. I don't have a lot of experience with correcting fullrange drivers, so I'm wondering this is common. Also, wondering what the pros and cons are between narrow/steep vs wide/shallow band notch filters. Is the phase shift resulting from a narrow/steep filter audible? Gar.
