Subject: Re: I hope everyone interested in piezos reads this whole thread
Posted by Paul C. on Mon, 14 May 2001 17:47:13 GMT
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Dave: You will like this... my home stereo spkrs are some SpeakerLab designs nearly 20 years old. This system is 2 cft sealed, 10" woofer, 3" Audax cone midrange, and the little 10mm dome Polydax tweeter. Crossover was 800/6000 12 db all the way. 92 db SPL and F3 = 40 hz. Well, I had replaced one of the mids about 10 years ago, Audax said they were no longer in production, and steered me to Madisound, where I got the last one on the shelf. So, replacing those was out.I blanked off the midrange hole, took out wire cutters and hacked out the crossover... what a pile of parts! I put in a zobel for the woofer, 10 ohms + 17 uf in series across the terminals, and a .7 mH inductor in series... a simple 6db at 1800 hz or so. I installed KSN1165a's in place of the tweeters, with an 8 ohm resistor across the terminals, to make them look like an 8 ohm driver to my meager crossover. I wired the 1165 and resistor to the L-pad, and from the L-pad back to the hot lead a 12 uf cap. I dialed the L-pad down about -5 to sound right with the woofer.These speakers never sounded so good.I will be using the KSN1196a 5x15 horn lens and KSN1188a 800 hz driver with only a 20 ohm resistor in series with the piezo, and 1.5 mH inductor in series with my older Pyle MH1560 woofers (15", 60 oz mag, 97 db SPL...) and exact box design not determined yet. I formerly had the Pyles in a 6.3 cft ported box with a Pyle H3910E horn crossed at 2500 hz 12 db/oct. I am sure the 800 hz horn assembly will give better dispersion and sound better as it will carry more of the midrange.