
Subject: 16 ohm woofers with 8 ohm horns
Posted by [frozen](#) on Sun, 10 Mar 2002 13:48:47 GMT
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Hi, Is impedance matching of speakers truly the best way to go? Would it be better to match drivers or can this be taken care of in design of the crossover without bad effects? Does this lead to lower efficiency, Etc. I am still searching for drivers let alone trying to figure out crossovers! Thanks, Brent

Subject: Motor impedance
Posted by [Wayne Parham](#) on Sun, 10 Mar 2002 20:31:43 GMT
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The crossover needs to be tailored for the load, which is the speaker motor. It's not just advertised impedance, by the way, but rather R_e and L_e are both significant. In many cases, the mechanical resonance of the motor and its acoustic environment (horn, reflex, etc.) are important to crossover design too. And the amplifier will transfer power to its load according to its impedance. So these are the things that concern you when choosing drivers of different impedance.

Subject: Re: Motor impedance
Posted by [Adam](#) on Sun, 10 Mar 2002 21:36:00 GMT
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Yep. Your amplifier will be driving the woofer at 16 ohms but driving the compression driver at only 8 ohms. The result will be that you will have to increase the amount of padding on the tweeter by 3 db. Adam
