Subject: two full range speakers mounted on the same open baffle
Posted by DanTheMan on Thu, 10 Feb 2005 23:22:29 GMT
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If you have two full range speakers with different resonant frequencies on the same baffle with parallel wiring, will the one speaker's magnet damp the resonance of the other speaker? What about in series? Thanks in advance to all you gurus, you insight is very valuable to me.

Subject: Re: two full range speakers mounted on the same open baffle
Posted by Wayne Parham on Sun, 13 Feb 2005 05:52:02 GMT
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Two dissimilar drivers in a common enclosure will act like three tuned systems: Driver 1, Driver 2 and Cabinet. I'm not aware of any modeling programs that provide inputs for two different drivers, so you might have to go at it empirically.One thing I'd be careful of is mixing drivers that were vastly different in displacement. And when I say displacement, I mean absolute displacement which includes power and efficiency as well as size and excursion capacity. What I wouldn't want is a large driver that could provide a lot of pressure combined in the same chamber as a small driver with less excursion capacity. The larger one would tend to push the smaller one beyond its limits.I realize that you're talking open baffles, so some of these things will not apply. But you might consider the tuning aspect and coupling between drivers as you proceed.

Subject: Re: two full range speakers mounted on the same open baffle
Posted by DanTheMan on Tue, 22 Feb 2005 18:35:37 GMT
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I was wodering why that set up is so popular in electric guitar amplifiers--and it sounds good in them at least! Thanks for the response!