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Subject: Impedance

Posted by [Adveser](#) on Fri, 31 Dec 2010 05:09:17 GMT

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So, to make a long story short. I have 3-ways with the tweeter and mid rated at 8 ohms and a woofer rated at 10 ohms.

I wanna make the woofer 8 ohms by wiring some components in series with the hot pole. I think the woofer is a little too restrained and it can most definitely handle the current thrown at it. (240watt speakers, 100wpc amp with no pre-amp, so more like 25 watts of total watts per channel)

I just need an inductor to reverse the resistance right? Or won't that block the signal from getting to a speaker?

Is there any way I can wire some BS resistors in a ladder to get them speakers at 8 ohms?

Maybe the difference between 10 and 8 is not enough to really affect the perceived output?

The other issue is that maybe the speaker is rated at 10 ohms but is operating at 8 ohms due to the crossover?

Tough questions. Anyone have any ideas?

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Subject: Re: Impedance

Posted by [Wayne Parham](#) on Fri, 31 Dec 2010 06:21:38 GMT

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I wouldn't change the impedance just for the sake of matching. Just design the crossover for each driver's load and call it good. Also match voltage sensitivities so each driver plays the same SPL at the same drive voltage. Their impedances aren't way different, so unless one driver is much more efficient than the others, their voltage sensitivities should be about the same.

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Subject: Re: Impedance

Posted by [Adveser](#) on Fri, 31 Dec 2010 17:29:55 GMT

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That's what I've been thinking. Nothing to see here...move along. Not worth the hassle.

Thanks Wayne. You confirmed my decision to leave them as originally designed.

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