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Subject: Is it possible to build the 4 Pi's as 16 ohm speakers?

Posted by [Charlie G](#) on Fri, 28 Dec 2001 01:02:59 GMT

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My next pair of speaker is almost certainly going to be a pair of 4 Pi's. Right now I'll probably go for pretty much the Theater series, with the Delta 15", or perhaps the Stage, w/ the Omega 15" if people consider it to be worth the money. I'll be using the H290 and PSD2002. The JBL 2226 is sure tempting though, With that dual 2226J enclosure available from the tent sale. The PSD2002 is available in 16-ohms as well. Also I think there might be some advantages to using 16 ohm output transformers with tube amps. Have you ever looked at this possibility, Wayne? Thanks muchCharlie

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Subject: Re: Is it possible to build the 4 Pi's as 16 ohm speakers?

Posted by [Wayne Parham](#) on Fri, 28 Dec 2001 03:05:11 GMT

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To use 16 ohm speakers, the crossover must be changed. The basic crossover should be scaled for a 16 ohm load, and the compensation circuit will have to be modified as well. I invite you to get a copy of Spice and to modify the basic crossover values and manipulate R1, R2 and C1 until you can make a network that provides the proper response curve for a 16 ohm compression driver. Be sure to modify the values for the drivers too to reflect 16 ohm parts instead of 8 ohm. The crossover frequency is high enough you don't have to worry about woofer resonance, but you'll want to change the values for Re and Le.

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Subject: Re: Is it possible to build the 4 Pi's as 16 ohm speakers?

Posted by [Adam](#) on Sat, 29 Dec 2001 02:20:01 GMT

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If you're doubling impedance, you should use coils twice as large and caps half as large to get the same xover. Also, the resistors should be twice as large as well. As for the impedance compensations, might be a bit more tricky...Adam

