Subject: pi studio two
Posted by Tony on Tue, 20 Feb 2007 00:41:55 GMT
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Wayne,I'd like to build the pi studio two speaker kit, but I'd prefer to use the Eminence compression tweeter/horn combination instead of the soft dome, will this work? I like how the x-overs are extremely simple in the studio two kit; is the x-over for the Eminence also similarly simple?Thanks,Tony

Subject: Re: pi studio two
Posted by Wayne Parham on Tue, 20 Feb 2007 03:55:42 GMT
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I built a prototype using the Eminence APT80. It was pretty good, but I liked the sound of the Vifa better. When using the APT80, I liked it best crossed over at 2.5kHz, second-order on both

the tweeter. Swap the polarity of the tweeter. You might give that a try and see how you like it.You can try the first-order arrangement if you want, maybe compare how it sounds with the second-order setup. When I run first-order crossovers, I like to refrain from putting a Zobel on the woofer, which makes it not truly a first-order filter. Sometimes a little more inductance is better, especially if crossover happens near a region of rising response from breakup or collapsing DI.For a first-order crossover, I find that 0.5mH works nicely on the Alpha 8 and Alpha 10. Some prefer a little more coil, maybe 0.7mH or even 1.0mH. The tweeter should start coming in around 2kHz

course.