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Subject: Re: Thermionic four Pi's sound "horny"

Posted by [Mike Borzcik](#) on Fri, 31 Aug 2001 21:58:15 GMT

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Hi,I used the standard Peavey CH-3 horn flare and built my own crossovers using the schematic you sent me. I just took some pictures of the crossovers, and I'll post them here as soon as the film is developed and I can scan them in. In the meantime, however, I'll try to give a detailed description of how I wired the crossovers, and maybe you can figure out what's wrong with it:For starters, I have a 10 uF 250V capacitor connected directly across the terminals of the woofer. The negative lead from the woofer goes directly into the negative binding post. The positive lead connects to a 1.0 mH (or uH or whatever the schematic called for; I don't have a copy of the schematic right now) inductor, which in turn is connected to the positive binding post. Also connected to the positive binding post is an 8.2 uF capacitor (the only deviation from the schematic that I know of--my sources didn't have 8.0 uF capacitors), which then connects to a 0.6 mH (or whatever...) inductor, the other end of which is connected to the negative binding post. The junction between the 8.2 uF capacitor and the 0.6 inductor is where the compensation network is connected. The compensation network consists of a 4.7 uF 450V Hovland Auricap capacitor connected in parallel with two 47 ohm Mills non-inductive resistors. The resistor in parallel give 23.5 ohms of resistance, which should be close enough to the 25 ohms called for in the schematic. In case it matters, the red lead of the capacitor is on the side nearest the positive binding post. The other end of the compensation network is connected to the positive terminal of the compression driver. The negative terminal of the compression driver connects to a 22 uF capacitor, which then connects to the negative binding post. As far as I can tell, I've followed the schematic exactly. I'm hoping that someone can wade through the description I've given and maybe find something wrong with my assembly. The speakers are listenable right now, but at the moment they don't match the transparency, neutrality, or detail of my Magnepans. Thanks for any help you can give!Mike Borzcik