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Subject: Re: 4 Pi Crossover

Posted by [truenorth](#) on Wed, 10 Feb 2021 05:03:44 GMT

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I like to report my Issue is now solved! Thanks for the schematic Wayne.

Root cause: Human error :(

My culprit tweeter wiring got reversed. Story below....

Here is how I found the issue:

1] I started by running an online tone generator application from an android device connected to my amp via the headphone jack. On the receiving end, I ran audio/spectrum analyzer on my iphone. Ran frequency sweep and measured frequency response on each driver at a time. Although it is crude, it showed both speakers were putting out between 38Hz to 18KHz (roughly) and no distorted waveform. Which meant the speakers were doing what it is supposed to.

2] At this point, I was still getting mild ear fatigue, next, I decided to switch each driver from one side to the other. Since my 4 Pi has the tweeter in a separate box seating on top of midwoofer box I proceeded to switch the tweeters first. At this point I noticed the wiring for the tweeters weren't the same. After double checking with crossover diagram I noticed the polarity on the suspect tweeter to be reversed. Further memory recall, pointed to about a month ago I was messing with the wiring but didn't get to listen to the 4 Pi right away until sometime afterwards which lead me to a wild chase.

I am happy to report my 4 Pi is back....