Subject: Swapping mid and high Posted by hornT on Wed, 10 Mar 2010 07:56:24 GMT View Forum Message <> Reply to Message

Has anyone ever tried swapping the mid- and tweeterhorn on the 7PI? My speakers are 11.5' apart and I'm sitting 12.5' away - center axis. The reason why I'm asking is that when I move a bit up and forward it gives me a much desired treble lift. Is it possible to swap the mid- and tweeter and get a good result or am I just not in the right sweetspot...?

Subject: Vertical directivity Posted by Wayne Parham on Wed, 10 Mar 2010 14:04:37 GMT View Forum Message <> Reply to Message

When sound sources are stacked vertically, there are interactions between them that change with movement along the vertical plane. Their positions are as important, if not more so, than the vertical coverage patterns of the individual sources, because as path lengths change, so change the phase relationships between sound sources. Ultimately, these relationships set the shape of the forward lobe and the positions of vertical nulls.

More information:Pi horn design philosophies Phase angles, crossovers and baffle spacing Baffle spacing, phase angles and time alignment, revisited Matching directivity in the vertical and the horizontal planes DI-matched two-way loudspeakers Crossover optimization for DI-matched two-way speakers Imaging, placement and orientation Corner Horn positioning "Sweet Spot" for listening Making speakers "disappear" Recommended toe in

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