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Subject: 2Pi - Tilting speaker up for better on axis response and time alignment

Posted by [CRISTIAN M](#) on Mon, 21 Jul 2014 13:43:03 GMT

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Hello again Wayne !

I just hope I'm not bothering you too much already , so I guess this will be my last question before start building the speakers.

Since I will not be able to build the tower versions, I wonder if tilting the front of the speakers upwards a bit would help with the "on axis" response of the tweeter at ear level of a seated or even a standing person.

In my specific case, I figured out that slanting the design  $10^\circ$  would help have tweeters roughly on axis of a person seating 12' away from the speakers...

...but in other forums some people mentioned that some tweeters don't behave well when perfectly on axis (dips at some frequencies), so I wonder what's your opinion on the VIFA's on this regard.

Also I don't know if this will be beneficial or detrimental for the time alignment of the tweeter/woofer combo (maybe this is already accomplished electrically with the crossover).

Your thoughts are higly appreciated !

C.

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