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Subject: My Pi 4 Speakers

Posted by [Doc Jr 8156](#) on Fri, 10 Dec 2010 03:41:38 GMT

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I love them! Thanks Wayne for all your help. I upgraded the crossover, wiring and added speaker bracing as prescribed. I also added the T90 at 18k and they sound wonderful. Powered by either my 5 SET amps, or my class D amp produce equally amazing result. My Orions and BIB are lonely as you can see. Godspeed.

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### File Attachments

1) [PC093698.jpg](#), downloaded 10075 times

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Subject: Re: My Pi 4 Speakers

Posted by [Wayne Parham](#) on Fri, 10 Dec 2010 04:11:00 GMT

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Welcome to the world of uniform directivity and thanks for posting the photo!

Have you tried crossing their forward axes, toeing them inward like described in the posts below?

Imaging, placement and orientation

Corner Horn positioning "Sweet Spot" for listening

Making speakers "disappear"

Recommended toe in

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Subject: Re: My Pi 4 Speakers

Posted by [Doc Jr 8156](#) on Fri, 10 Dec 2010 19:49:11 GMT

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Hi Wayne. Thanks. I will try the positioning tonight. Even now though, the speakers are disappearing. Godspeed.

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Subject: Re: My Pi 4 Speakers

Posted by [Wayne Parham](#) on Sat, 11 Dec 2010 16:33:59 GMT

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Crossing their axes in front of the listener isn't a requirement for good imaging in all cases, but in room layouts like yours, it's perfect.

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Subject: Re: My Pi 4 Speakers  
Posted by [feket663](#) on Sun, 12 Dec 2010 07:42:46 GMT  
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Doc Jr 8156 wrote on Fri, 10 December 2010 04:41 I love them! Thanks Wayne for all your help. I upgraded the crossover, wiring and added speaker bracing as prescribed. I also added the T90 at 18k and they sound wonderful. Powered by either my 5 SET amps, or my class D amp produce equally amazing result. My Orions and BIB are lonely as you can see. Godspeed.

Dear Doc JR 8156! This is very nice setup! But I have a question: the bass reflex port isn't too small?

As I see, your room's size same as mine, have you tried driving with 45 triode SE? If yes, the power is enough?  
Thanks for help!

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Subject: Re: My Pi 4 Speakers  
Posted by [Psychoacoustic](#) on Mon, 13 Dec 2010 05:53:04 GMT  
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They look terrific, as does your listening room. Let us know your impressions once you toe them in.

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Subject: Re: My Pi 4 Speakers  
Posted by [Doc Jr 8156](#) on Mon, 13 Dec 2010 19:18:39 GMT  
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Hi Feket, Thanks a lot. I don't have a 45 amp but one of my SE amp is producing 4 watts of power only and I had no issue.

The cabinet was not built by me. My ports are a little smaller than the plan prescribed but shorter.

Psychoacoustic, I tried toeing them in last night and they sounded better. The sweet spot is now much, much wider. Even I sit on a point favoring one speaker, I can still hear the other one! Godspeed.

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Subject: Re: My Pi 4 Speakers  
Posted by [Shane](#) on Mon, 13 Dec 2010 23:39:57 GMT  
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Hi Doc, how would you compare the Pi's to the Orions?

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Subject: Re: My Pi 4 Speakers

Posted by [Doc Jr 8156](#) on Tue, 14 Dec 2010 03:55:10 GMT

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Hi Shane,

Truthfully, I haven't done that yet. Since my PI 4s came, never bother to set the Orions up. My Orions have the latest revision, 3.2.1 too. One of this days, I will compare them but from memory, the Orions really sounded different from any other speakers I heard and own specially the bass representation. If I remember correctly, the Orions have a more forward mids too. The Pi 4s however, have that special timbre that is very pleasing to my ears. Like the Orions, the Pi 4 have no room boundaries when listening closed eyed. I was also happy that the PI 4s are not picky on amp selection hence I can use all of my 7 amps. What fun it is to listen to different tubes, vintage, SS, and class D amps. I am also looking forward on trying my 5 vintage receivers on my Pis. You cannot do such on the Orions. Godspeed.

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Subject: Re: My Pi 4 Speakers

Posted by [krikor](#) on Fri, 17 Dec 2010 19:06:13 GMT

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Nice rig and the 4Pi look great. I've got the parts (B&C/JBL) and xovers built, one of these days I'll get around to the cabs.

I had a pair 3Pi and thought about adding the T90 for a bit of top end sparkle, giving that I liked what it did for the Madisound BK-16 kit. How did you go about crossing them with the 4Pi and adjusting the level?

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Subject: Re: My Pi 4 Speakers

Posted by [Doc Jr 8156](#) on Sun, 19 Dec 2010 16:47:54 GMT

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Hello Krikor,

Looking at the picture, you can barely see 2 wooden boxes (on each side of the Pi 4s). These boxes housed a 1uf cap and an L-pad. The T90 are coming in at 18k. It is also helpful when you integrate the T90 that the voice coil of the tweeters be at the same plane as the voice coil of the horn driver to avoid phase errors. Godspeed.

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Subject: Re: My Pi 4 Speakers

Posted by [krikor](#) on Mon, 20 Dec 2010 03:15:32 GMT

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Thanks for the info... I'll have to keep this in mind when I build my 4Pi and if I add the T90. What type of L-Pad are you using (specs)?

Thanks again.

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Subject: Re: My Pi 4 Speakers  
Posted by [Doc Jr 8156](#) on Mon, 20 Dec 2010 22:48:18 GMT  
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Hi krikor,  
My L-pads are Fostex R80B. I got them when I got the T-90s many moons ago. According to Madisound site, R80Bs are 100w L-pads. Godspeed.

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Subject: Re: My Pi 4 Speakers  
Posted by [Frihed89](#) on Thu, 13 Jan 2011 15:15:43 GMT  
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Is that a Birdseye maple veneer? Where did you get it? It's lovely.

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Subject: Re: My Pi 4 Speakers  
Posted by [Doc Jr 8156](#) on Fri, 14 Jan 2011 16:02:05 GMT  
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Hello Sir Frihed89,  
Thanks for your comment. The speakers were veneered using plain maple and not bird's eye. They were darkened a little bit from the application of the topcoat I guess. Godspeed.

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