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Subject: Re: 4pi: Cabinetmaker's build

Posted by [Wayne Parham](#) on Mon, 13 Jul 2026 02:45:46 GMT

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Excellent. OK, then, that tells us that the drivers are hooked up properly. Crossover is doing exactly what it is supposed to do.

As for the throatiness or resonance, I suggest a couple things:

1. Check your damping material. Make sure you added the sheet that spans the cross-section in addition to the ones that line the walls. That cross-section sheet is extremely important because it traps the lower midrange better than the ones that line the walls. It should span front-to-back and side-to-side completely, essentially splitting the cabinet into two areas, one exposed to the woofer and the other exposed to the tweeter and port. Bass will pass right through but midrange and treble will not.

2. Explore the flanking-sub approach. The self-reflection from the front wall often manifests as a throatiness. It definitely causes a defect in the lower midrange if the speakers are anywhere near the wall.

You can also take the speakers outside temporarily or in the middle of a very large room to see if that's the problem.

If the problem is a bell mode in the port, you might try damping it with putty.

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