
Subject: Re: 4 Pi Build in San Luis Obispo - Progress

Posted by [alexg](#) on Tue, 03 May 2022 17:08:15 GMT

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Finally starting to make some progress..... I was hoping to post as I go but I tend to work in fits and spurts when doing these kinds of projects and although I found time to work on the speakers I fell behind on my posts and updates.

In order to recess the wave guides, I ended up using the same template strategy that "Roger S" used. Thanks "Roger S!" At first I tried to use my jig to cut the shape of the wave guide directly into the baffle but really struggled to get the corners right. The jig was great for cutting the general shape of the wave guide but didn't allow me to effectively address the rounded corners. So, I ended up making the template per Roger S using my jig and router and then routed the corners by hand. It took me a several tries to get it right but after a few attempts I finally got one that I was happy with. From there I used the template to cut the baffle. Worked like a charm.

For the woofers, I beefed up the back side of the baffle with an additional piece of wood per Wayne's recommendation in order to give them a little more "meat" to attach to. Using my jasper circle jig I cut a round disc approximately 16.25" in diameter using some 3/4" cabinet grade plywood that I had lying around and glued it to the back of the baffle. I then cut the recess and hole for the woofer.

From there I attached the baffles and vents using clamps and kettle bells.

For the most part I am pleased with my results thus far however I would like to point out a few issues.

#1 - Even though I had the local lumber yard cut my sheet of MDF to spec, after gluing up the box and then attaching the baffle my speaker was not perfectly square with some parts slightly hanging out over other parts. I ended up using a trim router to clean things up.

#2 - I pre-cut the hole for my vent with the intention of using a trim router to clean things up and

make the opening flush and square however I got little too aggressive with the jig saw and over cut the opening in a few spots and then allowed the trim router to get away from me a few times so I now have to go back and fix the problem areas with some kind of wood filler. You can see it in the photo below and in some of the other photos in this post.

File Attachments

- 1) [Inside and Front.jpg](#), downloaded 613 times
 - 2) [#3 - Jig #5.jpg](#), downloaded 592 times
 - 3) [Recessed baffle after jig saw.jpg](#), downloaded 595 times
 - 4) [Baffle with round disc JBL BAcKER.jpg](#), downloaded 486 times
 - 5) [Router cutting JBL hole.jpg](#), downloaded 120 times
 - 6) [Woofers Ring Back.jpg](#), downloaded 607 times
 - 7) [Router cutting woofers hole.jpg](#), downloaded 589 times
 - 8) [Baffle clamps.jpg](#), downloaded 578 times
 - 9) [Kettle Bell Vent.jpg](#), downloaded 578 times
 - 10) [Vent Issues.jpg](#), downloaded 585 times
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