

---

Subject: Re: 3 Pi Subwoofer Plans

Posted by [audiothings](#) on Mon, 30 May 2011 03:13:37 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Quote:However, there is another significant self-interference boundary, which is the one from the wall behind the speakers.

This should not be an issue if the speakers are mounted flush with the wall (in-wall)... am I correct? (please see pic). Of course, the resulting increase in LF will have to be dealt with by the speaker management processor...

Quote:As for the crossover design, it really is just a matter of getting the driver spacing and crossover phase right to make the forward lobe clean, and the vertical nulls set just outside the horn's pattern at HF. In theory, it's simple. In practice, it takes some work.

Sorry, but this was the part of the design I intended to mooch off your work... Since you have already done the math and the testing, I assumed that I would have to replicate your driver spacing and recreate your crossover in the digital domain, then roll off the low end as appropriate within the room... Have I gotten something wrong?

Lastly, as long as I maintain the prescribed volume, I can change the individual dimensions to suit my space, correct? For example, if I made the sub 14" deep and compensated for it in height? There will not be enough space for the port inside the box... but I have read somewhere that its perfectly fine to let the port extend outside the box...

### File Attachments

---

1) [inwall.jpg](#), downloaded 3185 times

---