
Subject: Re: Cabinet Doors, 3Pi changes and Plan Request
Posted by [Wayne Parham](#) on Sun, 01 Apr 2018 16:33:21 GMT
[View Forum Message](#) <> [Reply to Message](#)

You've got mail!

As for the cabinet and doors, I think you understand the issues well, and you'll just have to investigate the situation using the knowledge you already have. As you mentioned, the two main things are acoustic size of the discontinuity and damping of the panels.

Where a discontinuity is acoustically small, it is inconsequential. This may make the shelves a non-issue for you, because bass wavelengths are long. I often find that adjacent bookshelves are acoustically invisible.

As for the possibility of doors, they just need to be free from vibration and panel resonance. Probably all you'll need is rubber stoppers to prevent them from buzzing when they're closed.

Onto the topic of modifications, I would suggest scanning the forum for posts on mods. The last might encounter.

In a nutshell, some designs are more easily modified than others with confidence that there won't be adverse effects. Subwoofers, for example, usually have cabinets that are acoustically small so dimensional changes are usually inconsequential because standing waves cannot develop inside. But large full-range speakers are exactly the opposite. You have to assume standing waves will be present, so the shape and position of things are important. The bottom line is I'd suggest