
Subject: Re: You Are Correct

Posted by [lon](#) on Sun, 03 Apr 2005 20:31:12 GMT

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I saw the original MLTL design that Bruce Pea made for the Jordan 92s and he sent me some pics. When we originally discussed this, you gave the dimensions and I averred that this was the size (in general) of partial board shelving. So the box is that shape, the FE127 is mounted 8" down from the top and chamfered. No stuffing, so it's bare inside. Exact dimensions are: 7 3/8" w x 23 in. h x 4.5 in. d all inside dimensions. I used a couple of different pieces to make the bottom: drilled out 1 in. hole and used some plumbing parts to make various port lengths. Also tried getting the port length to specify using a sandwich of 2 particle board pieces to get 1 x 1.125 in. At least one of the original MLTLs have the port for the Jordan 92s extending out the bottom and a baffle at 45° built into floor-standing design with the port extension masking the baffle. Well, I only had those pieces of shelving which did not need a lot more cutting to get to finished size. I did my listening tests this way: You know those \$10 screw together melamine lamp stands that have 3 shelves and are about 11x11x30 in high that they sell at every discount store you can name? Ok. I used my 2 in hole saw that I got for the PVC and drilled through the center of the top shelf. So the port slides through that and _e' voila_ speaker and stand. To test I listen to organ recitals, classical and jazz shows, and dvd. What I was getting with the stubby small ports was a very muddy lower end. This is greatly improved with the 2x6 port. Clarity of string bass and even those boomers on the organ recital come through for me in this arrangement. It's not scientific. As to stuffing, I tried what you had mentioned which was putting something directly behind the driver, but anything inside seemed to interfere with that clarity I was looking for. So the end result might be that the FE127e is losing something at the lower end but the overall effect is the best I've found for the music. I do not have a shop but I remember you helped me a few years ago over in FRDF (Full Range Driver Forum by James Melhuish). That same pair of FE127s became my first project: modifying some mini speakers from Nakamichi by mounting the Fostex, plugging up the port hole and knocking out the backs. I ran that set for a pretty long time at the computer. If I had the proper port baffle set up, I think that that would be the best conclusion to the project. After all the tweaks are found, I'd like to do this build as more than a prototype-- in poplar perhaps. The room is 14x18--pretty big-- some old style apartment with a large living area. No wall coverings. I am not knowing how the walls play into this concept very much. While you're here I'm wondering what your opinion would be of the Tuba 24 over in Bill Fitzmaurice's Forum. The builders there rave about them. The Tuba 18 is a project recently written up for [_audioXpress_](#). These subwoofers get a lot of horn path in not very much space. Lastly, Bruce mentioned you had discussed the "thump test" with him to test a box. Could you describe that for AudioRoundtable?

Project page for Tuba 24 *pics*