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Subject: Any ideas for a cabinet design?

Posted by [surlyfatrat](#) on Sun, 25 Jul 2004 06:51:05 GMT

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I'm new to this forum so thanx for checking out this post. I've got a pair of peavey scorpion 10's and a set of tweeters out of a set of jbl pro home speakers. If anyone has any thoughts on the best design for a cabinet or what frequencies i should use for crossovers for this setup i would really appreciate it. THanx.

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Subject: Re: Any ideas for a cabinet design?

Posted by [Wayne Parham](#) on Sun, 25 Jul 2004 09:09:45 GMT

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Please post the model number of the JBL tweeters and the T/S specs of the Scorpion 10's. I'll betcha you'll get some good responses. You can probably build a pretty good little two-way system with those, provided the two drivers reach one another in frequency response.

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Subject: Re: Any ideas for a cabinet design?

Posted by [surlyfatrat](#) on Sun, 25 Jul 2004 20:54:40 GMT

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on the back of the jbl tweets it says:58p60dh-01hdc5 Wavemade in japan562tnvas for the peavey scorpions, this is all the info i have found. its from peavey's website:  
<http://www.peavey.com/support/searchmanuals/list/scorpionseries.cfm>

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Subject: Re: Any ideas for a cabinet design?

Posted by [surlyfatrat](#) on Sun, 25 Jul 2004 21:08:22 GMT

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here is a link also for someone selling these tweets on e-bay so you can see them for yourself.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=3276&item=5711375141&rd=1&ssPageName=WDVW>

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Subject: Re: Any ideas for a cabinet design?

Posted by [Wayne Parham](#) on Mon, 26 Jul 2004 00:29:46 GMT

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These will work well in a 0.5ft<sup>3</sup> to 5.0ft<sup>3</sup> cabinet port tuned to 45Hz. They're probably even better suited for a sealed box larger than 1.0ft<sup>3</sup>. As for the tweeter, you'll probably want to horn load it, and you'll want to obtain frequency response graphs of both the midwoofer and tweeter to decide on a crossover point and overall suitability.

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Subject: Re: Any ideas for a cabinet design?

Posted by [surllyfatrat](#) on Mon, 26 Jul 2004 02:26:28 GMT

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first off thanx for the help. secondly, i'm new at this so could you please explain what you mean by "horn load it". I also have an older set of foster soft dome tweeters. would they be a better choice. I don't have a model # for them as they are in the temporary cabinet i am using along with the peavey drivers and i am reluctant to remove them. Thanx again.

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Subject: Re: Any ideas for a cabinet design?

Posted by [Wayne Parham](#) on Mon, 26 Jul 2004 02:56:08 GMT

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To horn load the tweeter means you will mount it on a horn. If it isn't designed for that purpose, it probably won't be sensitive enough to match your midwoofer at 99dB/W/M.

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Subject: Re: Any ideas for a cabinet design?

Posted by [akhilesh](#) on Mon, 26 Jul 2004 13:23:30 GMT

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Hi SFR, For the woofer (peavey scorpion 10), you can build a box: 36" high X 14" wide X 18" deep. Use 3/4" baltic birch or MDF to build the box (or get a carpenter to build it). In the box, make a hole for the driver at ear level, and another hole (slightly away & down from the driver) of diameter: 4.3". This second hole can be 4" or more from the ground. For the tweeter, you can use either a horn configuration, if you know how to calculate and build one, or alternately, just use a dome tweeter. Crossover freq will depend on the woofer curves. Make sure the efficiencies match (in other words look for a tweeter with eff close to 99 db). PArts express may have them. (www.parts-express.com) hope this helps. tell us what you did and how it turned out!-akhilesh

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