
Subject: LABsub Bass Horn Project
Posted by [hulkss](#) on Mon, 12 Apr 2004 00:22:20 GMT
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I've made some progress finally. Should be done 100% in a month or so. I'm trying to think of a good name for it. Any suggestions?Brad

Subject: Re: LABsub Bass Horn Project
Posted by [Wayne Parham](#) on Mon, 12 Apr 2004 02:26:21 GMT
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That's a good lookin' horn. I've had trouble finding a name for the drivers too. Started with MAG12 and then Eminence wanted to make sure it wasn't confused with their Magnum 12. Danley suggested LAB12 ST and that would be great, but Eminence was afraid it would be confused with their LAB12. So I just about decided to call it the woofer formally known as Prince. But I think I'll call 'em B12 subwoofers instead. I've got a name for you. How 'bout T-Rexx? That sounds cool. Somebody already has Leviathan, but I liked that name too.

Subject: Re: LABsub Bass Horn Project
Posted by [Adrian Mack](#) on Mon, 12 Apr 2004 12:33:23 GMT
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Cool! Is that Tom Danleys Labhorn, or your own design? Is the two round holes for the drivers? It looks like you've made two basshorns yes?

Subject: Re: LABsub Bass Horn Project
Posted by [Mike.e](#) on Tue, 13 Apr 2004 00:58:03 GMT
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its his own design but its nearly the same, just has more Vrc and higher compression ratio, same physical dimensions i think

Subject: Re: LABsub Bass Horn Project
Posted by [Bill Wassilak](#) on Tue, 13 Apr 2004 13:08:39 GMT

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Mike,Afaik, it's the same lab's that Tom D. designed but he has it in an arrangement that the subs are shoot towards the middle, rather than in a corner loading scheme. From his other renderings he's going to put 3 TD-1's on top for a LCR configuration for HT. It should kick some ass without putting cracks in the dry wall. :)Bill W.

Subject: Re: LABsub Bass Horn Project
Posted by [Wayne Parham](#) on Tue, 13 Apr 2004 21:07:50 GMT
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As I recall, Brad has told me that compared to a LABhorn, his bass horn has a different driver configuration and mounting, higher compression ratio, smaller front chamber volume and a longer flare path. He expects greater bandwidth from his horn, extended at both LF and HF cutoff points. So from what I understand, it's pretty much a different beast.

Subject: Re: LABsub Bass Horn Project
Posted by [Tom Danley](#) on Tue, 13 Apr 2004 22:46:21 GMT
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Hi WayneI believe this is the fruition of a project on the lab sub forum. Here is a recent post on the sub forum.<http://www.prosoundweb.com/community/read.php?board=3&id=153898>In which case it is a pair of Labsub / BT-7 shaped horns with a flare extension.This should be capable of being quite scary when finished.I don't know if you have built a proper horn with the LAB 12 yet but they are quite powerful, more so than one might expect even.I have some measurements from Eminence on the shorted turn (flux stabilized in marketing speak) driver.I will go through them tonight and let you know how they look.I should have the real thing in hand shortly.Got to run, Tom<http://www.prosoundweb.com/community/read.php?board=3&id=153898>
horn post

Subject: Re: LABsub Bass Horn Project
Posted by [Wayne Parham](#) on Wed, 14 Apr 2004 02:57:16 GMT
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That's right. Brad Litz's basshorn is the subject of this thread. Brad posts as hulkss here.
<http://www.audioroundtable.com/HighEfficiencySpeakers/messages/573.html>

Subject: Re: LABsub Bass Horn Project
Posted by [hulkss](#) on Wed, 14 Apr 2004 20:54:00 GMT
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I have modified the LABsub design to perform as Wayne describes. It is still very much an implementation of Tom Danley's concept and very close to the original. In some ways it is closer to the design Tom published than the original LABsub (rear chamber volume for example). When I first saw the LAB12 driver my impression was "this cone looks indestructable", so a higher compression ratio closer to the BT-7 should be OK (higher HF cutoff). Then I added a mouth extension so 2 of them would work OK in 1/4 space (lower LF cutoff was achieved).
