
Subject: Wooden Horn Update

Posted by [jlharden](#) on Sun, 23 Dec 2001 13:03:21 GMT

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Hi Wayne, Thanks for attempting to gather some info on the wooden horns. Details are few and far between. From what I've gathered the people who purchase these don't care about response curves or modeling software to design sound systems. It's more of a life long experiment to determine what sounds best. I have contacted Bruce Edgar directly and his advice is 650 hz. tractix horn (his smallest) for the 2426 driver. He recommends a 800 hz. crossover point, and would go no lower. He recommends a 25 mfd cap on the compression driver while using a second order network on the bass driver. I would imagine that we could utilize a round horn and keep our original crossover points and slopes. It then may be possible to experiment with various degrees of top octave compensation since we don't really know what's going on up there.... Or use a pair of 2370's with established measurements and be done or perhaps fabricate a pair of 2370 clones from wood, what do you think about that? Happy Holidays! Jerrod

Subject: Re: Wooden Horn Update

Posted by [Wayne Parham](#) on Sun, 23 Dec 2001 18:19:30 GMT

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I'd love to have wood horns with a radial 90x40 pattern. I've been enamoured with the wood horn offerings from TAD, from JK Audio and the DIY information from Yuichi. I'd like to find a manufacturer somewhere in North America willing to make horns like these. The cost would undoubtedly be fairly high because they are relatively labor-intensive. They can't be made on a lathe and would require CNC machining and assembly. But they would be the cream of the crop, in my opinion.

Subject: Re: Wooden Horn Update

Posted by [BillEpstein](#) on Sun, 23 Dec 2001 22:47:55 GMT

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The more I look at the Yuichi design, the more simple it becomes. A bowl turning that's not scooped out; cut exactly in half; mortised with a horizontal boring rig fitted with an end mill and the various triangles and trapezoids glued in place. And of course a turning for the thingy that attaches the compression doohickey. For whatever reason Yuichi chose a lamination for his bowl, solid stock could also be used. That thickness should be dimensionally stable in almost any hardwood. I like the acoustic properties of mahogany and maple in that order. Mahogany is easier to acquire in 16/4 and more stable in central-heating-land. C'mon Garland, you can do it!

Subject: Re: Wooden Horn Update
Posted by [Mike Bates](#) on Sun, 23 Dec 2001 23:41:58 GMT
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Funny how some people won't take the advice from folks that actually use the horns. The horns load to around 3k and start rolling off. Just use a simple series shelf and an impedance eq. This might take a couple hours of experimenting, measuring, and listening, no big deal or major project. Just do it! I agree with Bruce Edgar, I think a first order crossover sounds best on the high pass. The lowpass will be determined by the bass driver response. My "life long" experiment probably won't end until I'm dead. So what? Some people never get started -- and some people never really finish. Starting comes easy for me, and the strive to finish is what makes the journey interesting. A way for you to start is to buy some of Bruce's little 650 cycle horns or a pair of SB 500 cycle horns. They really aren't expensive seeing they will last you a lifetime. Mike BatesCoolJazz

Subject: Re: Wooden Horn Update
Posted by [Garland](#) on Mon, 24 Dec 2001 13:03:32 GMT
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Yeah, that's what I thought! I just have to find the time! First comes the theater 4's, Then the Paramours, and amongst all this is squeezing in time to change diapers and run the kids here and there and even put in some time at work!? Oh yes, I forgot to mention my wife?!? The fabrication does not really look too involved; I'd approach it just like you said, right down to the doohickey!Garland

Subject: cut the "bowl" turning into quarters,
Posted by [Sam P.](#) on Mon, 24 Dec 2001 13:25:32 GMT
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attach side panels, and you would have a PAIR of 45 degree horns from one turning. I'm looking at my wives' antique wood fruit bowl with "saw hungry" eyes right now, but she'll be home from work too soon! Sam

Subject: really meant four 90 degree horns!(nt)
Posted by [Sam P.](#) on Mon, 24 Dec 2001 13:29:30 GMT

nt