
Subject: 395 horn ???

Posted by [Wayne-o](#) on Sat, 07 Mar 2009 03:31:52 GMT

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Will this work in place of the 290 horn without any major differences ?Thanks.

Subject: Re: 395 horn ???

Posted by [Wayne Parham](#) on Sat, 07 Mar 2009 03:57:46 GMT

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No, the H395 is not a suitable substitute for the H290. To be honest, I never cared much for that horn. The sharp edges within the flare cause discontinuities that make internal reflections, ultimately creating spikes in impedance and response. The H395 horn sounds harsh and spitty to me, as do all horns like that.

Subject: Re: 395 horn ???

Posted by [Wayne-o](#) on Sat, 07 Mar 2009 04:34:11 GMT

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Is there any others you would recommend ???

Subject: Suitable tweeter horns

Posted by [Wayne Parham](#) on Sat, 07 Mar 2009 04:59:39 GMT

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There are plenty of good horns out there, some that I would consider to be compatible, at least conceptually. The difficulty is knowing how they'll act in terms of summing, both on-axis and off-axis. Not only does response matter but also directivity and physical position, because each plays its part in setting the acoustic position and radiation pattern of the sound source. This makes it harder to know whether a horn will work as a drop-in replacement, or if crossover changes will be needed. Without doing some fairly extensive tests and measurements, I'd stick

Subject: Re: Suitable tweeter horns

Posted by [tmavr](#) on Sat, 07 Mar 2009 22:10:08 GMT

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This is my first post so Thanks for making this forum so informativel was thinking of modifying a pi 3, The main idea is to use a tractrix horn to load the B&C DE250 . The horns mounted on top of the pi 3 main cabinets. Has anyone attempted something like that before (with pi 3 or pi 4)? Any thoughts?I am prepared to do measurements and modifications to the xover.

Subject: Re: Suitable tweeter horns

Posted by [Wayne Parham](#) on Sat, 07 Mar 2009 22:17:07 GMT

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There have been several people that have done that over the years. Of course, this changes the polar response of the speakers. One of my main focuses has been uniform directivity, so this isn't something I recommend. But you can certainly mount a salad bowl type horn on top and optimize the speaker for on-axis response. Off-axis response isn't as good, but there are lots of people that really like this kind of setup.

Subject: Re: Suitable tweeter horns

Posted by [tmavr](#) on Sun, 08 Mar 2009 00:39:07 GMT

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You are right about the directivity of the tractrix. Nice to know that other people have tried it. Thank you for your rapid response.

Subject: Re: Suitable tweeter horns

Posted by [Wayne Parham](#) on Sun, 08 Mar 2009 04:31:27 GMT

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One thing I think I'd still do it to match the horizontal directivity at crossover. That way, directivity collapses over the entire audio band. I would prefer constant directivity, but I think uniformly collapsing directivity is the next best thing. At least then the power response can be uniformly falling too. Keep the woofer and tweeter as close as possible to make the vertical nulls spaced as widely apart as they can be above and below the forward axis.

Subject: Re: Suitable tweeter horns
Posted by [tmavr](#) on Sun, 08 Mar 2009 12:01:09 GMT
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That is going to be a difficult task. I am prepared to do measurements and fine tuning. One thing is for sure, it is going to take me at least a couple of months. Thank you for your early educated feedback.

Subject: Re: why "I like Wayne!"
Posted by [Matts](#) on Sun, 08 Mar 2009 18:25:42 GMT
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I'd rather not spend couple months doing all that!! and I know that Wayne has done a thorough and sound job in all his calculations and tests, so I'm comfortable relying on them. People like Wayne and Paul Joppa at Bottlehead help keep a hobby a hobby for a lot us by doing the math and doing it right (unlike many in this business). thanks guys.

Subject: Re: Here's trubble
Posted by [Bill Epstein](#) on Tue, 10 Mar 2009 03:13:56 GMT
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I've heard the Edgar Titans on several occasions (I'll never forget the first time; I loved them)and all his various tractrix at Spkrmans over the years. No ones put more salad bowls on BR cabs than Ron. I've also heard the 'big' bowl horns, you know, the one's painted in automotive colors.They all share a sound that is somewhat laid back and at the same time oh-so-clear. Seductively so. But there's also a darkish coloration to my ears that seems almost vintage. IMHO opinion, that's not what live music sounds like. Tractrix lack dynamics and the ability to slam a wavefront into your head when that's called for or the instant de-acceleration of the wave on a subito piano.Of course, I could be wrong.
