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Subject: Found some older parts...

Posted by [Tronographic](#) on Wed, 25 Sep 2024 02:22:31 GMT

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So, about 2 years before the pandemic I packed up my entire shop because we were gearing up to do major renovations on our house... so much of the projects I had lined up got forgotten to the mists of the lockdown... Well, I'm finally unpacking stuff and through cloudy memory, trying to remember what I had planned for this stuff... Aaaand, I honestly can't recall much these days. Some of these things have been sitting in boxes for years and are tied to daydreams of speaker projects...

I have the following:

- Pair of Eminence H295 waveguides (bolt-on)
- 2 Eminence H290 waveguides that seem mismatched and from different production runs... One is heavy and one is light... you can see from the pics that they are different. It would send my OCD through the roof to try and make these into a pair... so maybe somebody needs an older one to match an orphan?
- 2 Eminence PSD2002 compression drivers

I'm planning to build a pair of 4PIs, but I also have a pair of Wayne's waveguides and PCBs, which I don't recall purchasing... weird. I also plan to use the B&C DE250 instead of the PSD2002... How are the Eminence H290s different from the PI waveguides, are they interchangeable?

So, what to do with the extra Eminence parts? Sell, Trade, Build something else for funsies? I'm also having a stoop sale here in Brooklyn this weekend... what would be a fair price for these parts if I just want to move them quick?

Cheers mates,  
D

Eminence H290:

Eminence H295:

## File Attachments

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- 1) [EM-H290.jpg](#), downloaded 56 times
  - 2) [IMG\\_2091.jpg](#), downloaded 57 times
  - 3) [EM-h295a.jpg](#), downloaded 56 times
  - 4) [EM-H295b.jpg](#), downloaded 57 times
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Subject: Re: Found some older parts...

Posted by [Wayne Parham](#) on Wed, 25 Sep 2024 13:51:52 GMT

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Cool old horns!

I have some of the old Eminence H290 horns too. They were a radial horn, and they sounded really good, in my opinion. They offered good spectral balance and fairly good horizontal dispersion.

That's why I used that particular horn in a lot of speakers. It wasn't a constant-directivity horn, but it did provide fairly uniform coverage along the horizontal plane. And it was much smoother than a horn of the time designed for constant directivity.

That's what the Eminence H295 horn is - a constant directivity horn. The coverage is more uniform, but there's a price for that. It's pretty harsh sounding. That's the drawback of that horn and all the other CD horns of that era - they were harsh and "spitty" sounding. Cymbals sounded like they had been run through a phase shifter - 'cause they had been. The acoustic version of a phase shifter, which is the diffraction slots and edges within the throat and body of the horn.

The horns we sometimes call "waveguides" are an answer to that. They offer the smoothness of a radial horn with the coverage uniformity of a constant-directivity horn. In fact, a well designed "waveguide/horn" can do better in both regards. That's what the Pi Speaker's H290C waveguide/horn is:

H290C Horn/Waveguide

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