
Subject: Horns

Posted by [johnnycamp5](#) on Sat, 06 Mar 2021 21:00:40 GMT

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I wanted to show my fellow "Audioundtable friends" a horn build I just completed. They were a bit edgy sounding when I first got them rolling, but 36hrs (constant run time) later they're a lot smoother sounding.

File Attachments

- 1) [CACE446B-D3E7-4BD9-93C0-BF97CC35AEE0.jpeg](#), downloaded 568 times
 - 2) [F9DA1A7F-7007-43B7-90F4-1A04333C5A69.jpeg](#), downloaded 516 times
 - 3) [CAF1FD67-37A5-4E7B-8331-C577CE4E9E38.jpeg](#), downloaded 547 times
 - 4) [6761E8A3-B3E9-4C22-ABBE-1F2885D64F6D.jpeg](#), downloaded 548 times
 - 5) [C17FBC5F-94A4-4DBC-AD22-DA7004A0EF3D.jpeg](#), downloaded 572 times
 - 6) [C0B0D6B4-F534-4470-99F3-8186431EC918.jpeg](#), downloaded 491 times
 - 7) [76D02676-7174-45A2-B869-4336B743B5BD.jpeg](#), downloaded 554 times
 - 8) [DD82A441-02FC-4B68-8863-4E8A5E178A81.jpeg](#), downloaded 594 times
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Subject: Re: Horns

Posted by [Wayne Parham](#) on Sat, 06 Mar 2021 21:49:32 GMT

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Wow! Those look incredible! I'll bet they sound incredible too. Magic setup you have there!

Subject: Re: Horns

Posted by [johnnycamp5](#) on Sat, 06 Mar 2021 22:54:46 GMT

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Thanks Wayne.

They (PE) sent me a 16ohm and an 8ohm compression driver so I had to get that straightened out first.

I only attempted this build since the horns go from 300Hz to 20,000Hz. (Really 350-18,000). I would never have attempted had I needed to build a passive crossover at frequencies north of 500 Hz. I do not have the confidence/technology/knowledge yet.

It's more of a "woofer enclosure build with horn dropped on top" build, not a "loudspeaker" build lol.

The JBL's are bandpassed from 45 to 450 Hz. using the Crown amp DSP.
Subs are low passed at 100hz using another Crown.

I had to pad down the CD's with a 25ohm resistor (series) to better match the 2226.
Then I just EQ the response once I had all the gains fairly matched.

Sounds real good now, more balanced and uniform than it has a right to, beings how I threw this thing together!. I'll try and post up a 1/12 smoothed FR at the listening position.
There are four subs across the front wall/floor laterally (one under each midwoofer and two towards the center) Also some new 4" thick panel absorbers. Bass response seems better than ever.

I was a bit concerned with the mid range from the CD, as sometimes they can be a bit edgy (Didn't they used to call them squawker's?) but things have smoothed out substantially and I'm quite pleased.
