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Subject: Altec H811 B horns

Posted by [Iowa Boy](#) on Mon, 07 Jul 2014 17:47:23 GMT

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Well couldn't wait on original Kustom siren horns since I want to get this system up and running. Bought a set this weekend on Ebay at what I thought was a good deal. I know they will not fit in my D-130 cabinets since they are too long but plan to build a box and set them on top of the cabinets. This way, I now will be able to use all 4 of my speaker jacks from my 400 amp (2 k200b amps in one cabinet). So far I have only been able to find a couple of original Altec driver (908-16a) but there watt rating is 40-80 rms. Would like to go with something closer to the 200 watt level if possible. Any help would be appreciated.

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Subject: Re: Altec H811 B horns

Posted by [stevem](#) on Tue, 08 Jul 2014 01:12:15 GMT

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If you cross them over above 1K,40 watts is LOUD!

A real good speaker is rated at 98 db, and those drivers are rated at 108 or better which is over twice as loud as the 98 db speaker driven with the same 40 watts!

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Subject: Re: Altec H811 B horns

Posted by [Iowa Boy](#) on Tue, 08 Jul 2014 03:04:33 GMT

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What do you mean by cross them over by 1 K?

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Subject: Re: Altec H811 B horns

Posted by [stevem](#) on Tue, 08 Jul 2014 11:13:37 GMT

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A High frequency driver can not just be hooked up right to a amps output.

Those drivers are made to work from 500 hz and up, so there needs to be a crossover put in place, be it just a simple cap like Kustom used a lot , or a better form of crossover be it a passive type or a active type where a whole other amp is used to power the high frequency section.

In regards to crossover point, going up from the beginning 500hz to 1000hz will sound better and save the voice coil of the driver a ton of stress from not having to handle those lower frequencies!

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Subject: Re: Altec H811 B horns

Posted by [chicagobill](#) on Tue, 08 Jul 2014 16:34:02 GMT

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And remember that due to the physics involved in sound, it will take two to four times the power to

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drive the low frequencies than it will to drive the high frequencies to an equal loudness.

If you are going to use a single amp system, a simple capacitor and resistor crossover with an L-pad control would probably work best for your add on cabinets. That way, you can use the L-pad to set the level of the highs to better balance with the low frequencies.

I'm going to guess that out in the interwebs there are sites where you can design your crossover by inserting data and getting back resistor and capacitor values, etc.

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**Subject: Re: Altec H811 B horns**  
Posted by [Iowa Boy](#) on Tue, 08 Jul 2014 17:51:34 GMT  
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Hey thanks for the info.....I do have the data sheet on these horns and its recommended lowest crossover frequency for the 902-16A driver is 1200Hz.

I am looking at Seleium D220Ti-16 drivers that are 16 ohms and rated at 80 watts rms, 160 peak. This is over kill probably but would rather have the extra verses less. Unfortunately these are not bolt on. I know Seleium makes an adapter but don't know yet if my horns are 2 or 4 holes. Have only seen the 2/3 hole model. Could this be mounted using only 2 of the bolt holes or do I need to add holes to the adapter if none are available? What about a gasket, are they used in these applications? Or does Eminence have a driver rated this high that doesn't need an adapter? I'm Leary about buying a used Altec driver since they are sooooo expensive and question what shape the diaphragms are in.

Definitely will get a crossover and l-pad to match what ever drivers I get. What this is costing me, I want it done right.

Final question about these horns.....they are raw. On the Kustom's were they gloss black or flat black?

Greatly appreciate all your help once again.

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**Subject: Re: Altec H811 B horns**  
Posted by [steven](#) on Wed, 09 Jul 2014 12:27:41 GMT  
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Eminence makes a 2013-16 model 2 bolt driver that handles 85 watts rms and goes for 80 bucks from parts express, I would not beat your wallet up for any driver that handles more power than this!

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