Subject: Horn or bandpass?
Posted by Thumper on Fri, 31 Oct 2008 21:42:39 GMT
View Forum Message <> Reply to Message

I am gathering advice from people often about bass in cars. Looking at all types of cabinets: horns, bandpass, isobaric, etc. One question I have is how does a basshorn work in a small car? I understand the horn works by matching the radiation impedance. In a car impedance is very different than outside. It is a pressure zone like a sealed box. Doesn't this make the horn stop behaving like a horn? Would a bandpass box be better in a car?

Subject: Re: Horn or bandpass?
Posted by Head_Unit on Wed, 17 Feb 2010 04:19:43 GMT
View Forum Message <> Reply to Message

A friend made horns which started under the seat and flared along the floor, exiting around the firewall. This was not some hobbyist fooling around, this was at a several billion dollar automotive company. UNBELIEVABLE bass from little 5" drivers. Horns basically transform the impedance of free air down to something the driver can "grab" better, therefore much more efficiency. A bandpass &/or arrays of multiple woofers get somewhat of that effect, but not as effectively (pun intended )

Caveat: The folks at DIYAudio.com can tell you about designing the horns, but integrating into the vehicle is completely uncharted territory. You might get better opinions if you tell us about your vehicle and how much space you are willing to give up in what part of it...

Subject: Re: Horn or bandpass?
Posted by Wayne Parham on Wed, 17 Feb 2010 14:47:00 GMT
View Forum Message <> Reply to Message

We're pretty good at designing horns around here too.