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Subject: Re: Horns, transmission lines and reflex cabinets

Posted by [Chris K](#) on Fri, 19 Aug 2005 01:29:06 GMT

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Wayne Parham wrote: "The thing is, average SPL is not increased whether using a backhorn, transmission line or reflex cabinet. They all boost bass output only. So all of these types of loudspeakers have basically the same maximum SPL limit." I'm an admitted "novice" at understanding the finer points of horn theory. However, wouldn't the acoustic "resistance" of the horn loading the bass frequencies that have great amounts of electrical energy being fed to the voice coil, provide the amplifier with a corresponding inductive electrical resistance at those low frequencies, thus leaving the amp more "juice" for higher SPLs? All the while the horn mouth providing the needed "area" of air movement (albeit reduced amplitude) thus giving the bass needed boost. In other words my feeling is that if you physically restrained a speaker cone from movement (damped) you could put more power from a low powered tube amp to the coil and have that physical resistance "unload" the amp of its current requirement in that low band of frequencies saving power for the upper audible band. Is this a valid point of view to you "experts" here?

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