
Subject: Re: DON'T CLIP THAT AMP!!!(long ramble)
Posted by [Jerry Parker](#) on Fri, 09 Aug 2002 11:30:18 GMT
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Yeah, we were probably clipping them a little bit. What I don't get is this. Since the amplifier is rated at 100x2, the maximum power output possible is 200x2 assuming a full square wave with the same peak voltage as maximum sine wave output. Wouldn't that be a correct assumption? Now, the LF motor is rated at 300w. So, technically it shouldn't blow up, but we all know how that goes... As for the compression driver, it is rated at 80w, so perhaps we could blow it, but it has that steep 3rd order highpass and also that protection lamp. I realize this is all "theoretical" and the real world things happen differently. Also, we have not reached the mechanical power handling of either driver AFAIK. The woofer does not need to excursion very much to produce impressive bass (probably a result of the EBS cabinet). I suppose that the tweeter could face overpowering on a mechanical level, but with such a steep highpass filter and a 2" radiating surface, I doubt that. So now we have to worry about the thermal power handling. The woofer should be able to handle that kind of power levels for a few minutes shouldn't it? What about the tweeter? The passive filter should protect the driver from the amplifier's clipping. How long do you think would be a safe level to play them at really loud levels? Thanks.