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Subject: Re: Class A, AB1, B, C Operation/Modes  
Posted by [positron](#) on Tue, 07 Feb 2023 22:13:56 GMT  
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I run mine Class AB1, and triode for years. Some day will try UL.

At the volume I listen it is mostly if not all Class A mode as you Go.  
At one watt output, the amplifier distortion is ~0,05%, so still quite low.

I have been running sophisticated listening testing and found my mono blocks do not alter the sound, when no load. However, my load is a variable cone type speaker so what do I do?

The trick is to match the amp to speaker with the correct total gauge speaker wire. I don't worry too much about self inductance. This is fun,,, ya right. Each system will be different. It takes a lot of time, so beware.

As it turns out, I am running all copper, 10 strands of 18 gauge, 6 feet long in parallel for each leg to the speaker, adn the other speaker. Total gauge is ~9.2 gauge if I remember correctly. Yours will vary.

If I run 9 strands or 11 strands in one leg, the sound is not optimual in my design. It sounds either too thin or too dull.

Anyone can start testing in their own system for optimum sound. I would start with hardware store doorbell wire as a starter. I used double wire in jacket.

Make sure the wire/cable length to one speaker matches the leg length in the other speaker. Otherwise you may have to add or subtract a strand for optimum matching of both speakers. Self inductance will also be different, but maybe low enough to not matter.

Replacing a strand of regular wire with Jenalabs wire will certainly alter the sound. Right now, I am using one strand of Jenalabs 18 gauge wire in each leg with nine regular strands of hardware store wire (99.9% pure).  
(Jenalabs wuite is 6N pure, 99.9999% pure, and expensive.)

cheers

pos