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Subject: Re: Class A, AB1, B, C Operation/Modes  
Posted by [positron](#) on Tue, 07 Mar 2023 01:01:21 GMT  
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A I had an experience that moved me to post.

I went to an audiophile friend's house after he mentioned being shocked when he plugged in an ic to his ST70 amplifier. It turned out that the pin 1 (ground wire) was not connected to the chassis and the power transformer internally shorted resulting in some high AC voltage on the chassis. Of course the ics were grounded, so when connecting to the ST70s, he was shocked.

ST 70s are known for power transformer failures, so I would make sure you do not defeat the ground wire to your ST70, or someone else has not done so. This includes not using a 3 to 2 plug adapter.

If it is disconnected, please reconnect it. If you cannot, please disconnect all AC power plugs before connecting audio component ics. Then plug in your components.

It has made me a little sensitive in this area. The resistor wattages I use are multiple parallel 10 watters with total resistance around 1.5 - 2 ohms or so. This keeps the chassis ground to jacks/signal grounds at very low voltage differences, so no shocks. The resistors also do not open while the fuse blows as intended.

As a former designer/manufacturer, I plug and unplug ics all the time and I need personal protection, and to keep all component plugs connected to outlets when performing listening tests. Unplugging and plugging in the power cords could possibly taint the listening tests.

I use my own non shielded 6N copper wire in my ics to the amp for improved sonic quality. (Also for other source components to the preamplifier inputs.) As for any hum, I designed a circuit specific 60hz hum canceling circuit in my amplifiers. Fortunately, ear on the driver and zero hum.

(I edited for fuller and easier understanding of why I do what I do.)

cheers to all.

pos