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Subject: Re: Tubes versus Transistors

Posted by [positron](#) on Tue, 04 Feb 2025 16:08:07 GMT

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To explain a little further on #117, I am sure our friends have heard more inner detail when one purposely leans their system, or even brightening the top end frequency response. On a good system, one can hear the effects down through the lowest bass regions. One is removing masking by leaning the bass, or due to over bassing, or masking caused by electrolytic capacitor(s) DA, or even other parts. Of course, one can teeter/totter and over lean one's system and lose naturalness.

Ok, so let's install polypropylene capacitors in place of electrolytic capacitors in the entire system, removing the masking caused by electrolytic capacitors. This will allow us to perceive the smallest frequency response and inner detail changes, easily past -120 db. (Although not reliably, we have tested FR down to 1 part in 11,000,000, or approx. -140 db change). -120 db actually becomes the limiting factor in inner detail retrieval in my system. We have to remember though that this is a lab system, not a typical system.

DA, 7% of the music is lost to non musical nonsense in each electrolytic capacitor used. Compare that figure with 0,02% for a polypropylene capacitor. We actually hear more inner detail while improving the naturalness of the music (assuming an accurate polypropylene cap is used.) The difference in naturalness, and sensitivity is profound.

Specs sheets do not mean much when comparing components.

Virtually all audio components use multiple electrolytic capacitors. (My lab designs do not except for the high voltage output which is bypassed with poly caps.)

Any small change, such as bending an inductor lead, or bypassing a 2 ohm resistor with megohms, the response and inner detail change is perceived.

Cheers

pos

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