



Ken Eckert <eckertkp@gmail.com>

Re: [TekScopes] refurbishing TM500 and TM5000 hardware

Roy Thistle <roy.thistle@mail.utoronto.ca>

Wed, Oct 28, 2020 at 9:00 AM

Reply-To: TekScopes@groups.io

To: TekScopes@groups.io

On Wed, Oct 28, 2020 at 01:22 AM, Jean-Paul wrote:

>
> The cap reforming is more of an issue on very old vacuum tube (valve)
> equipment eg hifi amps made in 1950s..1960s.

>
Certainly... and thus so in large measure to those old caps obsolete technology, and obsolete construction/production. Certainly, there is no lack of opinions about capacitor reforming. (... whatever that might mean.) Below are some short quotes, from a Rubycon document. (Rubycon, whom I trust, is a respected Japanese producer of high quality aluminum electrolytic capacitors.)

The leakage current of aluminum electrolytic capacitor is rather larger than other types of capacitor. This value will be influenced by temperature, applied voltage and applying time of voltage. Particularly, brief leakage current level which does not reach to specified time such as 2 minutes after applied voltage is unstable. (Rubycon)

Leakage current of Aluminum Electrolytic Capacitors may be increased after storage for a long time. Conduct electrification treatment for such capacitors before use.(Rubycon)

Electrification Treatment

Connect a 1kΩ resistor in series with the subject capacitor, and apply the DC voltage as high as the Rated Voltage for 1 hour.

Discharge the capacitor through a resistor of about 1Ω/Volt after the electrification. (Rubycon)

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