Subject: Re: PS Transformers Posted by Damir on Fri, 28 Jul 2006 22:05:39 GMT View Forum Message <> Reply to Message

"I have a couple PT's on hand; but not the ability to test each one for it's parameters."What you need more? You can measure primary and secondary DCR, and with formula Rt = Rs +(Ns/Np)^2 * Rp you can find the "equivalent" PT resistance, where Rs is a DCR from CT to the one end of the secondary (from 0-350V). For example - you measured Rp=5 Ohms, Rs=20 Ohms. Then you can measure unloaded sec. voltage, say 350-0-350 V.Ns/Np is PT turns ratio, equal to voltage ratio (sec/prim.), say 350/117 = 3. Then our Rt = $20 + 3^2 + 5 = 65$ Ohms. This Rt rectifier tube on the secondary "sees". If you don't know current rating of your PT, then you can guess by its size, and if it is salvaged from some equipment (preamp/power amp).You now have all you need for PSUDII - Rt, Utr - choose your rectifier and a first filter (LC or CLC), put the CCS as a load (estimated current of your amp) - and start playing with the program with various values, rectifiers, etc. For example, you need 375V/100mA DC and you tried 10µ/10H-100R/100µ with 5R4GYB rectifier you have in your junkbox...yes, that's about it!Breadbording proves that you are quite close, and you liked the sound - happy end...

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