Subject: Re: PS Transformers
Posted by Damir on Fri, 28 Jul 2006 22:05:39 GMT
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"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...