Liverpool pre amp.

The resistor labelled Rgs may be omitted, its value varies from 820K to the example 5Kω which was 2.2Kω. Rac is mounted on the valve though the drawing implies otherwise.

R7 & C8 are where the response of the amp is "tuned". The value of C8 may vary from 0.005uf to 0.01uf. Likewise the value of R7 may vary from 33K and 100K. The values for R7 & C8 I recommend are either 56K or 68K for R7 and either 0.002uf to 0.0047uf for C8.

I recommend the value of 68K for R7 over 56K as the amp just had that something when using this value. I should also point out in both Liverpool amps I saw C8's value was made using a ceramic cap in parallel with a poly cap. I have experimented switching between a 0.001uf ceramic + 0.001uf 715 Orange Drop and a 0.0012uf 715 Orange Drop. Both caps sound the same to me.

This amp should constructed using polystyrol caps & not the 715's (P.P) caps I have mentioned above. Mallory brand caps are preferred by Ken Fischer, though amps have been built using Orange Drops.

Mark Schiff
July 4
I have listed the stock Vox value of 50Ω. A value up to 75Ω would also work here.

Liverpool output stage.

Mark Elliott
May/4
When a signal was applied to the amp & the volume control was set to maximum, I found that B+1 = 326voc, B+2 = 307voc, B+3 = 242voc, B+4 = 222voc, B+5 = 211voc.

Should an 18 watt version of the Liverpool wish to be made, the value of the 1KΩ/25w resistor would have to be increased in value to 1Ω7k.

I have been told that some Liverpool amps did have different cap values in the power supply. This being twice the value listed above with the exception of the cap at node B+5. The alternate values being 160uf, 80uf, 40uf, 40uf & 20uf.

The values that are written on the circuit are values that I have seen & know to be true. I should point out that I have tried the alternate cap values and noticed no difference in performance. Of course results will depend on the power transformer.

Liverpool power supply

Mark Allen July 4.