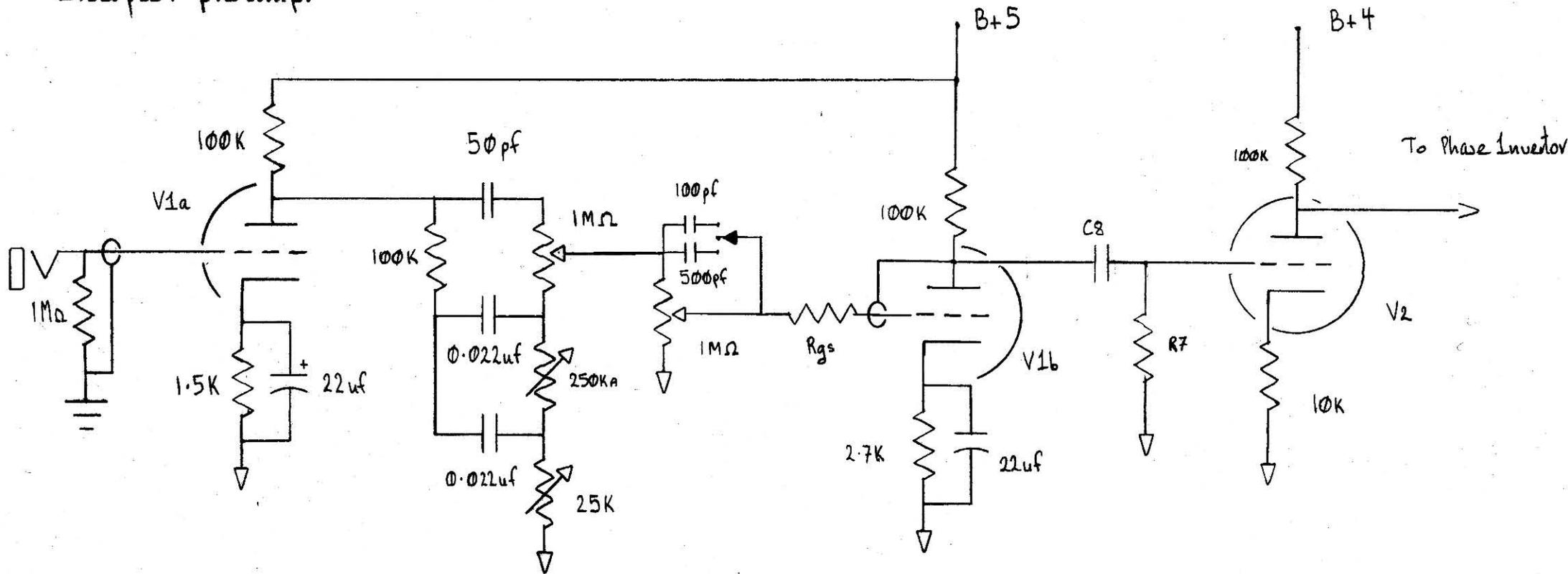


Liverpool pre amp.

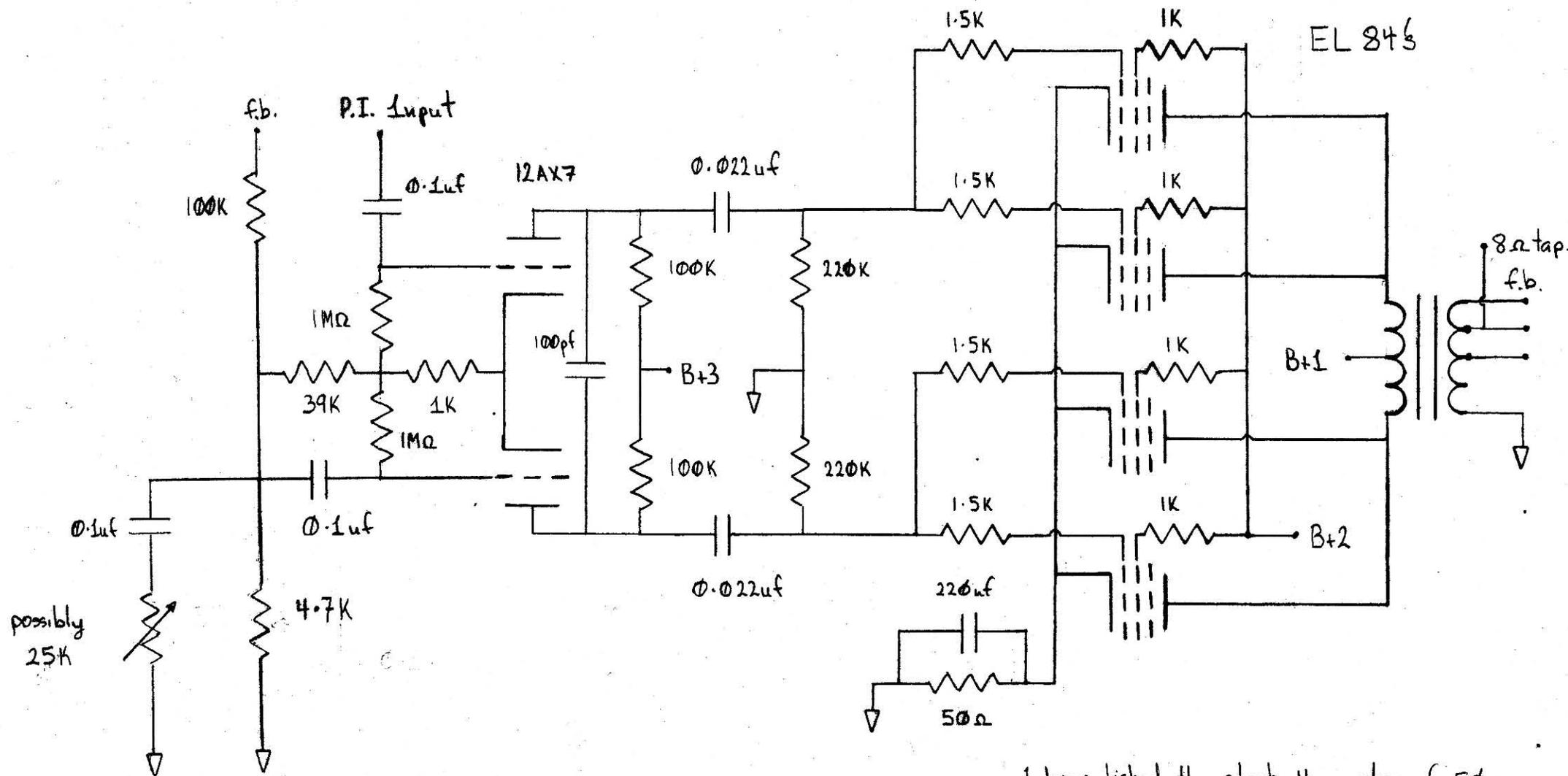


The resistor labelled R_{gs} may be omitted, its value varies from 820Ω to the example I saw which was $2.2K\Omega$. R_{ac} is mounted on the valve though the drawing implies otherwise.

R_7 & C_8 are where the response of the amp is 'tuned'. The value of C_8 may vary from $0.001\mu F$ to $0.01\mu F$. Likewise the value of R_7 may vary from $33K$ and up. The values for R_7 & C_8 I recommend are either $56K$ or $68K$ for R_7 and either $0.002\mu F$ to $0.0047\mu F$ for C_8 . I recommend the value of $68K$ for R_7 over $56K$ as the amp just had that something when using this value. I should also point out in both Liverpool amps I saw C_8 's value was made using a ceramic cap in parallel with a poly cap. I have experimented switching between a $0.001\mu F$ ceramic + $0.001\mu F$ 715 Orange Drop and a $0.0022\mu F$ 715 Orange Drop. Both caps sound the same to me.

This amp should be constructed using polyester 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.

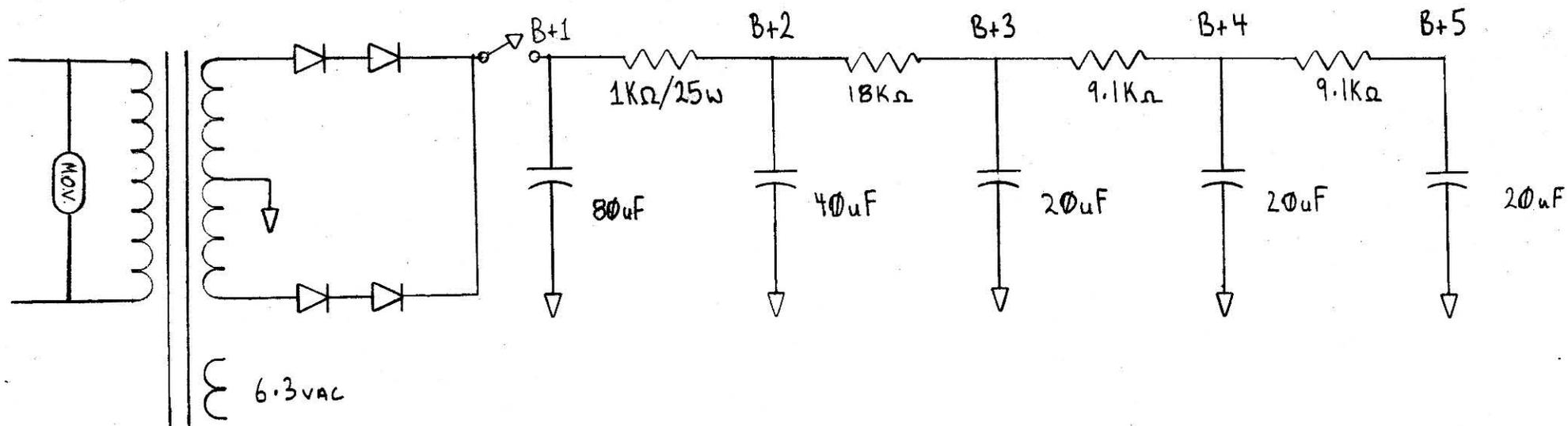
Mark Abbott July 4



I have listed the stock Vox value of 50Ω
 a value up to 75Ω would also work here.

Liverpool output stage.

Mark Abbott
 May/4



B+1 = 331vdc B+2 = 318vdc B+3 = 269vdc B+4 = 256vdc B+5 = 244vdc

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

Should an 18watt version of the Liverpool wish to be made, the value of the 1KΩ/25w resistor would have to be increased in value to 1.7K.

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 160μF, 80μF, 40μF, 40μF, & 20μF.

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 Albott July 4.