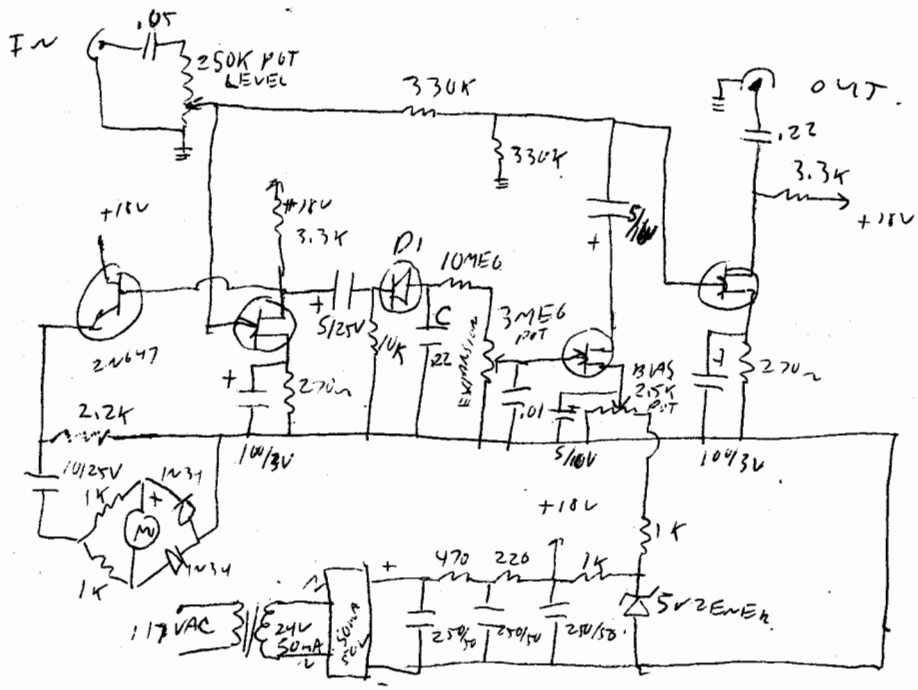
Volume Expander



FETS - MPF102's or equiv. 40468A MOSFET'S WERE ORIGINALLY USED.
D1 - Any germanium diode with at least 50M back resistance.
M1-1MA meter.
This shortened if a lower back resistance is present.

Alignment

1. - Set input at max & expansion control at minimum.
2. apply 100mV at 1KHz -
3. Observe output → this should be our maximum.
4. set Bias control for maximum output before step 3
5. a) Set Bias control for 1/10 the output in 3 for 20db expansion
   b) " " " " .03 of " " " " " 30db "
6. The bias should be ≈ 2V
7. Set expansion control at maximum.
8. This should restore our output to its original level.

If setting to 30 db expansion, hum could result, so be cautious on this

τ decay ≈ 3sec with .22uF for C
≈ 1.3sec with .1uF for C.
τ attack ≈ 2ms.