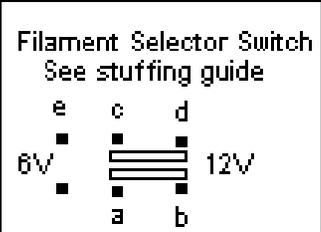
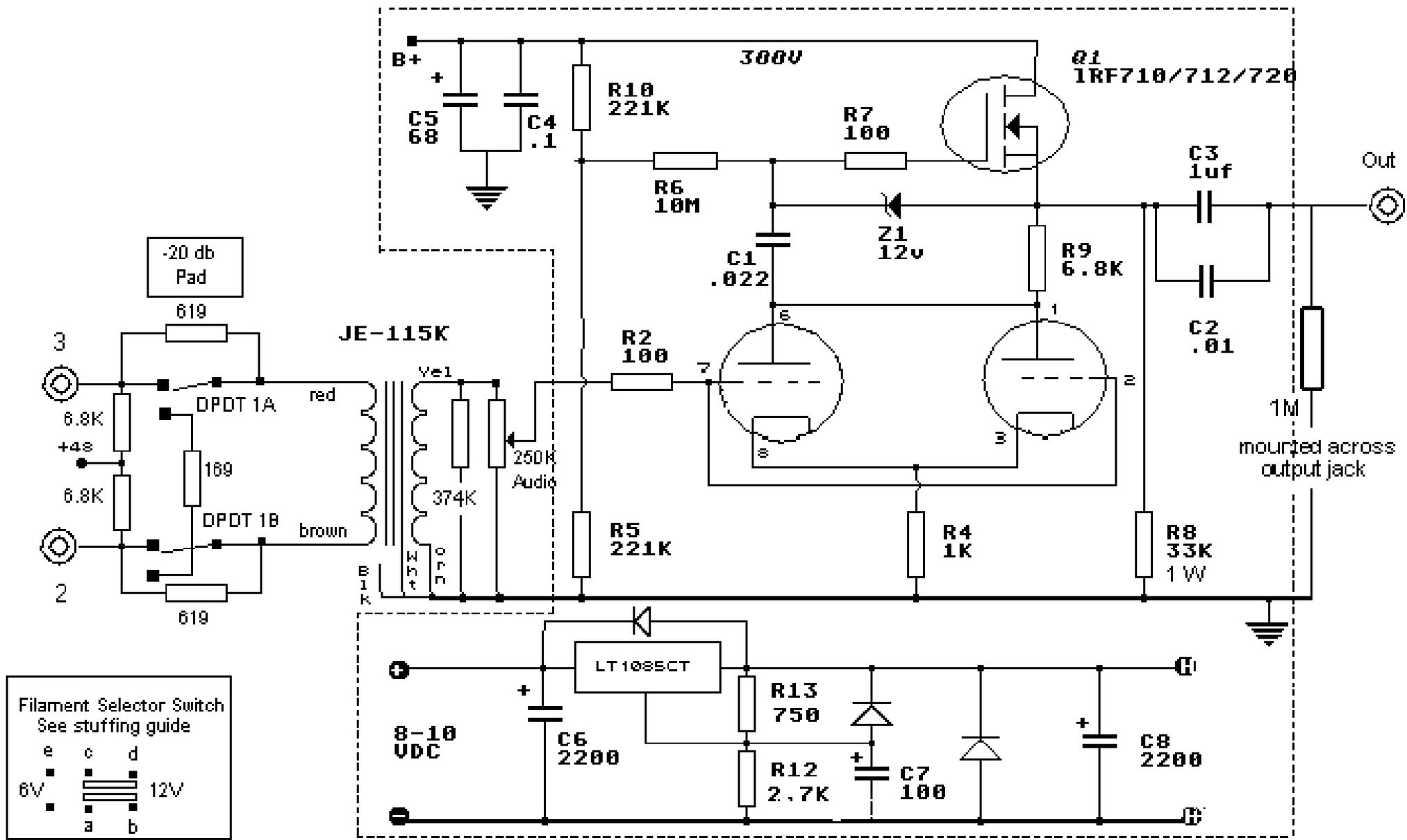


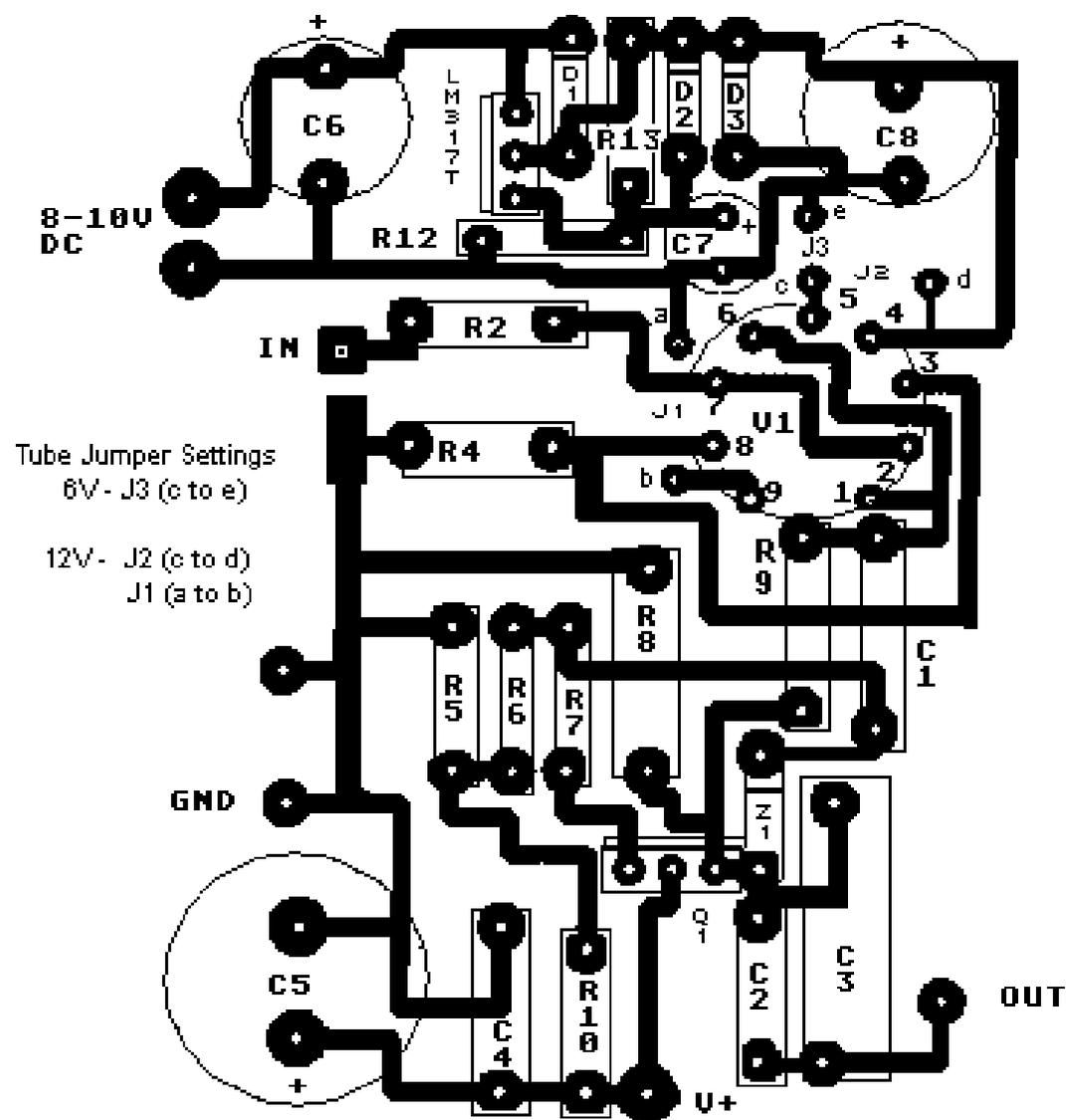
This is a schematic for a very nice sound microphone preamp based on a Jensen transformer and an [Alan Kimmel](#) designed "Mu-mode" gain stage taken from the Welborne Labs catalog. If you are going to build this mic-pre, I recommend buying the catalog for the "[Mu Stage Philosophy](#)" [article](#).



Voltage Gain = 20 (transformer) + mu of tube Output Z = 180 (measured)

[Download the printed circuit board layout](#) (a zipped tif)

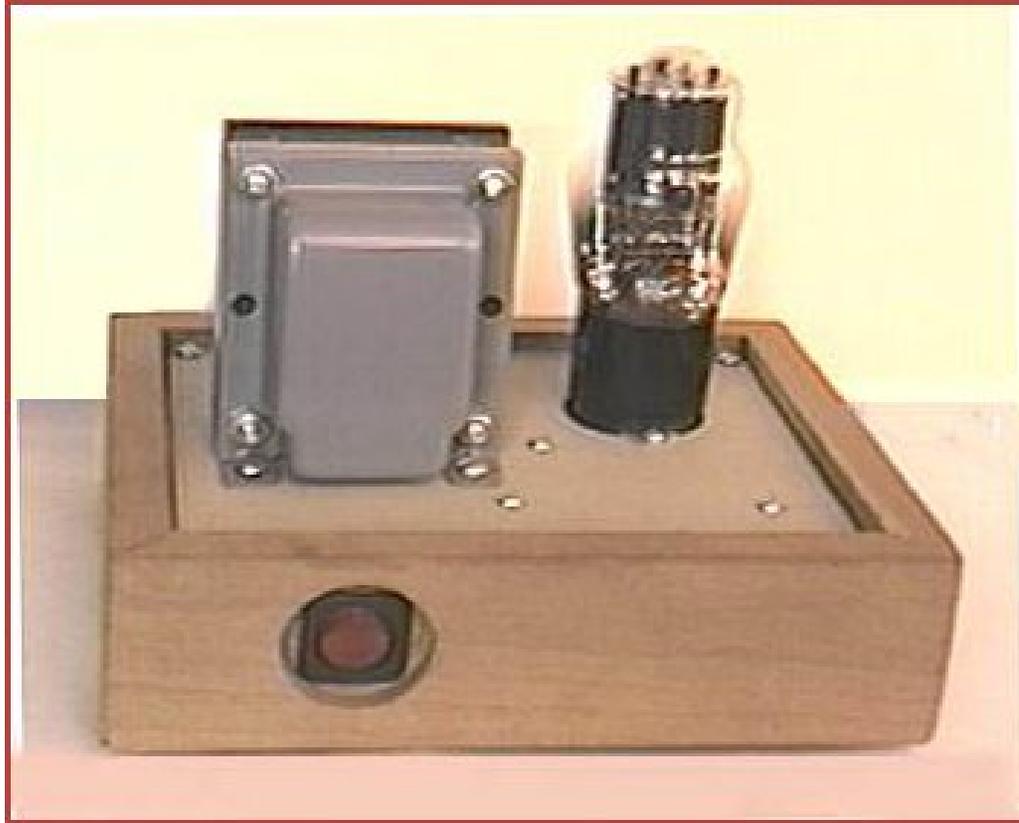
Here is the parts layout and stuffing guide. This is the Top view.



Below is a bad picture of a stereo pair built into an open-frame wooden enclosure. I like the tubes exposed because it is easy to change them. The mic transformers are inside the case along with a switch for 6 or 12 volt filaments. I have pairs of 6FQ7, 6922, 12AY7 and 12AU7s. Each of these tubes gives the preamp a different sonic signature.



Here is the separate power supply, a small transformer for phantom power is inside the case.



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