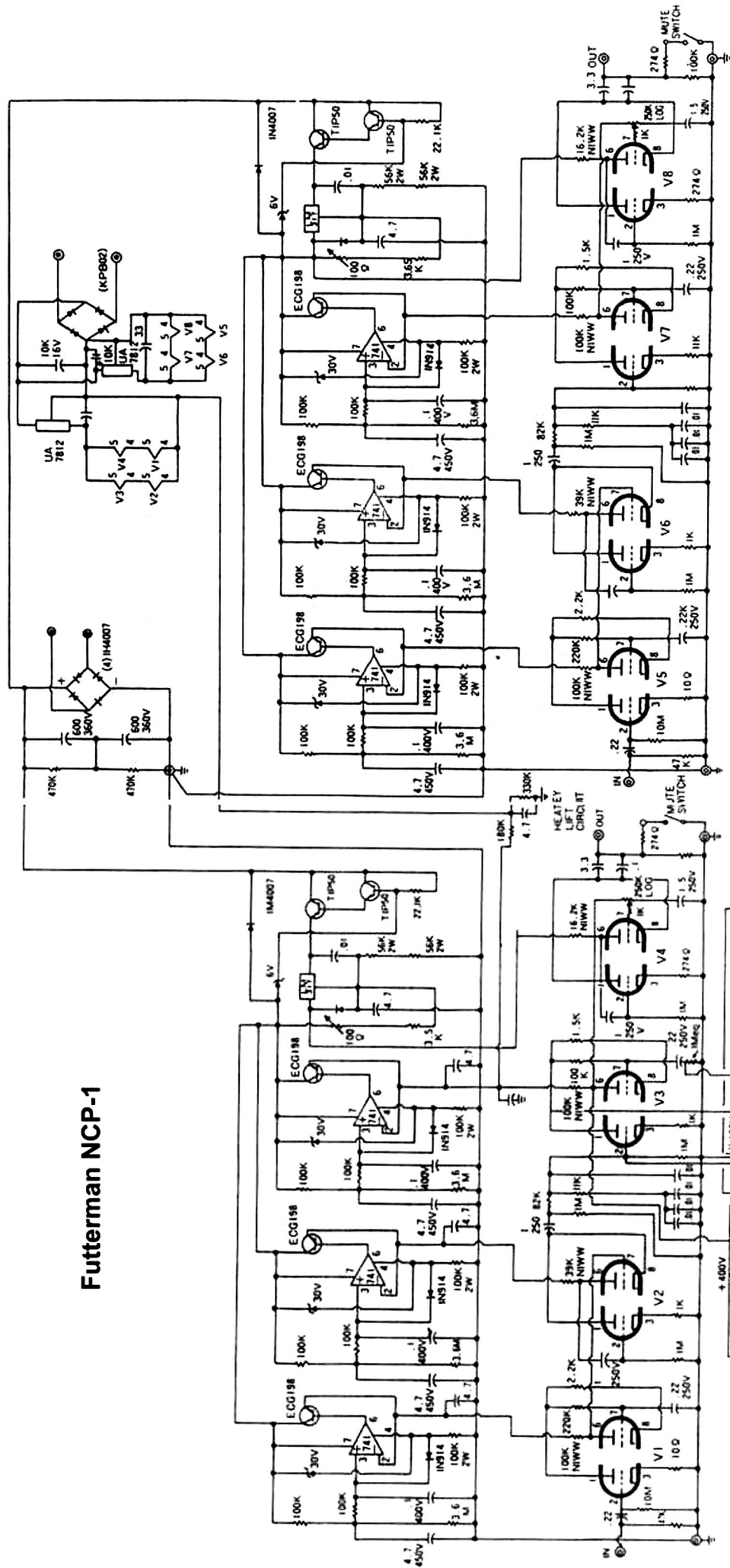


Futtermann NCP-1



PRELIMINARY DIAGRAM/NCP-1 WITH HIGH LEVEL INPUT

This novel solution allows the EXACT same circuit as our MCP-1 with the addition of a few parts. The aforementioned tube for section 1 (each channel) provides a cathode follower output for section 2. The switch selects the line inputs which are fed into only the upper half of the last cascade. The lower section of the cascade functions as the cathode load resistor which when in the line mode is bypassed with a capacitor. This gives approximately a gain of 20 in the line mode. At this same time, the second relay contact grounds out the RITA card output to minimize noise. The selector switch in the photo position turns off the relay voltage and shorts out the load resistor. This is done to prevent the relay from returning the circuit to its original cascade configuration. Also, this is the photo signal path broken.