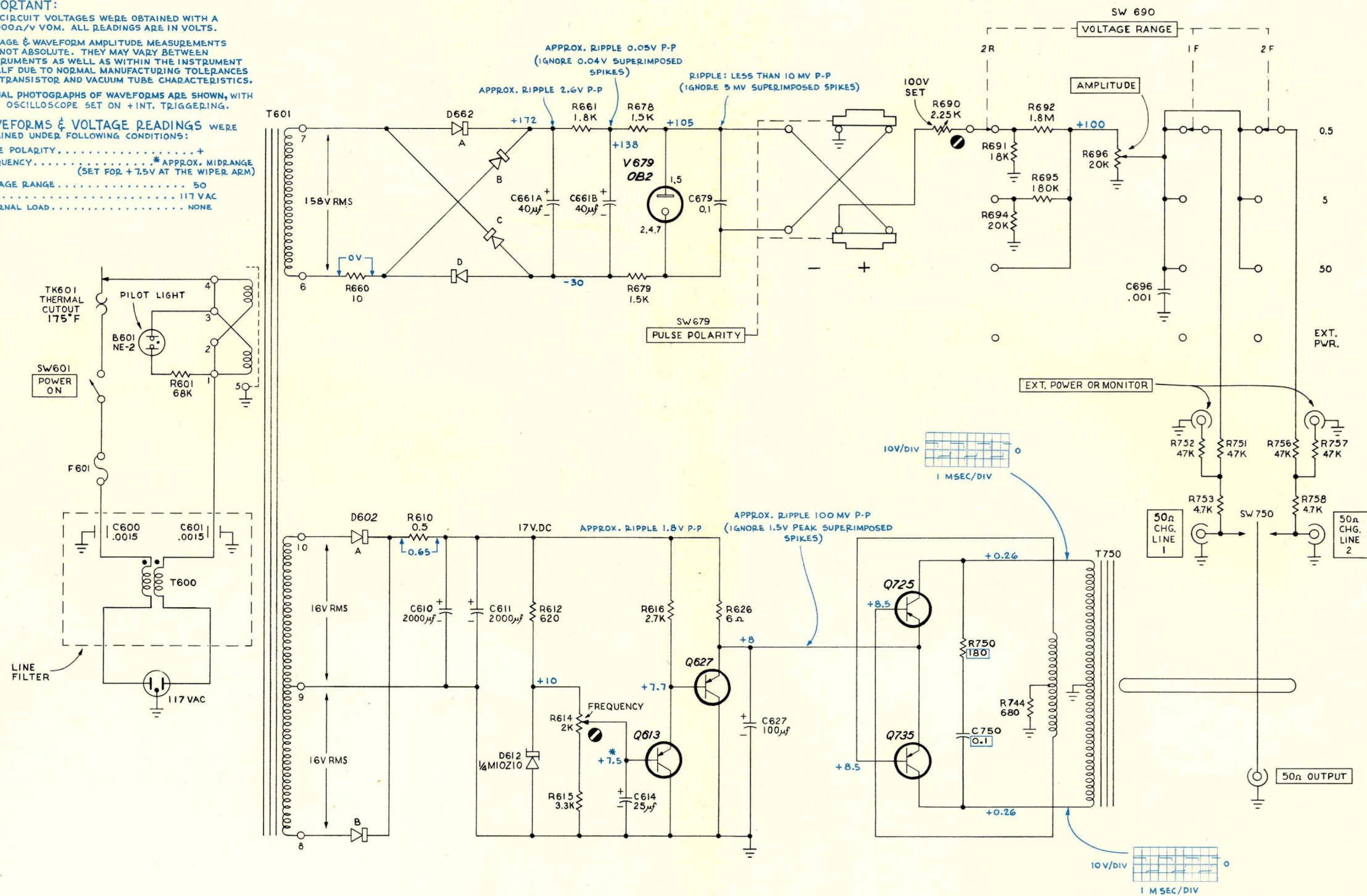


**IMPORTANT:**

ALL CIRCUIT VOLTAGES WERE OBTAINED WITH A 20,000 $\Omega$ /V VOM. ALL READINGS ARE IN VOLTS.  
 VOLTAGE & WAVEFORM AMPLITUDE MEASUREMENTS ARE NOT ABSOLUTE. THEY MAY VARY BETWEEN INSTRUMENTS AS WELL AS WITHIN THE INSTRUMENT ITSELF DUE TO NORMAL MANUFACTURING TOLERANCES AND TRANSISTOR AND VACUUM TUBE CHARACTERISTICS.  
 ACTUAL PHOTOGRAPHS OF WAVEFORMS ARE SHOWN, WITH TEST OSCILLOSCOPE SET ON +INT. TRIGGERING.

WAVEFORMS & VOLTAGE READINGS WERE OBTAINED UNDER FOLLOWING CONDITIONS:  
 PULSE POLARITY.....+  
 FREQUENCY.....\*APPROX. MIDRANGE (SET FOR +7.5V AT THE WIPER ARM)  
 VOLTAGE RANGE.....50  
 LINE.....117 VAC  
 EXTERNAL LOAD.....NONE



TYPE 109

B

SEE PARTS LIST FOR EARLIER  
 VALUES AND S/N CHANGES OF  
 PARTS MARKED WITH BLUE  
 OUTLINE

JN  
 463  
 PULSE GENERATOR