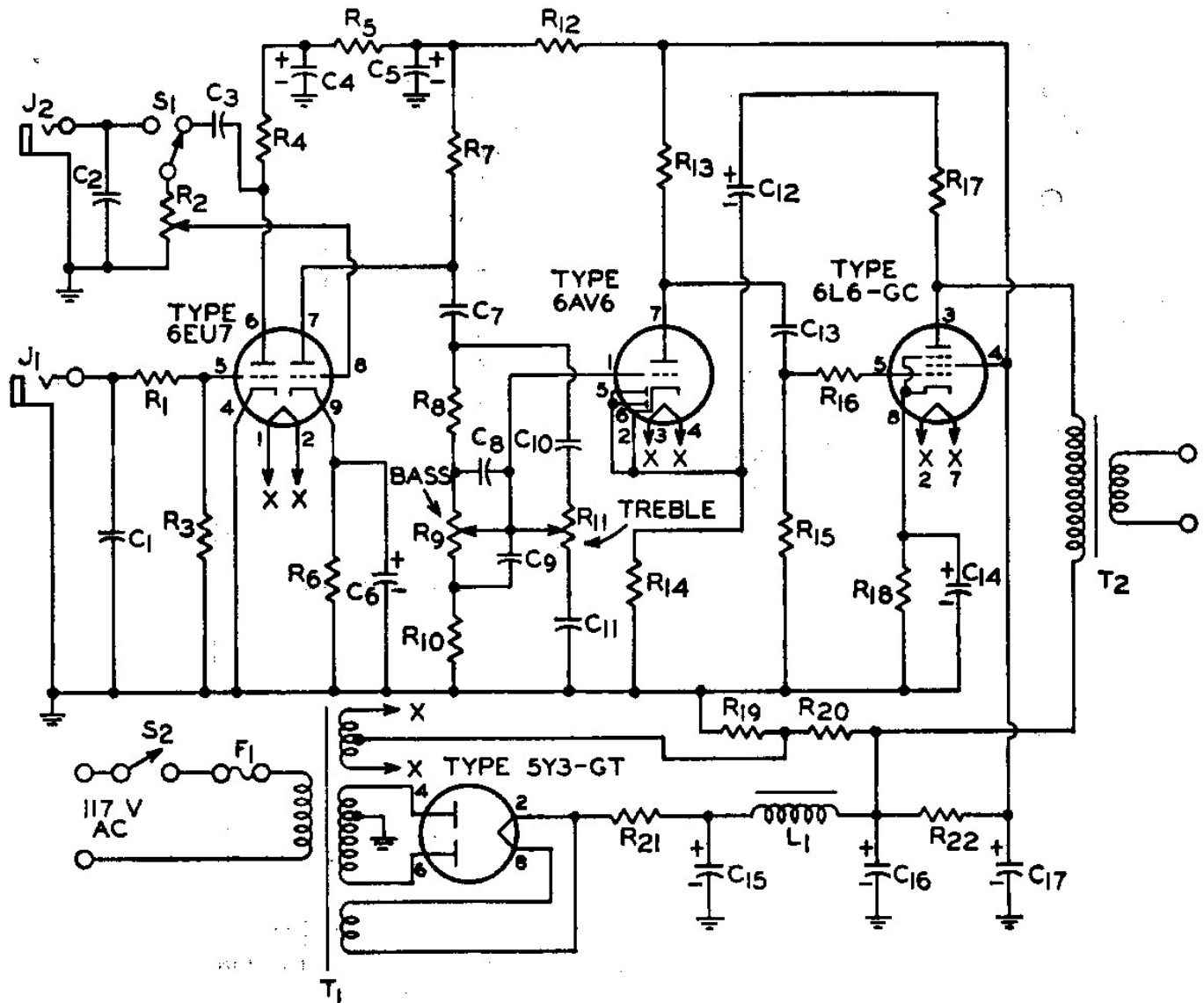


28-13 MICROPHONE AND PHONOGRAPH AMPLIFIER

Power Output, 8 Watts



Parts List

$C_1, C_2=100$ pF, disc-ceramic, 300 V
 $C_3=0.05$ μ F, paper, 200 V
 $C_4=8$ μ F, electrolytic, 450 V
 $C_5=16$ μ F, electrolytic, 450 V
 $C_6=25$ μ F, electrolytic, 450 V
 $C_7=0.1$ μ F, paper, 200 V
 $C_8=0.001$ μ F, disc-ceramic, 300 V
 $C_9=0.01$ μ F, disc-ceramic, 300 V
 $C_{10}=470$ pF, disc-ceramic, 300 V
 $C_{11}=4700$ pF, disc-ceramic, 300 V
 $C_{12}=4$ μ F, electrolytic, 450 V
 $C_{13}=0.05$ μ F, paper, 600 V
 $C_{14}=25$ μ F, electrolytic, 25 V
 $C_{15}, C_{16}, C_{17}=20$ μ F, electrolytic, 450 V
 F_1 =Fuse, 1 ampere
 J_1 =Jack for high-impedance

crystal microphone input;
 max. input: 2 millivolts
 peak
 J_2 =Jack for crystal phono-
 pickup input
 L_1 =Filter choke, 5 H,
 200 mA, United Trans-
 former Corp. R20 or equiv.
 $R_1, R_{16}=10000$ ohms, 0.5 watt
 R_2 =Volume Control, potenti-
 ometer, 1 megohm
 $R_3=2.2$ megohms, 0.5 watt
 $R_4, R_8, R_{20}=0.22$ megohm,
 0.5 watt
 $R_5=27000$ ohms, 0.5 watt
 $R_6=1200$ ohms, 0.5 watt
 $R_7, R_{13}=0.1$ megohm,
 0.5 watt
 R_9, R_{11} =Tone control, po-
 tentiometer, 0.5 megohm
 $R_{10}=22000$ ohms, 0.5 watt
 $R_{12}=12000$ ohms, 0.5 watt

$R_{14}=1800$ ohms, 0.5 watt
 $R_{15}=0.47$ megohm, 0.5 watt
 $R_{17}=0.15$ megohm, 0.5 watt
 $R_{18}=180$ ohms, 2 watts
 $R_{19}=47000$ ohms, 1 watt
 $R_{21}=50$ ohms, 10 watts
 $R_{22}=8200$ ohms, 2 watts
 S_1 =Microphone-phonograph
 selector; wafer switch;
 single-pole, double-throw
 S_2 =ON-OFF switch, single-
 pole, single-throw
 T_1 =Power transformer, 300-
 0-300 V., 90 mA.; 6.3 V.,
 3.5 A., center tapped; 5 V.,
 2 A. Thordarson 22R04 or
 equiv.
 T_2 =Output transformer for
 matching impedance of
 voice coil to 4000-ohm tube
 load; 10 watts; United
 Transformer Corp. S14 or
 equiv.