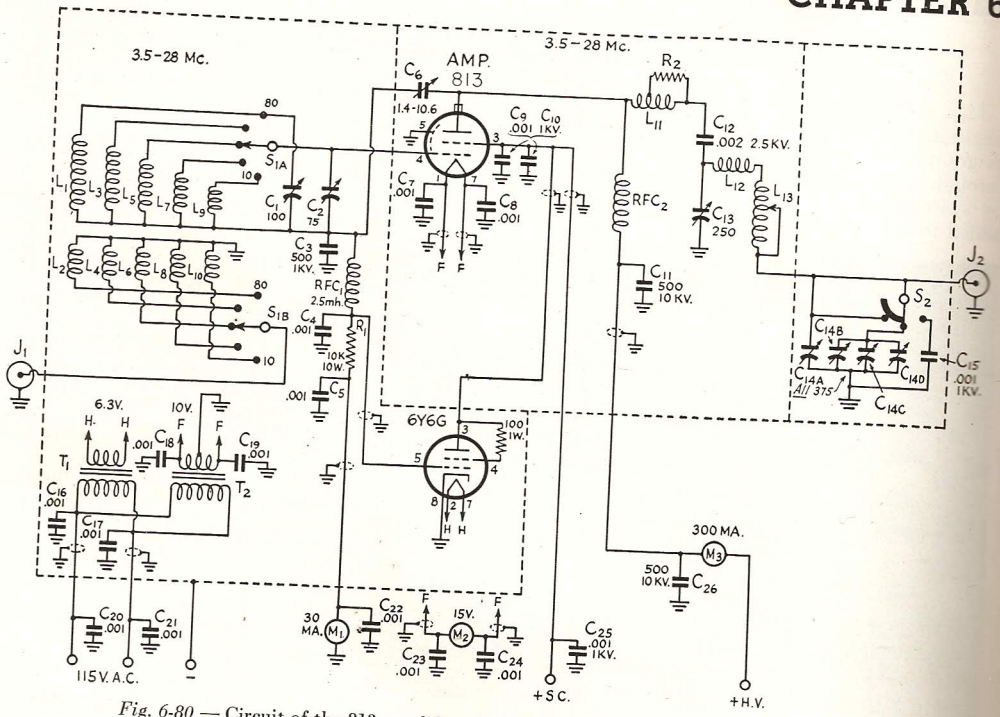

Fig. 6-80 — Circuit of the 813 amplifier. All capacitances below 0.001 μf. are in $\mu\mu$f.

C_1 — Air trimmer.
C_2 — 0.025-inch plate spacing.
C_3, C_{12}, C_{15} — Mica.
C_4, C_5, C_7, C_8, C_9, C_{10}, C_{11}, C_{16}, C_{17}, C_{18}, C_{19}, C_{20}, C_{21}, C_{22}, C_{23}, C_{24}, C_{25}, C_{26} — Ceramic.
C_6 — Neutralizing condenser (Johnson N-250, 0.25-inch spacing).
C_{13} — 0.070-inch plate spacing.
C_{14} — Four-section variable gang, 374 $\mu\mu$f. per section, 0.025-inch plate spacing.
R_2 — Five 680-ohm 1-watt carbon resistors in parallel, tapped across 3 turns of L_{11}.
L_1 — 32 turns No. 24 enam., close-wound, ¾-inch diam.
L_2 — 3 turns No. 22 hook-up wire over cold end of L_1.
L_3 — 20 turns No. 20 enam., close-wound, ¾-inch diam.
L_4 — 3 turns No. 22 hook-up wire over cold end of L_3.
L_5 — 14 turns No. 20 enam., close-wound, ⅝-inch diam.
L_6 — 2 turns No. 22 hook-up wire over cold end of L_5.
L_7 — 10 turns No. 18 enam., ⅝-inch long, ⅝-inch diam.
L_8 — 2 turns No. 22 hook-up wire over cold end of L_7.
L_9 — 8 turns No. 18 enam., ⅝ inch long, ⅝-inch diam.
L_{10} — 2 turns No. 22 hook-up wire over cold end of L_9.
L_{11} — Parasitic suppressor — 5½ turns No. 14, ¼-inch diam.
L_{12} — 3 turns No. 10, ¾ inch long, ¾-inch diam.
L_{13} — Variable inductor from BC-375 (25μh. max.).[4]
J_1, J_2 — Coax connector.
M_1, M_3 — D.c. milliammeter, 2-inch.
M_2 — A.c. voltmeter, 2-inch.
RFC_1 — 125 ma.
RFC_2 — National R-175A.
S_1 — 2-circuit 5-position ceramic rotary switch (Centralab RR wafer).
S_2 — 3-position progressively-shorting ceramic rotary switch (Centralab P1S wafer).
T_1 — Filament transformer: 6.3 volts, 1.2 amp.
T_2 — Filament transformer: 10 volts, 5 amp.

[4] The B & W type 3852 rotary coil (15 μh.) has sufficient inductance to be used as a substitute, although it requires somewhat more space.

The bottom, top and rear are closed with