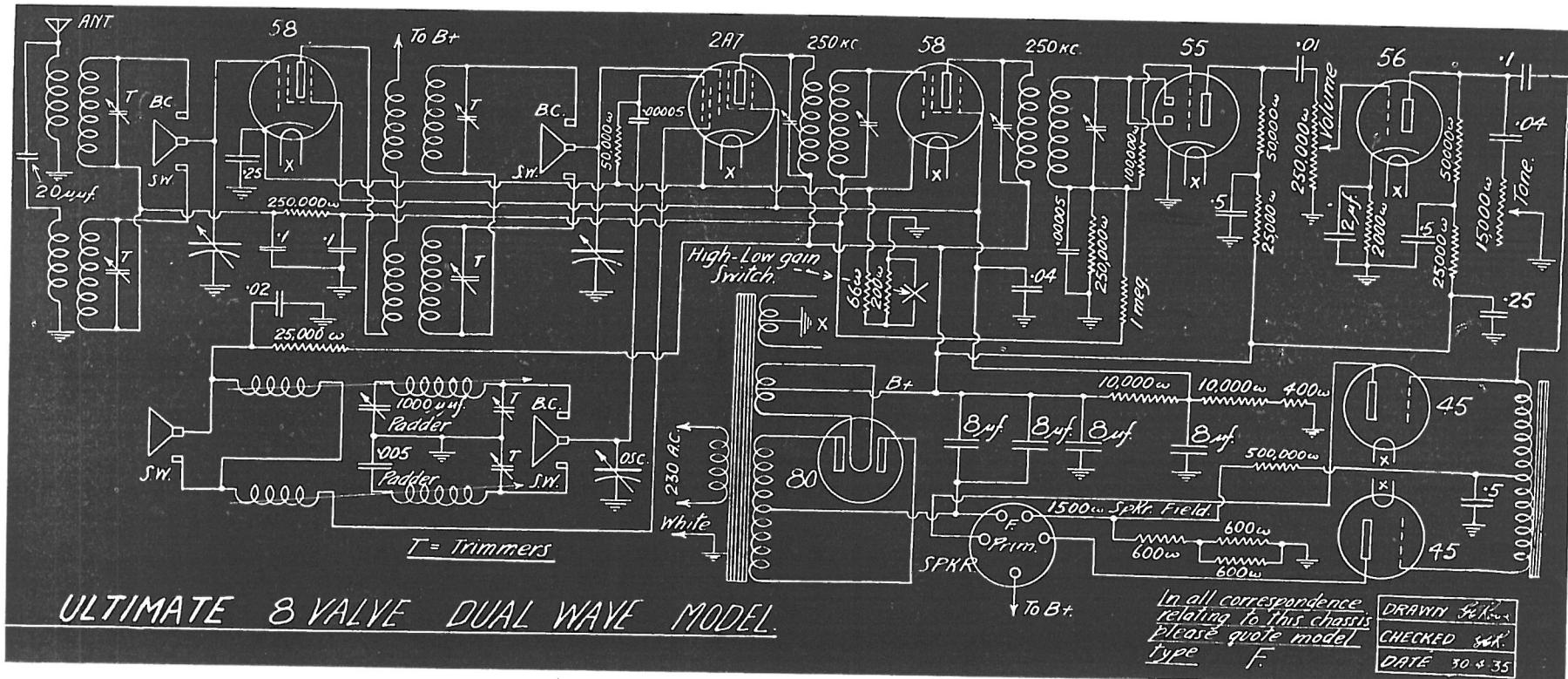


# "Ultimate" A.C. Operated Dual Wave Console Model "F" (1935)



Ultimate model "F" is an eight-valve receiver designed for dual-wave coverage and operation from 200-250 v. A.C. supply. The receiver is of the console type and is fitted with five controls, these being for volume, tuning, wave-change, tone (continuous), and sensitivity (2-position "high-low gain" switch). The loudspeaker employed is a heavy-duty unit with a field-coil resistance of 1,500 ohms.

The design of this receiver is fairly straightforward and should present no particular difficulty in servicing. Attention should be paid to the absence of primary switching on the aerial and R.F. coils; the diode-biased 55 triode section; the centre-tapped choke method of phase-inversion for excitation of the push-pull 45's; and the elaborate filtering and decoupling employed throughout. Attention should also be paid

to the fact that the 45's are "back-biased" from the voltage drop across the network of three 600 ohms resistors (total effective resistance, 900 ohms) seen at the lower right-hand side of the diagram.

"Ultimate" receivers are manufactured by Radio Ltd., in Auckland, New Zealand, and are distributed in Australia by Geo. Brown & Co. Pty. Ltd., of Clarence Street, Sydney, N.S.W.