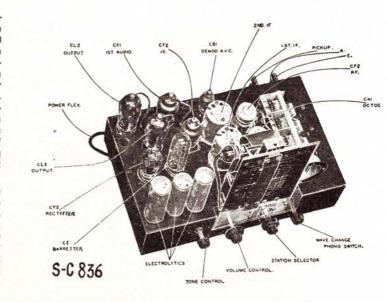
tested to AS/NZS 3760 by a qualified person

"Stromberg-Carlson" A.C./D.C. Dual-Wave Model 836

TROMBERG-Carlson Model 836 is an eight-valve receiver designed for dual-wave coverage and operation from A.C. or D.C. mains with potentials between 160 and 260 volts; regulation for the mains voltage variation being provided automatically by means of an iron-hydrogen barretter, type C1. This model is housed in a console type cabinet and employs an 8-inch diameter loudspeaker with a field coil resistance of 1,000 ohms. Four controls are fitted; these being for tone (continuous), volume, tuning (two-speed), and wave-change (with third position for gramo, switching). The dial is of the vertical straightline type and is illuminated by means of a 240 v., 15 w., bayonet base pilot lamp. A visual tuning indicator of the meter type (marked as "M" in the circuit diagram) is incorporated in the dial assembly.

Features of the "836" circuit arrangement are the use of a push-pull pentode output system in which out-of-phase excitation for one valve is obtained by means of a voltage divider network in the plate circuit of the other, and the use of a built-in line filter. Points to watch are the isolation of the aerial, earth and pick-up terminals by means of condensers, and the provision of a cabinet back with a two-pin isolating plug and socket. It is essential that the latter be replaced after servicing operations, otherwise the user runs the risk of severe shock.

A number of the components in this receiver are mounted on a panel under the chassis and, as these components may be difficult to identify, the following key to the terminal lugs and corresponding components is given:-1-0.01 mfd., 2,000 v. test; 2—0.01mfd., 2,000 v. test; 3—0.02 mfd.; 4—0.001 mfd. A 100,000 ohms resistor is mounted between 3B and 4A; 5—100,000 ohms; 6—25 mfd., 25 v. electro; 7-3,000 ohms; 8-blank; 9-0.1 mfd.; 10—0.1 mfd.; 11—20,000 ohms; 0.1 mtd.; 10—0.1 mtd., 11—20,000 ohms; 13—0.02 mfd. A 100,000 ohms resistor is mounted between 12A and 13B; 14—8,000 ohms; 15—500,000 ohms; 16—0.1 mfd.; 17— 20,000 ohms.



OPERATING VOLTAGES.

The following measurements made between chassis and the socket contact indicated with a "1,000 ohms per volt" meter. The receiver was operated on 240 v. A.C., and tuned to a point where no signal was receivable.

CF2, R.F. Amplifier. Plate, 225 v.; screen, 85 v.; cathode, 3 v.

CK1, Frequency Converter. Plate, 225 v.; screen, 85 v.; cathode, 3 v.; oscillator anode, 100 v.

CF2, 392 K.C. I.F. Amplifier. Plate, 225 v.; screen, 85 v.; cathode, 2.5 v.

CB1, Duo-Diode Detector and A.V.C Rectifier. Cathode is tied to cathode o CF2 I.F. amplifier, 2.5 v.

CF1, Audio Amplifier. Plate voltag is not accurately measurable with norma

voltmeter, will show indication of abou 25 v.; screen, 100 v.; cathode, 3 v. CL2, Push-pull Output Pentodes Plates, each, 220 v.; screens, each, 11 v.; cathodes, each, 20 v.

CY2, Indirectly-heated Half-wave Recti fier. Cathode to chassis (input to filter)

NOTE: All of the above voltages will be somewhat lower when the receive is being operated from D.C. mains.

