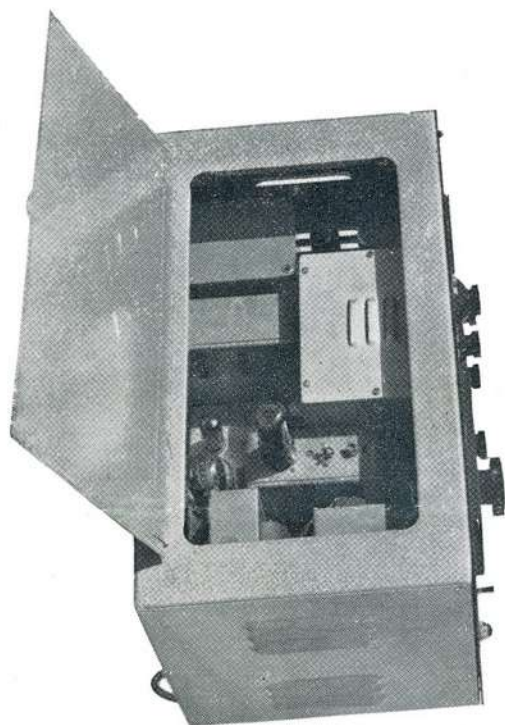




# THE PANDA "CUB" TRANSMITTER



**THE PANDA "CUB"** is a V.F.O. controlled bandswitched gang-tuned transmitter, rated at approx. 25 watts input on 'phone and approx. 40 watts input on C.W. It covers the 160, 80, 40, 20, 15 and 10 metre bands.

The "CUB" is entirely self-contained having a built-in modulator and power supplies.

The V.F.O. is the standard pattern "PANDA" which utilizes an electron coupled Clapp circuit covering 1.75—2 mcs. Each V.F.O. is individually temperature compensated and has stabilised plate and screen voltages. The dial is frequency calibrated on all bands. The exciter utilizes an ECC81 and a 5763 in doubler tripler service. The doubler circuits are gang-tuned and driven from the same drive as the V.F.O. All the coils and switching are enclosed in a neat screened unit.

The P.A. uses an 807 with a pi-network tank circuit which is designed to give maximum harmonic attenuation and high efficiency when matched into the correct load impedance (72 ohms). This impedance permits the use of co-axial cable to a dipole or an antenna tuning unit, such as the A.T.U. 150. Should still further harmonic reduction be desirable an L.P. Filter may be inserted in the co-axial line. Plate current is indicated on the panel mounted meter. The whole of the P.A. is enclosed in a screened ventilated compartment with removable lid.

A SINGLE CONTROL enables the exciter and P.A. to be switched in one operation. Provision is made for reducing the H.T. on the 160 metre band.

The speech amplifier and modulator consists of three triodes in cascade followed by a triode phase splitter driving a pair of 6V6's. The input is for a crystal microphone.

The power unit comprises a generously rated mains transformer supplying heaters and H.T. to all stages. Paper insulated condensers are used in the smoothing circuit. Input is for 200-230-250V. operation, but other voltages are available if desired. The mains power lead is adequately filtered.

The "CW-receive-phone" switch closes a pair of contacts (which are accessible at the rear) in the two "transmit" positions which may be utilised to operate an external relay circuit.

R.F. tube line up : EF50 VFO-, ECC81 and 5763 doubler/tripler-807.

Speech line up : 6SL7 in cascade to a 6SN7 to a pair of 6V6's.

Power supply : 5U4 rectifier and a VR150/30 for VFO regulator.

Finish : All chassis work cadmium plated. Cabinet hard gloss duo-tone "hammer" silver grey.

Dimensions : 19" x 11" x 10½".

Shipping weight : 95 lbs.

*Printed in England by Edwards & Bryning Ltd.*

# PANDA RADIO