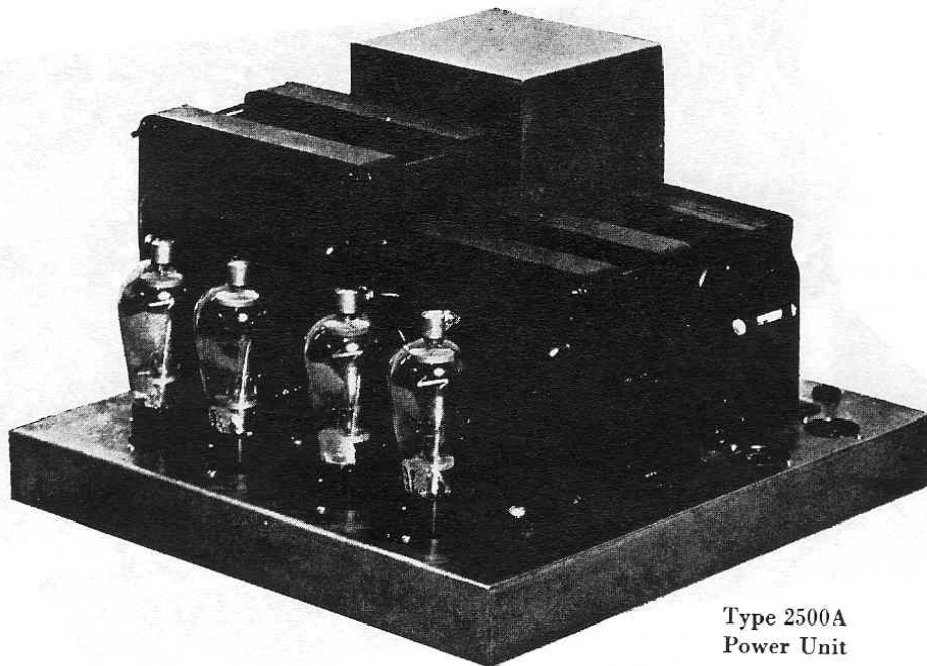


Collins Transmitters

Sheet 4

Bulletin 200



Type 2500A
Power Unit

TYPE 500BX POWER SUPPLY

The 500 BX Power Supply is designed as a companion to the 10A Crystal Control Unit. It is very rugged and is ideal for a transmitter of this type. An important feature is its good voltage regulation. A separate rectifier system is provided to supply power to the crystal oscillator so that constant frequency is maintained when the transmitter is keyed.

Tubes Employed — The 500BX Unit employs one 280, one 245, and two 566 (or '71) rectifier tubes.

Power Output — The 500BX Unit delivers the following voltages:

	<i>Voltage</i>	<i>Current</i>
Buffer and Output Amplifier	500 V. D.C.	150 M.A.
Crystal Oscillator	300 V. D.C.	50 M.A.
Keying Bias	-300 V. D.C.	5 M.A.
Filament Supply	7.5 V. A.C.	2.5 A.
Filament Supply	2.5 V. A.C.	8 A.

Source of Power — 110-115 V. 60 cycle A.C. Pro-

vision for other voltages and frequencies on special order.

Choke input is employed so that good regulation is obtained and the peak current through the rectifiers is within the rated value. Voltage to the crystal oscillator remains constant when the buffer or output tubes are keyed.

Chassis — White nicked steel, 10" x 17 $\frac{1}{8}$ " x 7 $\frac{3}{4}$ " high, suitable for relay rack mounting. Cable connections are made to dual plug-in sockets.

Price — Less tubes.....\$35.00

(The 500BX Power Supply replaces types 500AX and 600AX.)