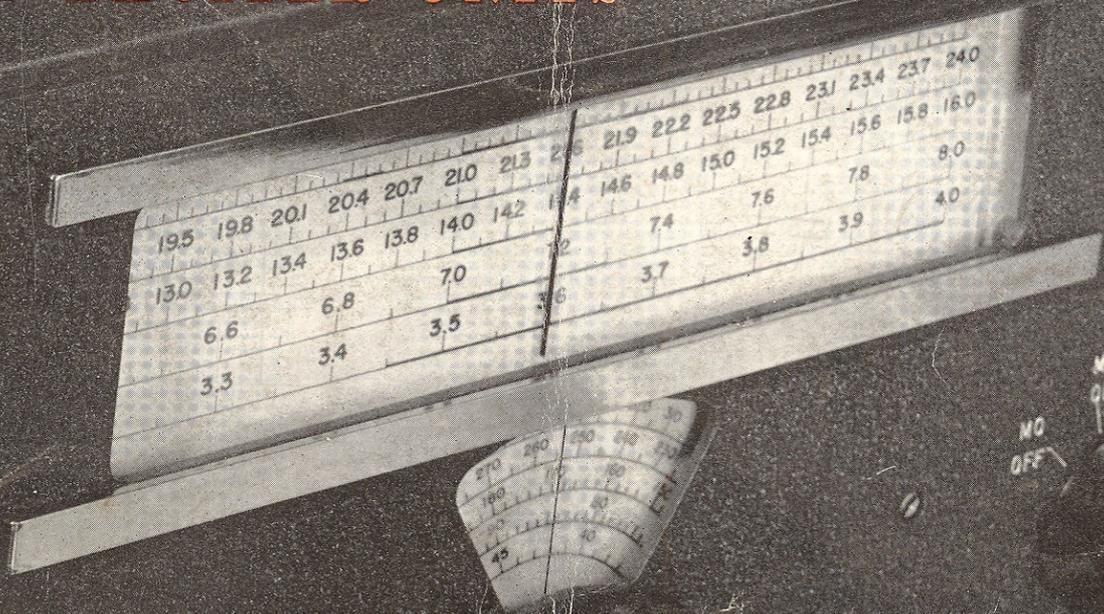


# COLLINS

## R-F EXCITER UNITS



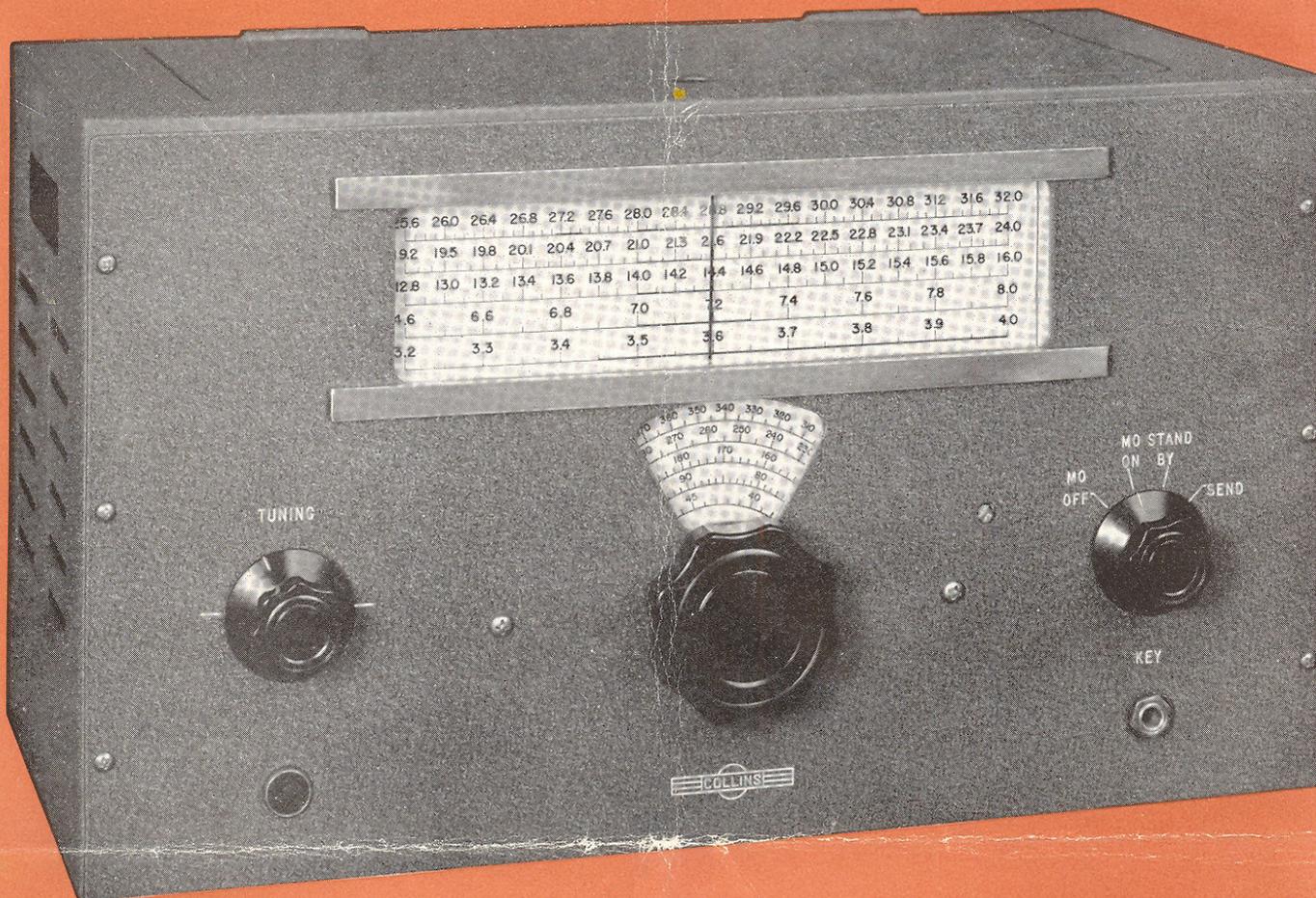
NO OFF  
NO STAND ON BY  
SEND

TUNING



Precise Frequency Control  
For Amateur Transmitters





310C-1 and 310C-2

## THE 310C-1

### ADDS VERSATILITY TO YOUR RIG

The 310C-1 exciter is a straightforward unit consisting of a 70E-8A PTO and a multiplier, with an r-f output of approximately 80 volts rms across 40,000 ohms. Its output frequency range is from 3.2 mc to 4.0 mc. The output of the 310C-1 can be plugged into the crystal socket, or applied to the grid of an 807 buffer stage, thus giving your present rig a versatility far greater than a large number of crystals could afford. At the same time you keep crystal accuracy and stability.

### CIRCUIT

A Collins 70E-8A PTO is followed by a 6AG7 multiplier. A key jack is inserted in the 6AG7 cathode circuit. Two voltage regulator tubes, a VR105 and a VR150, are supplied to insure good keying characteristics. The r-f output is capacitively coupled to a coaxial lead and can be fed directly to the grid of a tube.

### CONTROLS

In addition to the PTO dial there are two controls, one of which is the 6AG7 PLATE TUNING. The other is a function switch with the following positions: M.O. OFF, M.O. ON, STANDBY, SEND.

### CALIBRATION CHECKS

See the paragraph "Calibration" in the description of the 310C-2.

**DIMENSIONS:** 15 $\frac{3}{16}$ " w, 8 $\frac{3}{8}$ " d, 8 $\frac{3}{4}$ " h.

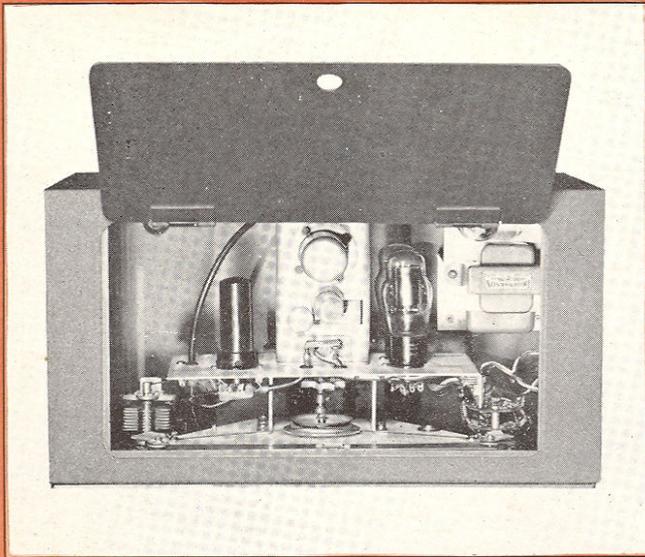
**POWER REQUIREMENT:** 6.3 v. a-c @ 1.0 amp;  
300 v. d-c @ 40 ma.

**WEIGHT:** 14 pounds net.

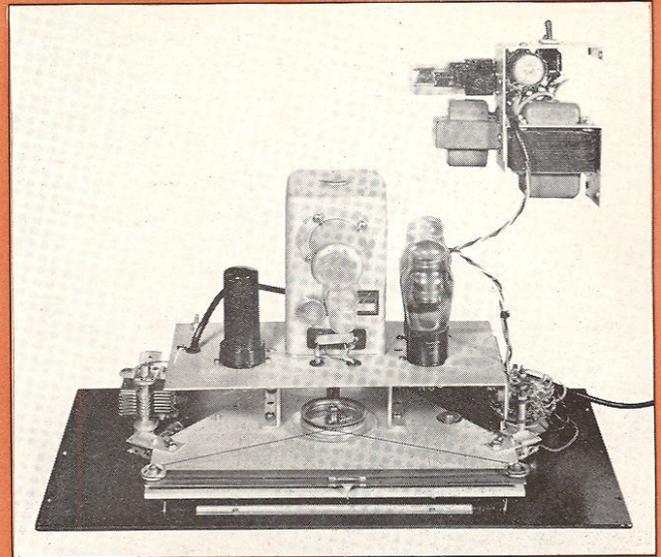
**NET PRICE** to amateurs, complete with tubes and instruction book, F.O.B. Cedar Rapids, Iowa:

310C-1 Exciter, without power supply-----\$85.00

Exclusive of any state or local taxes.

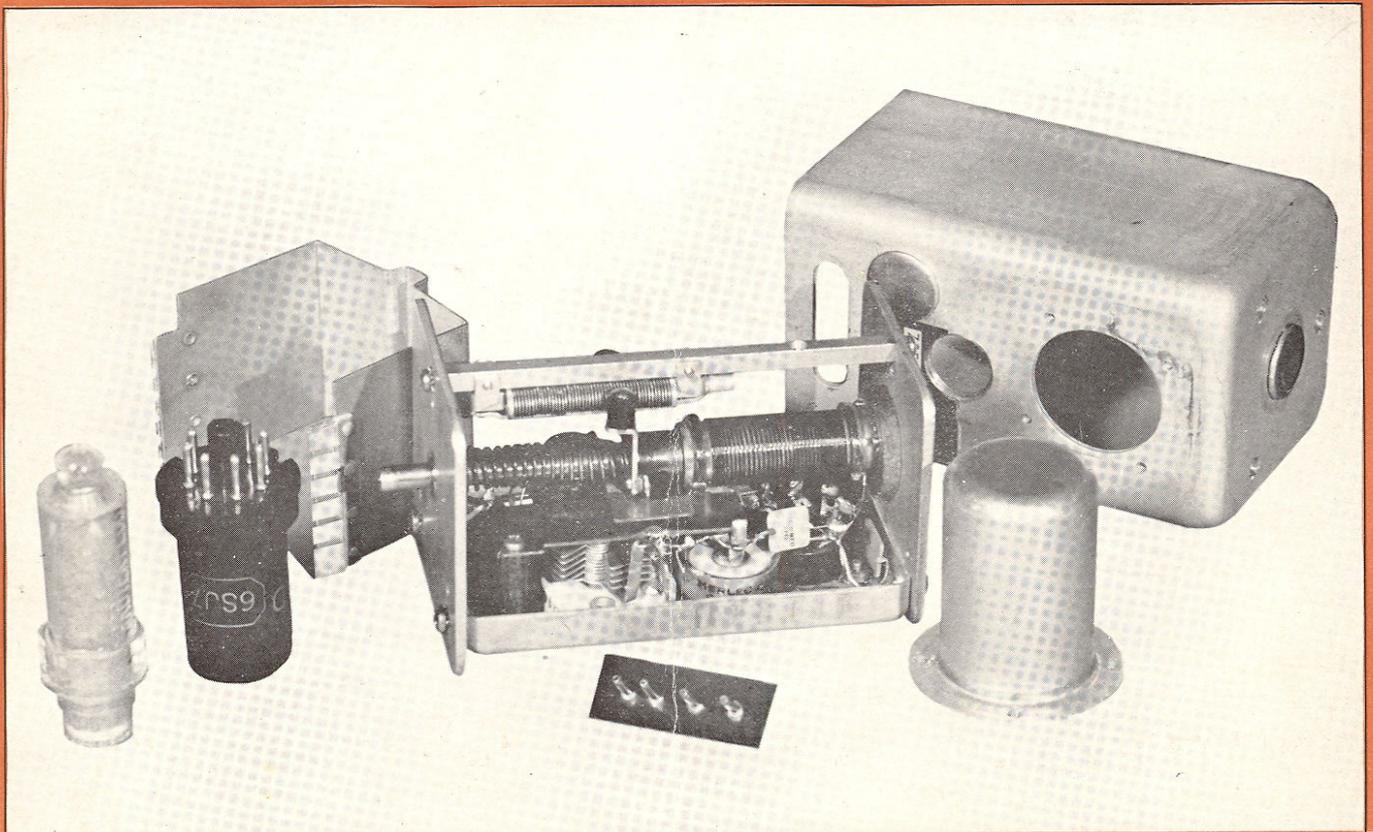


310C-2



310C-2

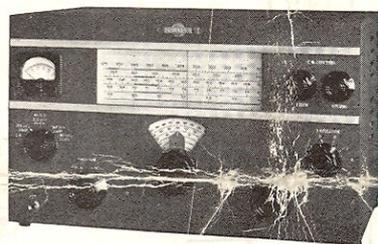
*Exploded view of 70E-8A PTO used in all Collins Exciter Units shown in this bulletin. To assure operation free from humidity effects this oscillator is baked until thoroughly dry, then completely sealed and moisture proofed. As an added protection against leakage, a silica gel capsule is factory inserted.*



# Other Collins Amateur Radio Equipment



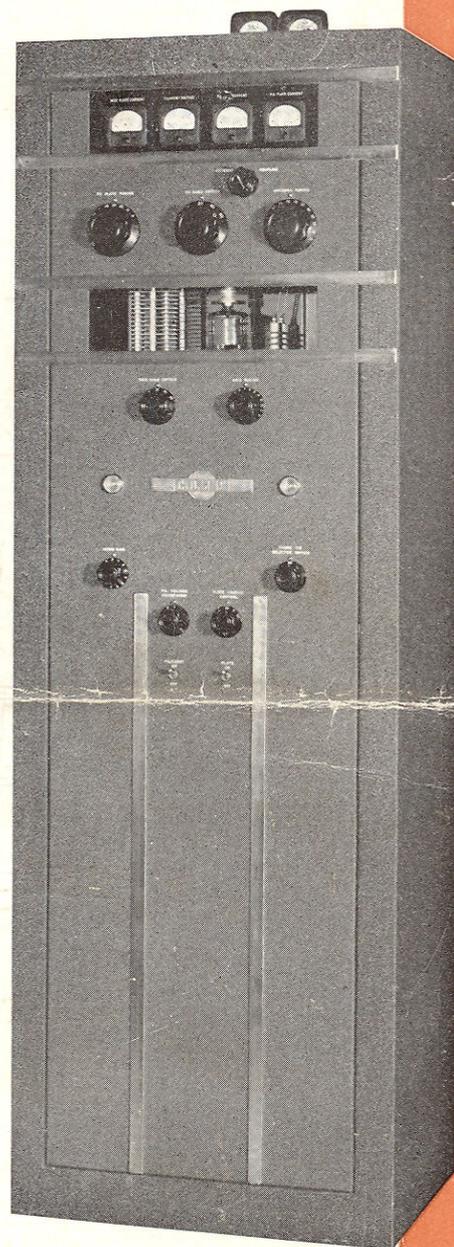
75A-1 RECEIVER



310A EXCITER  
Used with the 30K-1 Transmitter



32V-1 TRANSMITTER



30K-1 TRANSMITTER

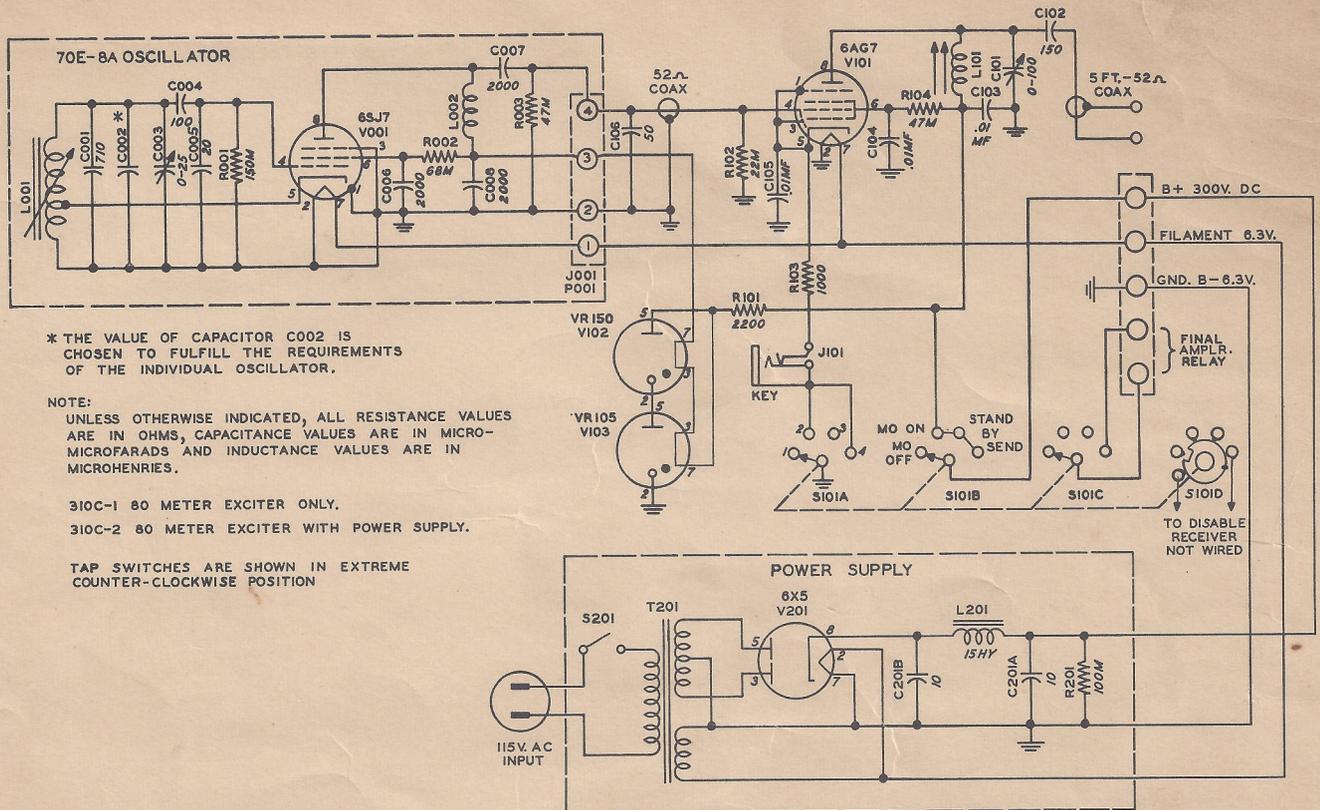
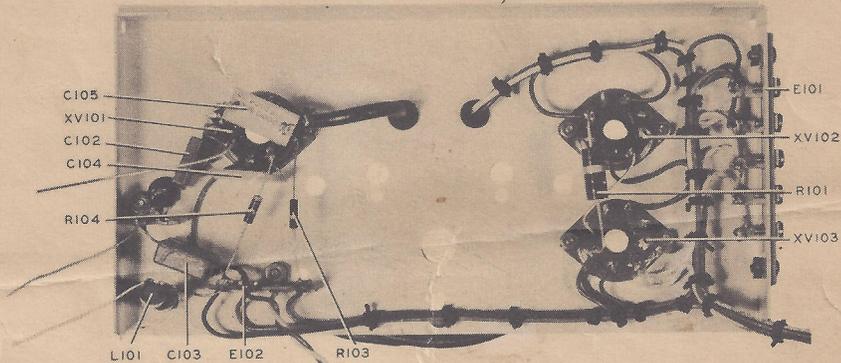
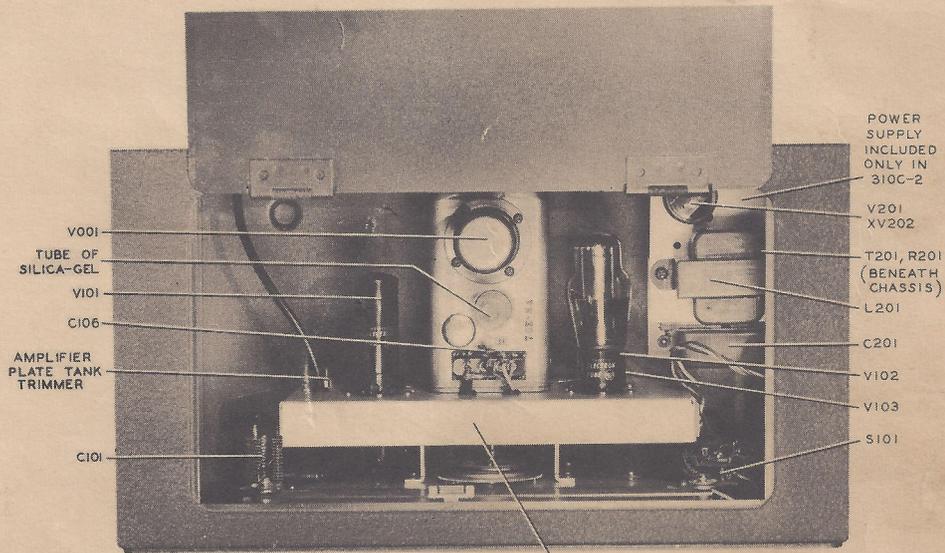
FOR RESULTS IN AMATEUR RADIO, IT'S . . .



**COLLINS RADIO COMPANY, Cedar Rapids, Iowa**

11 West 42nd Street  
New York 18, N. Y.

458 South Spring Street  
Los Angeles 13, California



310C Exciter