

THE COLLINS 310A-3 EXCITER UNIT



The 310A-3 exciter unit for the 30K-4 has a Collins 30K-4A PTO, and an r-f output of 10 watts. All circuits are ganged together and controlled by a single tuning knob. The slide rule dial gives a rough indication of operating frequency, while the counter dial provides a direct reading in kilocycles. Both accuracy and stability are very high. The PTO operates in the 160 meter band. The output tube in the exciter is an 887 which is used as a doubler on all bands except 80 meters.

One control handle switches all circuits simultaneously. The 30K-4 covers the 80, 40, 20, 15, 11, and 10 meter bands. The mode/voice switch has four positions—CW, Calibrate, Receive, and Send. In the Calibrate position, the exciter can be tuned to zero beat with a received signal without tuning on the transmitter. This switch has extra positions which can be used to operate a transmitter relay and disable a receiver in the Send position.

A vacuum modulator is controlled at the front panel for pitch and volume. Grid block keying is provided. A keying filter eliminates key clicks. When the key is removed from the jack, the circuit is auto-

atically closed for phase operation. The exciter output is controlled at the front panel and is fed through a 15 ohm coaxial transmission line to a matching circuit associated with the grid coil in the transmitter.

The multi-range panel-mounted meter has a 5 position switch, and indicates the low voltage supply, and the grid and plate currents in the two 887 multiplier stages.

- Tube Lineup:**
- 1—6X5 PTO
 - 1—6AG5 buffer amplifier
 - 1—6AG5 doubler
 - 1—887 multiplier
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 - 1—6BE6GT r-f vibrator oscillator
 - 2—VR100 voltage regulators
 - 2—VR100 voltage regulators

Dimensions: 17 1/2" w, 10 1/2" h, 11 1/2" d.

Power Source: 30K-4 power supply.

Net price of 30K-3, complete with 310A-3 Exciter, Tubes, Microphone Cord, R. F. Cable, Power Cable, and Instruction Book.....\$1,650.00

SEE US IN AMATEUR RADIO, IRE . . .

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