



The BCT-4 transmitter externally looks much like the single-channel Babcock BCT-2; it is the same size and is housed in a similar gray hammertone-finished case. All parts are attached to the front panel, which is removable for access to the batteries. Tuning (which should be seldom) is through a front panel hole; a lamp bulb indicates proper operation and aids tuning. Major external difference is that the new unit has a little control stick projecting from panel; marked Up, Down, Left, Right, and Motor.

Transmitter is crystal controlled for use on 27 $\frac{1}{4}$ mc. Three audio tones, 300, 720, and 1620 cycles, are non-adjustable, since the audio oscillator circuit is also controlled by tuned filters set at the factory; filters are sealed in a metal case.

The transmitter is supplied with crystal, tubes and whip antenna, less batts.

Transmitter: Type BCT-4. Case size, less panel projections—4 $\frac{3}{4}$ " x 3 $\frac{1}{2}$ " x 8" high. On-off toggle switch for batteries. "Control stick" for sending any of three audio tones at will. Radiation indicator bulb allows continuous check of operation. Single-section 3/32" dia. rod antenna projects from top of case about 35"; plug-in type. All batteries held under single mounting clamp, except C batt., which fits in its own clips.

Battery Requirements: One 15 V. C battery (Eveready #411 or equiv.); indefinite life, as there is no drain on it. Two 67 $\frac{1}{2}$ V. batteries (Eveready #467 or equiv.), 135 V., at 16 $\frac{1}{2}$ ma. (carrier only), and 20 ma. with control stick depressed. "A" supply is two large flashlight cells; 1.5 V. at 350 ma.

Receiver: Type BCR-4. Overall size including mounting flanges—6" long x 2 $\frac{7}{8}$ " wide x 3" high. Weight 17 $\frac{1}{2}$ oz., with all tubes and relays. Relays are SPDT, sealed, plug-in. Single adjustment only—for tuning. Non-sensitive to antenna length, hard-capacity, etc. High sensitivity, but will not overload close to transmitter. Responds only to three audio tones of associated transmitter. Only one type tube used throughout.

Battery Complement: Lightest recommended battery supply, 10 $\frac{1}{2}$ oz. (including cells for servo and escapements, and battery boxes). "A" battery drain is 1.5 V. at 350 ma. "B" battery drain is 1.8 ma. idle and 7 ma. on signal, with 60 V. "C" battery for 60 V. use is 15. V., with no current drain. Lightest set of batteries consists of 8 pence cells, two 30 V. batteries in series (Burgess U20E or equiv.) and one "C" battery (Eveready 504E or equiv.).

