



PHILMORE

■ Kit equipment intended for use on Citizen's Radio control frequency of 27.255 mc; F.C.C. blank for station license is included with kit. Transmitter is housed in gray hammertone finished case, with folding handle on top. Antenna held by two ceramic insulators on front panel. Circuit is similar to that of 1952 A.T. Annual transmitter, but a 13,627.5 crystal is utilized. Antenna coupling is fixed, and rather light; antenna is usual quarter-wave style. The single transmitter adjustment is very broad. As with most harmonic crystal oscillator circuits, it is possible to obtain output at higher than crystal frequency, when the tuning condenser is set at minimum; it is wise to follow instruction sheet recommendation to have frequency checked before putting transmitter into use.

There is plenty of room in the case for all batteries, and also room for a meter on the front panel, in case, you wish to add one. All necessary holes are drilled in case and panel, as well as in tube bracket.

The key jack is of the closed circuit type; the unit will put out a signal with the key plug out of the jack, and the filament switch on. A O-50 ma. meter may be plugged into the jack to measure plate current.

The kit contains everything needed to finish the transmitter; you even get shaped wood blocks to hold the batteries in position. The antenna is a chrome-plated job that looks like an extra-long auto type. Parts are included for 5 ft. key cable.

The receiver is a standard gas tube unit, with Kurman relay attached to the chassis. Latter comes ready-drilled, is of 1/16" thick linen Bakelite. Tube is inserted in miniature socket, and held to chassis with rubber band. Circuit is intended for use with either RK61 or XFG-1 tubes.

Besides parts for receiver itself, kit includes toggle switch for A circuit, a miniature metal-cased rheostat, and a phono jack and two plugs (one for meter, one for shorting jack).

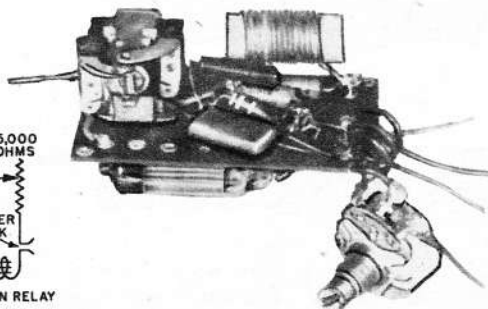
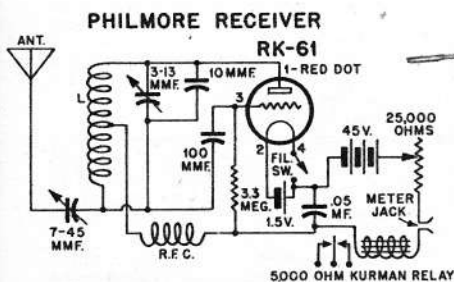
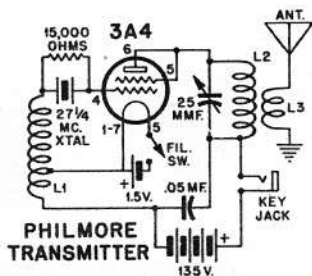
Wiring is made easy and neat, since chassis comes fitted with ten metal grommets that are used for interconnection, and for battery leads.

Separate instruction folders for each unit comprise four pages, with written general data, step-by-step assembly, and information on adjustment and operation. The receiver sheet includes several paragraphs on relay adjustment. There are also circuit diagrams, mounting drawings with actual wiring indicated, and in the case of the receiver, a drawing of connections to receiver accessories and escapement circuit.

For those who require it, Philmore has available the rugged Super-Aerotrol escapement (Philmore part No. RCEU). There is a separate instruction sheet for the escapement, and another sheet carrying general information on R/C operation. If the kit builder has trouble getting his units to work properly, they may be returned to the Philmore Service Dept. for inspection and repair, provided units are constructed according to instructions. A charge of \$3.00 is made for this service, plus cost of any new parts that may be required.

Specifications

Receiver #RC222R. Overall size about 2 7/8" x 1 3/8" x 1 1/8" high. Weight with tube and built-in relay—2 1/4 oz. On-off switch and rheostat add (Continued on page 71)



Philmore

(Continued from page 57)

another oz. Kit with tube, relay, \$26.50.

Batteries: A—Two pencells (or larger) $1\frac{1}{2}$ V. at 50 ma. B—Two $22\frac{1}{2}$ V. units. Lightest recommended total— $3\frac{1}{2}$ oz. Idling current—1.6 ma.; with signal, about .1 ma.

Adjustments: tuning condenser, antenna condenser. Plate series rheostat and meter jack mounted on model. On-off switch. Relay adjusted by bending parts.

Transmitter #RC222T. Size 5" x 6" x 9" high. Antenna is 4-section collapsible type 9'10" long ($3\frac{1}{2}'$ long folded). Weight with batteries and ant.— $11\frac{1}{2}$ lb. Kit with tube, crystal, key button & lead, case, \$33.50.

Batteries: A—one $1\frac{1}{2}$ V. at 200 ma. (Burgess 4F or equiv.) and three 45 V. at 20 ma. (Burgess M30 or equiv.).

Controls: On-off filament switch, key jack on panel; latter also used to plug in test meter. Plate tank variable condenser shaft, & lock nut, panel screwdriver slot.