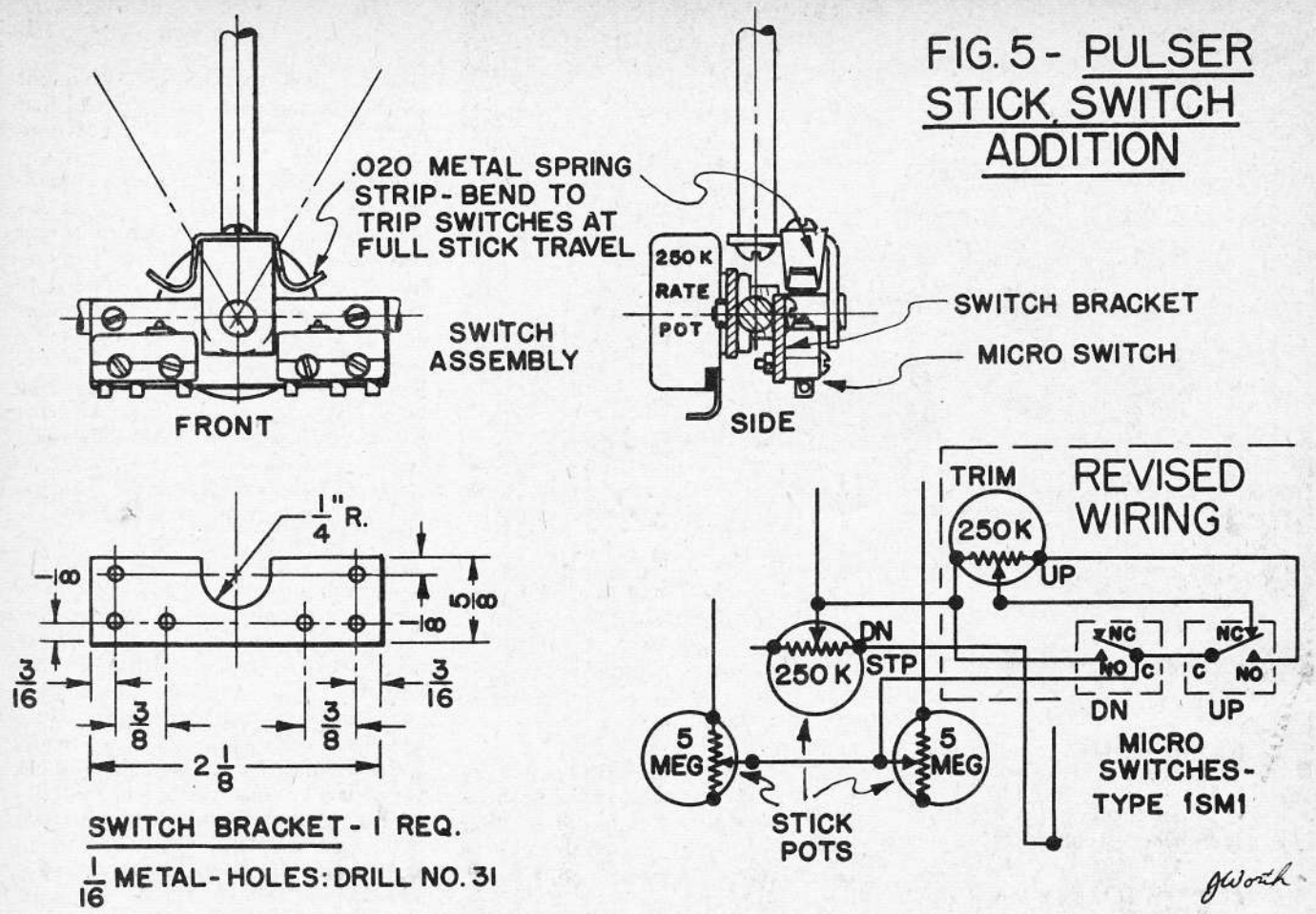
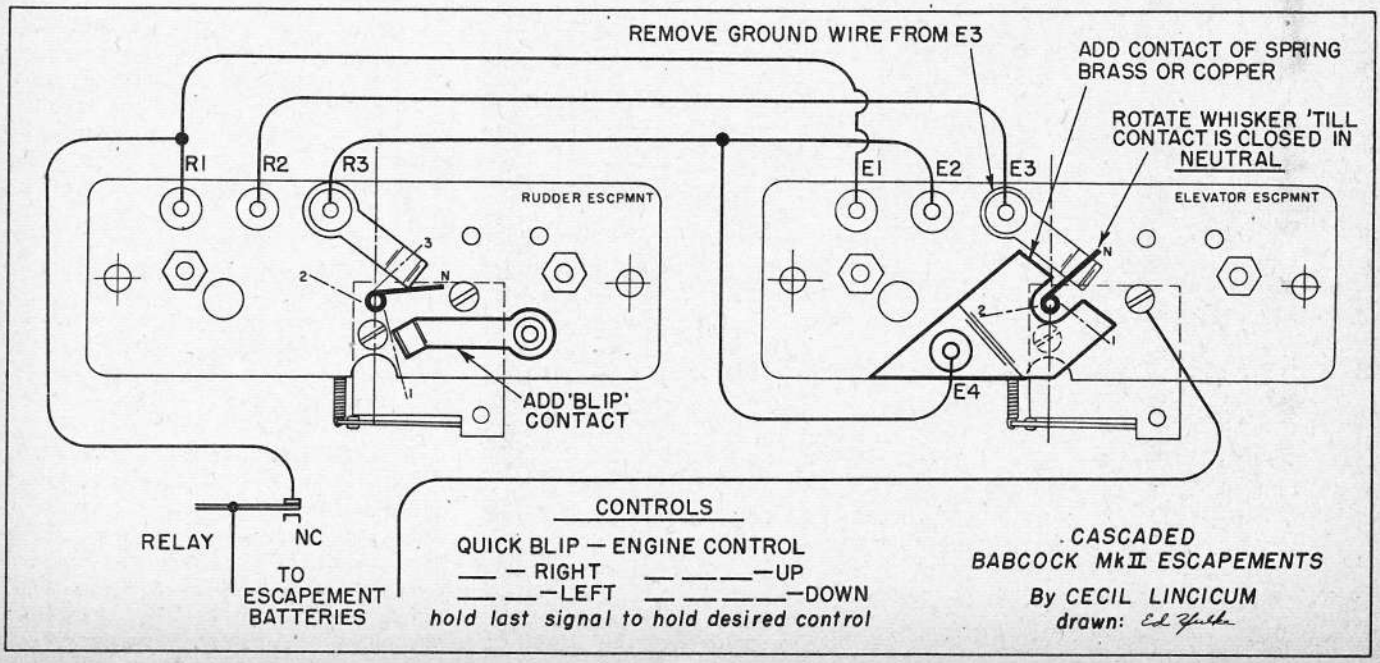



More on Simpl-Simul: Received too late for third-part insertion, copy at end of RC News, supplements the September issue article.

# Cascaded Babcocks

**by C. L. LINCICUM**

This cascade hook-up uses Babcock MK II escapements in a Live Wire Champion. Rudder escapement rebuilt as per June, 1956 MAN. Elevator escapement has a new contact, (E4). Ground wire from (E3) to ground, removed. Wiper wire on the elevator escapement now serves as a rotary switch. The wiper wire is rebent—in neutral, it contacts contact (E3). Current goes directly into frame of elevator escapement through wire to terminal E3, from E3 to R2 energizing rudder escapement for left or right. On third pulse, wiper wire on the rudder escapement contacts R3 which energizes elevator escapement. As elevator escapement revolves, the wiper wire switches to E4 from E3. Shuts off current to rudder escapement until elevator escapement returns neutral, E3, E4 not grounded frame.



## ADVERTISING INDEX—OCT., 1958



model will sell for $2.50 or less.

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The first all transistorized receiver in kit form, now marketed by ACE, model TR-4.5, is said to have a temperature range from 15 to 130 degrees and ground range in excess of 3,000 feet. One prototype model measured ⅝" x 1½" x 1⅞" with the weight being between 1½ and 1¾ ounces. The CG Voltabloc cells are ideal for this receiver, which draws 10 ma on idle, 2 to 3ma upon receipt of a carrier, and jumps to 40ma upon receipt of a 400-500 cps tone.

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With the success of the Simpl-Simul system, as presented in MAN by John Worth, many builders will be trying this in the near future. Ace has a kit for the pulser (July '58, MAN) for $21.95. All brackets and case are punched, components are matched and top quality parts are used throughout.

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ESSCO, 58 Walker Street, NYC, carries the sub-miniature SSO-7 transformer used in the Pearce and Page receivers. Price is $2.50. The popular Pearce receiver, in kit form, sells for $19.95 for the deluxe kit containing all parts (transistors and transformer) except the reed bank and relays. Complete kit, with reed bank and five relays is $36.95. The ESSCO THT receiver, which idles at .25ma, may be had with a B & S converter so that total battery complement is but three pencells, and sells for $34.95. This is built-up, factory tested. The Day modulator, with control unit, may be had in kit form for $24.95.

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If you are short of lung power and long on cash, or want to dress up the next contest or public relations session, you will be interested in a 1,000-foot range, pistol-grip megaphone which is powered with but four size 'D' flashlight cells; 12½" long, it weighs 4½ pounds and has excellent directivity. Selling for $39.50, it may be obtained from Argonne Electronics Mfg. Corp., 165-11 South Road, Jamaica, 33, N.Y.

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**SIMPL/SIMUL—**
Addition to September article to follow the paragraph subtitled: Control limitations.

This compromise can be eliminated by a pulser modification which is recommended for greater control stick effectiveness. This is detailed by Fig. 5 (Page 25, this issue); showing a pair of micro switches which are operated by full fore-aft stick travel. These are standard subminiature micro switches available through most radio supply houses. They mount first to the switch bracket, then the switch assembly is mounted to the 5 meg. pot shafts by the same screws which hold the coupling bracket. Purpose of the switches is to either add all of the trim pot resistance with full back stick, or to cut out all trim pot resistance with full forward stick. Therefore, full up and down elevator control is available regardless of trim pot setting. Without the switches, adjustment of the trim pot toward one rate extreme robbed the stick of some opposite rate control. With the switches, the trim knob still is effective during all stick travel except the very ends of travel. This modification has proved to be a great aid to aerobatic flying and probably will be found to be desirable sooner or later.

*Increasing elevator control*—substitution of a different rate control pot for the specified standard 250k unit can obtain greater elevator control—this is the 60 degree 100k pot available from Ace R/C, Higginsville, Mo.—by providing a much greater rate change for the normal amount of stick travel. With this . . .