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(6 & 2 Portable from page 36)

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luck. K8KDX/6

PARTS LIST

- C—Dual section 10 mmfd variable (see text)
- C2—20-20-20-20 mfd 450 V electrolytic
- C3—1-10 mmfd plastic trimmer, Centralab 829-10
- C4—7-35 mmfd ceramic trimmer, Centralab 820-c
- C5—2.3-14.2 mmfd variable, Hammarlund 160-107
- RFC-1, 2, 3, 5, 6,—1.5 uh, J. W. Miller 4604
- RFC-5—10 uh, J. W. Miller 4612
- RFC-7—2.4 uh, J. W. Miller 4606
- RFC-8, 9—75 uh, J. W. Miller 4631 or equiv.
- K1, K2—3PDT 6VDC relay, Potter Brumfield KM-14D (see text)
- T1—Power transformer 500V C.T. at 70 ma 6.3V at 3 amp. (see text)
- T2—Audio output transformer 2K primary to 4 ohm secondary, Stancor A3876
- S1—4PDT lever type switch, Mallory 6242
- S2—AC line switch rotary type
- P1—Jones P-3E0-AB
- J1—Jones S-310-CCT
- MA—0-1 ma DC 2 inch meter
- *TAL—3rd. Overtone, International Crystal FA-5
- D1, D2, D3—Silicon rectifiers, LaFayette SP-241
- L1-L4, L6-L9— $\frac{3}{8}$ ceramic coil form, J. W. Miller 4400

*Note—These crystals are calibrated to operate at anti-resonance and will be from 1 kc to 2 kc low in frequency when operated series resonance in this circuit.

COIL TABLE

- L1— $3\frac{1}{2}$ turns No. 20 bare, on $\frac{3}{8}$ ceramic S.T. form
- L2— $3\frac{1}{2}$ turns No. 20 bare, on $\frac{3}{8}$ ceramic S.T. form (slug removed)
- L3—4 turns No. 24 E. on $\frac{3}{8}$ ceramic S.T. form
- L4—4 turns No. 18 bare on $\frac{3}{8}$ ceramic S.T. form
- L5—6 turns No. 18 bare, air core wound $\frac{3}{8}$ dia. $\frac{3}{4}$ long. Tap at 1 turn
- L6—6 turns No. 24 E. on $\frac{3}{8}$ ceramic S.T. form with 2 turn link
- L7—8 turns No. 24 E. on $\frac{3}{8}$ ceramic S.T. form
- L8—5 turns No. 24 E. on $\frac{3}{8}$ ceramic S.T. form
- L9—6 turns No. 24 E. on $\frac{3}{8}$ ceramic S.T. form with 2 turn link

Mode Switch

for the

Eico 720 and 730

James Demler W4DSU

THE EICO 720 transmitter and 730 modulator make a fine transmitting combination, but there is unfortunately no built-in provision for rapid switching from CW to AM. Here is a simple modification requiring only a 2PDT toggle switch and some wire (lamp cord is fine) that will enable you to incorporate a CW-AM switch in the 720-730 pair. It is assumed that the 730's B† is controlled by an external relay as this makes for good one switch

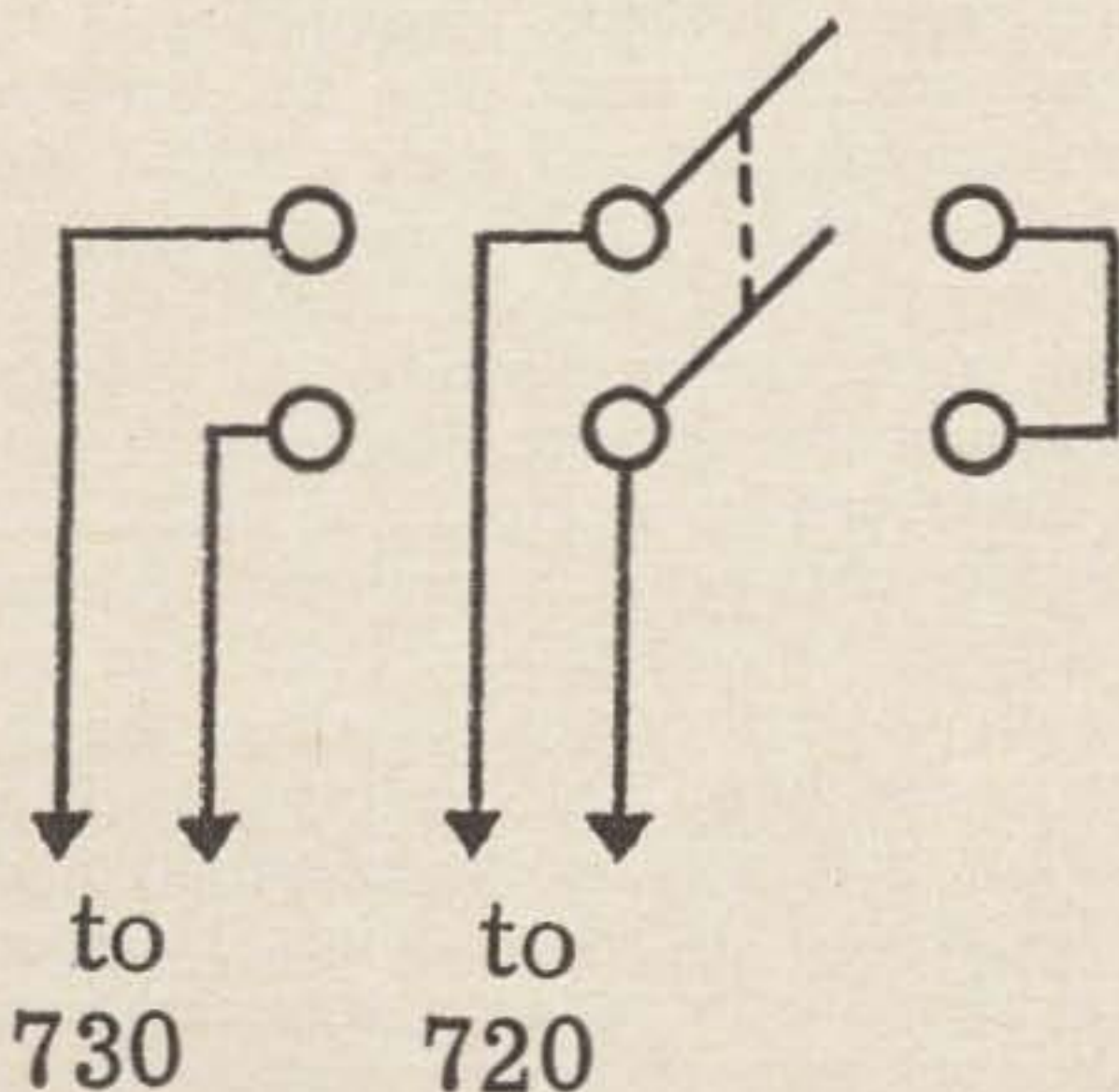
operation when switching from transmit to receive besides being necessary for the installation of this switch. This being true, the "plate supply" switch on the 730 serves no purpose. By removing this switch and replacing it with another we can add a "CW-AM" switch to the unit. Here's the procedure:

Unsolder, at the plate supply switch, the wire connecting one terminal of this switch to a ground lug. This wire should then be rolled up, taped, and kept inside the chassis. The two other wires connected to the switch should also be unsoldered, however they must remain connected. This connection—as with the previously disconnected wire—should be taped and tucked in some out-of-the-way position inside the chassis. In this manner it will be an easy operation to return the modulator back to its original condition, should you so desire. The schematic diagram of the newly added mode switch is shown in Fig. 1 and needs no explanation. In order to bring out the leads of this switch a "U" shaped hole was made on the very edge of the bottom plate which fastens to the chassis just large enough for the leads going to the switch.

Although I have not tried it, a 3PDT switch could also no doubt be used. The "third" set of contacts could then be used to control the ac power going to the modulator. In this way the modulator would automatically be in the AM mode when turned on, and in the CW position when turned off.

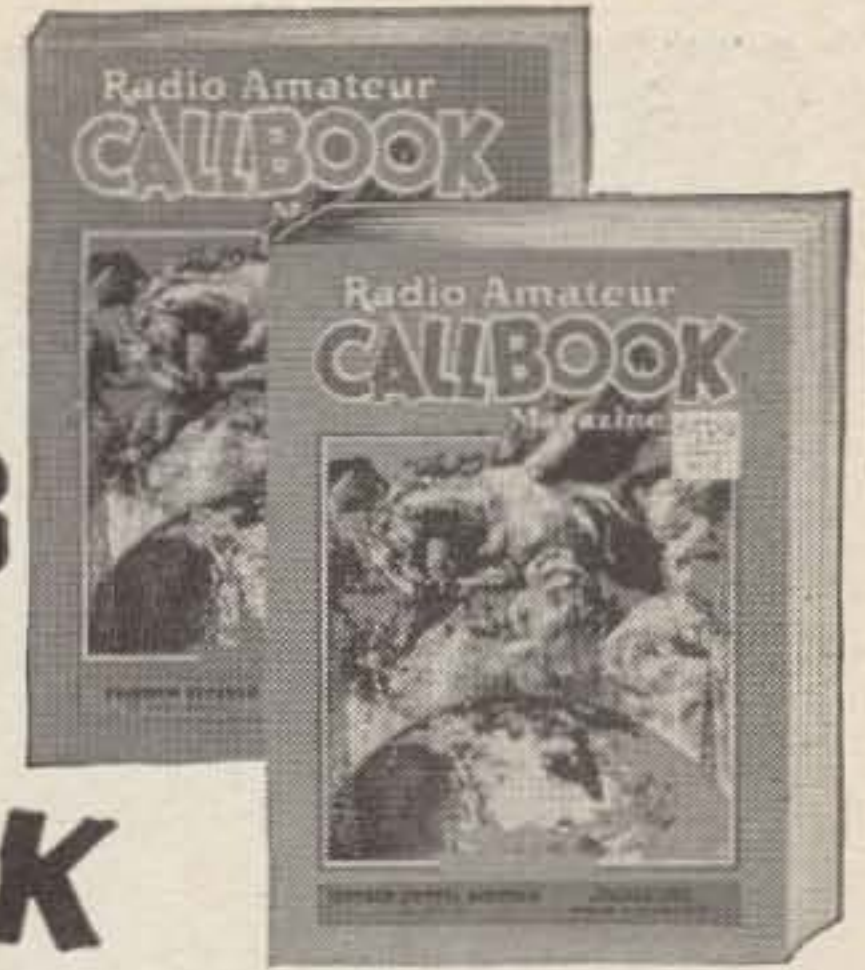
The arrangement shown in Fig. 1 has been in use for some time now at this station and has given me no trouble. It is indeed much easier to switch from 'phone to code with this switch than it is to reach behind the 720 and 730 and plug and unplug connectors every time you want to change mode. . . . W ϕ DSU

2PDT SWITCH



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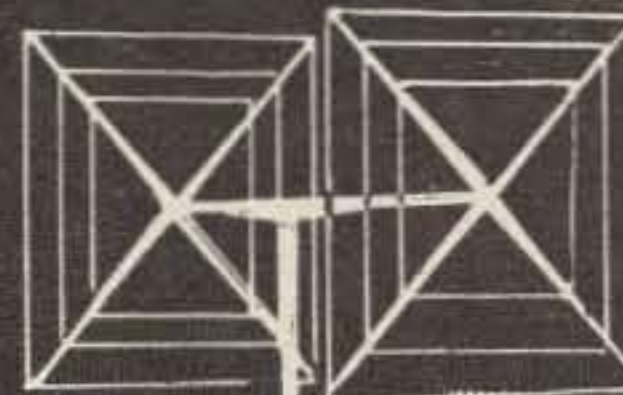
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