

March 2, 1960

ANC-1 RELAYS

K1 - K4 Level relays - controlled by OB1-OB4 when K10 is en. *(energized)*

K5 5th level relay - controlled by OB5 when K10 is en.
(1) Numeric - unconditional
(2) Alpha - only at $\overline{OY} \cdot \overline{OH}$ time
(i.e. 1st extraction in OB's)

K6 Stores level 1 of first extraction in Alpha mode.
coil: $K10 \cdot K8 \cdot (\underbrace{K5 \cdot K1}_{\text{pick}} + \underbrace{\overline{K5} \cdot K6}_{\text{hold}})$

K7 Stores level 2 of first extraction in Alpha mode.
coil: $K10 \cdot K8 \cdot (\underbrace{K5 \cdot K2}_{\text{pick}} + \underbrace{\overline{K5} \cdot K7}_{\text{hold}})$

K8, 13 'AN' (Alpha mode) relay - follows AS flip-flop.

K9 TYPE PULSE relay - "execute" relay; probes decoder to activate key solenoid at $\overline{OY} \cdot \overline{OE} \cdot \overline{OD}$ time

K10 TYPE relay - energized when OC's = 1000, 1001, or 1011. Applies +160 to most circuits.

K11A Energizes "CARRIAGE" UP solenoid.

coil: $K8 \cdot \underbrace{[K11B \cdot K5 \cdot \overline{K3} + \text{spec. char.}]_{\text{pick}}}_{\text{pick}} + \underbrace{K11A \cdot K10}_{\text{hold}} (\overline{K5} + \overline{K3} + \overline{K11B})_{\text{hold}}$

K11B Change state of K11A (hence "CARRIAGE" up/down).

coil: $K8 \cdot \overline{\text{SHIFT INPUT}} \cdot \underbrace{(K5 \cdot \overline{K3} \cdot \overline{K11A} + K5 \cdot K3 \cdot K11A + \text{spec. char.})_{\text{pick}}}_{\text{pick}} + \underbrace{K11B}_{\text{hold}}$

K11C, D Special character intercept (i.e. delay for "CARRIAGE" shift).

coil: $K8 \cdot K10 \cdot K11A$