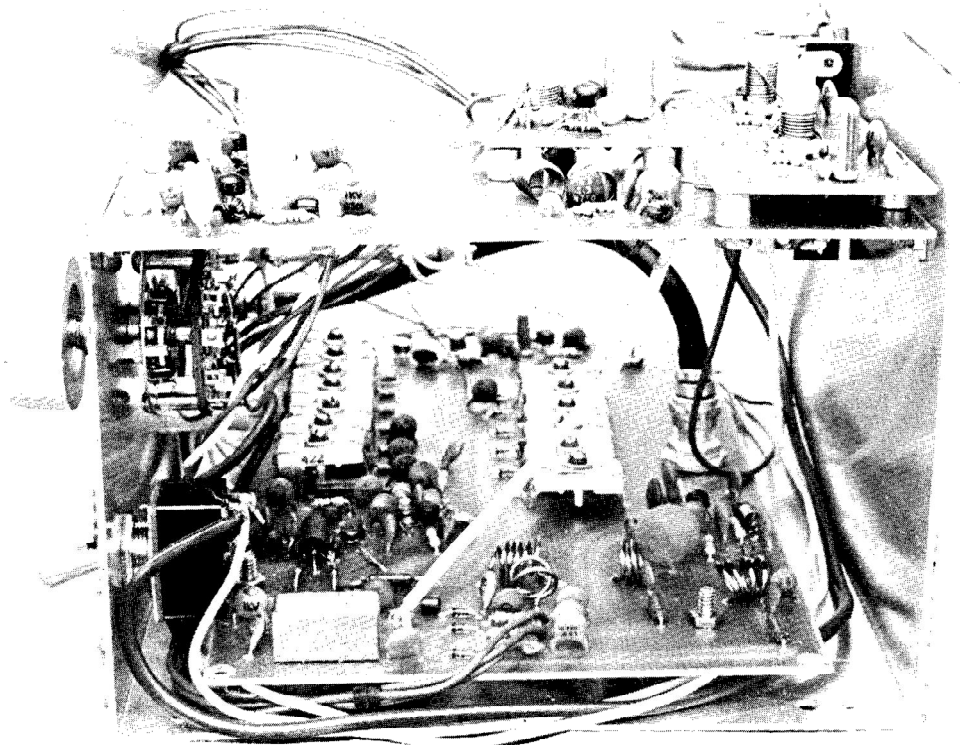


More Construction

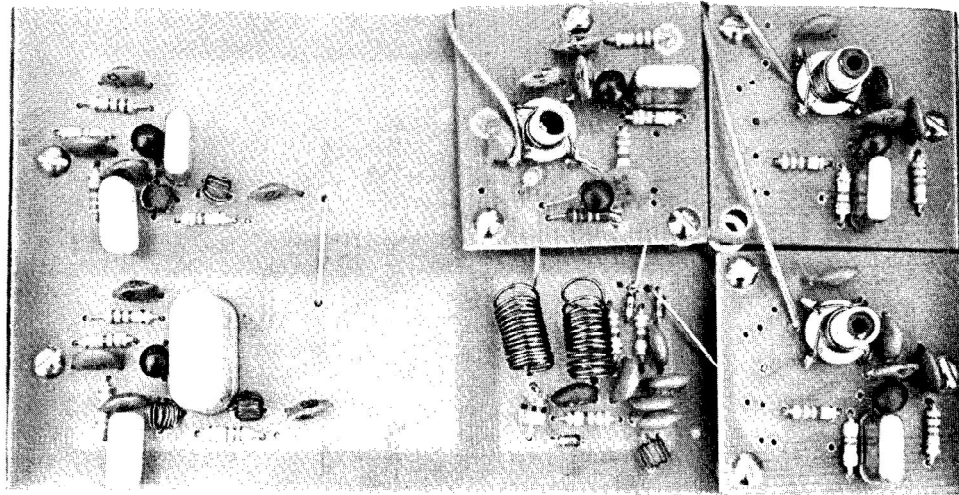
MARK-A-CHANNEL

REVISITED

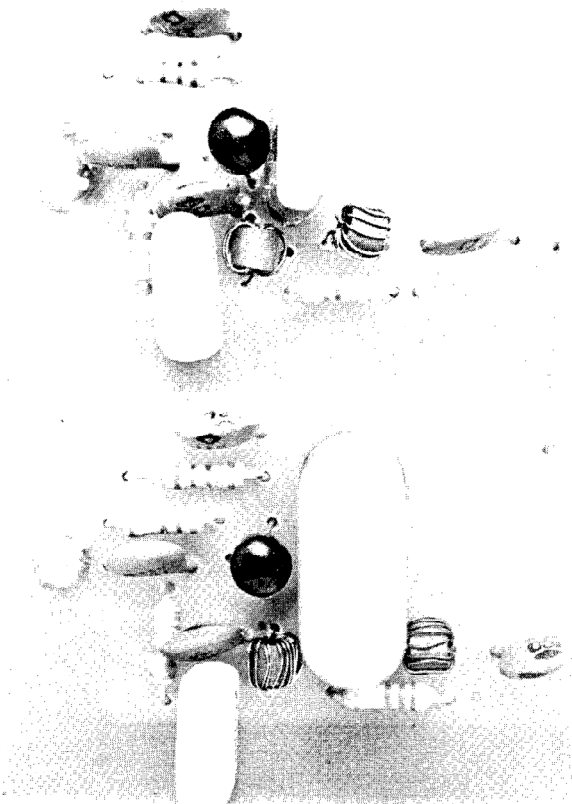
In the July issue of CATJ we presented detailed instructions for constructing a versatile marker device called the Mark-A-Channel. To aid you in building this visual/color/aural marker device we are showing here various details of the unit's construction. The Mark-A-Channel is available to CATJ readers in kit form, or as a first for us, a wired and tested unit. Additionally, the circuit boards are available screened for component locations for those who wish to obtain their own parts. See Pages 33-48 of July 1974 CATJ.



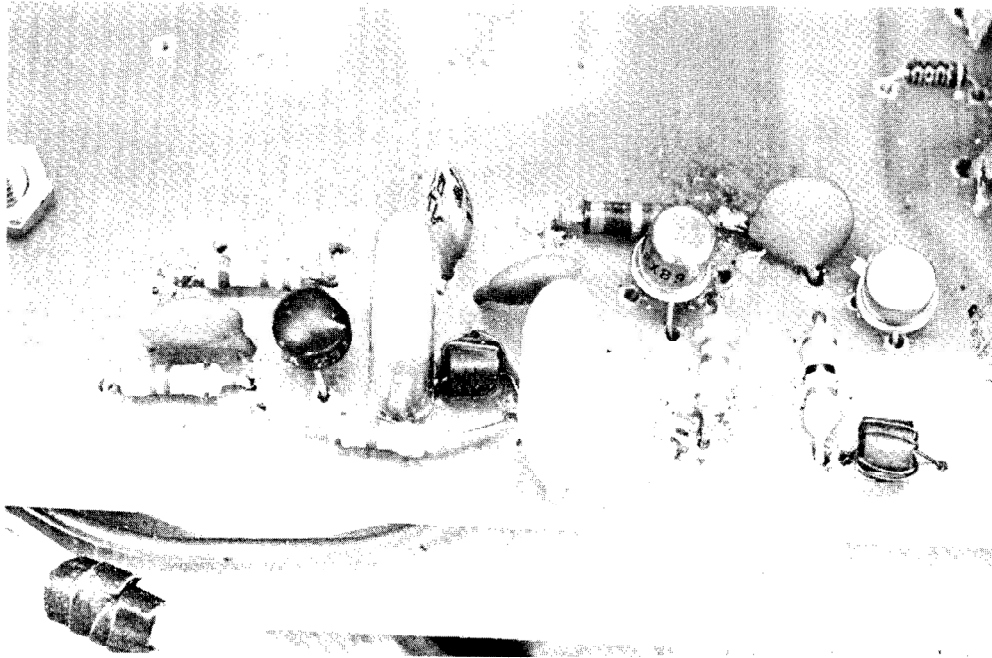
Mark-A-Channel is built in two "layers" with 43.25, 65.25, and 163.25 MHz local oscillators on top (right) board; 3.58 MHz oscillator top (left). Double balanced mixer is lower left. Bottom board also contains 6 MHz comb generator (far rear) with 12-48 MHz amplifier, filters and traps.



ABOVE - Top left 4.5 MHz, bottom right 65.25 MHz, top right 43.25 MHz, top center 163.25 MHz oscillators.

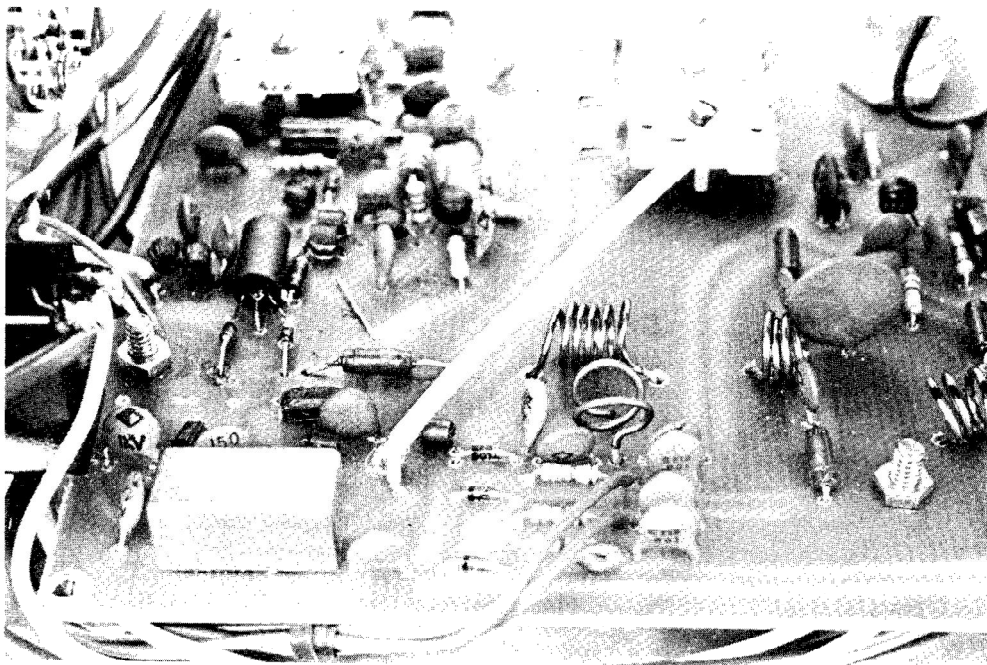


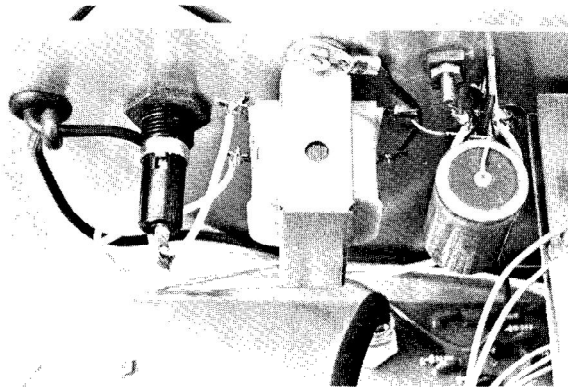
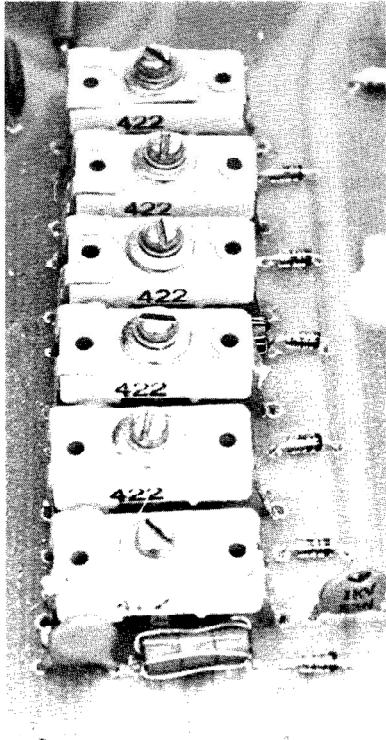
LEFT - 4.5 MHz oscillator (top portion) and 3.58 MHz oscillator (bottom portion).



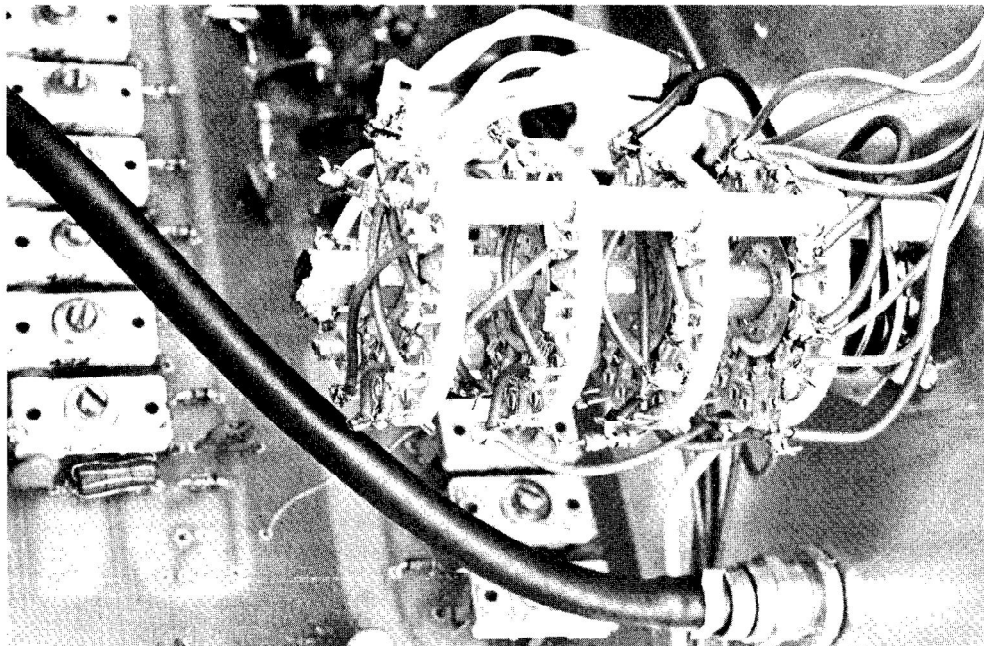
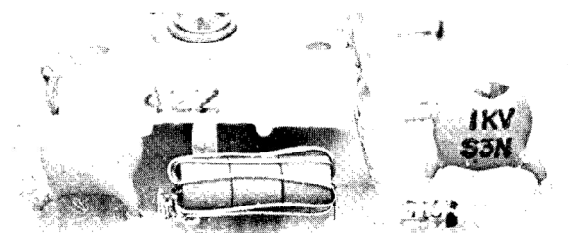
ABOVE - 6 MHz comb generator with Q1 (2N3564) oscillator (left of crystal), Q2 comb generator (BFX-89) and Q3 tuned amplifier (E-310).

BELOW - SRA-1 double balanced mixer (left), with band filters (see Diagram 11, Page 46, CATJ July 1974).





LEFT - C8-13 series traps with D12-17 switching diodes. ABOVE - Power supply mounts on rear panel (Diagram 5, Page 42, CATJ July 1974). BELOW - C13, C46, L20, and D17 (Diagram 5).



ABOVE - Switch S1 with "D" to left, "A" to right.