ACCUREYER is a revised version of the very popular WB4VVF Accured originally described by James Garrett, WB4VVF in QST magazine and the 1975 Radio Amateurs Handbook. The basic keyer provides self-completing dots and dashes, iambic operation with single dot and dash memories, automatic character spacing and low cost. This version features a revised circuit board which allows a more logical I.C. layout, provision for using 1/2-watt resistors to further reduce cost, an on-board is sidetone oscillator, and facilitates attachment of an optional programmable 256 or 512 bit memory for dx or contest work.

## CONSTRUCTION

Using the parts list and pictorial view of the printed circuit board (component side), install and solder jumpers, resistors, transistors, and capacitors in that order, in the locations shown. Jumpers are constructed of solid hookup wire installed straight from point to point and flat against the circuit board as shown. Insulated wire must be used, in the three locations indicated, to avoid shorts. Note polarity of electrolytic capacitors.

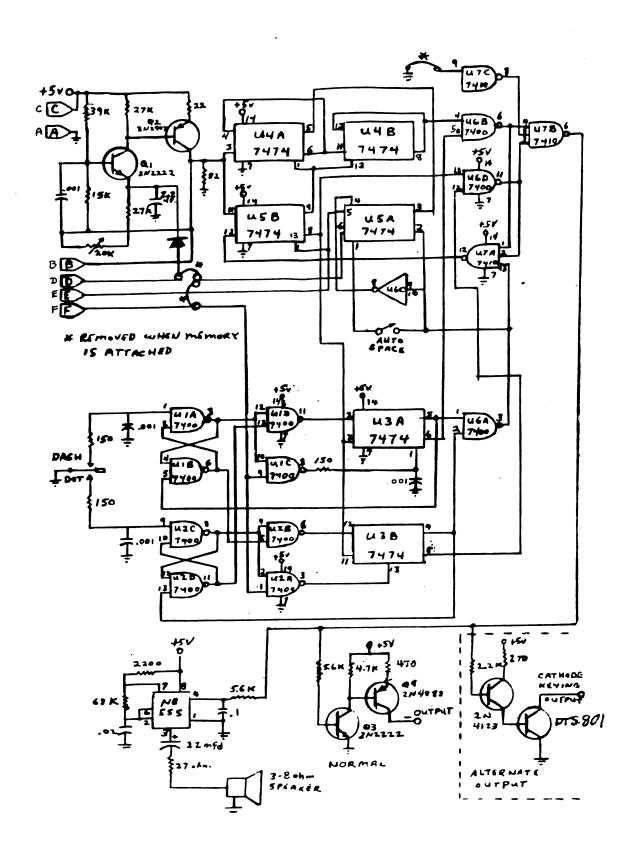
Soldering must be done with a small low-wattage (20-40 watt) soldering iron, and rosin core solder. Care should be taken to avoid cold solder joints and solder bridging to adjacent circuit patterns. Use of a small tipped iron and small diameter solder helps to avoid this problem. Should any difficulty be experienced with the completed keyer, a careful search for cold solder joints and solder bridges usually reveals the cause.

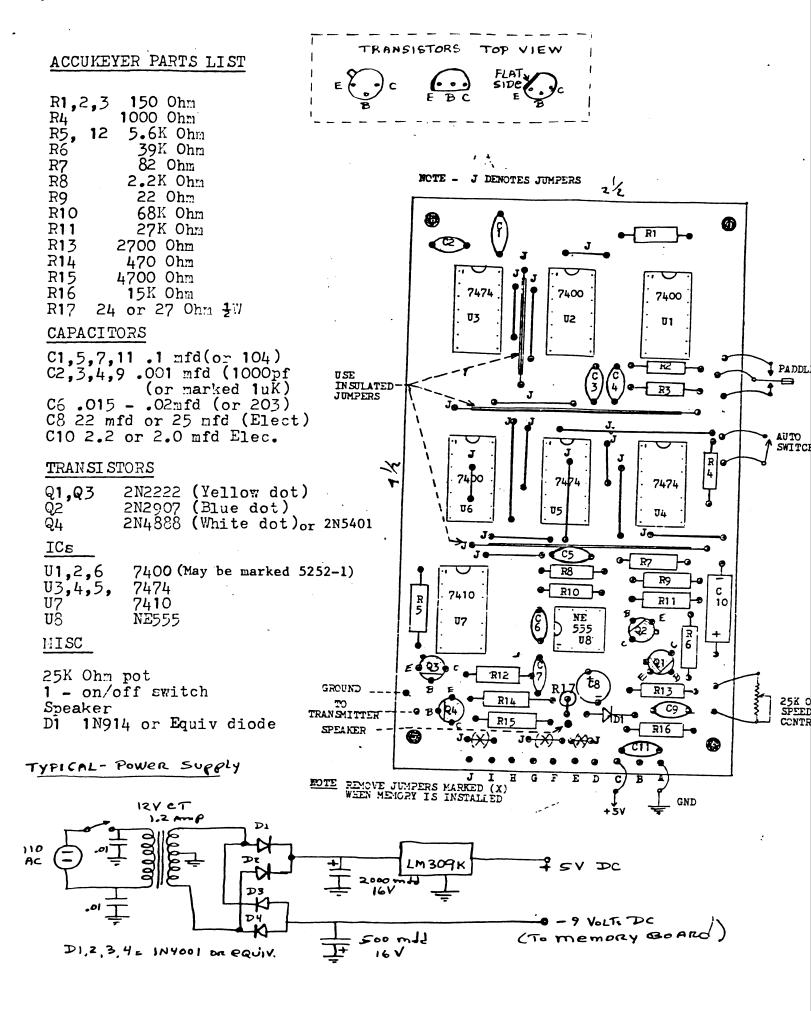
Install I.C.s in locations shown. Be sure to observe proper orientation (notch or dot at pin one end of I.C.) I.C.s can be soldered directly to printed circuit board, but the use of sockets or molex pins is recommended to facilitate replacement.

Attachment of the Auto-Space switch, speed adjustment pot., and a small 3-8 ohm loud speaker completes construction of the basic keyer. Operation of the keyer requires that you connect a dual contact (paddle) key as shown and a 5-volt D.C. power supply to the circuit board. A schematic and parts list of a suitable power supply is provided.

If the memory option is to be used with the keyer, the memory board should now be assembled. It is advisable to assemble and test the basic keyer before attaching the memory to the keyer. Note, however, that three jumpers (marked "X") must be installed or removed from the keyer board depending on whether or not the memory is installed.

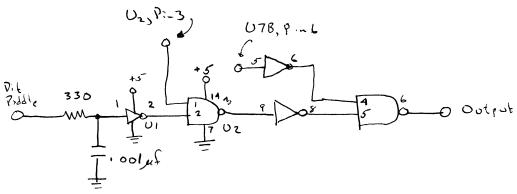
The output circuit of keyer is designed for grid block keying, however, the circuit can be modified as shown in the schematic for cathode keying if desired.





## fr. ARRL HALK 1980 PJ 11-9

To eliminate trailing dita



U1: 7104

02: 7400