Palomar Engineers™

IC Keyer

Installation. Connect a 9 volt transistor battery to
the plug and put the battery in the clip on the rear of the
keyer. An alkaline battery is recommended.

Conect the transmitter to the XMTR jack using a
shielded cable. A mating connector is provided with the
keyer for this purpose.

Operating. With the toggle switch in the AUTO
position the keyer works fully automatic. Adjust the
volume and speed controls for the desired speed and
sidetone volume.

The keyer makes dots, dashes, and spaces at speeds
from 5 to 50 wpm. Also if both paddles are held closed
operation is iambic: alternating dots and dashes. The
series can be started with either a dot or a dash depending
on which paddle is closed first.

Dots and dashes are seld completing. Once a dot, dash
or space is started it cannot be extended or cut short by
improper key action.

To prevent lost dots the keyer has a dot memory. If
a dot is called for too soon (before a space is over) the
keyer remembers and inserts the dot at the proper time.
Also there is a dash memory that works the same way for
dashes.

With the switch in the SEMI position the keyer is
semiautomatic. Dots are automatic but dashes must be made
by hand just as with a straight key or a "bug".

With the switch in the TUNE position the relay contacts
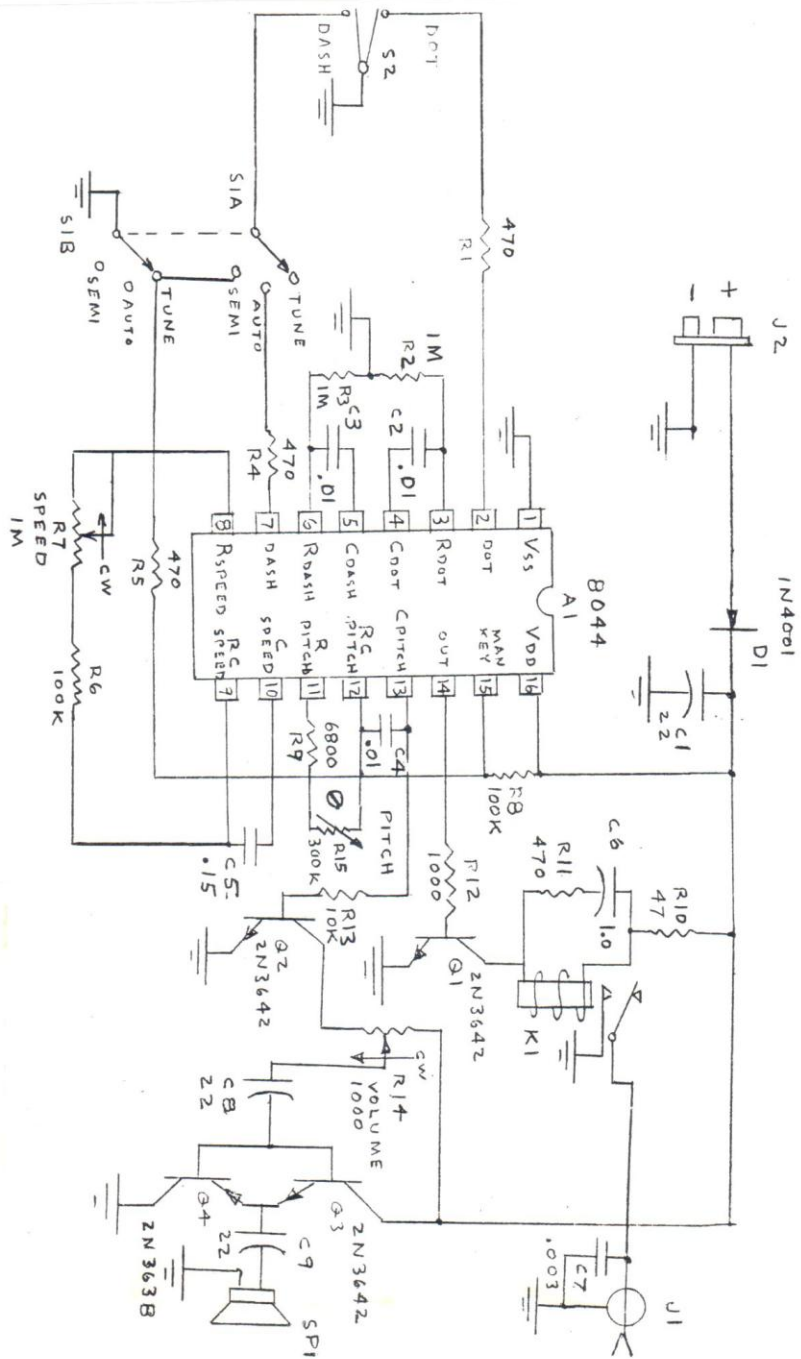remain closed for transmitter tuning.

External Battery. A 9 volt alkaline batter will
give about 75 hours of operation and makes the keyer
completely portable. A 9 or 12 volt lantern battery can
be used and will power the keyer for about two years. Do
not apply more than 15 volts DC to the keyer.

Transmitter connection. The keyer will key either
grid-block or cathode keyer transmitters up to 300 volts.
The contacts are rated at ½ ampere.

If the transmitter presents an inductive or capacitive
load the relay may stick closed. If so, disconnect the
transmitter and make a string of dots to free the contacts.
Then put a resistor in series with the keyed lead. Try 1000
ohms (or as large as you can use and the transmitter still
key properly). Or use an R-C spark suppessor.

Paddle & Sidetone Adjustments. Dot and dash paddles
are separately adjustable for travel (contact spacing) and
there is an adjustment for spring tension. On the circuit
board inside the keyer a small potentiometer adjusts the
sidetone pitch.

To get at these adjustments remove the two black screws
on the sides of the keyer and remove the lid.

IC Keyer - MK V
Schematic