

# GOLDEN EAGLE MARK IV A 26.285MHZ - 28.035MHZ

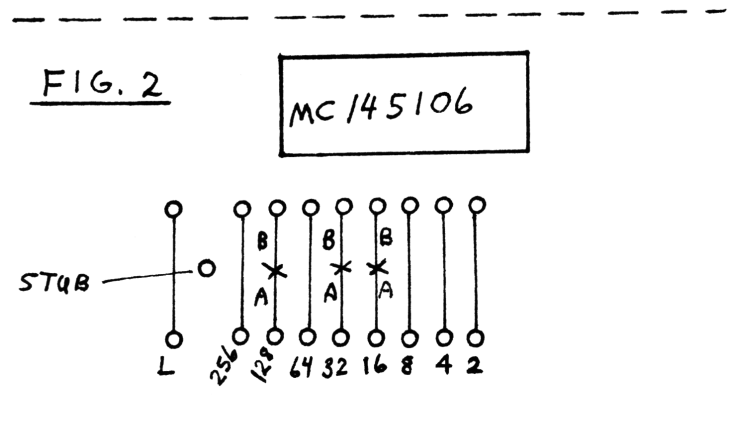
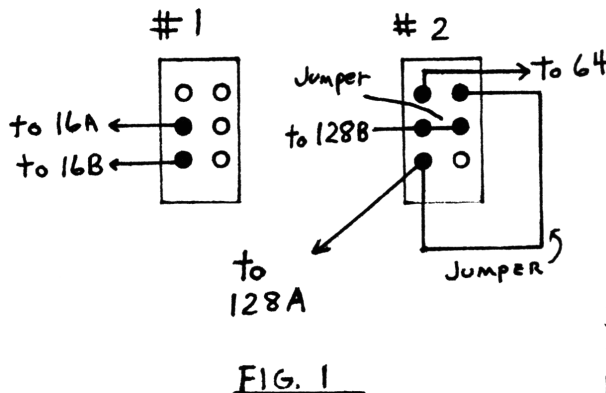
## Transmitter Modification

First obtain the following parts;

- 2-DPDT Center-off Miniature Toggle Switches
- 2-SPST Miniature Toggle Switches
- 3'-22 guage Stranded hook-up wire, any color

1. Remove the covers from the transmitter unit. Locate the 9 wires which are labelled 2,4,8,16,32,64,128,256, and L. Also, notice the stub of wire sticking up between the wires labelled L and 256.
2. Remove the wire labelled 32 and solder a length of wire from each hole to where you want the first SPST Switch. See Fig.1.
3. Solder one end of a wire to the wire labelled 64. Solder the other end to a DPDT Center-off Switch as shown in Fig.1.
4. Remove the wire labelled 16 and solder a length of wire from each hole to where you want to mount the other DPDT Center-off Switch. Wire as shown in figure 1.
5. Remove the wire labelled 128 and solder 3 wires in its place- one from one hole (A) and two from the other hole.(B) See Fig.2.
6. Solder these three wires, two of which go to the #2 DPDT Center-off Switch and the other to the #4 SPST Switch as shown in Fig.1. Add jumpers as illustrated.
7. Solder a wire onto the stub sticking up between the wires labelled L and 256. Solder the other end to the #4 SPST Switch as shown in Figure 1.

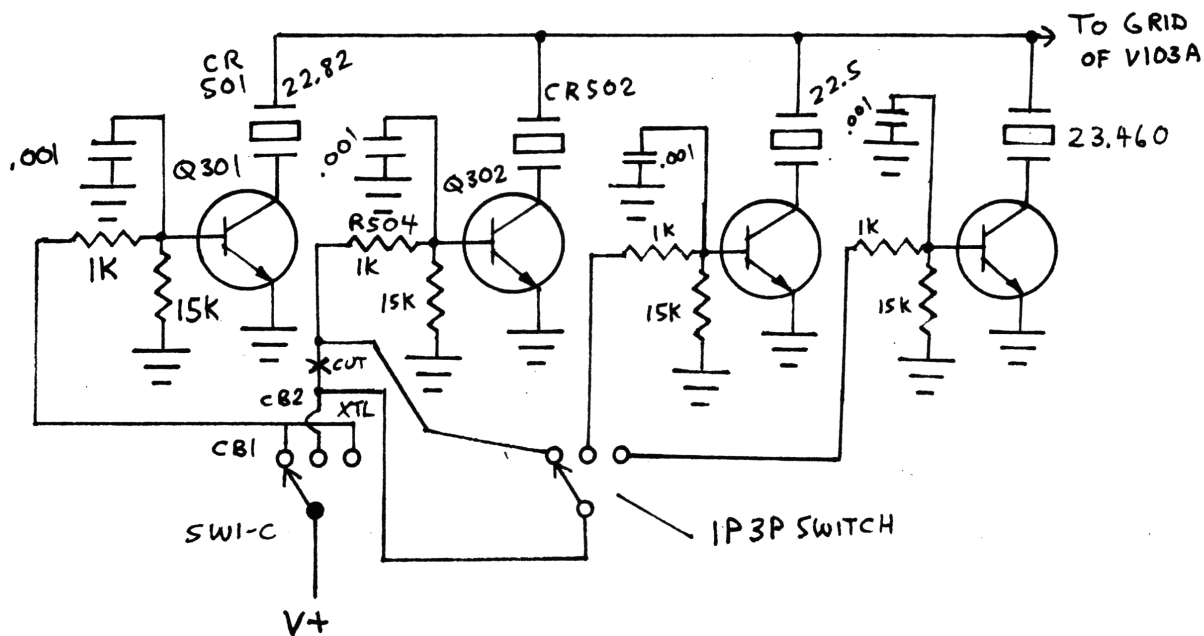
\* You will need to adjust L701,L702, and L705 for full coverage.



## GOLDEN EAGLE MARK IV (CON'T)

The receiver already has the capacity to function up to 27.605. A 22.500 MHz. crystal will give coverage from 26.575 - 26.915. To receive above 27.605, a 23.460 MHz. crystal is necessary which gives coverage up to 27.925 MHz. To add the extra crystals, the following modification to the receiver will have to be made.

1. Unsolder the wire from CB2 to R504 on SW1-C. (CB1, CB2, XTL Switch)
2. Install a 1 Pole 3 position switch in a convenient place near SW1.
3. Run a wire from CB2 to the common of the new switch.
4. Run a wire from the wire unsoldered in Step 1 to position 1.



5. Duplicate the Q301/Q302 circuits by building two new transistor crystal switches on a piece of perforated board as shown. Parts needed for each one are: .001 ufd disc capacitor; 1K  $\frac{1}{4}$ w resistor; 15K  $\frac{1}{4}$ w resistor; 2N2222 or 2N3904 transistor, crystal.
6. Wire to the switch as shown.
7. Connect other ends of new crystals to CR501/CR502 junction which goes to the grid of V103A.

\* Reference: Vol.7. Now you are in business!