

# READ THIS FIRST

A few last minute changes that you need to know about.....

My supplier of variable capacitors sent me two shipments of variable caps that were not the same as the sample I had been given earlier. This is not a problem, however, it means that a few changes must be made to the circuit to get the desired frequency coverage. The capacitor that is included with the kit is a smaller value than the original circuit used. For 40 meters, if the variable is connected to the source tap on L1 as shown in the schematic you will be able to cover about 25 KHz of the band. I built a unit using an additional tap at 18 turns for the variable capacitor, and was able to cover 140 KHz. Connecting the variable capacitor across the entire L1 resulted in a 500 KHz coverage. I have not yet built up units on the other bands to determine frequency coverage.

One other difference between the supplied variable capacitor and the sample I had is the mounting holes. There are still three holes on the rear of the frame that line up with three holes in the PC board for mounting, but they are not tapped - you will need to carefully tap these yourself if you want to mount the capacitor to the board in this fashion. The four holes on the bottom of the capacitor now have pins pressed in the holes. KK7B and I both tried to pull the pins from the holes and succeeded only in twisting off the small part of the pin. I was able to use the pins to solder the capacitor to the PC board using the four mounting holes in the PC board. The pins are much smaller than the holes, but I was able to hold the pins against the front of all the holes and solder is solidly in place. You still have the option of mounting the capacitor off the board.

The documentation also states that components are included so that the Binaural receiver can be built on 40, 30, or 20 meters. The frequency dependent components are enclosed in separate plastic bags in the Binaural kit and the Universal VFO kit. You will also find three shanks of wire in the kit. Each is #28 wire and can be used to wind any and all of the toroids.

I took some quick digital pictures of my first completed PC boards. By the time you receive the kit I should have them on my web page.