

I made a modification to my Bitx vfo circuit. I had a 10 turn, 10k pot and a turns counting dial so I converted the original circuit into a varactor tuned circuit. I removed the 365pfd variable cap, replaced the 10pfd capacitor with a 1000pfd, replaced the zener diode with a MV2115 varactor diode, and removed 9 turns from L4 inductor. You may have to adjust the # of turns according to what you have the wire wound on. If you assemble the circuit without changing the inductor, you can keep removing turns until it is the correct frequency. The 1000pfd capacitor will vary the tuning spread. Decreasing its value will decrease the tuning range.

Just a warning, I haven't had mine on the air yet but this appears to work well. It is a minor circuitry change so if you don't like it, you can go back to the original design easily. Another advantage is not needing a variable capacitor and 1 less hole in the front panel.

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