KN-Q7A Application for Multiple Frequency Operation

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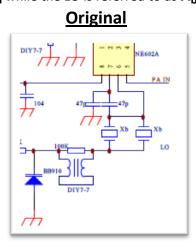


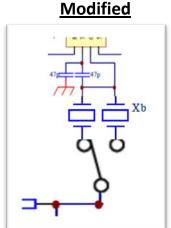
By design, the KN-Q7A has limited tuning capability. In order to add additional band coverage in the 40 Meter band, you need to add an additional crystal.

You must choose crystals such that they use the same IF frequency. There are two IF frequency options available:

<u>IF Frequency 8.467 MHz</u> LO: 15.536 MHz LO: 15.570 MHz <u>IF Frequency 8.192 MHz</u> LO: 15.360 MHz LO: 15.418 MHz LO: 15.500 MHz

These are the options offered by Adam. The basic equation is Transmit Frequency = LO frequency – IF frequency. Therefore, if you purchased an IF of 8.467 MHz, you have two crystal options, one additional to what you purchased with your kit. If you purchased the 8.192 MHz, you have three crystal options. In the schematic, the IF crystals are referred to as X_a while the LO is referred to as X_b .





Switch can be a relay if desired!