

# Kenwood TS-520

## 11 Meter Mod

If you want to get from say 26.5 all through to 28.0 then order the following.

<u>Qty</u>	<u>Freq.</u>	
1	35.395	(26.5 to 27.0) replaces 36.895 for the 28.0 position
1	35.895	(27.0 to 27.5) replaces 37.395 for the 28.5 position
1	36.395	(27.5 to 28.0) replaces 37.995 for the 29.1 position

Crystal type is HC-18 (solder in) and PF=50 for the TS-520 HET oscillator

If you don't like that spread, here is the formula to make your own:

Decide what Frequency you want for each band, lowest to highest.  
Then do this to calculate the lowest freq. for each band, for example:

Lets say you wanted to start at **26.000** to **26.500**.

Take the lowest freq. **26.000** then add **8.895** and you get **34.895** this is the frequency of the crystal you will need to order.

Yes the VFO is 600Khz wide so why do we say 27.000 to 27.500 instead of 27.600?

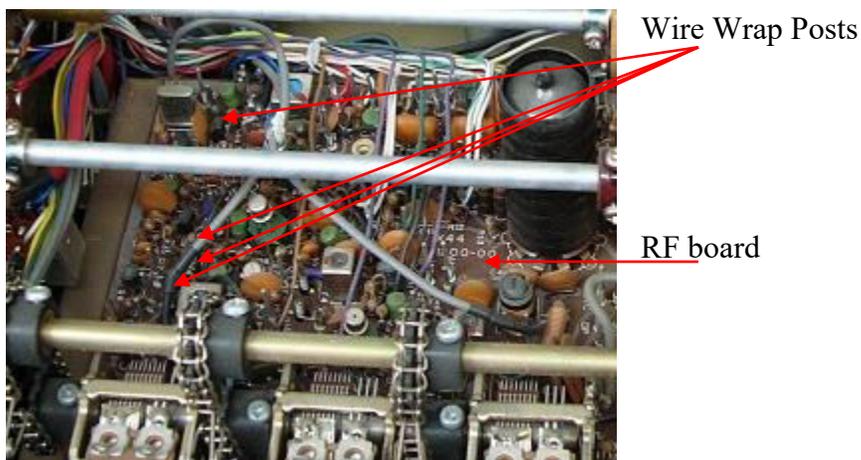
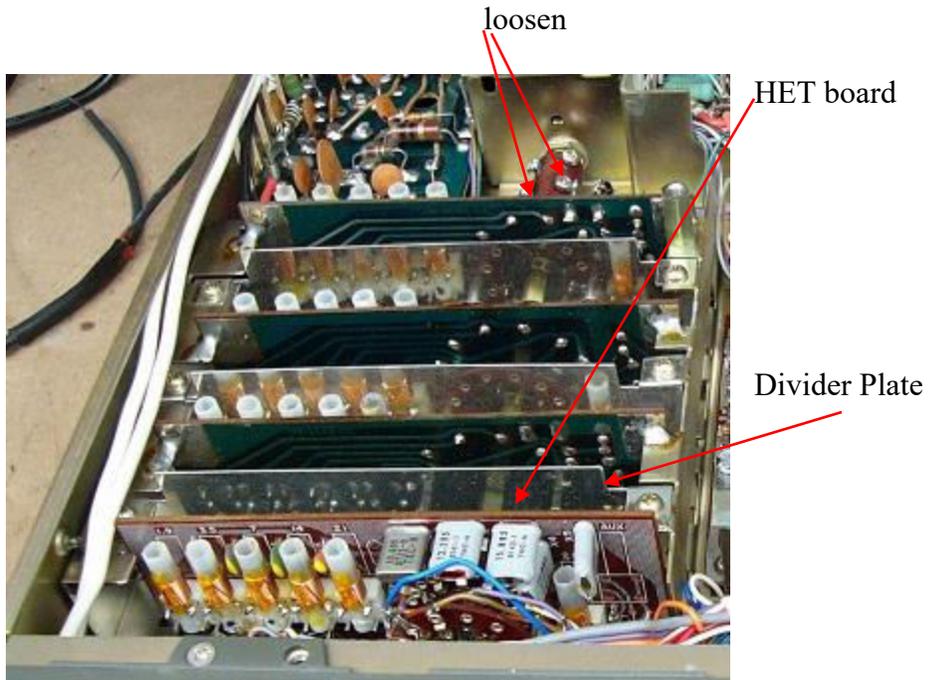
- I think A. its easier to think in 500 khz sections  
B. Everyone has always done it like that  
C. oscillator fiddle room so it won't drop out higher up  
Your choice...

**This is a tricky task so if you're not good at this level of work, send it in!**

First make sure the radio works on all band positions.

- A. Disconnect all power
- B. Take off top and bottom covers
- C. Drain caps
- D. Set band switch at 20mtr
- E. Remove the HET Oscillator board like this:

With the bottom up and radio facing you it's the one with the crystals and is the first board on the bottom left connected with the band switch and row of boards.



Start on the top side of the radio HET board by disconnecting the four wire wrapped post connectors from the RF board, you can clip or untwist the wire. Then, turn the radio over and unscrew and remove the divider plate.

Now take off the two small nuts on the front of the band switch. Be careful to remove and not loose the lock washer and fiber washer on each shaft.

From the back of the last board in the row, you can gently pull the long threaded bolts back just enough to take out the two spacers in the rear of the HET board switch.

Follow the band switch shaft to the rear coupler. Loosen the two front screws so you can pull out the shaft from the front. *Just remember where you have it set and don't move the switch plates!*

Remove the board and replace the crystals with the ones you choose. Reassemble in reverse order and reconnect the four posts to the RF board.

Tune up the 28 Mhz section and your done!

Enjoy,  
73 WR-725