

SR-400 VFO ALIGNMENT

Prior to electrical alignment of the VFO perform the mechanical indexing operations as described in section 8-8 paragraph A of the Hallicrafters OPERATING AND SERVICE INSTRUCTIONS manual.

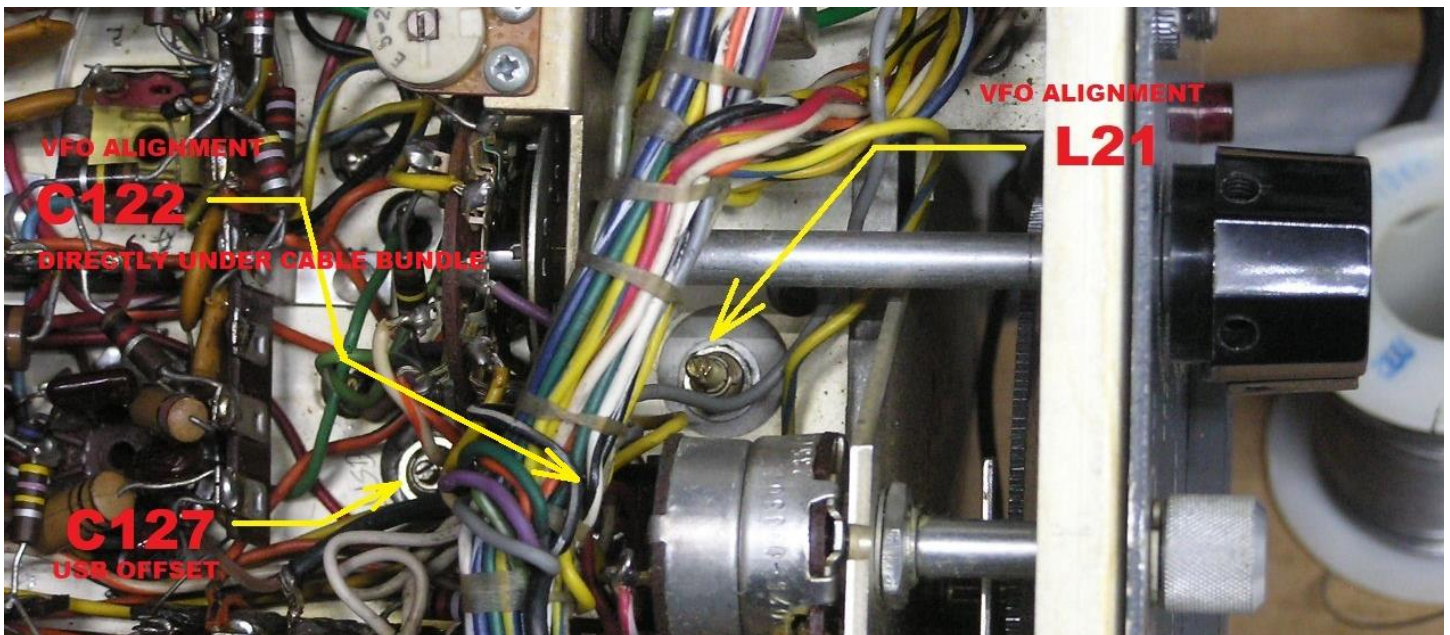
SETUP:

Connect frequency counter to pin 3 of V4.
Preset C122 to the center of its tuning range.
RIT CONTROL to center of its rotation.
RIT OFF/ON to OFF position.
FUNCTION to LSB.

Connect to a known to be good power supply.
Turn the OPERATION switch to REC.
Allow 30 minutes warm-up/stabilize time.

INITIAL PRESET.

Tune the main tuning dial to 300.
Adjust L21 for a reading of 4.550MHz on the frequency counter.

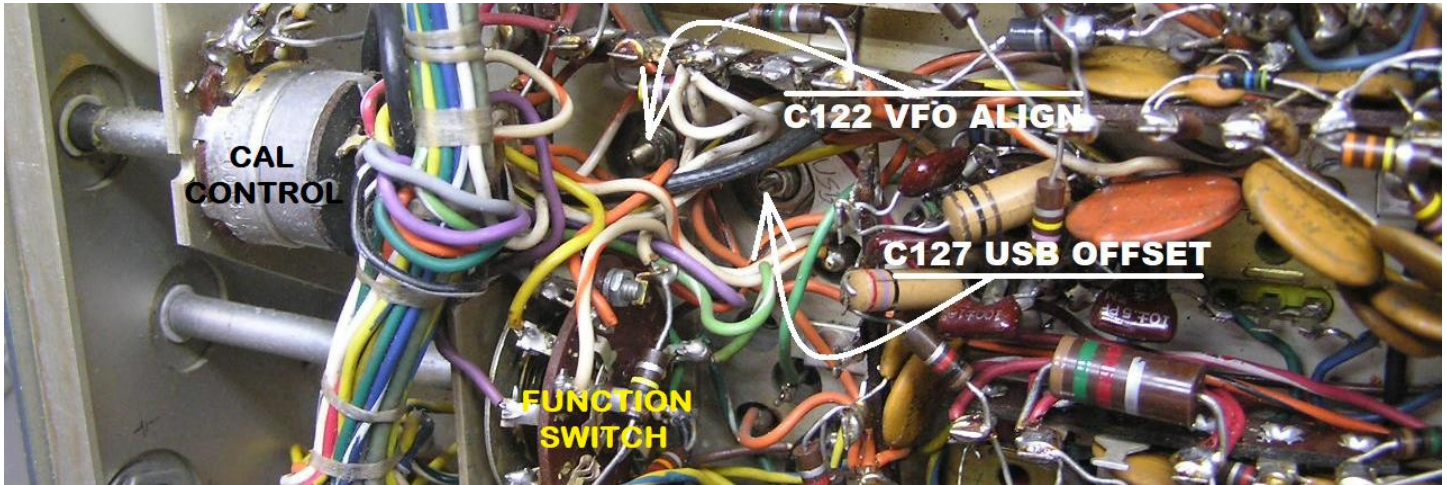


FINAL TRACKING ALIGNMENT.

Tune the main tuning to 100 and adjust C122 for 4.750MHz on the counter.

Tune the main tuning to 400 and adjust L21 for 4.450MHz on the counter.

NOTE: These two adjustments interact, therefore you may have to go back and forth, under or over correction at one or the other end to get both ends correct.



FINAL CHECK

MAIN TUNING	FREQUENCY
0	4.850MHz
100	4.750MHz
200	4.650MHz
300	4.550MHz
400	4.450MHz
500	4.350MHz

LSB/USB OFFSET

Once you are satisfied with the track and alignment: Tune the main tuning to 303. The frequency counter should read 4.553MHz, fine adjust the main tuning until the reading is exactly 4.553MHz. Move the FUNCTION switch from LSB to USB. The counter should read 4.550MHz (a drop of 3000Hz). If not then adjust C127 for exactly 4.550. Switch back and fourth from LSB to USB several times to insure you have exactly 3KHz shift.