

SR-160/500 VFO ALIGNMENT

SETUP:

Connect frequency counter to the junction of C77 and S1A tab 10 using a 10x scope probe.
Preset C127 to the center of its tuning range.
Adjust the **DIAL CAL** to center of its adjustment.
Set **RIT** to **OFF**.
Set **RIT** control to the center of its rotation.
Set the **BAND** to **80** meters.

Turn the **OPERATION** switch to **REC ONLY**.
Allow 30 minutes warm-up/stabilize time.

INITIAL PRESET.

Tune the main tuning dial to 3800.
Adjust L18 for a reading of 9.000MHz on the frequency counter.

FINAL TRACKING ALIGNMENT.

Tune the main tuning to 3600 and adjust C126 for 8.800MHz on the counter.
Tune the main tuning to 3900 and adjust L18 for 9.100MHz on the counter.

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

FINAL TRACKING CHECK

MAIN TUNING	FREQUENCY
3500	8.700MHz
3600	8.800MHz
3700	8.900MHz
3800	9.000MHz
3900	9.100MHz
4000	9.200MHz

Move the scope probe from the frequency counter to the scope

Set the main tuning to 3750. The signal should be 5vpp minimum. No greater than 6.5vpp.

Tune the main tuning from 3.5MHz to 4.0MHz while observing the voltage on the scope. The signal should not drop more than 0.5 volts at either end.

This completes the VFO tests and adjustments!