9107B Frequency Change Procedure

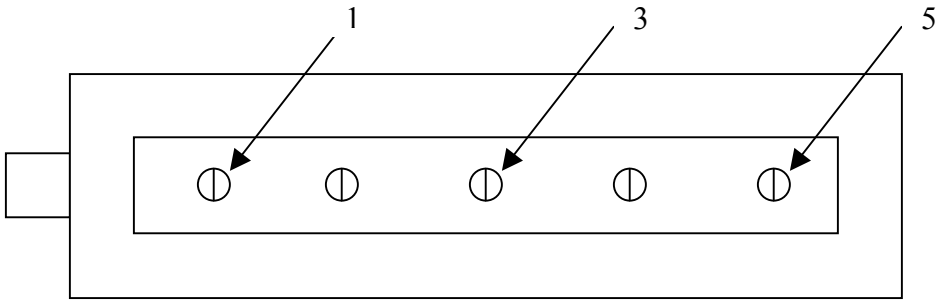
1. Determine new DIP switch settings.

2. Turn off AC power. Remove the chassis top cover. Unscrew the casting from the bottom of the chassis. Remove the casting top cover.

3. VCO1/Synthesizer Board Adjustments
   a) Turn on AC power.
   b) Confirm old DIP switch settings and record.
   c) Set DIP switch settings.
   d) Adjust L2 for 4.0V on VCO1 front panel meter.
   e) CR1 will be off.

5. VCO2, VCO3 and Crystal Oscillator Board Adjustments
   a) Adjust C4 until the frequency at TP2 equals the crystal frequency.
   b) Readjust C24 until VCO2 front panel meter reading is 4.0V.
   c) Readjust C52 until VCO3 front panel meter reading is 4.0V.

6. Cavity Filter Tuning
   a) Turn off AC power. Input desired frequency at 0dBm into blue cavity filter input. Examine output of cavity filter on spectrum analyzer.
   b) Retune cavity filter to desired frequency.
   c) Tune **ONLY** screws 1, 3, and 5 to the desired frequency.
   d) Cavity filter output should be -3dBm or -4 dBm.
   e) Turn on AC power.



7. RF Board

Using an oscilloscope, retune helical filter, FL2, on RF board to maximize the 70 MHz output.

8. Reassemble casting and top cover with AC power off.

9. Unit is now ready for operation.