SM-6000 Series Alignment Procedure

For manufacturing, the alignment (tune up) of the SM-6000 unit is accomplished by a Maxon America, Incorporated (MAI) proprietary Automatic Test Equipment (ATE) software program. The ATE program is run on a personal computer (PC) in the *Windows* environment that communicates with the unit under test (UUT) through an adapter box. The ATE program also controls IEEE-488 (GPIB) test equipment connected to the UUT. This test equipment includes a programmable power supply and a HP 8920B Radio Test Set.

There are only two manual adjustments in the radio. These adjustments are to the Dual VCO Module. The VCOs are in the PLL frequency synthesizer loop. One adjustment is the on frequency transmitter oscillator and the other adjustment is the receiver 1st LO oscillator.

Available to dealers only is a modified version of the ATE program called MaxMaintenance. The MaxMaintenance program is run on a personal computer that communicates with the UUT through an adapter box (the same as for production), and accomplishes what the ATE program does, but under operator control and with non-programmable test equipment.