

ASCOM SE- 550 ALI GNMENT INSTRUCTIONS

- Change the firmware EPROM to the PA4DEN (R.A.T.S. V3) version.
- Switch the radio on and set it to 70.400.000MHz. Attach a suitable dummy load to the aerial socket.
- □ Adjust the Rx VCO tracking monitor the voltage on MP2 with a DVM and adjust R110 for 5V.
- Adjust the Tx VCO tracking monitor the voltage on MP5 with a DVM and adjust R150 for 5V.
 (This voltage is correct in receive mode if the radio is put briefly into transmit).
- □ Adjust R5 clockwise for best rx sensitivity (maximum resistance).
- Adjust cores of double-coil L2 and triple-coil L6 for best Rx sensitivity. (An HF transceiver transmitting into a dummy load at minimum power on a sub-harmonic of 70.4MHz will give a suitable test signal try 3.520000MHz, 7.040000MHz, 10.057143MHz or 14.080000MHz.)
- Adjust the squelch attach an aerial to the radio and find a channel that is clear of interference.
 Adjust R55 so that the squelch just closes. Check the setting by tuning across the band.
- Adjust Peak Deviation (R152) up a bit to taste (the factory setting makes the radio sound very quiet). If a deviaton meter is available, a peak setting of 4KHz appears to give good results. Be careful though, it will go much higher ! If a meter is not available then adjust it on-air with the help of a friendly local.
- □ The RF Power Adjustment (R179) should be set correctly 25W output with the software power adjustment set to maximum. Power will go higher to about 35W but watch the heat dissipation.

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