

ADJUSTMENT PROCEDURE

STEP	ITEM	ADJUSTMENT	PROCEDURE
1	TX Frequency	VC101	Adjust VC101 to obtain demanded TX frequency.
2	TX	L117 L118 L119	Adjust L117, L118, L119 to obtain demanded TX power.
3	TX. Dev.	VR301	1. Inject an audio frequency (AF) -20dBm. 2. Adjust VR301 to obtain maximum TX deviation $\leq 2.5\text{KHz}$. 3. Check MIC modulation sensitivity, and it should be 2.5~10mV.
4	CTCSS Dev.		Check CTCSS deviation if it is normal.
5	RX		Check RX sensitivity if it is normal.
6	RX	L103 L104	Adjust L103 and L104 to obtain Max. Sensitivity.
7	RX	VR101	Adjust VR101 to obtain demanded squelch sensitivity.

ALIGNMENT PROCEDURES

Important: The FCC requires that any frequency adjustment on a radiophone must be done by authorized person, who is the holder of a current first or second class radiotelephone license.

This unit has been fully aligned at the factory before shipment and does not normally require further adjustment. When necessary, however, the unit may be aligned as indicated below.

Do not adjust any circuit in this radiotelephone unless you understand the circuit operation and have experience in adjusting radiotelephone. Tampering with the radiotelephone may upset the alignment and lower its performance.

Test Equipment Required

The following equipment is required for the alignment.

Regulated DC power supply, 0~12V,1A or higher; or 4.5V, 1A

Audio signal generator,10Hz~3KHz

Digital multimeter

Deviation meter

Frequency counter,0~500MHz high impedance

Oscilloscope

RF power meter, 0.5W

High frequency standard generato,>500MHz

Tracking generator,>500MHz

Distortion analyzer

Audio level meter

T-coupler

Alignment drivers, etc.