

Ranger RCI-2950

Documentation Project

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PLL Alignment

[PLL Alignment Locations](#)

SETTINGS	CONNECTION	ADJUST	ADJUST FOR
Remove TP1, TP2, TP3 Jumper PCB.			
VCO & OSC: Frequency: 28.0000 MHz MIC Gain: Fully counter-clockwise RF Power. Fully clockwise RF Gain: Fully clockwise Clarifier: 12 o'clock Vol : Comfortable level Squelch: Fully counter-clockwise Mode selector - AM	Disconnect shorting board from test points TP1, TP2 and TP3		
	Connect Freq. Counter to L61	VC1	Adjust for reading of 10.240MHz \pm 10Hz.
	Connect Oscilloscope to L61	L4	Adjust for Max.
	Connect a Freq. Counter to L65	VC2	Adjust for 17.305MHz \pm 10Hz.
	Connect a Freq. Counter to L65	VR21	Key Transmitter and adjust for 17.305MHz \pm 10Hz.
	Connect Voltmeter to IC7 Pin3	L21	Adjust for 1.2VDC \pm .1VDC.
	Connect Voltmeter to J13	L17	Adjust for 2.0VDC \pm .1VDC.
	Connect Oscilloscope to L65	L19	Adjust for Max.
	Connect Freq. Counter to IC13 pin8	L23	Very carefully adjust for 11.350MHz \pm 10Hz.
	Connect Oscilloscope to IC17 pin13	L24 L25	Very carefully adjust and for best waveform
AM TX OSC: Same as above	Connect a frequency counter to cathode of D45	L27	Key transmitter and adjust for 10.6950 MHz \pm 10Hz.
USB TX OSC: Adjust VR7 fully clockwise. Put mode selector on USB.	Leave frequency counter connected to D45	L29	Key transmitter and adjust for 10.6925 MHz \pm 10Hz.
LSB TX OSC: Put mode selector in LSB. After adjustment return VR7 to approximate middle of rotation.	Leave frequency counter connected to D45	L28	Key transmitter and adjust for 10.6975 MHz \pm 10Hz.
Replace TP1, TP2, TP3 Jumper PCB.			

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