

# Galaxy DX Radios DX94HP

## Documentation Project

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### PLL Alignment

See [Alignment Locations](#)

SETTINGS	CONNECTION	ADJUST	ADJUST FOR
<b>10.240 MHz PLL REFERENCE:</b> RX Mode, AM, Band E, Ch. 1	Connect Frequency counter to IC3 Pin 4.		Check for 10.2400MHz $\pm$ 200 Hz. If tolerance is beyond this, replace X1 (10.240MHz).
<b>VCO VOLTAGE:</b> RX Mode, AM, Band E, CH. 1	Connect DC voltmeter to TP2	L14	Adjust for 2.75 VDC $\pm$ 0.1
<b>VCO OUTPUT:</b> RX Mode, AM, Band E, CH. 1	Connect scope to TP3	L15	Adjust for max. RF
<b>PLL MIXER OSCILLATOR:</b> RX Mode, AM, Band E, CH. 1 Set Fine and coarse clarifier control to 12 o'clock position. Set clarifier switch to RX/TX	Connect Frequency Counter to TP3.	L20	AM: Adjust for 16.2700MHz $\pm$ 20 Hz.
		L21	USB: Adjust for 16.2725MHz $\pm$ 20 Hz.
		L22	LSB: Adjust for 16.2675MHz $\pm$ 20 Hz.
<b>TX OFFSET FREQUENCY:</b> Set mode to LSB RX	Connect Frequency Counter to TP3.	VR7	Key TX; Adjust for 16.2675MHz $\pm$ 20 Hz.
<b>FREQUENCY COUNTER:</b> Set mode to AM RX Band E, CH.1		VC201 on Ch Sel PCB (EPT99HP20A)	Adjust <b>VC201</b> on channel selector PCB for correct reading on frequency display.

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