

Galaxy DX Radios DX98VHP

Documentation Project

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PLL Alignment

See [Alignment Locations](#)

SETTINGS	CONNECTION	ADJUST	ADJUST FOR
10.240 MHz PLL REFERENCE: 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).
VCO VOLTAGE: RX Mode, AM, Band E, CH. 1	Connect DC voltmeter to TP2	L14	Adjust for 2.75 VDC \pm 0.1
VCO OUTPUT: RX Mode, AM, Band E, CH. 1	Connect scope to TP3	L15	Adjust for max. RF
PLL MIXER OSCILLATOR: 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.
TX OFFSET FREQUENCY: Set mode to LSB RX	Connect Frequency Counter to TP3.	VR7	Key TX; Adjust for 16.2675MHz \pm 20 Hz.
FREQUENCY COUNTER: Set mode to AM RX Band E, CH.1		VC201 on Ch Sel PCB (EPT99HP20A)	Adjust VC201 on channel selector PCB for correct reading on frequency display.

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Disclaimer: Although the greatest care has been taken while compiling these documents, we cannot guarantee that the instructions will work on every radio presented.