

Galaxy DX Radios DX44V

Documentation Project

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PLL Alignment

See [Required test equipment](#)

See [Alignment Locations](#)

SETTINGS	CONNECTION	ADJUST	ADJUST FOR
10.240 MHz PLL REFERENCE: RX Mode, AM, Freq. to 26.965MHz Band D Fine and coarse clarifier control to center detent.	Connect Frequency counter to IC5 Pin 4.		Check for 10.2400MHz $\pm$ 200 Hz. If tolerance is beyond this, replace X1 (10.240MHz).
VCO BUFFER: RX Mode, AM, Freq. to 26.965MHz Band D Fine and coarse clarifier control to center detent.	Connect scope to TP3 (top bare lead of R74)	L18	Adjust for max. RF (0.80V p-p typical).
	Connect scope to L22 secondary (bare lead of L50).	L22	Adjust for max. RF (2.0V p-p typical)
VCO: RX Mode, AM, Freq. to 26.965MHz Band D Fine and coarse clarifier control to center detent.	Connect DC voltmeter to TP2 (top bare lead of R116)	L17	Adjust for 3.20 VDC $\pm$ 0.1 Vdc. Recheck at 25.615MHz for approx 2.0V. and 28.305MHz for approx 6.0V.
PLL OFFSET OSCILLATOR: RX Mode, AM, Freq. to 26.965MHz Band D Fine and coarse clarifier control to center detent. Modes as indicated.	Connect Frequency Counter to TP3 (top bare lead of R74).	L20	AM: Adjust for 16.2700MHz $\pm$ 20 Hz. .

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