

Galaxy DX Radios DX2517

Documentation Project

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PLL Alignment

See [Alignment Location](#)

SETTINGS	CONNECTION	ADJUST	ADJUST FOR
REGULATOR VOLTAGE: RX Mode, AM, Band D, Ch. 1	Connect Voltmeter positive lead to power switch. Connect Voltmeter negative lead to PCB ground.	VR601	Adjust for 14.3 VDC
10.240 MHz PLL REFERENCE: RX Mode, AM, Band D, Ch. 1 Remove TP7-TP9 Jumper PCB.	Connect Frequency counter to IC3 Pin 4.		Check for 10.2400MHz ± 200 Hz. If tolerance is beyond this, replace X1 (10.240MHz).
VCO OUTPUT: RX Mode, AM, Band D, CH. 1	Connect scope to TP3	L15	Adjust for max. RF
VCO VOLTAGE: RX Mode, AM, Band D, CH. 1	Connect DC voltmeter to TP2	L14	Adjust for 2.75 VDC ± 0.1 Vdc. Check Band A, CH. 1 for approx. 2.0V. and Band H. CH. 40 for approx. 6.0V.
PLL MIXER OSCILLATOR: RX Mode, AM, Band D, CH. 1 Set Fine and coarse clarifier control to 12 o'clock position. Set clarifier switch to RX/TX	Connect Frequency Counter to TP3.	L17	AM: Adjust for 16.2700MHz ± 20 Hz.
		L18	USB: Adjust for 16.2725MHz ± 20 Hz.
		L19	LSB: Adjust for 16.2675MHz ± 20 Hz.
FREQUENCY COUNTER: Set mode to AM RX Band D, CH.1		VC1 on Counter PCB	Adjust VC1 on counter PCB for correct reading on display.

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