

TEST INSTRUMENTS REQUIRED	MEASUREMENT CONNECTION LOCATION
(1) AC POWER SUPPLY • Output voltage : 13.8V DC • Current capacity : 20A or more (2) OSCILLOSCOPE • Frequency range : DC ~ 20MHz • Measuring range : 0.01 ~ 10V (3) FREQUENCY COUNTER • Frequency range : 0.1 ~ 90MHz • Frequency accuracy : ±1ppm or better • Sensitivity : 100mV or better (4) RF VOLTMETER • Frequency range : 0.1 ~ 80MHz • Measuring range : 0.01 ~ 10V	

ADJUSTMENT	ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
		UNIT	LOCATION		UNIT	ADJUST
CALIBRATOR	1 • Frequency display: 8.0000MHz • LSB General mode	PLL	Connect an oscilloscope to J1 pin 5.	3V	TOP PANEL	CALIBRATOR CONTROL
REFERENCE FREQUENCY	1 • Frequency display: 8.0000MHz • LSB General mode	PLL	Connect a frequency counter to R1 (R2 side).	30.7200MHz	PLL	L2
PLL LO OUTPUT LEVEL	1 • Frequency display: 8.0000MHz • LSB General mode	PLL	Connect an RF Voltmeter to L13.	Adjust to maximum output: 400mV~1Vp-p	PLL	L8
LOCK VOLTAGE	1 • Frequency display: 8.0000MHz • LSB General mode	PLL	Connect an oscilloscope to R202.	3V	PLL	L201
	2 • Frequency display: 7.9999MHz			1.5~2V		
HPL LOCK VOLTAGE	1 • Frequency display: 7.9999MHz • LSB General mode	PLL	Connect an oscilloscope to R46.	6.5V	PLL	C78
	2 • Frequency display: 14.9999MHz • LSB General mode			C88		
	3 • Frequency display: 21.9999MHz			C97		
	4 • Frequency display: 29.9999MHz			C107		
	5 • Frequency display: 8.0000MHz			L201		
	6 • Frequency display: 15.0000MHz					
	7 • Frequency display: 22.0000MHz					
	8 • Frequency display: 7.9999MHz • LSB General mode			Connect an oscilloscope to the cathode of D8.		2.5V
2nd LO OUTPUT LEVEL	1 • Frequency display: 8.0000MHz • LSB General mode	PLL	Terminate J5 to ground with a 50Ω resistor. Connect an RF Voltmeter to J5.	Adjust to maximum output: 250~400mV rms	PLL	L3~L5
NOTE: After completing the adjustment, return J5 to its original condition.						

