

MASTR[®] Executive II **MAINTENANCE MANUAL**

30-50 MHz, 100-WATT TRANSMITTER

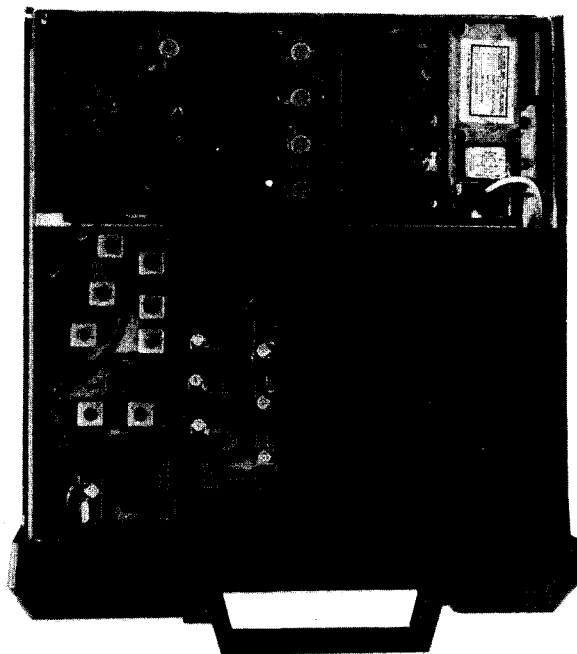


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DESCRIPTION AND MAINTENANCE	LBI30293 (DF3163)
EXCITER	LBI30045 (DF3165)
POWER AMPLIFIER	LBI30294 (DF3173)

SPECIFICATIONS*

POWER OUTPUT	Adjustable from 50 to 100 Watts
CRYSTAL MULTIPLICATION FACTOR	3
FREQUENCY STABILITY	$\pm 0.0005\%$
SPURIOUS AND HARMONIC EMISSION (Per EIA RS-152-B, Par. 4)	85 dB (minimum)
MODULATION	Adjustable from 0 to ± 5 kHz swing with instantaneous modulation limiting
MODULATION SENSITIVITY	75 to 120 Millivolts
AUDIO FREQUENCY CHARACTERISTICS	Within ± 1 to -3 dB of a 6-dB/octave pre-emphasis from 300 to 3000 Hz per EIA Standards. Post limiter filter per FCC and EIA.
DISTORTION	Less than 5% (300 to 3000 Hz)
DEVIATION SYMMETRY	0.5 kHz maximum
MAXIMUM FREQUENCY SPREAD:	
30-36 MHz	Full Specifications 0.2 MHz
36-42 MHz	1 dB Degradation 0.4 MHz
42-50 MHz	0.24 MHz 0.47 MHz
	0.28 MHz 0.54 MHz
DUTY CYCLE	EIA 20% Intermittent
RF OUTPUT IMPEDANCE	50 ohms

* These specifications are intended primarily for the use of the serviceman. Refer to the appropriate Specification Sheet for the complete specifications.

WARNING

Although the highest DC voltage supplied to the transmitter is +12 VDC, high currents can possibly heat metal objects such as tools, rings, watchbands, etc., enough to cause burns. Be careful when working near energized 12-Volt circuits!

High-level RF energy in the transmitter Power Amplifier assembly can cause RF burns upon contact. Keep away from these circuits when the transmitter is energized!