

MASTR[®] Executive II MAINTENANCE MANUAL

406-512 MHz, 40-WATT TRANSMITTER

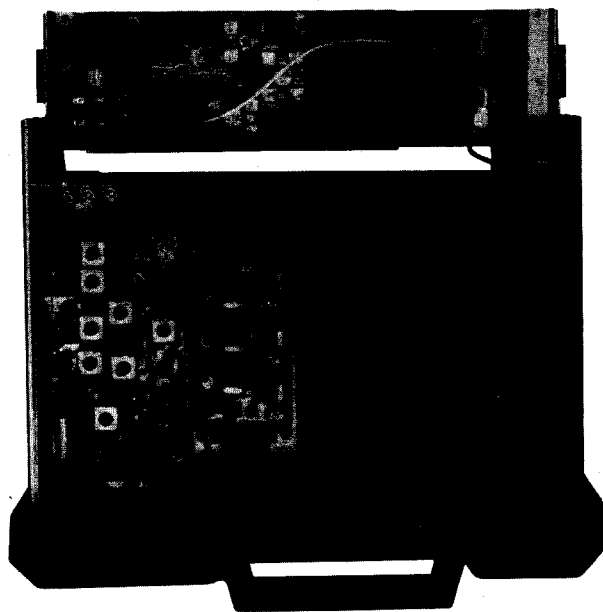


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DESCRIPTION AND MAINTENANCE	LBI30103 (DF3163)
EXCITER	LBI30060 (DF3165)
POWER AMPLIFIER	LBI30061 (DF3174)

SPECIFICATIONS*

Power Output	406 - 420 & 450 - 470 MHz (40-Watts)	Adjustable from 10 to rated power output
	420 - 450 MHz (30-Watts)	(Mobile)
	470 - 512 MHz (35 Watts)	Adjustable from 1 to rated power output
		(Station)
Crystal Multiplication Factor		36
Frequency Stability		
Crystal Module		±0.0005%
ICOM		±0.0002%
Spurious and Harmonic Emission		At least 85 dB below rated power output
Modulation		Adjustable from 0 to ±5 kHz
		swing with instantaneous modulation
		limiting.
Modulation Sensitivity		
Mobile		75 to 120 Millivolts
Station		10 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 3% (1000 Hz)
Deviation Symmetry		0.6 kHz maximum
Maximum Frequency Spread:		
		Full Specifications
		1 dB Degradation
	406-450 MHz	5.5 MHz
	450-470 MHz	5.8 MHz
	470-512 MHz	6.0 MHz
		9.00 MHz
		9.00 MHz
		9.75 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 may be drawn under short circuit conditions. These currents can possibly heat metal objects such as tools, rings, watchbands, etc., enough to cause burns. Be careful when working near energized circuits!

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

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