

MASTR[®] *Executive II* MAINTENANCE MANUAL

806-825 MHz, 35-WATT MOBILE TRANSMITTER
806-825 MHz, 25-WATT STATION TRANSMITTER

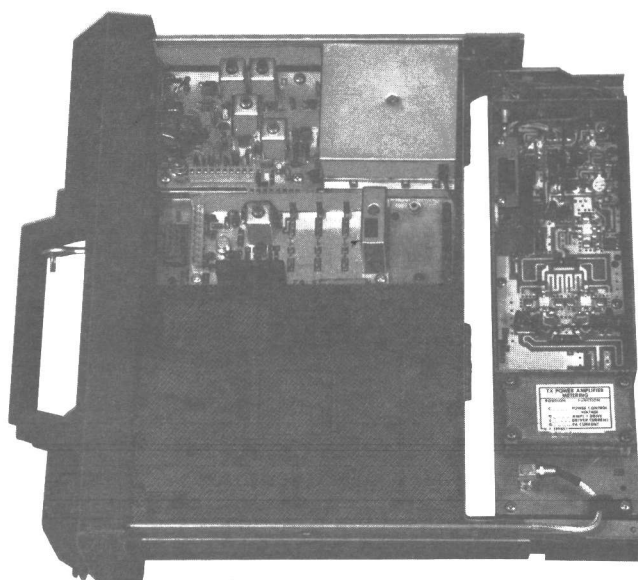


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DESCRIPTION AND MAINTENANCE	LBI30472 (DF3163)
EXCITER	LBI30462 (DF3165)
POWER AMPLIFIER	LBI30469 (DF3174)

SPECIFICATIONS*

POWER OUTPUT	Mobile: 35 Watts (Adjustable from 10 Watts to rated power output)	
	Station: 25 Watts (Adjustable from 8 Watts to rated power output)	
CRYSTAL MULTIPLICATION FACTOR	48	
FREQUENCY STABILITY	$\pm 0.0002\%$ (-30°C to $+60^{\circ}\text{C}$)	
SPURIOUS AND HARMONIC EMISSION (Per EIA RS-152-B, Par. 4)	At least 61.5 dB below full rated power output. (Conducted)	
	At least 58.5 dB below full rated power output. (Radiated)	
MODULATION	Adjustable from 0 to ± 5 kHz swing with instantaneous modulation limiting.	
MODULATION SENSITIVITY	55 to 115 Millivolts (MOBILE) 5 to 115 Millivolts (STATION)	
AUDIO FREQUENCY CHARACTERISTICS	Within +1 dB 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%	
DEVIATION SYMMETRY	0.3 kHz maximum	
MAXIMUM FREQUENCY SPREAD:	Without Center Tuning With Center Tuning -0, +3 MHz ± 3 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 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!