

CUSTOM MVP MAINTENANCE MANUAL

406-512 MHz, 20-WATT TRANSMITTER

Maintenance Manual LBI30154B
(DF3164, THIS SHEET ONLY)

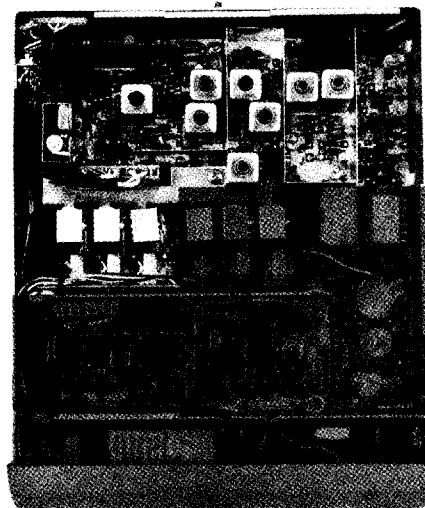
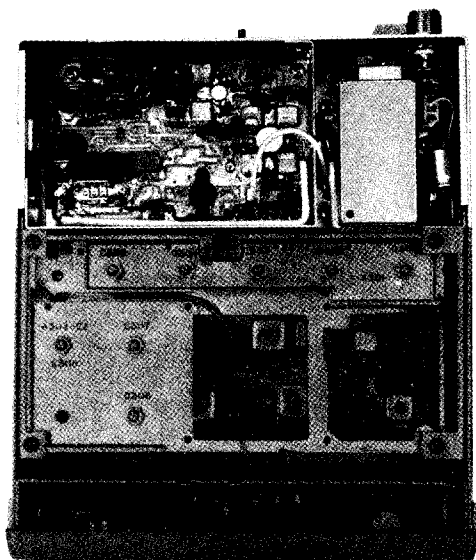


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DESCRIPTION AND MAINTENANCE	LBI30155 (DF3164)
EXCITER	LBI30060 (DF3165)
POWER AMPLIFIER	LBI30156 (DF3166)

406-512 MHz, 20-WATT
Custom MVP TRANSMITTER

SPECIFICATIONS*

FCC FILING NO.	KT-135-A(5 PPM) KT-136-C(2 PPM)	
POWER OUTPUT	20 Watts Adjustable from 10 to 20 Watts (406-494 MHz) Adjustable from 10 to 17 Watts (494-512 MHz)	
CRYSTAL MULTIPLICATION FACTOR	36	
FREQUENCY STABILITY	±0.0005%	
Crystal Module	±0.0002%	
ICOM		
SPURIOUS AND HARMONIC EMISSION	At least 70 dB below rated power output	
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 stand- ards. Post limiter filter per FCC and EIA.	
DISTORTION	Less than 5% (300 to 3000 Hz)	
DEVIATION SYMMETRY	0.6 kHz maximum	
MAXIMUM FREQUENCY SPREAD:		
	Full	1 dB
	Specifications	Degradation
406-470 MHz	5.0 MHz	9.00 MHz
470-494 MHz	5.50 MHz	9.00 MHz
494-512 MHz	6.0 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 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 contacts. Keep away from these circuits when the transmitter is energized!