

CUSTOM **MVP** MAINTENANCE MANUAL

138-174 MHz, 25-WATT TRANSMITTER

(DF3164, THIS SHEET ONLY)

Maintenance Manual LBI30141B

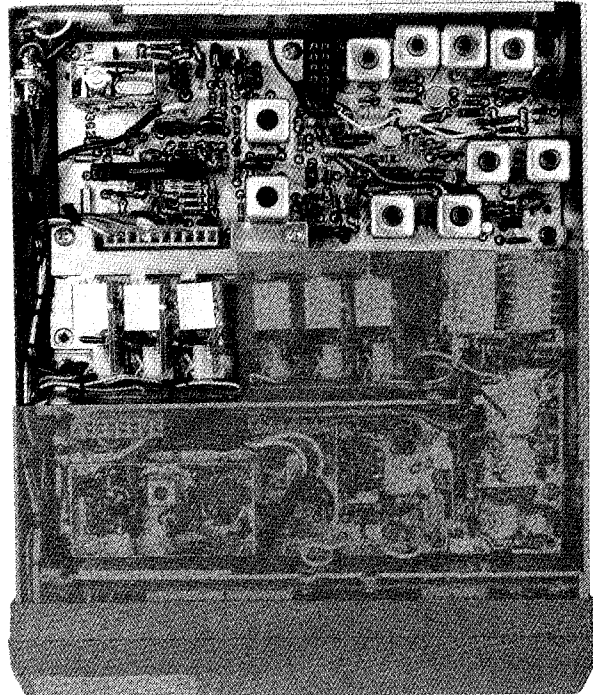
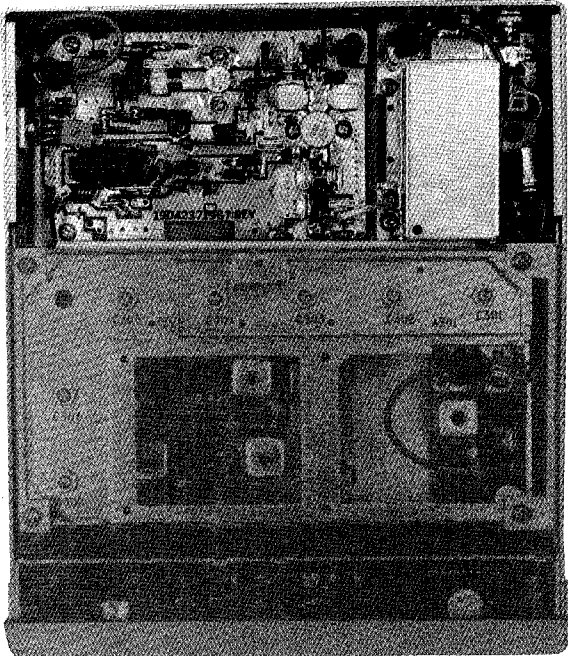


TABLE OF CONTENTS

SPECIFICATIONS	ii
DESCRIPTION AND MAINTENANCE	LBI30142 (DF3164)
EXCITER	LBI30053 (DF3165)
POWER AMPLIFIER	LBI30143 (DF3166)

**138-174 MHz, 25-WATT
Custom MVP TRANSMITTER**

SPECIFICATIONS*

FCC FILING NO.	KT-134-A									
Power Output	25 Watts (Adjustable from 8 to 25 Watts)									
Crystal Multiplication Factor	12									
Frequency Stability	$\pm 0.0005\%$									
Spurious and Harmonic Emission	-60 dB									
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:	<table> <thead> <tr> <th></th> <th>Full Specifications</th> <th>1 dB Degradation</th> </tr> </thead> <tbody> <tr> <td>138-155 MHz</td> <td>1.8 MHz</td> <td>2.25 MHz</td> </tr> <tr> <td>150.8-174 MHz</td> <td>2.0 MHz</td> <td>2.5 MHz</td> </tr> </tbody> </table>		Full Specifications	1 dB Degradation	138-155 MHz	1.8 MHz	2.25 MHz	150.8-174 MHz	2.0 MHz	2.5 MHz
	Full Specifications	1 dB Degradation								
138-155 MHz	1.8 MHz	2.25 MHz								
150.8-174 MHz	2.0 MHz	2.5 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!