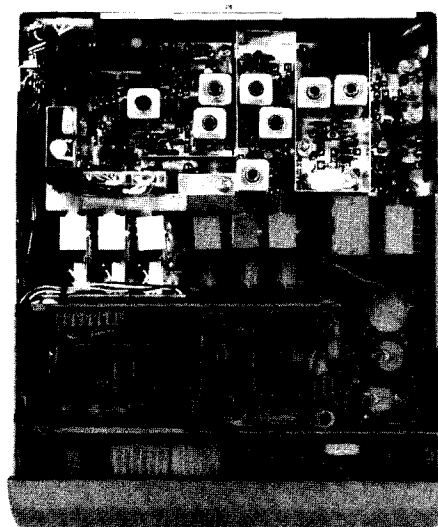
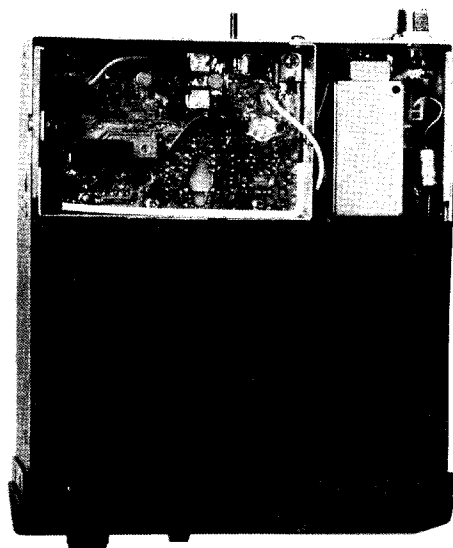


# CUSTOM **MVP** **MAINTENANCE MANUAL**

450-512 MHz, 5-WATT TRANSMITTER

**Maintenance Manual LBI30393B**  
(DF3164, THIS SHEET ONLY)



## TABLE OF CONTENTS

SPECIFICATIONS .....	
DESCRIPTION AND MAINTENANCE .....	LBI30394 (DF3164)
EXCITER .....	LBI30060 (DF3165)
POWER AMPLIFIER .....	LBI30395 (DF3174)

**450-512 MHz, 5-WATT Custom MVP TRANSMITTER**

## SPECIFICATIONS\*

POWER OUTPUT	5 Watts Adjustable from 1.5 to 5 Watts (450-494 MHz) Adjustable from 1.5 to 4.5 Watts (494-512 MHz)
CRYSTAL MULTIPLICATION FACTOR	36
FREQUENCY STABILITY Crystal Module ICOM	$\pm 0.0005\%$ $\pm 0.0002\%$
SPURIOUS AND HARMONIC EMISSION (Per EIA RS-152-B, Para. 4)	At least 70 dB below rated power output
MODULATION	Adjustable from 0 to $\pm 5$ 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	0.6 kHz maximum
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 contact. Keep away from these circuits when the transmitter is energized!

GENERAL ELECTRIC COMPANY • MOBILE COMMUNICATIONS DIVISION  
WORLD HEADQUARTERS • LYNCHBURG, VIRGINIA 24502 U.S.A.

**GENERAL  ELECTRIC**  
U.S.A.