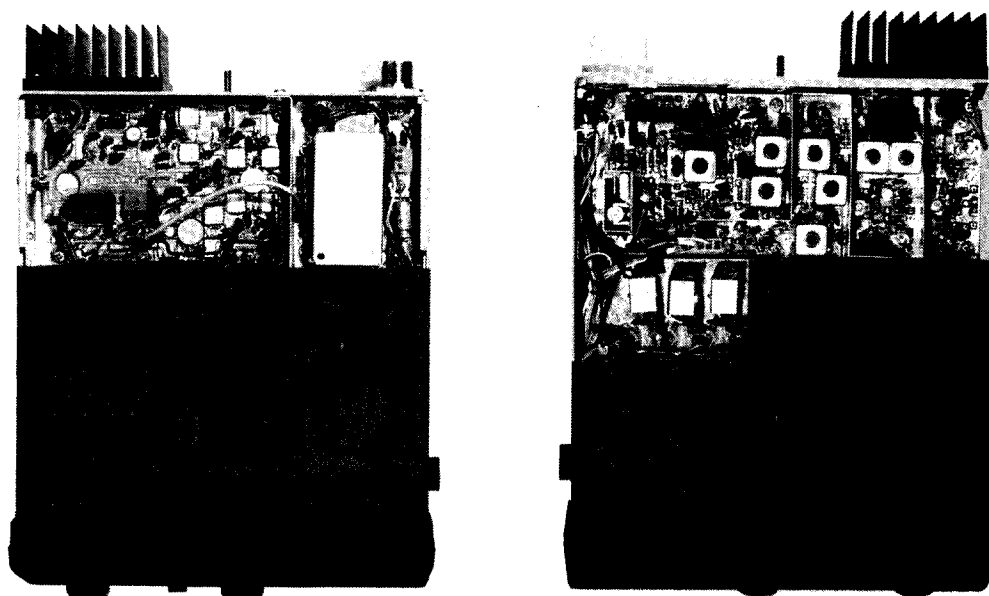


# CUSTOM **MVP** MAINTENANCE MANUAL

406-512 MHz, 35 WATT TRANSMITTER

**Maintenance Manual LBI30564 B**  
(DF3164, THIS SHEET ONLY)

**406-512 MHz 35-WATT Custom MVP TRANSMITTER**



## TABLE OF CONTENTS

SPECIFICATIONS .....	ii
DESCRIPTION AND MAINTENANCE .....	LBI30587 (DF3164)
EXCITER .....	LBI30060 (DF3165)
POWER AMPLIFIER .....	LBI30586 (DF3174)

## SPECIFICATIONS\*

FCC FILING NUMBER	KT-161-A, C	
POWER OUTPUT	35-Watts Adjustable from 20 to 35 Watts (406-494 MHz) Adjustable from 20 to 30 Watts (494-512 MHz)	
CRYSTAL MULTIPLICATION FACTOR	36	
FREQUENCY STABILITY		
Crystal Module	±0.0005%	
ICOM	±0.0002%	
SPURIOUS AND HARMONIC EMISSION (Per EIA RS-152-B, Part 4)	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 Specifications	1 dB Degradation
406-420 MHz	5.0 MHz	9.00 MHz
450-470 MHz	5.50 MHz	9.00 MHz
470-512 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 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 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.