

# CUSTOM **MVP** MAINTENANCE MANUAL

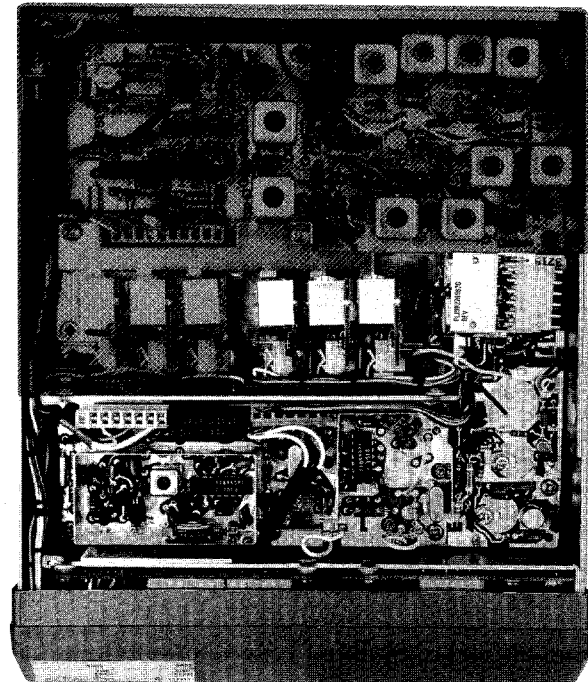
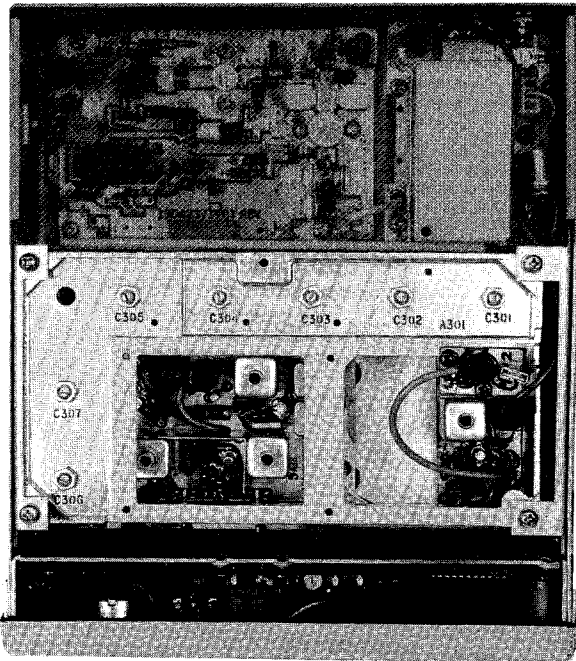
**138-174 MHz RECEIVER**

(Noise Blanker version is LBI-30149)

**Maintenance Manual**  
(DF1113, THIS SHEET ONLY)

**LBI30145A**

**138-174 MHz Custom MVP RECEIVER**



## TABLE OF CONTENTS

SPECIFICATIONS .....	ii
DESCRIPTION AND MAINTENANCE .....	LBI30146 (DF1113)
RF ASSEMBLY AND MIXER/IF BOARD .....	LBI4980 (DF1107)
OSCILLATOR/MULTIPLIER .....	LBI30147 (DF1106)
IF-DETECTOR .....	LBI30049 (DF1105)

## SPECIFICATIONS\*

Audio Output (to 3.2-ohm Speaker)	3 Watts at less than 5% distortion	
	<u>Standard Receiver</u>	<u>Ultra-High Sensitivity Receiver</u>
Sensitivity		
12-dB SINAD (EIA Method)	0.35 $\mu$ V	0.175 $\mu$ V
20-dB Quieting Method	0.50 $\mu$ V	0.25 $\mu$ V
Selectivity		
EIA Two-Signal Method	-95 dB	-90 dB
Spurious Response	-100 dB	-95 dB
Intermodulation (EIA)	-85 dB	-80 dB
Frequency Stability	$\pm$ 0.0005%	
Modulation Acceptance	$\pm$ 7 kHz	
Squelch Sensitivity		
Fixed Squelch	6 dB SINAD	
Maximum Frequency Separation	<u>Full Specifications</u>	<u>3 dB Degradation</u>
138-155 MHz	0.900 MHz	1.60 MHz
150.8-174 MHz	1.0 MHz	1.80 MHz
Frequency Response	Within +1 and -8 dB of a standard 6-dB per octave de-emphasis curve from 300 to 3000 Hz (1000-Hz reference)	
RF Input 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 in Custom MVP Mobile Equipment 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!