

MASTR® II MAINTENANCE MANUAL

66-88 MHz RECEIVER

Maintenance Manual LBI 30611
(DF1100, THIS SHEET ONLY)

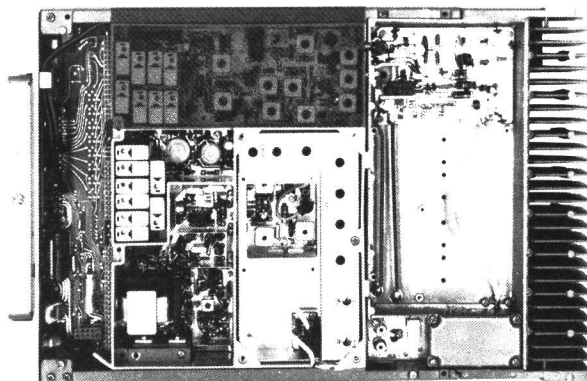


TABLE OF CONTENTS

SPECIFICATIONS	ii
DESCRIPTION AND MAINTENANCE	LBI30612 (DF1100)
RF AMPLIFIER, MIXER/IF ASSEMBLY	LBI30555 (DF1107)
OSCILLATOR/MULTIPLIER BOARD	LBI30613 (DF1106)
IF AUDIO & SQUELCH BOARD	LBI4986 (DF1105)

**66-88 MHz OSC/MULT 19D424813G1-4, MIF 19C327413G1-2
RECEIVER RF ASM 19D416478G8-9, IFAS 19D417707G1-2**

SPECIFICATIONS*

Audio Output (to 8-ohm Speaker)	12 Watts at less than 3% distortion	
Sensitivity		
12-dB SINAD (EIA Method)	0.25 μ V	
20-dB Quieting Method	0.35 μ V	
SELECTIVITY		
EIA Two-Signal Method	-100 dB (adjacent channel, 20 kHz Channels)	
Spurious Response	-100 dB	
Frequency Stability		
5C-ICOM with EC-ICOM	$\pm 0.0005\%$ (-40°C to $+70^{\circ}\text{C}$)	
5C-ICOM or EC-ICOM	$\pm 0.0002\%$ (0°C to $+55^{\circ}\text{C}$)	
2C-ICOMS	$\pm 0.0002\%$ (-40°C to $+70^{\circ}\text{C}$)	
Modulation Acceptance	± 7 kHz (narrow-band)	
Squelch Sensitivity		
Critical Squelch	0.15 μ V	
Maximum Squelch	Greater than 20 dB quieting (less than 1.5 μ V)	
Intermodulation (EIA)	-80 dB	
Maximum Frequency Separation	<u>Full Specifications</u>	<u>3 dB Degradation</u>
66-78 MHz	0.50 MHz	1.0 MHz
77-88 MHz	0.58 MHz	1.0 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 MASTR® II Mobile Equipment is supplied by the vehicle battery, 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!