MOBILE RADIO

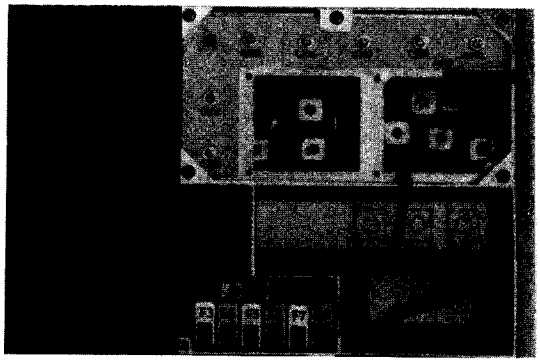
MASTR® II MAINTENANCE MANUAL

138-174 MHz DUAL FRONT END (WITH NOISE BLANKER)

OPTION 9201 (matching IF Freq.)

OPTION 9202 (non-matching IF Freq.)

(Non-NB version is LBI-30024)



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Maintenance Manual LBI30023 B

(DF1110, THIS SHEET ONLY)
(Supersedes LBI4776)

DUAL FRONT END 138-174 MHz (WITH NOISE BLANKER)

GENERAL ELECTRIC

SPECIFICATIONS*

SENSITIVITY		
DFE	12-dB SINAD	0.20 μV
	20-dB Quieting Method	0.275 μV
RECEIVER		Sensitivity degraded not more than 1 dB from standard Receiver Specifications
SELECTIVITY		
	EIA Two-Signal Method	-100 dB
	20 dB Quieting Method	-100 dB
INTERMODULATION (EIA)		-75 dB
SPURIOUS RESPONSE		-95 dB
MODULATION ACCEPTANCE		±7 kHz (narrow-band)
FREQUENCY STABILITY		
	5C-ICOM with EC-ICOM	±0.0005% (-40°C to +70°C)
	5C-ICOM or EC-ICOM	±0.0002% (0°C to +55°C)
	2C-ICOMS	±0.0002% (-40°C to +70°C)

MAXIMUM FREQUENCY SEPARATION (Multi-Frequency Units)	Full Specifications	3 dB Degradation
138-155 MHz	.900 MHz	1.60 MHz
150.8-174 MHz	1.0 MHz	1.80 MHz

RF INPUT IMPEDANCE	50 ohms
CURRENT DRAIN (TYPICAL)	Non-matching IF's - 100 mA Matching IF's - 75 mA

* These specifications are intended primarily for the use of the serviceman. Refer to the appropriate Specification Sheet for the complete specifications.

COMBINATION NOMENCLATURE

1st Digit Frequency Capability	2nd Digit Options	3rd Digit Frequency Range	4th Digit Oscillator Stability
A 1-Freq.	**N** Noise Blanker	**56** 138-155 MHz	**A** ±5 PPM (±0.0005%)
D 2-Freq.		**66** 150.8-174 MHz	**B** ±2 PPM (±0.0002%)
E 3-Freq.			
F 4-Freq.			
G 5-Freq.			
H 6-Freq.			
J 7-Freq.			

WARNING

Although the highest DC voltage in the MASTR II receiver is +12 Volts DC, high current 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. KEEP AWAY FROM THESE CIRCUITS WHEN THE TRANSMITTER IS ENERGIZED!