

MASTR[®] Executive II MAINTENANCE MANUAL

138-174 MHz RECEIVER

(Noise Blanker version is LBI-30056)

Maintenance Manual LBI30055 D
(DF1112, THIS SHEET ONLY)

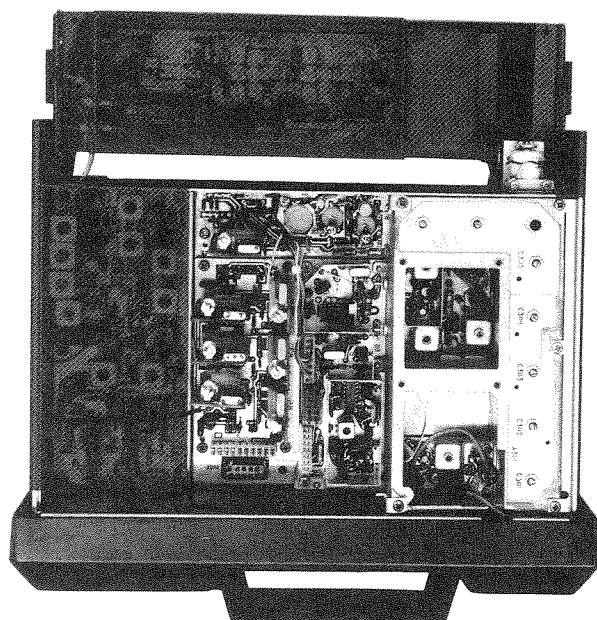


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DESCRIPTION AND MAINTENANCE	LBI30130 (DF1112)
RF ASSEMBLY AND MIXER/IF BOARD	LBI4980 (DF1107)
OSCILLATOR/MULTIPLIER	LBI30057 (DF1106)
IF-DETECTOR	LBI30049 (DF1105)

138-174 MHz MASTR EXECUTIVE II RECEIVER

SPECIFICATIONS*

Audio Output (to 3.2 ohm Speaker)	5 Watts at less than 5% distortion		
Sensitivity	<u>Standard Receiver</u>	<u>Ultra-High Sensitivity Receiver</u>	<u>RCC & IMTS Receiver</u>
12 dB SINAD (EIA Method)	0.35 μV	0.175 μV	0.5 μV
20 dB Quieting Method	0.50 μV	0.25 μV	0.63 μV
Selectivity			
EIA Two-Signal Method	-90 dB	-90 dB	-90 dB
Spurious Response	-100 dB	-95 dB	-100 dB (TX Unkeyed) -85 dB (TX Keyed)
Intermodulation (EIA)	-85 dB	-80 dB	-80 dB
Frequency Stability	±0.0005%		±0.0005%
Modulation Acceptance	±7 kHz		±7 kHz
Squelch Sensitivity			
Fixed Squelch	4 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 (100 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 Executive 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!

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

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