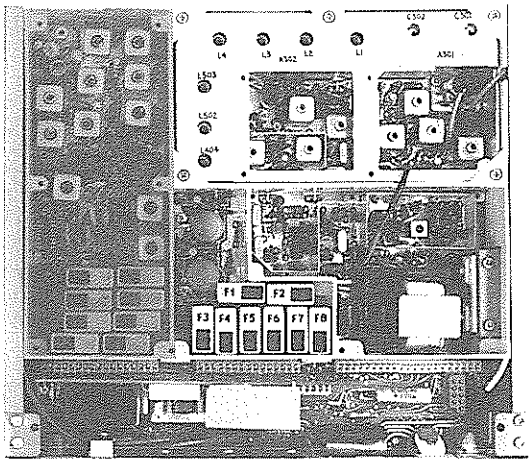
MOBILE RADIO

MASTR® II MAINTENANCE MANUAL

25-50 MHz RECEIVER (WITH NOISE BLANKER)

(Non-NB version is LBI-30019)

Maintenance Manual LBI3020 B
(DF1100, THIS SHEET ONLY)
(Supersedes LBI4588)



25-50 MHz OSC/MULT 19D423078G1-8, MIF/NB 19D416562G1-4
RECEIVER RF ASM 19D416478G1-4, IFAS 19D417707G1,2

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SPECIFICATIONS*

Audio Output (to 8-ohm Speaker)	12 Watts at less than 3% distortion
Sensitivity	
12-dB SINAD (EIA Method)	0.25 μV
20-dB Quieting Method	0.35 μV
SELECTIVITY	
EIA Two-Signal Method	-100 dB (adjacent channel, 20 kHz Channels)
Spurious Response	-100 dB
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)
Modulation Acceptance	±6.5 kHz (narrow-band)
Squelch Sensitivity	
Critical Squelch	0.15 μV
Maximum Squelch	Greater than 20 dB quieting (less than 1.5 μV)
Intermodulation (EIA)	-80 dB

Maximum Frequency Separation

	Full Specifications	3 dB Degradation
25-36 MHz	.120 MHz	.340 MHz
36-42 MHz	.160 MHz	.400 MHz
42-50 MHz	.360 MHz	.640 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 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.

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

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U.S.A.

