

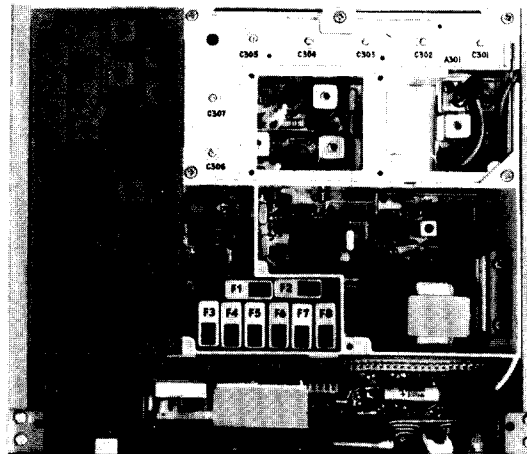


## ***GE Mobile Communications***

# **MASTR® II RECEIVER**

**138-174 MHz**

(Noise Blanker version is LBI-30028)



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## SPECIFICATIONS\*

Audio Output (to 8-ohm Speaker)	12 Watts at less than 3% distortion	
Sensitivity	<u>With Pre-Ampl</u>	<u>Without Pre-Ampl</u>
12-dB SINAD (EIA Method)	0.175 $\mu$ V	0.35 $\mu$ V
20-dB Quieting Method	0.25 $\mu$ V	0.50 $\mu$ V
SELECTIVITY		
EIA Two-Signal Method	-95 dB	-100 dB
20-dB Quieting Method		-100 dB
Spurious Response	-95 dB	-100 dB
Intermodulation (EIA)	-80 dB	-85 dB
Frequency Stability		
5C-ICOM with EC-ICOM	$\pm 0.0005\%$ ( $-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ )	
5C-ICOM or EC-ICOM	$\pm 0.0002\%$ ( $0^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ )	
2C-ICOMS	$\pm 0.0002\%$ ( $-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ )	
Modulation Acceptance	$\pm 7$ kHz (narrow-band)	
Squelch Sensitivity		
Critical Squelch	0.2 $\mu$ V	
Maximum Squelch	Greater than 20 dB quieting (less than 1.5 $\mu$ V)	
Maximum Frequency Separation	<u>Full Specifications</u>	<u>3 dB Degradation</u>
138-155 MHz	.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 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!

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