(DF1110, THIS SHEET ONLY)
(Supersedes LBI4707)

MASTR II MAINTENANCE MANUAL

30-50 MHz DUAL FRONT END OPTION 9201 (matching IF Freq.) OPTION 9202 (non-matching IF Freq.)

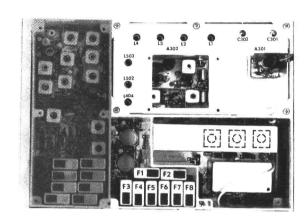


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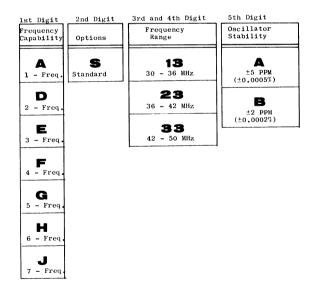
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DESCRIPTION AND MAINTENANCE	LBI30107 (DF1110)
RP MIXER ASSEMBLY AND MIXER IF BOARD	LBI 4989 (DF1107)
OSCILLATOR/MULTIPLIER BOARD	LBI 4993 (DF1106)
RF STEERING AND MIF SWITCH/2nd CONVERTER BOARDS	LBI30038 (DF1110)

SPECIFICATIONS*

Frequency Range		30 - 50 MHz	
Sensitivity			
DFE 12-dB SINAD (EIA Method) 20-dB Quieting Method		0.275 μV 0.385 μV	
Receiver		Sensitivity degraded not m From STANDARD RECEIVER Spe	nore than 1 dB ecifications
Selectivity EIA Two-Signal Method 20-dB Quieting Method		-100 dB (adjacent channel, -100 dB at ±15 kHz	20 kHz Channels)
Spurious Response		-100 dB	
Frequency Stability 5C-ICOM with EC-ICOM 5C-ICOM or EC-ICOM 20-ICOMS		±0.0005% (-40°C to +70°C) ±0.0002% (0°C to +55°C) ±0.0002% (-40°C to +70°C)	
Modulation Acceptance		±6.5 kHz (narrow-band)	
Maximum Frequency Separation (Multi-Frequency Units)	<u>Full</u>	Specifications	3 dB Degradation
30-36 MHz 36-42 MHz 42-50 MHz		0.120 MHz 0.160 MHz 0.360 MHz	0.340 MHz 0.400 MHz 0.640 MHz
RF Input Impedance		50 ohms	
Intermodulation (EIA)		-80 dB	
Current Drain (Typical)		Non-Matching IF's - 90 mA Matching IF's - 65 mA	

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

COMBINATION NOMENCLATURE



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!