

MAINTENANCE MANUAL

138-174 MHz MONITOR RECEIVER



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SYSTEM BOARD & ASSOCIATED ASSEMBLIES	LBI30665 (DF4101)
MAINTENANCE	LBI30666 (DF1120)
RF ASSEMBLY & MIXER/IF	LBI4980 (DF1107)
OSCILLATOR/MULTIPLIER	LBI30147 (DF1106)
IF-DETECTOR	LBI30049 (DF1105)

SPECIFICATIONS*

Dimensions		
Height	3.5 inches (8.89 cm)	
Width	8.4 inches (21.34 cm)	
Depth	10.6 inches (26.92 cm)	
Weight	9.25 pounds (4.2 Kg)	
Input Power	15 Watts	
Input Voltage	121/242 VAC, 50/60 Hz	
Regulated DC Voltages	15 VDC @ 0.8 Amperes 10 VDC @ 0.250 Amperes	
Current Drain (@ 121 VDC)		
Standby	0.05 Amperes	
Receive	0.12 Amperes	
Audio Output (to 3.2-ohm Speaker)	3 watts at less than 5% distortion	
Sensitivity	<u>Standard Receiver</u>	<u>Ultra-High Sensitivity Receiver</u>
12-dB SINAD (EIA Method)	0.35 μ V	0.175 μ V
20-dB Quieting Method	0.50 μ V	0.25 μ V
Selectivity		
EIA Two-Signal Method	-90 dB	-90 dB
Spurious Response	-100 dB	-95 dB
Intermodulation (EIA)	-85 dB	-80 dB
Frequency Stability	$\pm 0.0005\%$	
Modulation Acceptance	± 7 kHz	
Squelch Sensitivity		
Fixed Squelch	6 dB SINAD	
Temperature Range	-30°C to +60°C (-22°F to +140°F)	
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 (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

No one should be permitted to handle any portion of the equipment that is supplied with high voltage; or to connect any external apparatus to the units while the units are supplied with power. KEEP AWAY FROM LIVE CIRCUITS!