

MAINTENANCE MANUAL

30-50 MHz MONITOR RECEIVER



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SYSTEM BOARD & ASSOCIATED ASSEMBLIES	LBI30665 (DF4101)
MAINTENANCE	LBI30681 (DF1120)
RF ASSEMBLY & MIXER/IF	LBI4989 (DF1107)
OSCILLATOR/MULTIPLIER	LBI30160 (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 least 5% distortion	
Sensitivity		
12-dB SINAD (EIA Method)	0.25 μ V	
20-dB Quieting Method	0.35 μ V	
Selectivity		
EIA Two-Signal Method	-95 @ $\pm$ 20 kHz	
Spurious Response	-100 dB	
Intermodulation (EIA)	-80 dB	
Frequency Stability	$\pm$ 0.0005%	
Modulation Acceptance	$\pm$ 6.5 kHz	
Squelch Sensitivity (Fixed)	6 dB SINAD	
Temperature Range	-30°C to +60°C (-22°F to +140°F)	
Maximum Frequency Separation (Multi-Frequency Units)	<u>Full Specifications</u>	<u>3 dB Degradation</u>
30-36 MHz	0.120 MHz	0.340 MHz
36-42 MHz	0.160 MHz	
42-50 MHz	0.360 MHz	0.640 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 use of the serviceman. Refer to the appropriate Specifications 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!