MASTR II MAINTENANCE MANUAL

138-174 MHz, 65-WATT TRANSMITTER-MOBILE AND STATION

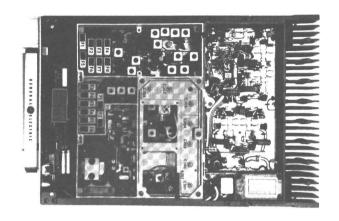


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| DESCRIPTION AND MAINTENANCE | LBI30432 (DF3156) |
| EXCITER | LBI 30422 (DF3165) |
| POWER AMPLIFIER | LBI30413 (DF3166) |

SPECIFICATIONS*

Power Output 65 Watts (Adjustable from 20 to 65 Watts)

Crystal Multiplication Factor 12

Frequency Stability

Spurious and Harmonic Emission At least 85 dB below full rated power output.

Modulation Adjustable from 0 to ±5 kHz swing with instantaneous modulation limiting.

Modulation Sensitivity 75 to 120 Millivolts

Audio Frequency Characteristics Within +1 dB to -3 dB of a 6-dB/ octave pre-emphasis from 300 to 3000 Hz per EIA standards. Post limiter filter per FCC

and EIA.

1 dB

Distortion Less than 2% (1000 Hz)

Deviation Symmetry 0.05 kHz maximum

Maximum Frequency Spread:

Duty Cycle EIA 20% Intermittent

RF Output 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 applied to the MASTR II transmitter 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 12 Volt circuits!

High-level RF energy in the transmitter Power Amplifier assembly can cause RF burns upon contact. Keep away from these circuits when the transmitter is energized!