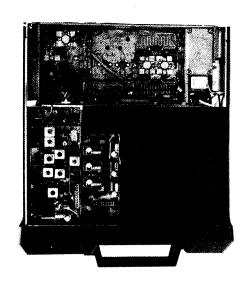
## MASTR® Executive II MAINTENANCE MANUAL

406-420 & 450-512 MHz, 75-WATT TRANSMITTER



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DESCRIPTION AND MAINTENANCE	LBI30274 (DF3163)
EXCITER	LBI30060 (DF3165)
POWER AMPLIFIER	LBI30209

## SPECIFICATIONS\*

Power	Output
LOWCI	Julipul

406-420 MHz 75 Watts (Adjustable from 20 to 75 Watts)

450-470 MHz 75 Watts (Adjustable from 20 to 75 Watts)

470-494 MHz 65 Watts (Adjustable from 20 to 65 Watts)

494-512 MHz 65 Watts (Adjustable from 20 to 65 Watts)

Crystal Multiplication Factor

Frequency Stability

Crystal Module

Spurious and Harmonic Emission

(Per EIA RS-152-B, Para. 4)

Modulation

Modulation Sensitivity

Mobile

Audio Frequency Characteristics

Distortion

Deviation Symmetry

Maximum Frequency Spread

450-470 MHz 470-494 MHz 494-512 MHz

Duty Cycle

RF Output Impedance

±0.0005%

At least 85 dB below full rated power output.

Adjustable from 0 to ±5 kHz swing with instan-

taneous modulation limiting.

75 to 120 Millivolts

Within +1 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.

Less than 3% (1000 Hz) Less than 5% (300 to 3000 Hz)

0.6 kHz maximum

Full Specifications

5.5 MHz

5.8 MHz

6.0 MHz

1 dB Degradation

9.00 MHz

9.00 MHz 9.75 MHz

EIA 20% Intermittent

50 Ohms

## ----- ₩ARNING -

Although the highest DC voltage supplied to the transmitter is +12 VDC, high currents 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!

<sup>\*</sup>These specifications are intended primarily for the use of the serviceman. Refer to the appropriate Specification Sheet for the complete specifications.