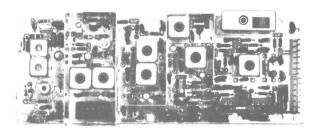
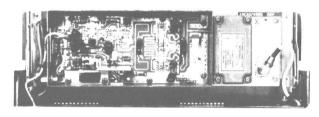


## MASTR<sup>®</sup>II MAINTENANCE MANUAL

851-870 MHz, 35 WATT TRANSMITTER







**POWER AMPLIFIER** 

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DESCRIPTION AND MAINTENANCE	LBI30856 (DF3158)
EXCITER	LBI30488 (DF3165)
POWER AMPLIFIER	LBI30857 (DF3174)

FCC FILING

## SPECIFICATIONS\*

POWER OUTPUT 35 Watts (Adjustable from 7 watts to rated power output)

KT-185-A

CRYSTAL MULTIPLICATION FACTOR 48

 $\pm 0.0001\%$  (-30°C to +60°C) FREQUENCY STABILITY

SPURIOUS AND HARMONIC EMISSION At least 61.5 dB below full rated power

output. (Conducted) (Per EIA RS-152-B, Par. 4)

At least 58.5 dB below full rated power

output. (Radiated)

MODULATION Adjustable from 0 to ±5 kHz swing with

instantaneous modulation limiting.

MODULATION SENSITIVITY 5 to 115 Millivolts

AUDIO FREQUENCY CHARACTERISTICS Within +1 dB to -3 dB of a 6 dB/octave preemphasis from 300 to 3000 Hz per EIA stand-

ards. Post limiter filter per FCC and EIA.

DISTORTION Less than 3%

DEVIATION SYMMETRY 0.5 kHz maximum

DUTY CYCLE Continuous

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 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 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!

> GENERAL ELECTRIC COMPANY • MOBILE COMMUNICATIONS DIVISION WORLD HEADQUARTERS • LYNCHBURG, VIRGINIA 24502 U.S.A.

