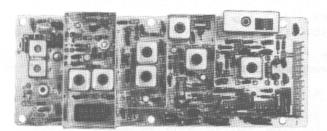
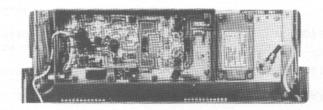


MASTR[®]II MAINTENANCE MANUAL

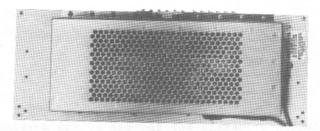
851-870 MHz, 80 WATT TRANSMITTER







DRIVER PA



POWER AMPLIFIER

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DESCRIPTION AND MAINTENANCE	LBI31502
EXCITER	LBI30488
DRIVER PA	LBI30857
POWER AMPLIFIER	LBI31425

SPECIFICATIONS*

POWER OUTPUT

80 Watts (Adjustable from 30 watts to

rated power output)

FCC FILING

KT-189-A

CRYSTAL MULTIPLICATION FACTOR

48

FREQUENCY STABILITY

+0.0001% (-30°C to +60°C)

SPURIOUS AND HARMONIC EMISSION (Per EIA RS-152-B, Par. 4)

At least 66.0 dB below full rated power

output. (Conducted)

At least 63.0 dB below full rated power

output. (Radiated)

MODULATION

Adjustable from 0 to +5 kHz swing with

instantaneous modulation limiting.

MODULATION SENSITIVITY

50 to 115 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.

DISTORTION

Less than 2%

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!

 $\label{thm:migh-level} \textbf{RF energy in the transmitter Power Amplifier assembly can cause}$ RF burns upon contact. KEEP AWAY FROM THESE CIRCUITS WHEN THE TRANSMMITTER IS ENERGIZED!

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

