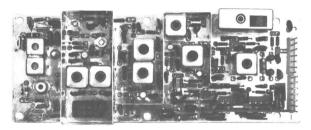
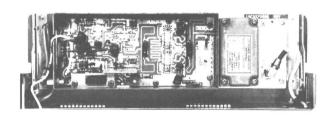
MASTR[®]II MAINTENANCE MANUAL

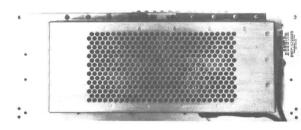
851-870 MHz, 90 WATT TRANSMITTER







DRIVER PA



POWER AMPLIFIER

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DESCRIPTION AND MAINTENANCE	LBI31032 (DF3158)
EXCITER	LBI30488 (DF3165)
DRIVER PA	LBI30857 (DF3174)
POWER AMPLIFIER	LBI31033 (DF3174)

FCC FILING

SPECIFICATIONS*

90 Watts (Adjustable from 30 watts to POWER OUTPUT rated power output)

KT-189-A

48 CRYSTAL MULTIPLICATION FACTOR

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

SPURIOUS AND HARMONIC EMISSION At least 61.5 dB below full rated power (Per EIA RS-152-B, Par. 4) output. (Conducted)

At least 58.5 dB below full rated power

output. (Radiated)

Adjustable from 0 to ± 5 kHz swing with MODULATION 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!

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.

