

MASTR Executive II MAINTENANCE MANUAL

806-825 MHz,10-WATT MOBILE TRANSMITTER

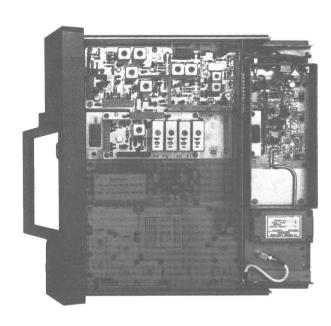


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DESCRIPTION AND MAINTENANCE	LBI30641 (DF3163)
EXCITER	LBI30462 (DF3165)
POWER AMPLIFIER	LBI30642 (DF3166)

SPECIFICATIONS*

POWER OUTPUT

10-Watts

CRYSTAL MULTIPLICATION FACTOR

48

FREQUENCY STABILITY

 $\pm 0.0002\%$ (-30°C to +60°C)

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

At least 56.0 dB below full rated

power output. (Conducted)

At least 53.0 dB below full rated

power output. (Radiated)

MODULATION

Adjustable from 0 to ±5 kHz swing with

instantaneous modulation limiting.

MODULATION SENSITIVITY

55 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 3%

DEVIATION SYMMETRY

0.3 kHz maximum

MAXIMUM FREQUENCY SPREAD:

Without center tuning With center tuning

±1.5 MHz

DUTY CYCLE

EIA 20% Intermittent

continuous at 22° Ambient

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 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!