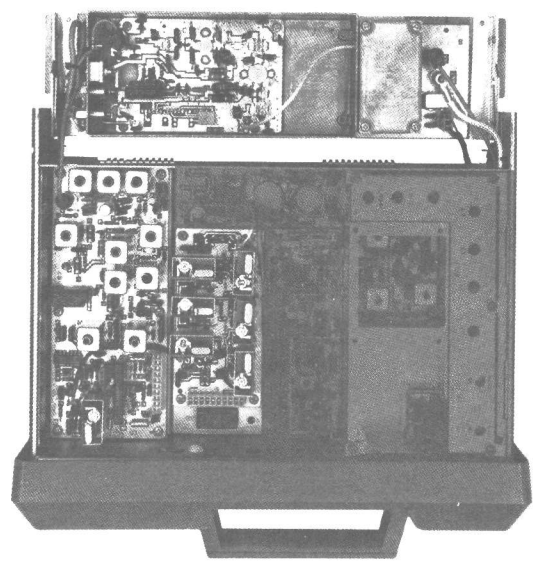


# MASTR<sup>®</sup> *Executive II* MAINTENANCE MANUAL

66-88 MHz, 25-WATT TRANSMITTER MOBILE AND STATION



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## SPECIFICATIONS\*

POWER OUTPUT	Adjustable from 8 to 25 Watts						
CRYSTAL MULTIPLICATION FACTOR	3						
FREQUENCY STABILITY	$\pm 0.0005\%$						
SPURIOUS AND HARMONIC EMISSION	85 dB (minimum)						
MODULATION	Adjustable from 0 to $\pm 5$ kHz swing with instantaneous modulation limiting						
MODULATION SENSITIVITY							
Mobile	75 to 120 Millivolts						
Station	10 to 120 Millivolts						
AUDIO FREQUENCY CHARACTERISTICS	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.						
DISTORTION	Less than 5% (300 to 3000 Hz)						
DEVIATION SYMMETRY	0.5 kHz maximum						
MAXIMUM FREQUENCY SPREAD:							
66-88 MHz	<table> <tr> <td>Full</td><td>1 dB</td></tr> <tr> <td>Specifications</td><td>Degradation</td></tr> <tr> <td>1.0 MHz</td><td>1.5 MHz</td></tr> </table>	Full	1 dB	Specifications	Degradation	1.0 MHz	1.5 MHz
Full	1 dB						
Specifications	Degradation						
1.0 MHz	1.5 MHz						
DUTY CYCLE	EIA 20% Intermittent						
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!