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9. LIST OF DRAWINGS

Block Diagram	D03-00079
Circuit Diagram	B04-00102 (1KW)
Circuit Diagram	B04-00313 (500W)
Power Supply CCT	C04-00103 (1KW)
Power Supply CCT	C04-00549 (500W)
<u>Assembly Drawings</u>	
SWR Bridge	E08-00145
Diode Matrix	D08-00146
Load, ALC & DET	D08-00147 - 00750) Serial No's
Servo AMP	D08-00148 - 00751) 44 onwards
Bias Regulator	D08-00149
Minor HT Regualtor	D08-00150
Relay Interlock	D08-00151
Driver Stage	D08-00161
Transmitter Cabinet Loom	D08-00577
Tuning Chart (Grid)	10-00027 (1KW)
Tuning Chart (PA)	10-00028 (1KW)
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1. GENERAL INFORMATION

1.1 Introduction

The type 7010 LINEAR AMPLIFIER is intended for use as a base HF SSB/AM transmitter, driven by a type 7021 HF SSB/AM EXCITER, housed in the same cabinet. Output powers of 1 KW PEP or 500W PEP versions are available (others to special order). The transmitters are either single channel or multi-channel (up to six), the single channel being manually tuned. The multi-channel transmitters are automatically servo-tuned on channel change. Both version are pre-wired for remote control.

When placed into service the run-up procedure is fully automatic eliminating operator errors in sequencing. The transmitter is completely protected against any antenna condition ranging from absolute short circuit to completely open circuit and attempted operation of the transmitter under such conditions cannot cause damage. In addition to full metering of essential parameters at the front panel, a continuous SWR indication is provided.

The cabinet rear door contains an air filter to ensure a dust free flow to the PA valve cooling system. The system is protected against air flow failure.

The linear amplifier is mounted on slides and may be extended from the cabinet for servicing. It is still operational in this position. Gate safety switching has been eliminated by careful construction. Adequate warning labels are affixed to panels under which lethal voltages are accessible.

The type 7010 may carry "CODAN" or "EILCO" brand names. It is type approved by the APO.

1.2 CAUTION - MODE Switch

The mode transmitted (A3H or A3J) is selected by a switch at the rear of the Exciter.

This switch must be returned to the correct position after tests or measurements have been performed.