

SUMMARY OF DATA

PURPOSE

The facsimile set, NSN 5815-99-971-8698 provides a picture 18 inches by 22 inches of chart information received by line. It supersedes the Mufax Model D-649-L.

MODE OF OPERATION

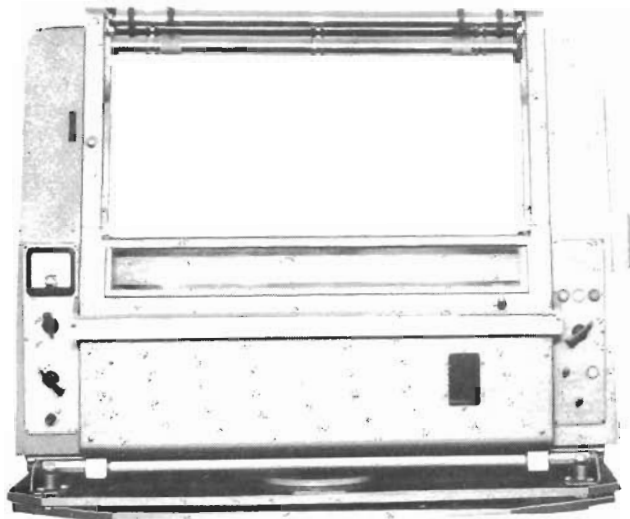
Amplitude modulation in the band 1 to 5 kHz.

BRIEF DESCRIPTION

The chart recorder amplifies and detects amplitude modulated signals. Its d.c. output is used to "burn" an electro-sensitive paper in a series of horizontal lines of varying intensity, thus reproducing the chart.

DIMENSIONS

Height	22½ in.
Width	28½ in.
Depth	12½ in.
Weight	150 lb

**PRINCIPAL CHARACTERISTICS**

Input Signal	: A.M. sub-carrier (1800 to 4000 Hz)
Input Level	: +5 dBm to -40 dBm (normally 0 dBm is black)
Input Impedance	: 600 ohms balanced 2-wire
Control Signals	: 5 secs Start signal; 300 Hz at 96 lines/inch 675 Hz at 48 lines/inch 5 secs Stop signal 450 Hz
Phasing Signals	: 'A' fully automatic, black 95% white 5%, minimum duration 15 s 'B' semi-automatic, black 50% white 50%, minimum duration 20 s
Helix Speeds	: 60, 90 and 120 revs/min Automatic or manual selection
Line Definition	: 96 line/inch 48 line/inch
Fork Frequency	: 100 Hz adjustable by 40 parts in 10^6

POWER REQUIREMENTS

105 to 125 V, or 200 to 240 V, 50 to 60 Hz. Consumption 150 W.

HANDBOOKS

BR 2493 Handbook for Recording Outfits RED(1) and RED(2)

ESTABLISHMENT LIST

S1490 Recording Outfits RED(1) and (2)

INSTALLATION SPECIFICATION

B996/PRE.1	Mufax Equipment
B1117/PRE.1	Outfits RED(1) and (2)

COMMERCIAL EQUIVALENT

Muirhead Model D-649-L!E1 Chart Recorder (MUFAX)
Muirhead Model K-156-B FST-A.M. Converter

NOTE The corresponding shipborne receiving equipment is Recording Outfit RED(2). This is similar to the Outfit RED(1) but has additionally a Converter F.S. 5815-99-971-8699. The signals are received by radio, using FST or F.M. sub-carrier, and the output of the receiver is at a mean frequency of 2550 Hz. When receiving LF there is a shift of ± 150 Hz; when receiving HF the shift is ± 400 Hz. (The higher frequency corresponds to a white signal). The receiver output is connected to the FST/A.M. Converter which passes on intelligence as an amplitude modulation on 1800 Hz for processing as in line operation.