

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

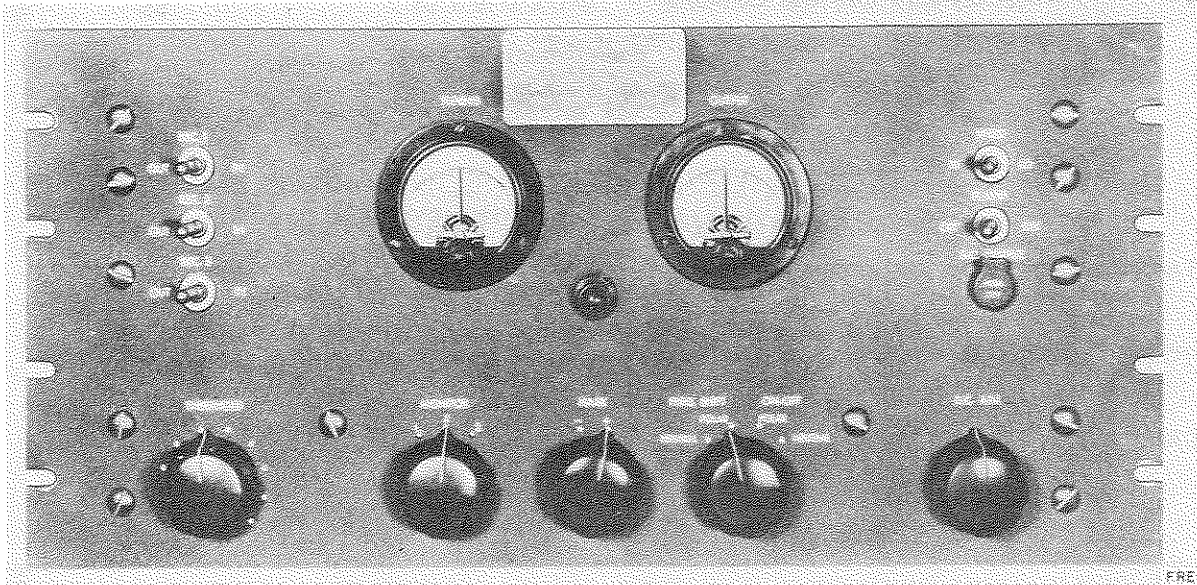
DATE OF THIS SHEET: 8 Apr 52

AN/FGA-TYPE

SERVICE TYPE NUMBER:

FRE

FREQUENCY SHIFT RECEIVER CONVERTER EQUIPMENT



Frequency Shift Receiver Converter Equipment FRE is designed to adapt Navy Model Diversity Radio Receiving Equipment RDM for reception of frequency-shift-keyed signals. It is used with associated equipment to provide ship-to-shore and point-to-point radiotelegraph or radioteletype reception.

This equipment combines the output of one, two, or all three radio receiver components of the RDM equipment into a single signal for neutral or polar operation of telegraph or teletypewriter equipment. It accepts any frequency-shift-keyed signal having a mark-to-space frequency shift of 200 to 850 cps.

The first i-f stage of each of the three channels is coupled to the i-f circuit of its associated radio receiver.

It may be operated from 100 to 165 or 190 to 260-v a-c power sources.

AN/FGA-TYPE	INSTRUCTION LITERATURE: NavShips 95100
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FREQUENCY SHIFT RECEIVER CONVERTER EQUIPMENT	
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Frequency Shift Receiver Converter CRV-35104	8-1/4 x 19 x 16	55

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Used in shore receiver stations.

INSTALLATION: Ground, fixed. Mounts in cabinet rack of associated receiving equipment.

CAN COMMUNICATE WITH: This is signal-modifying equipment used in conjunction with primary communication apparatus.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.455

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Frequency-shift keying.

POWER OUTPUT: 60 ma dc for neutral of 25 ma dc for polar telegraph or teletypewriter operation into load impedance of 130 to 1,800 ohms.

POWER REQUIREMENTS: 175 w, 110 - 165 / 190 - 260 v, 50/60 cyc, 1 phase ac.

PHYSICAL CHARACTERISTICS

Frequency Shift Receiver Converter Equipment FRE measures 8-1/4 x 19 x 16 inches, net weight 55 pounds, volume 1.45 cu ft.