

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

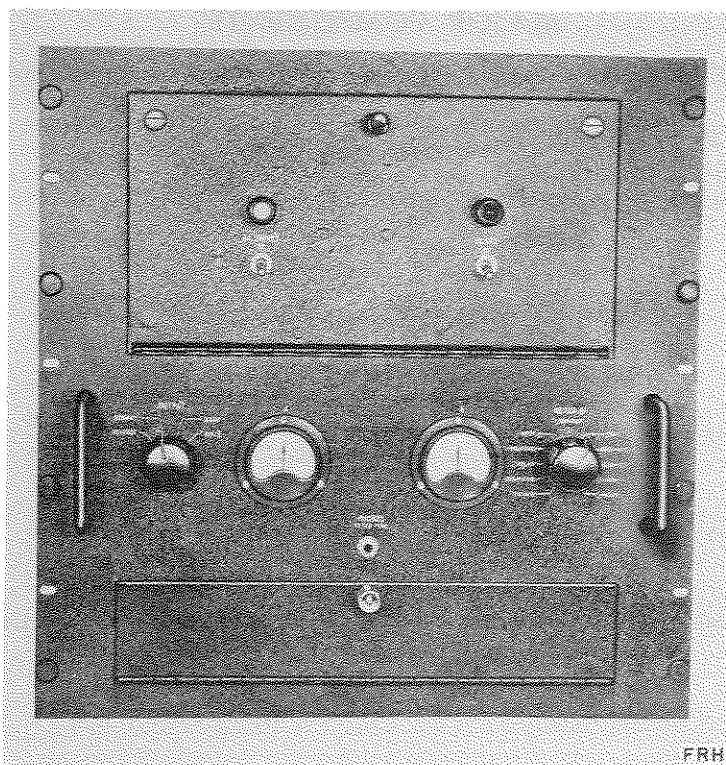
DATE OF THIS SHEET: 9 May 52

AN/FGA-TYPE

SERVICE TYPE NUMBER:

FRH

FREQUENCY SHIFT RECEIVER CONVERTER EQUIPMENT



Frequency Shift Receiver Converter Equipment FRH is a dual-channel, i-f type equipment for translating frequency-shift radio telegraph characters into d-c signals. The signals so produced are used in the direct operation of a teletypewriter on neutral, or polar signals; or the indirect operation of a teletypewriter by keyed tone. Eight preset, tone-oscillator frequencies (in the range from 595 to 1,785 cps) are provided. An external tone frequency can be connected in the tone oscillator unit and keyed by incoming telegraph signals.

This equipment is used with Diversity Receiving Equipments RBP or RCP. A modification kit is supplied to provide connection of the 50 kc output from the i-f stages of the diversity receivers.

Additional components are included for installing an automatic gain control circuit.

Features include a drift compensator, automatic mark-signal in the output in the absence of a carrier, and a NARROW-WIDE bandwidth switch for rejecting noise frequencies, and interference from nearby transmitting stations.

The equipment may be mounted in a standard relay cabinet.

AN/FGA-TYPE	INSTRUCTION LITERATURE: NavShips 900,358
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN)	INSTALL ED	WEIGHT (LBS)
1	Frequency Shift Converter CW-35119	19-7/32 x 21-1/16 x 19		125.0
1	Tone Oscillator Unit CW-35117	8-9/16 x 12-5/16 x 15-1/2		Not Available
1	Rectifier Power Unit CW-20457	9-3/32 x 15-9/16 x 9-5/16		" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

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

TECHNICAL CHARACTERISTICS

FREQUENCY: 50 kc.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Frequency shift.

POWER OUTPUT: 25 ma d-c polar output; 60 ma, neutral d-c output; and 12 ma tone output.

POWER REQUIREMENTS: 175 w, 105-125 v, 50/60 cyc, 1 phase.

PHYSICAL CHARACTERISTICS

Information on Frequency Shift Receiver Converter Equipment FRH is not available.