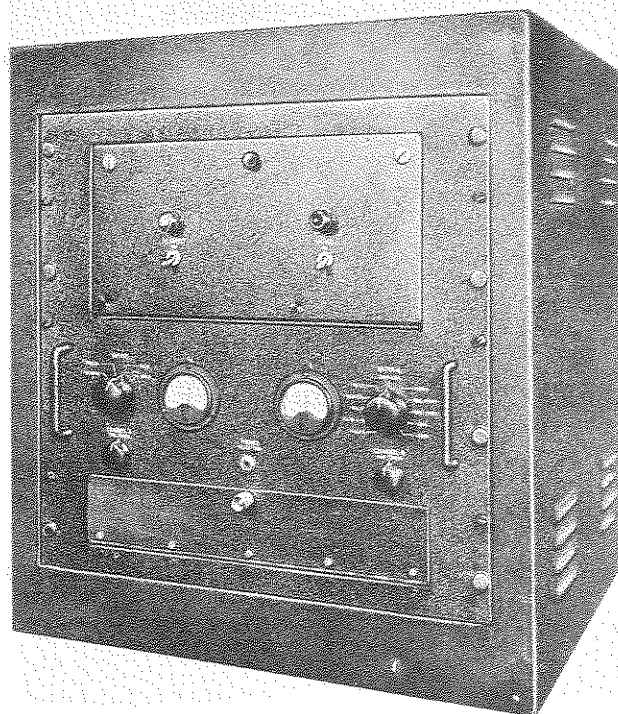


STATUS: Limited Standard CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE: Navy DATE OF THIS SHEET: 9 May 52	<b>AN/FGA-TYPE</b>	
	SERVICE TYPE NUMBER:	FRF
FREQUENCY SHIFT RECEIVER CONVERTER EQUIPMENT		



Frequency Shift Receiver Converter Equipment FRF 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 indirect operation of a teletypewriter by keyed tone. Eight preset tone oscillator frequencies, 170 cps apart (in the range from 595 to 1785 cps) are provided. An external tone frequency can be connected and keyed by incoming telegraph signals.

The converter is located at the receiving station of a long distance radio system.

For demodulating frequency shift telegraph signals for teletypewriter operation.

The equipment is used with Diversity Radio Receiving Equipment RDM, and Radio Receiving Equipment RBB or RBC series, or any other receivers having i-f frequencies between 400 and 470 kc.

Features include a drift compensator, automatic mark signal in the output when the carrier shuts off, and a Narrow-Wide bandwidth switch for rejecting noise frequencies and interference from nearby transmitting stations.

The converter may be mounted in the cabinet of an associated receiver, or in a separate cabinet for table mounting.

<b>AN/FGA-TYPE</b>		INSTRUCTION LITERATURE: NavShips 900,208
		CLASSIFICATION OF EQUIPMENT: Unclassified
FRF	SERVICE TYPE NUMBER	USING SERVICE: Navy
FREQUENCY SHIFT RECEIVER CONVERTER EQUIPMENT		DATE OF THIS SHEET: 9 May 52

**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Frequency Shift Converter CW-35118	19-7/32 x 21-1/16 x 19	Not Available
1	Tone Oscillator Unit CW-35117	8-9/16 x 12-5/16 x 15-1/2	" "
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 RANGE IN MEGACYCLES: 0.40 - 0.47.

TYPE MODULATION: F<sub>m</sub>.

TYPE OF SIGNAL: Frequency shift.

POWER OUTPUT: 25 ma d-c polar output; 60 ma neutral d-c output; and 12 mw, +11 dbm tone output.

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

**PHYSICAL CHARACTERISTICS**

Frequency Shift Receiver Converter Equipment FRF measures 24-1/2 x 21-1/2 x 17-3/4 inches, net weight 245 pounds. Packed for domestic shipment: total weight 450 pounds, total volume 12.5 cu ft.