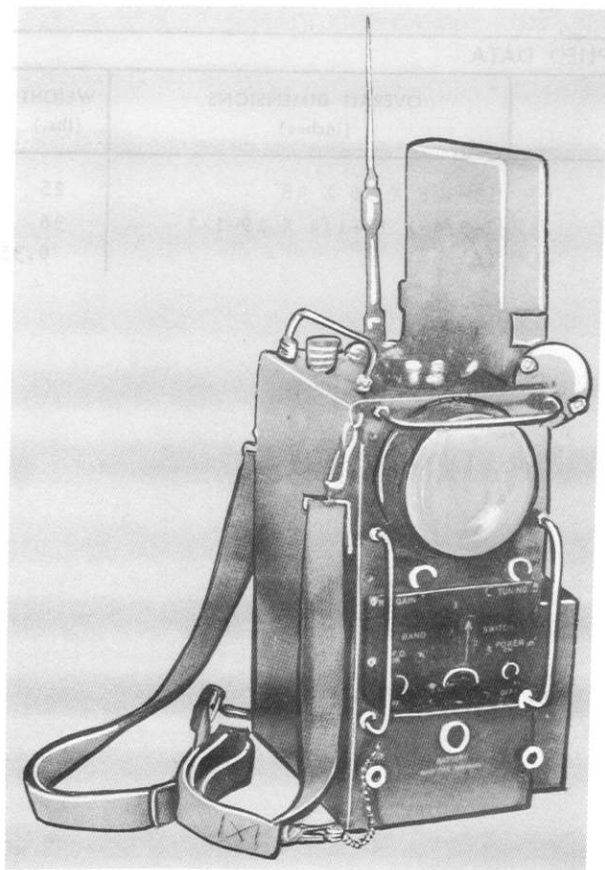


December 1956

Direction Finder, Pack Set, Radio, HF

DIRECTION FINDER, PACK SET, RADIO, HF**CXJA**

POWER OUTPUT: 6 milliwatts with signal strength plus 30% modulation of 50 microvolts per meter into 600 ohm impedance headphones.

INTERMEDIATE FREQUENCY: 912 kc.

CONTINUOUS DUTY CYCLE: 3 to 4 hours.

TYPE OF SIGNAL WHICH MAY BE RECEIVED

READABLE: AM, voice and cw.

NOT READABLE: FM.

OUTPUT IMPEDANCE: 600 ohms.

POWER SUPPLY DATA

TYPE: Vibrator power pack NT-20221-A modified.

VIBRATOR TYPE: Synchronous.

VOLTAGE DATA

INPUT VOLTAGE: 6 v DC.

OUTPUT VOLTAGES: B plus, positive 90 v DC at 0.03 amps, and C minus, positive plus 4.5.

MANUFACTURER'S OR CONTRACTOR'S DATA

Airplane and Marine Instruments Inc.,
Clearfield, Pennsylvania.

Contract NXsr-88882, dated 27 February
1945.

Approximate Cost: \$9000.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

(3) 1L4 (1) 1R5 (2) 3S4 (1) 1S5

Total Tubes: (7)

FUNCTIONAL DESCRIPTION

The CXJA is a portable direction finder capable of obtaining a bearing on any radio signal of sufficient strength between 1.8 and 21 mc. It may be used to obtain a direction on frequency modulated signals, but the signal will not be readable. A beat frequency oscillator is included to permit reception of unmodulated cw. A compass is included for obtaining magnetic bearings on a signal.

No field changes in effect at time of preparation (12 July 1956).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER SOURCE REQUIRED: 6 v DC (battery NT-19046).

TUNING BANDS

BAND 1: 1.8 to 4.6 mc.

BAND 2: 4.3 to 9.8 mc.

BAND 3: 9.4 to 21.0 mc.

REFERENCE DATA AND LITERATURE

NAVSHIPS 95615: Technical Manual for Model
CXJA Direction Finder, Pack Set, Radio,
HF.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

CXJA

DIRECTION FINDER, PACK SET, RADIO, HF

December 1956

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Receiver	6 x 9 x 12-1/2	10-1/4
1	Power Supply NT-20221-A Modified	1-7/8 x 3-3/4 x 4-1/4	1-3/4
1	Storage Battery NT-19046	1-7/8 x 2-3/8 x 3-5/8	1-1/4
1	Headphone NT-49507-A		7/8
1	Extension Cord for Headphone NT-491510	36	
1	Whip Antenna	36	7/16
1	Case (Including following permanently mounted components):	7-1/2 x 8 x 13-1/2 *	7
1	Loop Antenna	1-1/4 x 6 x 8	1-1/4
1	Magnetic Compass		
1	Shoulder Straps (adjustable)		

* Loop Down