

The AN/ARQ-4 (juke box) system is a receiver and control system which provides a continuous panoramic presentation of victim signals as upward deflections, and jamming signals as downward reflections. This enables the operator to follow enemy evasive actions in a crowded band and avoid jamming a signal which is already being jammed by another jammer.

The system is particularly suited for the simultaneous control of a group of transmitters and is sufficiently flexible to operate on a number of frequencies for which jamming sets are required. The AN/ARQ-4 system lends itself to communications work in which a high sweep rate can be used and in which a relatively long "look through" period can be tolerated.

In dealing with systems with push-button frequency change, or "flash" systems, the AN/ARQ-4 is capable of quicker response to changes in victim frequency. Power requirements consists of a 80 to 115 volt, 400 to 2600 c.p.s. a.c. source and a 28 volt d.c. source. The equipment has power inputs of 62 watts d.c. and 120 watts a.c. and covers frequency range of 30 to 50 mc. Sensitivity is 50 microvolts for 3/4" deflection with signal to noise ratio of 5:2.

Radio Set AN/ARQ-4 has not as yet been placed in the Army Supply Program.

Test Equipment for maintenance of AN/ARQ-4 includes Test Set I-139-A, Pick-Up Assembly TS-131/AP, Hickok Voltmeter type 110 and Radio Frequency Wattmeter TS-118/AP.

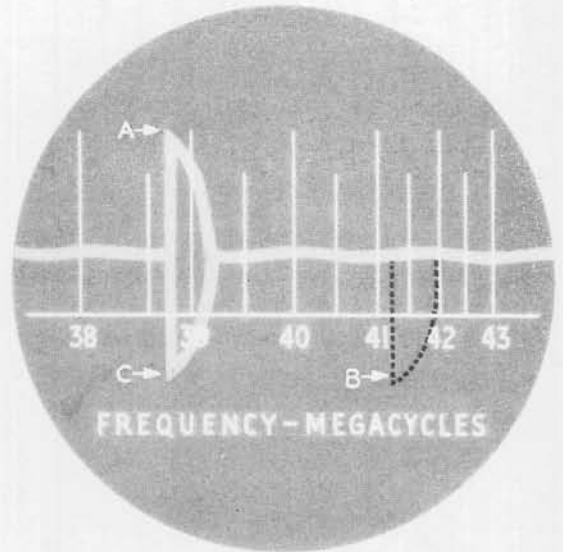
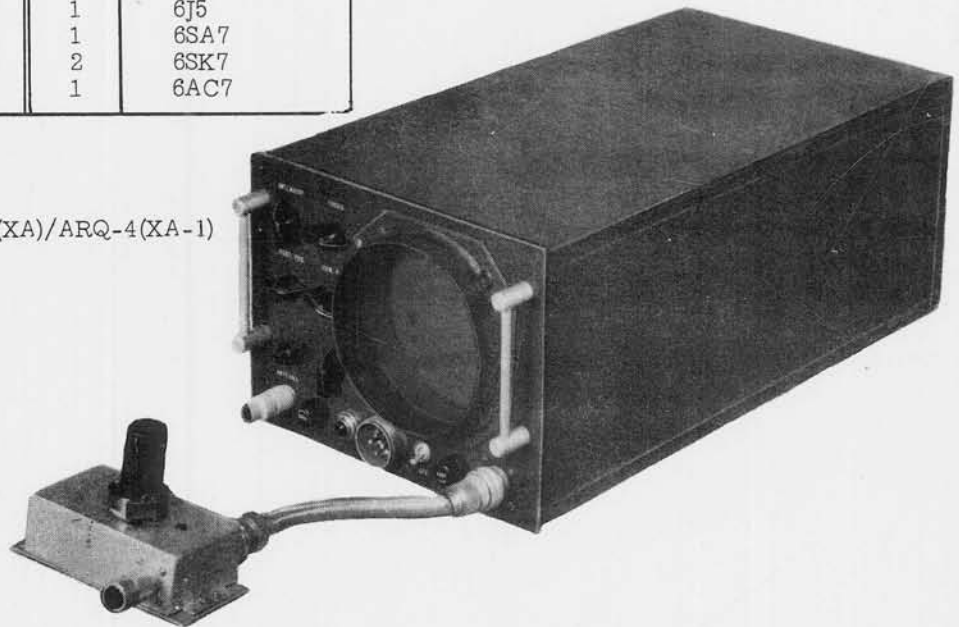


Diagram showing enemy signal (a) and jamming signal's position before (b) and after (c) being tuned to cover enemy transmission.

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
1	5CP1	4	6SN7
1	2 x 2	1	6H6
1	RCA-927	1	9001
1	6X5GT	1	9002
1	6SJ7	1	6J5
1	6B4G	1	6SA7
1	RCA991	2	6SK7
1	2050	1	6AC7

POWER INPUT	62 WATTS D.C. 120 WATTS A.C.
FREQUENCY RANGE	30-50 M.C.
SENSITIVITY	50 μ -VOLTS FOR 3/4" DEFLECTION
SIGNAL TO NOISE RATIO	5:2

Radio Receiver R-63(XA)/ARQ-4(XA-1) and Filter



RADIO SET AN/ARQ-4

TOTAL WEIGHT 55 LBS.

Component	Nomenclature	Size	Weight
Radio Receiver	R-63()/ARQ-4	7 5/8" x 10 1/8" x 21 3/4"	50 Lb
Mounting Base and includes cables, plugs and adapters.	MT-171/U	2 1/4" x 10 1/4" x 22"	3 1/4 Lb.