

Receiving equipment AN/ARQ-5 is an airborne, wide range, high frequency communications receiver which will scan a large spectrum at a rapid rate and present a panoramic chart on the screen of a cathode ray tube which will indicate instantaneously what frequencies are being received.

In this manner it is possible to watch for and quickly intercept any enemy signals which may appear at a hitherto unused portion of the spectrum.

Use of new portions of the spectrum may be expected as our jamming operations make enemy channels unserviceable. It may also be expected when new tactics or new weapons require additional radio channels.

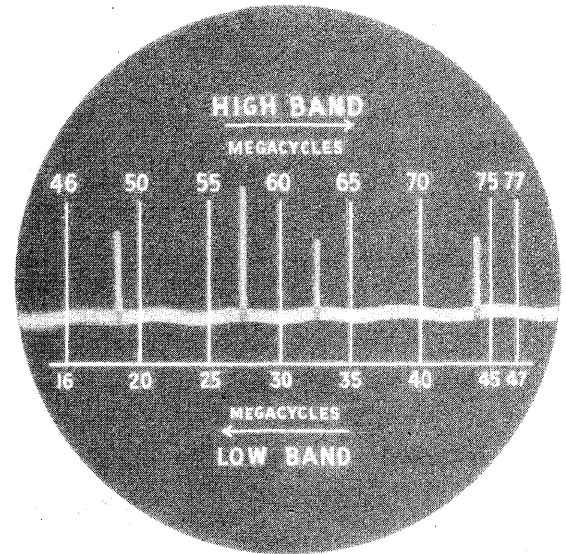
Frequency range of this equipment is from 18 to 80 megacycles. Power is obtained from an 80-115 volt, 400-2600 c.p.s., 24 volt source.

The receiver incorporates circuits for reception of AM, FM and CW signals. A cathode ray tube having a base line calibrated in megacycles gives a visual indication of the output. Incoming signals appear on the screen as "pips" rising from the baseline. The position of the "pips" on the screen indicates the frequency of the incoming signal by reference to the calibrated scale on the screen.

When used with Radio Set AN/ARR-12, this equipment permits monitoring of friend or foe signals.

Test equipment used in maintaining this receiver are Signal Generator TS-47/APR, Test Set I-56, Oscilloscope Generator Radio type 804-C.

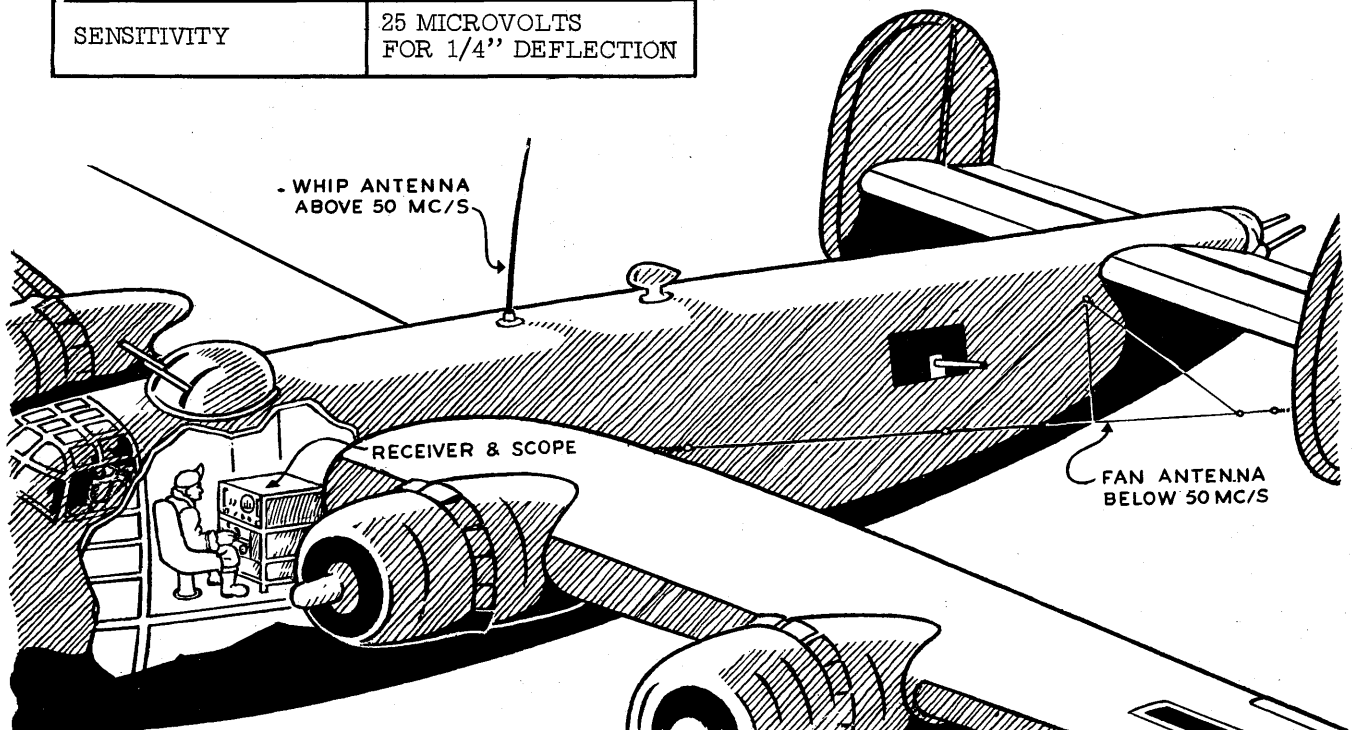
Army Supply Program requirements as of 22 June 1944 were 1020 for the calendar year 1944 and 2028 for 1945.



Large spectrum coverage permits quick interception of enemy operations in the frequency range of 18 to 80 mcs.

POWER INPUT	14 WATTS D.C. 120 WATTS A.C.
FREQUENCY RANGE	18-80 MC.
TYPE OF SIGNAL	AM;FM;CW
SENSITIVITY	25 MICROVOLTS FOR 1/4" DEFLECTION

TUBE COMPLEMENT			
NO	TYPE	NO.	TYPE
2	6AG7	1	6SN7GT
2	9002	1	12H6
2	9003	1	5CP1
1	12J5GT	1	5Y3GT
1	12SA7	1	VR/105/30
1	12SQ7	1	2X2
1	2050	1	927
3	12SK7		



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Radio Receiver R-XA-12/ARQ-5



Power Unit PU-XA-5/ARQ-5

RECEIVING EQUIPMENT AN/ARQ-5

TOTAL WEIGHT 80 LBS

Components	Nomenclature	Size	Weight
Radio Receiver	R-61/ARQ-5	7 5/8" x 10 1/8" x 21 3/4"	35 Lbs.
Mounting Base	MT-171/U	2 1/4" x 10 1/4" x 22 "	3 1/4 Lbs.
Antenna Support	AB-27-A	2 1/2" x 3 " Diam.	2 Lbs.
Mounting Base	MT-167/U	2 1/4" x 5 1/4" x 22 "	2 3/4 Lbs.
Rectifier Power Unit	PP-32/AR	7 5/8" x 4 7/8" x 21 3/4"	37 Lbs.

includes plugs, insulator, wire, cable adapter, tension unit and cables.

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