

SECRET

UNCLASSIFIED AN/APR-7

Radar Set AN/APR-7 is an airborne direct detection radar search receiving equipment. It was developed at Radio Research Laboratory as "SPUD" under project D-2100. It is designed to receive pulsed signals in the frequency range 1000-3000 mc.

The equipment is designed to afford search of the frequency spectrum between 1000 and 3000 mc to determine whether the enemy is using equipment operating in that band. It has a single dial control and is manually tuned. Only audio output is provided. The crystal detector is followed by a super sonic amplifier, a diode rectifier and an audio amplifier.

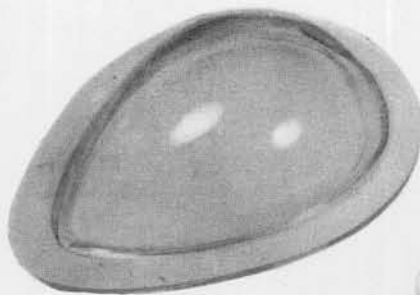
The receiver is mounted in a standard aircraft radio case A1-D. Power is obtained from 115 volts, 60-2600 c.p.s., a.c. source.

Test equipment required for maintenance and tuning of the equipment includes Test Oscillator TS-252/AP, Navy Type Signal Generator LAG, Hickok type 110 Vacuum Tube Voltmeter, and Hewlett-Packard model 200C Audio Oscillator.

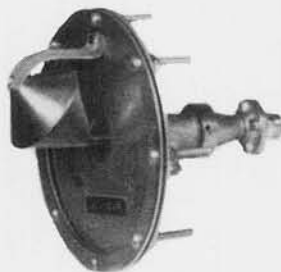
Army Supply Program requirements as of 1 October 1944 were 100 for the calendar year 1944 under a crash procurement program.

POWER INPUT	35 WATTS
FREQUENCY	1000-3000 MC.
BANDWIDTH	10-40 MC.
SENSITIVITY	1000 MICROVOLTS

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
2	6SJ7	1	6H6
2	6J7	1	5Y3GT
1	6G6G		



Cover



Antenna Assembly AS-125/APR



Radar Receiver R-119/APR-7

RADAR SET AN/APR-7

TOTAL WEIGHT 25 LBS.

Component	Nomenclature	Size	Weight
Receiver	R-119/APR-7	8" x 5" x 21"	22 Lbs.
Mounting	MT-167/U	3" x 6" x 22"	3 Lbs.
Antenna Assembly	AS-125/APR		
and includes cables, connectors, etc.			