

SECRET

AN/APQ-17
UNCLASSIFIED

Radar Set AN/APQ-17 is an airborne selective radar jamming equipment covering the frequency range 50-220 mc. and is intended for use in the Pacific Theater. The only other equipments which are available in this frequency band are Transmitting Equipment AN/APT-1 (90-210 Mc) and Radio Set AN/ARQ-8 (25-108 Mc). Transmitting Equipment AN/APT-1 is difficult to tune for selective or "spot" jamming since this equipment was designed primarily for barrage jamming. Radio Set AN/ARQ-8 is also basically a barrage jamming set which has an added feature of selective tuning within the barrage band of 5 megacycles. The need for equipment tunable in the airplane for selective jamming over a wide band becomes evident upon considering present intelligence data and capture of various Jap radars wherein it is indicated that wide frequency ranges are employed.

The receiver and the transmitter are tuned with a single tuning control so that when the control switch is set to transmit it radiates a jamming signal with center frequency the same as that being received. The panel contains a selector switch for three bandwidths: 100 kilocycles, 1 megacycle and 2 megacycles.

Power is obtained from an 80/115 volt, 400-2800 c.p.s., a.c. and a 28 volt d.c. source. Power input of 530 watts produces a noise amplitude modulated output signal of 50 to 20 watts.

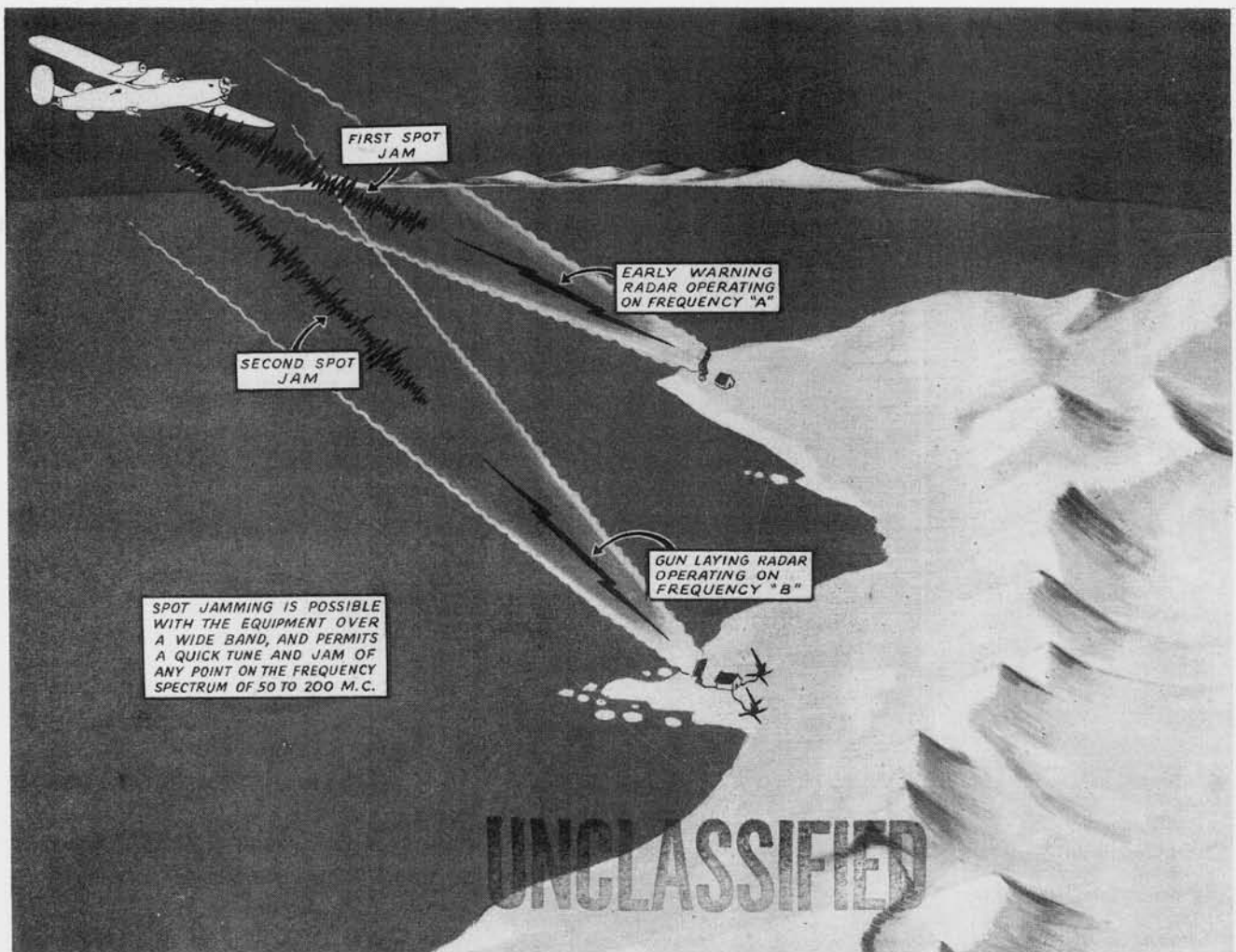
Suitable provision is incorporated in the equipment to prevent corrosion and fungus formation due to tropical climatic conditions.

Test equipment requirements for maintenance of this equipment have not yet been determined.

No requirements have been established on the Army Supply Program as of 1 December 1944.

POWER INPUT	530 WATTS @80/115V AC. 0.5 AMPERES @28V DC.
POWER OUTPUT	50 TO 20 WATTS
FREQUENCY	50-220 MC
TYPE OF SIGNAL	NOISE, AMPLITUDE MODULATED
OUTPUT BANDWIDTH	100 KC. 1 MC. 2 MC.
TUNING CONTROL	ONE

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
4	24G	1	6C4
2	6AG7	1	9006
1	6D4	1	5R4G
1	829	2	836
1	6AG5		



Radar Set AN/APQ-17 is an airborne selective radar jamming equipment capable of rapid switching of jamming frequency when the enemy resorts to evasive changes in radar frequencies to counteract jamming operations.

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Receiver-Transmitter
RT-79/APQ-17(XA-1)



Rectifier Power Unit
PP-137/APQ-17(XA-1)

RADAR SET AN/APQ-17

TOTAL WEIGHT 85 LBS.

Component	Nomenclature	Size	Weight
Receiver-Transmitter	RT-79/APQ-17	8" x 11" x 22"	33 Lbs.
Rectifier Power Unit	PP-137/APQ-17	8" x 5" x 22"	37 Lbs.
Mounting Base	MT-167/U	3" x 6" x 22"	3 Lbs.
Mounting Base	MT-171/U	3" x 11" x 22"	3 Lbs.

and includes miscellaneous cables, plugs and adapters.