

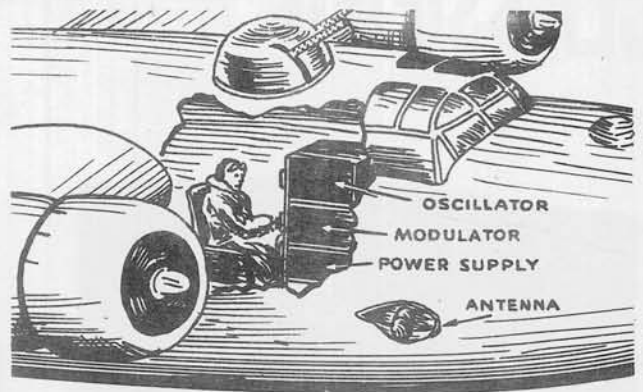
Radar Set AN/APT-4 is an airborne magnetron radar barrage or spot jammer for use against German radar systems such as the Rhubarb, Liechtenstein and Wurzburgs operating in the frequency range of 150 to 770 mc. A liquid cooled magnetron, GL-5J30 or GL-5J29, is used as an oscillator, resulting in simple tuning controls, and high efficiency. The transmitter involves simple components without critical adjustments.

The transmitter is continuously tunable in flight, if necessary, over the complete frequency band. Two tuning adjustments are necessary. In ordinary use the transmitter frequency will probably be set on the ground and three or four sets staggered to cover the entire band.

Power is obtained from a 80/115 volt, 400-2600 c.p.s., a-c source and 24 volt d.c. source. The power input of 1500 watts produces an output of 200 watts over the frequency range. The transmitted signal is a random noise modulated signal designed to jam the enemy signal in the frequency range of the transmitter.

Production of this equipment started in June 1944 Army Supply Program Requirements as of 30 April 1944 indicates no equipment for the calendar year 1944 and 300 for 1945.

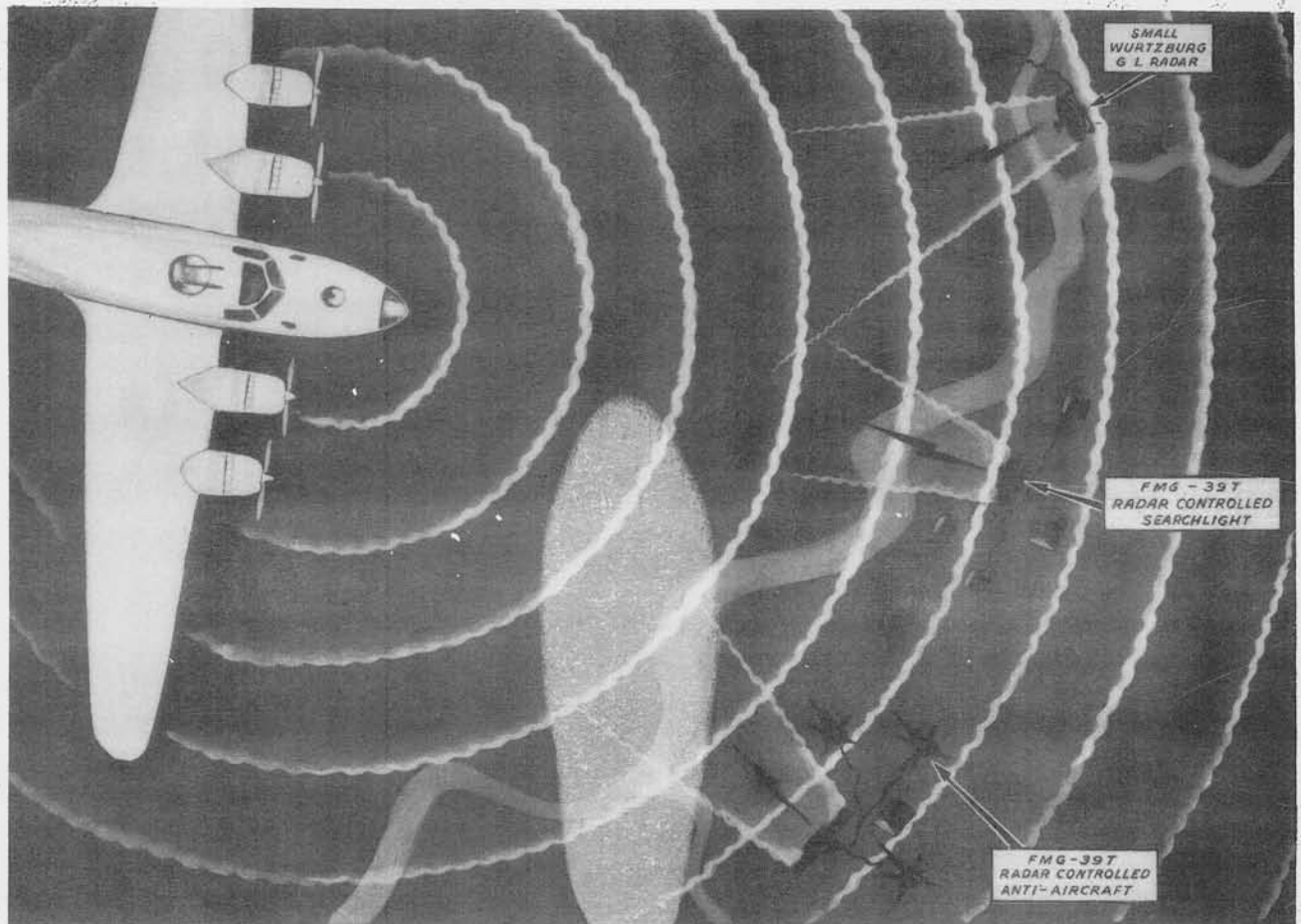
Test Equipment used in maintenance of Radar Set AN/APT-4 includes Test Set I-139-A, Frequency Meter TS-175/U, Analyzer TS-54/AP, Radio Frequency Wattmeter TS-118/AP, Pickup Assembly TS-131/AP, Hickok Voltmeter Type 110 and Fluxmeter TS-15A/AP.



Installation of Radar Set AN/APT-4 in B-24 Airplane.

POWER INPUT	1500 WATTS
POWER OUTPUT	200 WATTS
FREQUENCY RANGE	150-770 MC.

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
1	GL-5J29	2	6AC7
4	836	1	6AC7
1	5R4GY	2	813
1	2X2	1	GL-5J30
1	931A	1	807



Radar Set AN/APT-4 is a high power jamming transmitter of sufficient power to screen a large bomber within two miles of enemy radar systems operating within its frequency band of 350 to 800 mc.

1 Dec. 1944



Radar Transmitter T-75(XA)/APT-4(XA-2)



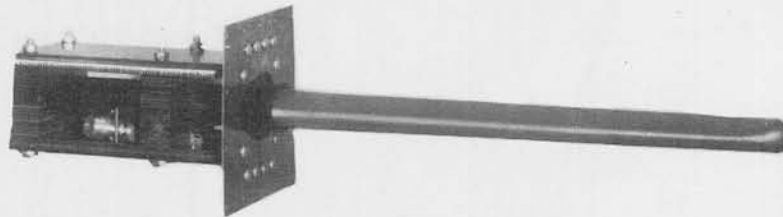
Modulator MD-30(XA)/APT-4(XA-2)



Rectifier Power Unit
PP-87(XA)/APT-4(XA-2)



Antenna Assembly AS-115/APT



Antenna Assembly AS-114/APT

RADAR SET AN/APT-4

TOTAL WEIGHT 230 LBS.

Component	Nomenclature	Size	Weight
Radar Transmitter	T-75/APT-4	7 5/8" x 10 1/8" x 21 3/4"	80 Lb.
Rectifier Power Unit	PP-87/APT-4	7 5/8" x 10 1/8" x 21 3/4"	53 Lb.
Modulator	MD-30/APT-4	7 5/8" x 10 1/8" x 21 3/4"	61 Lb.
Antenna Assembly	AS-114/APT	Length 16.5"	6 1/2 Lb.
Antenna Assembly	AS-115/APT	Height 6" x Dia. 7"	2 1/4 Lb.
Mounting	MT-253/U (3 each)	2 1/4" x 10 5/8" x 22"	9 3/4 Lb.
Cord	CG-96/AP	Length 6'	1 Lb.
Case	CY-149/AP	24 3/4" x 8 3/4" x 9 1/4"	
Antenna Cover	CW-33/APR-4	8 1/2" x 8 1/2" x 30"	2 1/2 Lb.

and includes plugs, adapters, jacks and cables.