

**SECRET**

**AN / ART - 10**

**UNCLASSIFIED**

Radio Transmitting Set AN/ART-10 is an airborne barrage jammer capable of operating unattended during flight, and of producing interference over a frequency range of 42 to 48 mc., employed by the Japanese for communication with fighter aircraft and by the Germans for communication with bomber aircraft. It has been found to be efficient in jamming AM signals, such as are emitted from German tank sets, but it has practically no effect on FM equipment operating in the same frequency range.

The transmitter, Radio Transmitter T-37/ART-10, consists of a push-pull oscillator using two each type 35TG tubes and a motor-driven, rotating condenser which sweeps the frequency over the tuning range at a rate of 300 c.p.s.

Power requirements, which include Rectifier Power Unit PP-35/ART, are 80-115 volts, 400-2600 c.p.s. a.c. and 28 volts d.c.

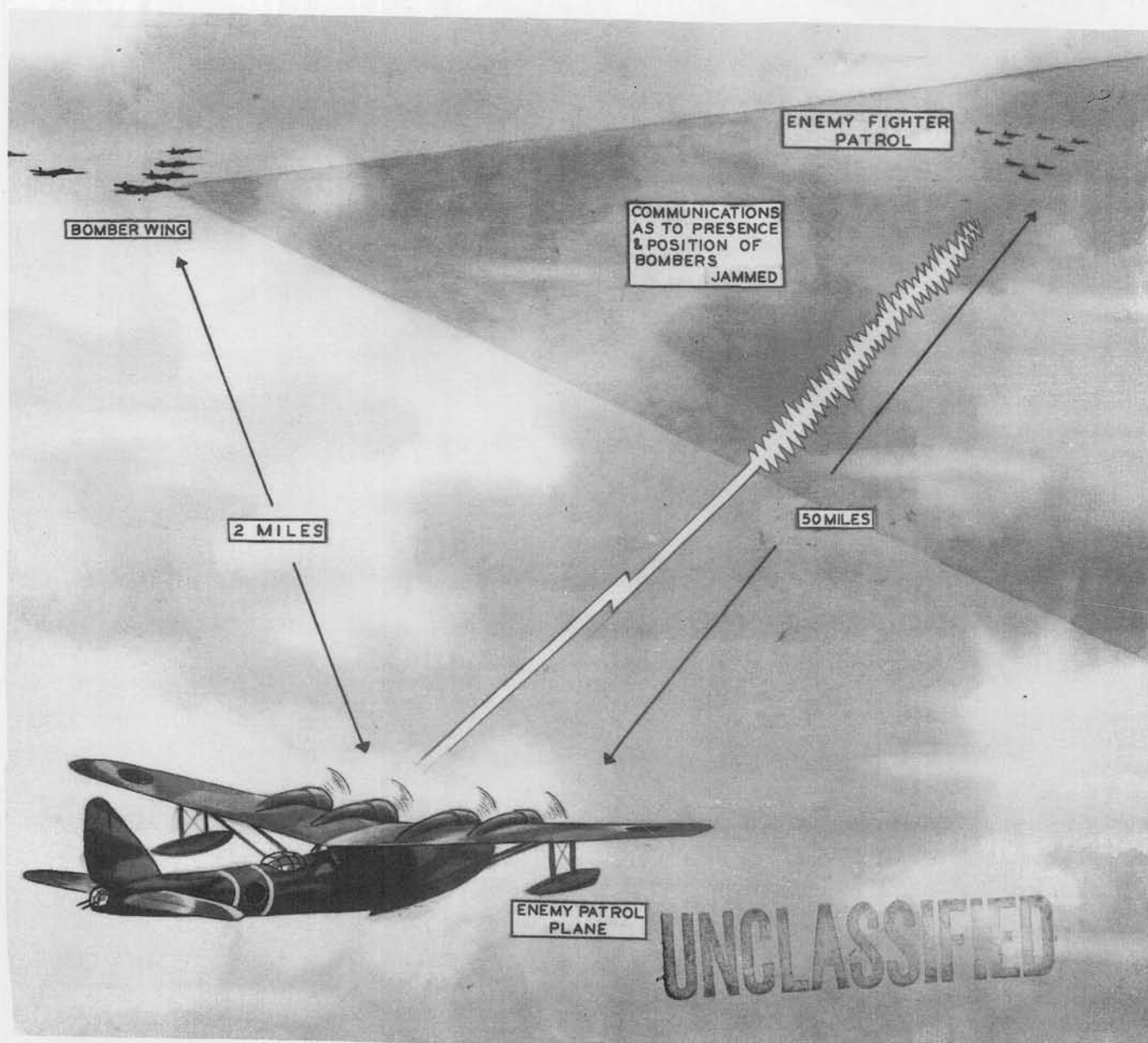
Test equipments required in maintenance are: Test

Set I-139-A, Pick-Up Assembly TS-131/AP, Test Set I-56-J,K & L, and Voltmeter, Hickok Type No. 110

Army Supply Program Requirements for this equipment as of 1 September 1944 were 1,000 sets for the calendar year 1944.

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
2	35TG	2	836

POWER INPUT	550 WATTS
POWER OUTPUT	105 WATTS
FREQUENCY RANGE	42-48 MC
TYPE OF SIGNAL	FM 300 CPS STEADY TONE

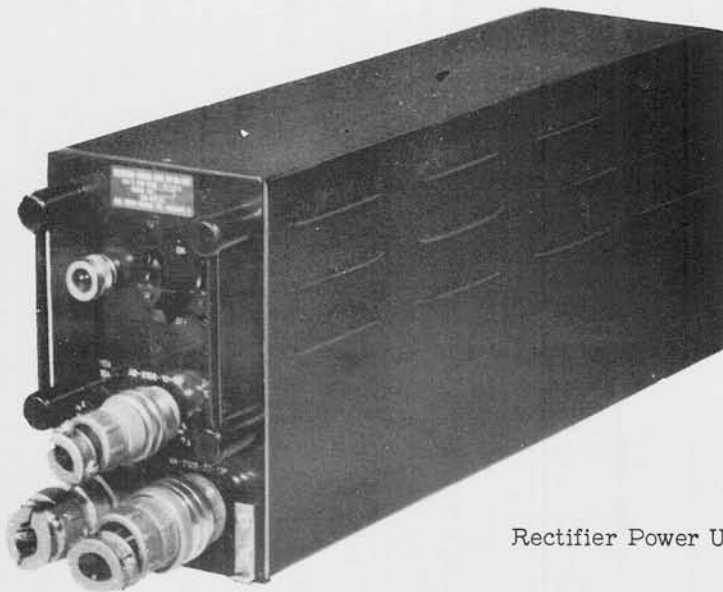


The above diagram shows the application of jamming as applied by attaching bombers to communications between enemy reconnaissance and interceptor planes.

DECLASSIFIED



Radio Transmitter T-37/ART-10



Rectifier Power Unit PP-35/ART



AS-89/ART



AB-29/ART

RADIO TRANSMITTING SET AN/ART-10

TOTAL WEIGHT 75 LBS.

Component	Nomenclature	Size	Weight
Radio Transmitter	T-37/ART-10	7 5/8" x 4 7/8" x 21 3/4"	23 Lb.
Rectifier Power Unit	PP-35/ART	7 5/8" x 4 7/8" x 21 3/4"	37 Lb.
Antenna System	AS-89/ART	72" x 3 1/2" Dia.	5 Lb.
Mounting Base	MT-167/U (2 each)	2 1/4" x 5 1/4" x 22"	5 1/2 Lb.
Antenna Base	AB-29/ART	5 1/2" x 3 1/2" Dia.	3 Lb.
Low Pass Filter		5" x 6" x 9"	2 Lb.

and includes plugs, adapter, cable adapters, and misc. cables.