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AN/ART-3

Radio Transmitting Equipment AN/ART-3 is an airborne high powered Jackal type barrage jammer for use against communications in the frequency range of 27 to 57 mc. This frequency range is covered by a series of tuning units provided with the equipment.

The transmitter has a tank coil with a motor driven short circuited turn (ring) to vary the frequency of the oscillator over the frequency range of the transmitter. The push-pull oscillator has two each type 304 TL tubes. The power supply consists of two full wave rectifiers using 371-B type tubes the D-C outputs of which are connected in parallel. Two inverter units type PE-218-B or C are connected to separate input terminals. No tuning or operating controls other than an "On-Off" switch are required while in flight. The present AN/ART-3 equipment will operate up to approximately 30,000 feet in altitude.

Power is obtained from a 80-100-115 volt, 400-2600 c.p.s. a.c. source and a 28 volt d.c. source. Power Input of 2.8 kw. a.c. and 130 watts d.c. produces an output of 1000 watts. The two inverters provided with the equipment are rated at 1300 and 1500 v.a. respectively.

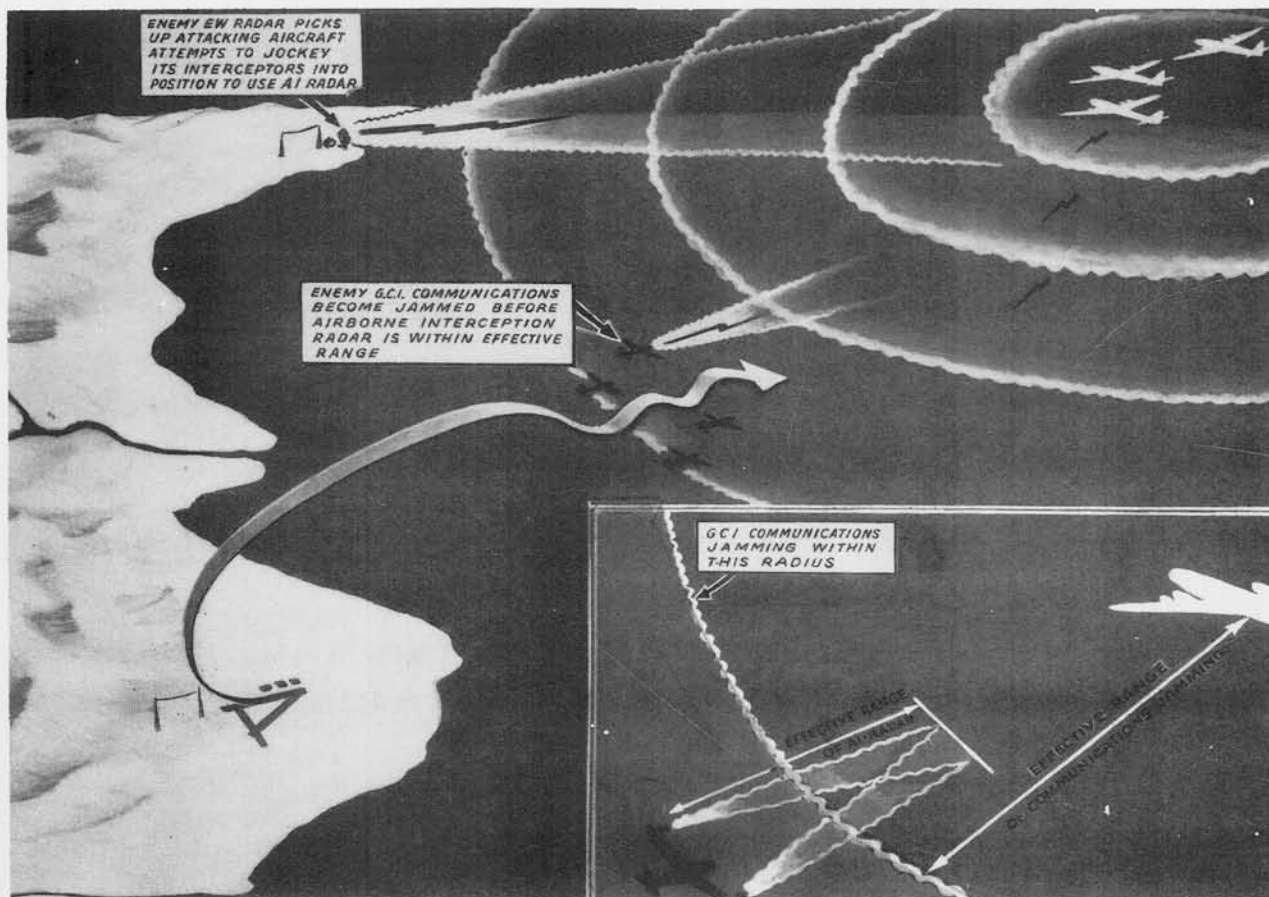
Test Equipment for the maintenance of the transmitter includes a Radio Frequency Wattmeter TS-209/AR.



Fan Antenna for Radio Transmitting Equipment AN/ART-3 on B-17.

POWER INPUT	2.8 KW. A.C.; 130 WATTS D.C.
POWER OUTPUT	1000 WATTS
FREQUENCY RANGE	27-57 MC.

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
4	371B	2	304TL



Radio Transmitting Equipment AN/ART-3 output is sufficient to prevent GCI communications well beyond effective range of enemy AI Radar.

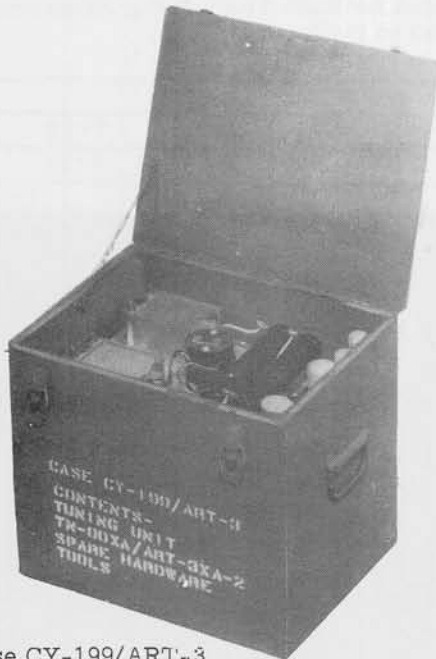
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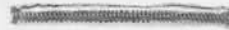
Transmitter Unit T-43(XA)/ART-3(XA-2)
on Mounting Base MT-253/U

Power Supply PP-22/ART-3
on Mounting Base MT-253/U



Case CY-199/ART-3

Spring Assembly



Insulators for
Fan Antenna



Wire for Fan Antenna



Antenna Base
AB-45/ART



Antenna Base
AB-29/ART

Antenna System
AS-139/ART



RADIO TRANSMITTING EQUIP. AN / ART-3 TOTAL WEIGHT 195 LBS.

Component	Nomenclature	Size	Weight
Power Supply	PP-22/ART-3	10 5/8" x 10 1/8" x 21 3/4"	86 Lbs.
Transmitter Unit	T-43(XA)/ART-3(XA-2)	10 5/8" x 10 1/8" x 21 3/4"	25 Lbs.
Tuning Unit	TN-XA-9/ART-3	9 3/4" x 10" x 8 1/2"	8 1/2 Lbs.
Tuning Unit	TN-XA-10/ART-3	9 3/4" x 10" x 8 1/2"	8 1/2 Lbs.
Tuning Unit	TN-XA-11/ART-3	9 3/4" x 10" x 8 1/2"	8 1/2 Lbs.
Tuning Unit	TN-XA-12/ART-3	9 3/4" x 10" x 8 1/2"	8 1/2 Lbs.
Tuning Unit	TN-XA-13/ART-3	9 3/4" x 10" x 8 1/2"	8 1/2 Lbs.
Tuning Unit	TN-XA-14/ART-3	9 3/4" x 10" x 8 1/2"	8 1/2 Lbs.
Tuning Unit	TN-XA-15/ART-3	9 3/4" x 10" x 8 1/2"	8 1/2 Lbs.
Mounting Base	MT-171/U	2 1/4" x 10 5/8" x 22"	3 1/4 Lbs.
Antenna Assembly	AS-139/ART	72" long	8 Lbs.
Antenna Base	AB-29/ART	5 1/2" x 7" Dia.	3 Lbs.

and includes plugs, adapters, tension unit, wire, insulator and misc. cables.