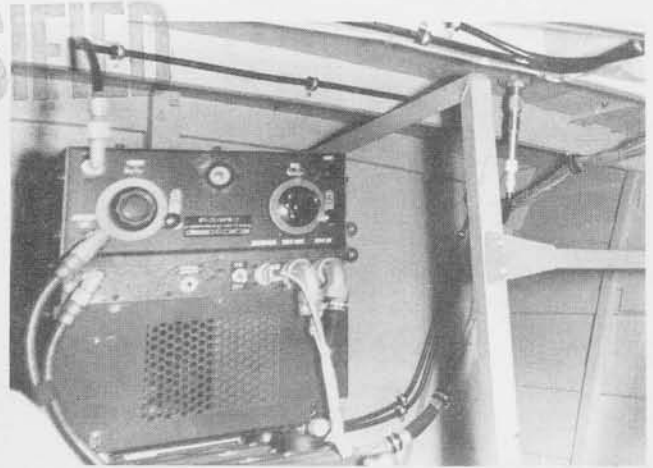


Radar Beacon AN/APN-7 is an airborne transponder beacon employed to establish the identity of the aircraft in which it is installed. The equipment is designed particularly for operation with ASG, SCR-517 and SCR-717 and provides navigational aid to other aircraft, acting as a "rooster" on which they may home. It facilitates the location of a predetermined meeting place with other aircraft.

The receiver has a 12mc. bandwidth and can be tuned over the 3220 mc. to 3320 mc. range. The transmitter uses a 446B lighthouse tube, with a power output of 200 watts. The transmitter may be tuned over the 3220 mc. to 3320 mc. range.

Test equipment required for maintenance includes Test Set TS-14/AP, Frequency Meter TS-46/AP, Dumont 241 Oscilloscope and RCA type MI-18709 Signal Generator.

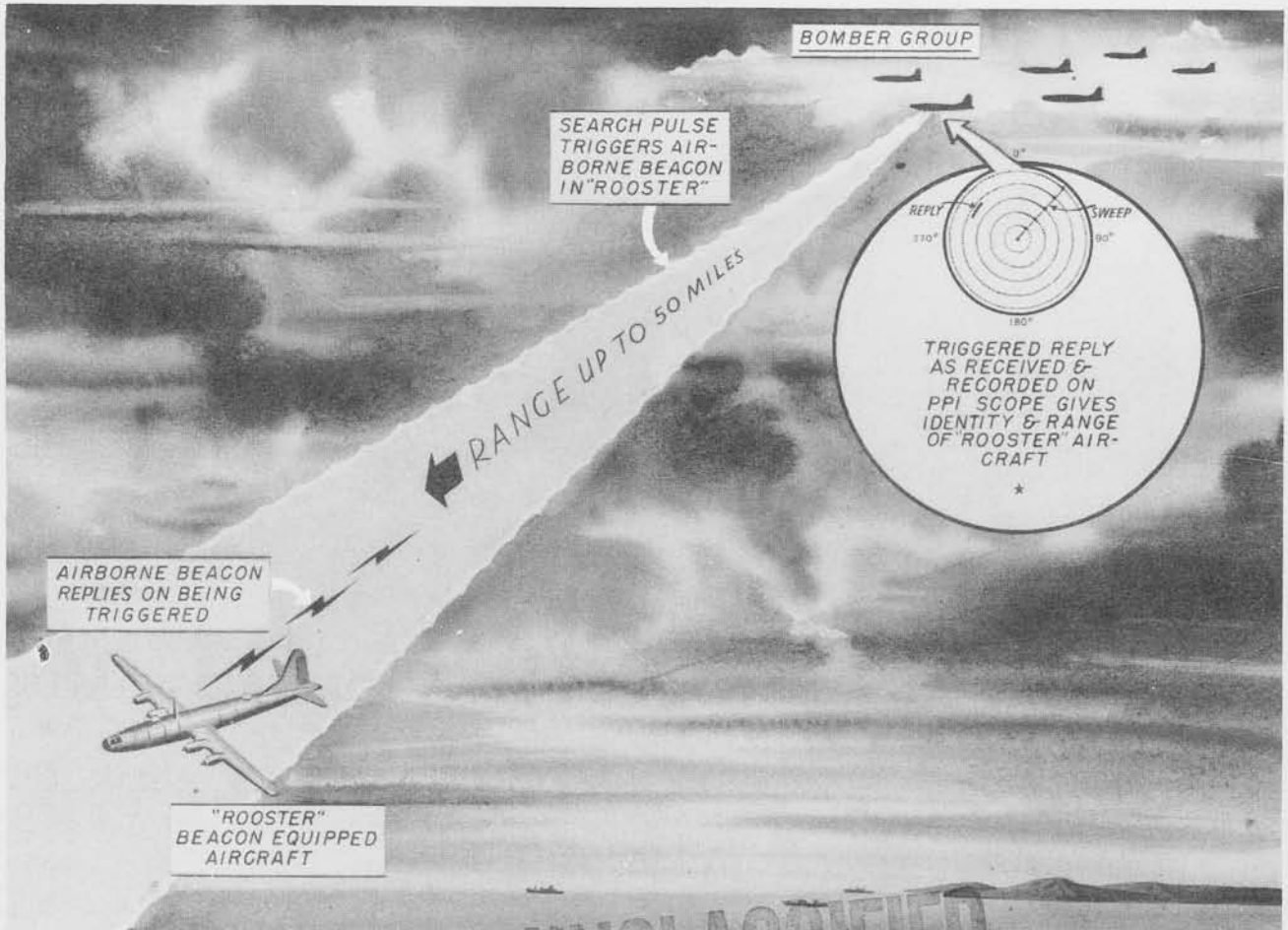
AAF requirements as of 22 February 1945 were 225 for the calendar year 1945.



Receiver-Transmitter RT-21/APN-7 installed for operation.

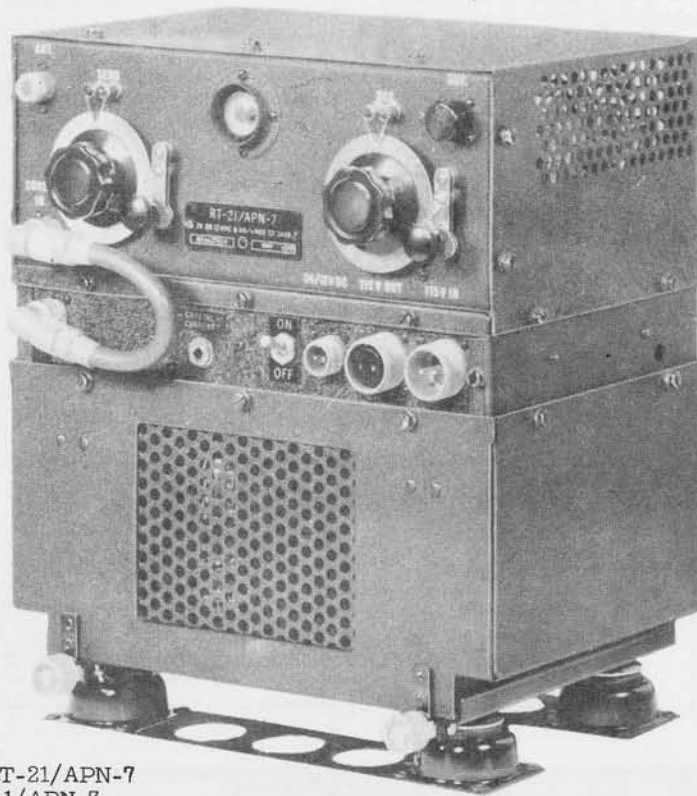
TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
1	721-A	1	OC3/VR-105
1	707-B	1	OD3/VR-150
1	446-B	1	6E5
3	6SN7GT	1	6B4G
1	RK-34	1	2X2
11	6AG5	1	5U4G
1	13T4	1	6X5GT/G

POWER INPUT	200 WATTS, 105-130 V, 400 TO 2400 CPS; 10 WATTS, 12/24 V, DC
POWER OUTPUT	200 WATTS (PEAK)
FREQUENCY	3220-3320 MC
TYPE OF SIGNAL	PULSE
RANGE	50 MILES

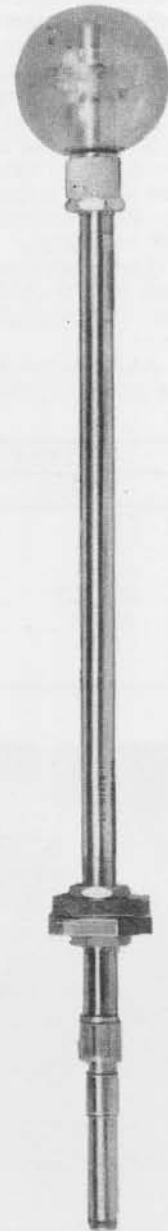


Radar Beacon AN/APN-7 is an airborne transponder beacon used to establish the identity of the aircraft in which it is installed and provide navigational aid to other aircraft.

UNCLASSIFIED



Receiver-Transmitter RT-21/APN-7
on Mounting Base MT-111/APN-7



Antenna Assembly
AS-31/APN-7



Coder KY-3/APN-7
on Mounting Rack MT-148/APN-7

RADAR BEACON AN/APN-7

TOTAL WEIGHT 53 LBS.

Component	Nomenclature	Size	Weight
Receiver-Transmitter	RT-21/APN-7	13" x 13" x 10"	36 Lbs.
Antenna Assembly	AS-31/APN-7	25" x 4" x 4"	3 Lbs.
Mounting Base	MT-11/APN-7	2" x 12" x 10"	3 Lbs.
*Coder	KY-3/APN-7	7" x 5" x 16"	9 Lbs.
*Mounting Base	MT-148/APN-7	2" x 6" x 17"	2 Lbs.

and includes antenna cable assembly, plugs and cable adapter.

* optional items