

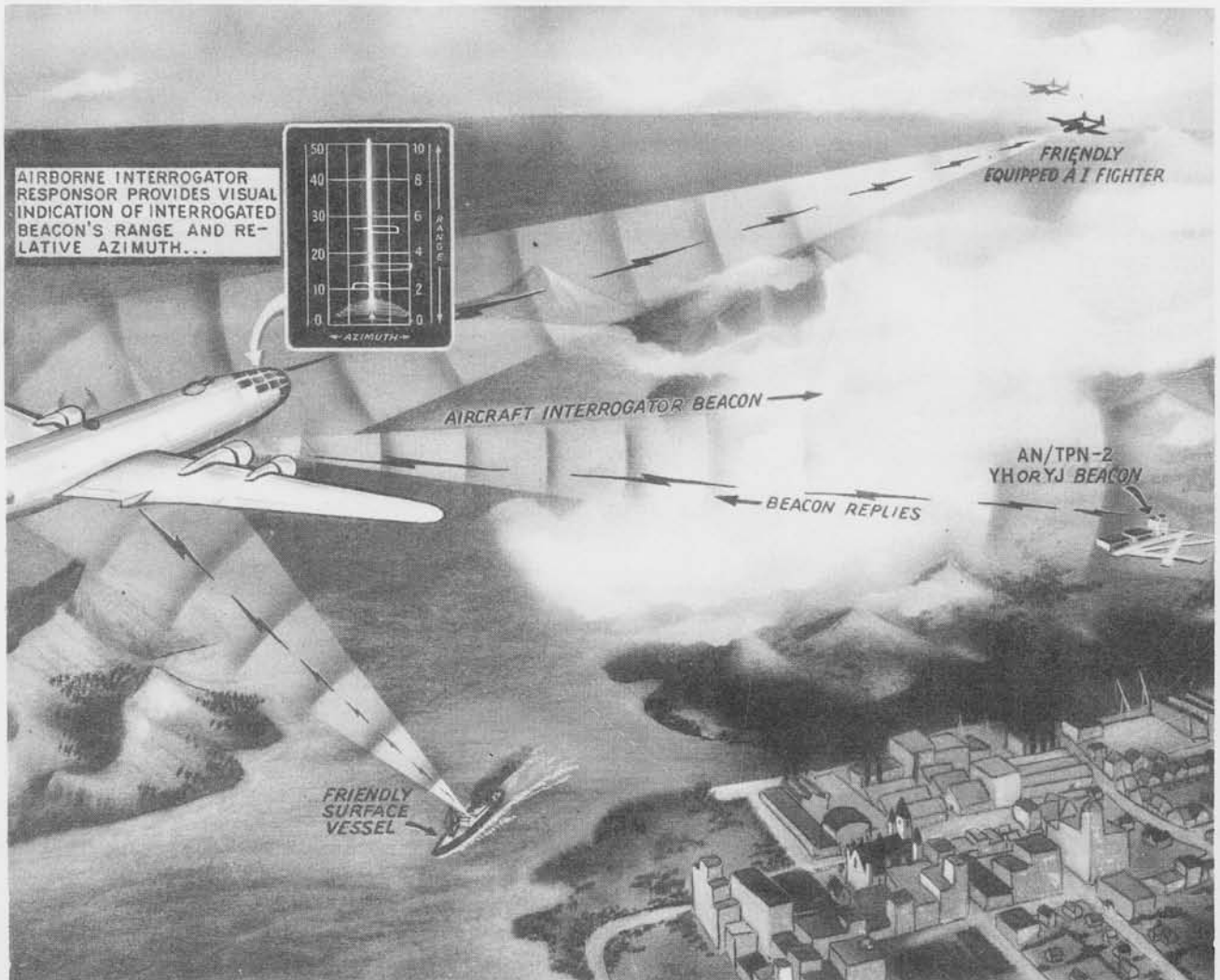
Radar Set AN/APN-12 is an airborne interrogator-responder equipment designed to indicate range and relative azimuth in conjunction with ground installations of radar beacons of the Eureka type, BABS equipment, and YH and YJ radar beacons. A modified "A" scope is used to give right left indications and range. This set is similar to Radio Sets SCR-729 and AN/APN-2 and is intended to supplement and eventually replace these sets since it combines their functions and frequency coverage. Shape and mounting of the AN/APN-12 is comparable to that of the SCR-729 and AN/APN-2.

This equipment consists of a Receiver-Transmitter RT-11/APN-12 which can transmit and receive on at least three separate frequencies in the Mark III IFF band and on the five Rebecca-Eureka frequencies. Frequency of the transmitter and receiver are independently adjustable. Selector switch tuning permits use of any pre-set transmitter or receiver frequency while the aircraft is in flight. Normally the unit will operate as an interrogator-responder; however, the basic circuits have been so designed that the equipment may also operate as a transponder beacon. The choice of either one depends on the tactical requirements.

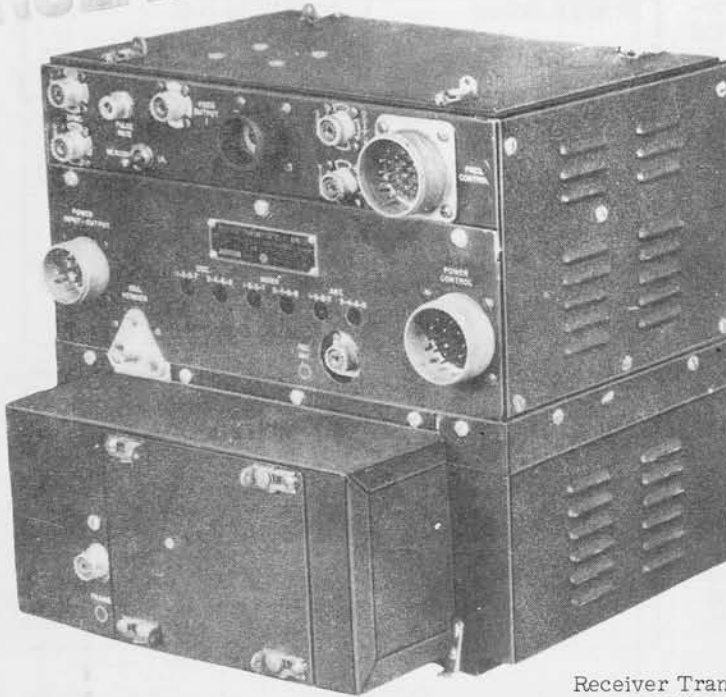
Test Equipment required for the operation and maintenance of AN/APN-12 includes Test Equipment IE-56-A, Signal Generator GR-804-C and Oscilloscope RCA-158.

POWER INPUT	30 WATTS D.C. @ 24-28 VOLTS - 150 WATTS @ 80 OR 115 VOLTS, 400 to 2400 C.P.S.
POWER OUTPUT	400-500 WATTS
FREQUENCY	200-240 MC and 156-186 MC
TYPE OF SIGNAL	PULSE
RANGE	20 MI. FOR EUREKA BEACON, 90 MI. FOR YH OR YJ BEACON, 50 MI. FOR AN/TPN-1, AN/TPN-3, SCR-695, 100 MI. FOR AN/TPN-2

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
6	6SN7GT	1	6J8
4	6H6GT/G	7	6AC7
2	2X2	1	6V6GT/G
2	6X5GT/G	2	6SL7GT
1	6G6GT	1	5U4G
1	3BP1	1	2C28A
1	6AK5	1	6E5
1	9002	1	6SJ7



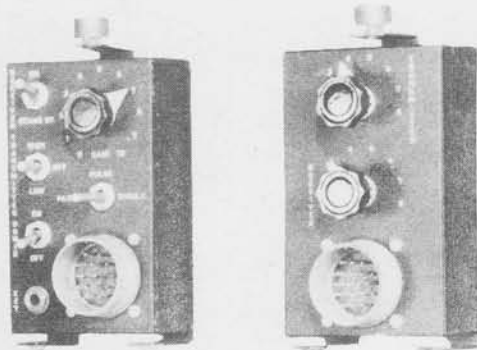
Radar Set AN/APN-12 is an airborne interrogator-responder equipment used in conjunction with ground beacons for aircraft navigation and for Mark III IFF land, sea and air operations.



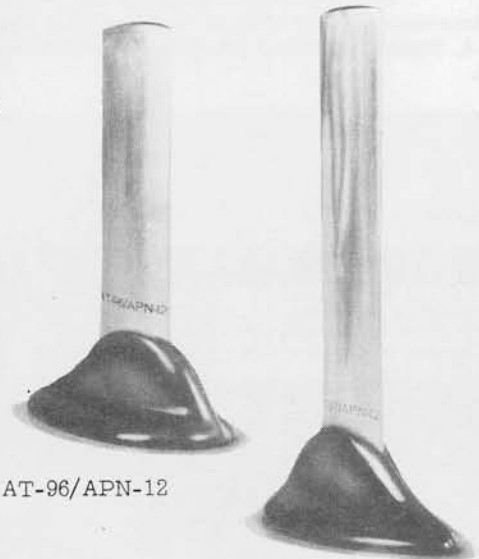
Receiver Transmitter
RT-11/APN-12



Video Gate MX-284/APN-12



Control Boxes



Antenna AT-96/APN-12

Antenna AT-97/APN-12

RADAR SET AN/APN-12

TOTAL WEIGHT 105 LBS.

Component	Nomenclature	Size	Weight
Receiver-Transmitter	RT-11/APN-12	12" x 12" x 13"	40 Lbs.
Control Box	C-169/APN-12	4" x 6" x 3"	1 Lb.
Control Box	C-170/APN-12	4" x 10" x 3"	1 Lb.
Indicator	ID-169/APN-12		26 Lbs.
Mounting	FT-406-A (2 each)		*
Mounting	FT-409-A		3 Lbs.
Mounting	FT-416-A		3 Lbs.
Antenna	AT-96/APN-12 (3 each)		5 Lbs.
Antenna	AT-97/APN-12 (2 each)		5 Lbs.
Video Gate	MX-284/APN-12	5" x 6" x 10"	9 Lbs.
Mounting Base	MT-165/U	6" x 2" x 10"	2 Lbs.
Cable Clamp	M-297		*
Coupling	MC-277		*
Remote Tuning Device	C-195/APN-12	3" x 3" x 3"	1 Lb.
Receptacle	UG-191/AP	1" long x 1" diam.	*

and includes plugs, adapters, cable adapters and r-f cables.
* less than one pound in weight.