

Radio Indicator Assembly AN/APA-11 is an improved airborne pulse analyzer used with Receiving Equipment AN/APR-3, Radio Set SCR-587-A and Receiving Equipment AN/APR-1. It supercedes Radar Indicator Assembly AN/APA-6X and is installed in medium and light bombers.

It is used in analyzing enemy radar pulses, and as a complete airborne oscilloscope. Flexibility of design allows provision for 5, 25 and 100 microsecond pulses with a "horizontal shift" pulse duration calibrator. Pulse recurrence is measured by synchronizing patterns with a phase shift oscillator, so that the pulse recurrence of several radars simultaneously received can be determined. In general, no two radars will have exactly the same PRF, and any one signal may be "stopped" by a careful adjustment of the oscillator frequency, while the others will continue to move across the screen in one direction on the other, depending on whether their PRFs are higher or lower than that of the radar under observation.

The set provides a calibrated sine wave oscillator. The operator varies the oscillator frequency until a complete sine wave trace appears on the CR screen; the sawtooth swept frequency and the oscillator frequency are then identical.

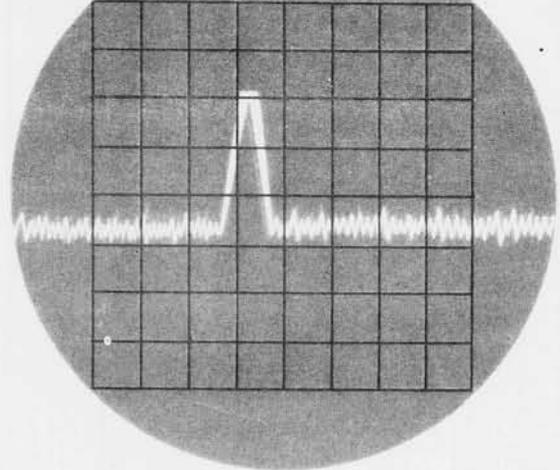
Tactical use of the equipment is the same as that for Radar Indicator Assembly AN/APA-6X, but there is the distinct advantage that Radio Indicator Assembly AN/APA-11 can be used in combat areas where enemy radar is concentrated. It is also simpler in operation than the other set, and can also be used as test equipment for different sets when used as an oscilloscope.

Power input is 150 watts from an 80/115 volt 400-2600 c.p.s. a.c. power source.

Test equipment required in maintenance includes RCA oscilloscope type 158.

Production of the equipments was begun during May 1944. Army Supply Program requirements as of 30 April 1944 were 1995 for the calendar year 1944.

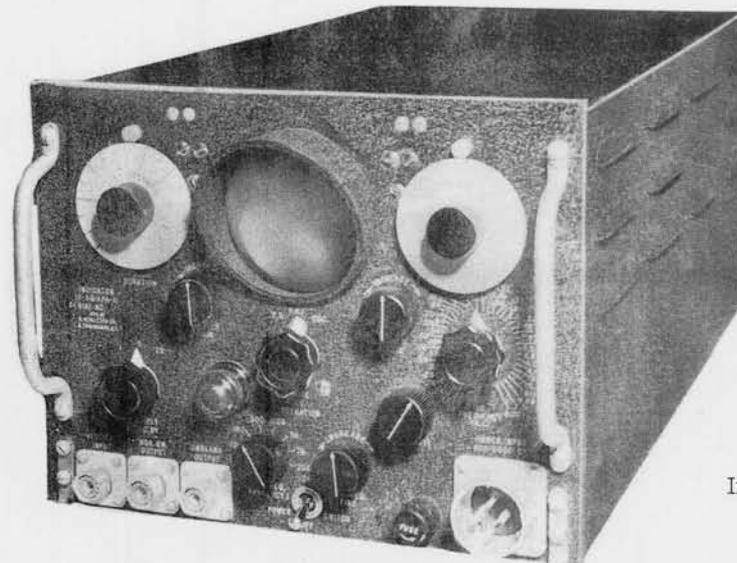
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Enemy radar frequencies are analyzed and determined by position and/or size of pip.

POWER INPUT	150 WATTS
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TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
1	2X2	4	6SN7GT
1	3BP1	1	6J5
1	5R4GY	1	6SJ7
4	6AC7	1	884
3	6AG7	2	VR/150/30



Indicator ID-59/APA-11

RADIO INDICATOR ASSEMBLY AN/APA-11 TOTAL WEIGHT 50 LBS.

Component	Nomenclature	Size	Weight
Indicator	ID-59/APA-11	7 5/8" x 10 1/8" x 21 3/4"	45 Lb.
Mounting Base	MT-171/U	2 1/4" x 10 1/8" x 22 "	3 1/4 Lb.

and includes plugs, cords and cable adapter

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