

Beacon Antenna Assembly AN/CPA-1 is an air transportable adapter equipment used to convert Beacon Transmitter-Receiver AN/TPN-1, AN/TPN-2 or AN/TPN-3 for blind approach of aircraft equipped with interrogator responder equipments, such as Radio Set AN/APN-2 or SCR-729 under adverse weather conditions. Approaches can be accomplished to within one mile of a runway. The actual landing is then accomplished visually.

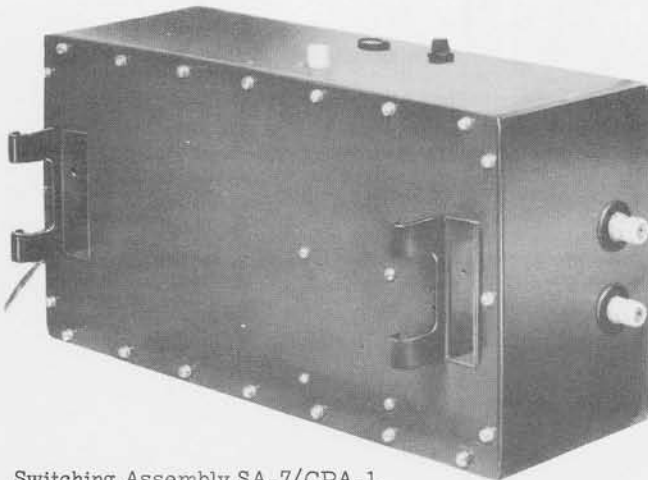
This assembly consists of a collapsible triangular frame-like antenna reflector, and a switching unit for alternating the antenna leads. This set when used with the radar homing beacon, will form a "BABS" system, similar to Radio Set AN/CPN-7.

Power is obtained from 110 volts, 50-60 cycle power source or from a 24 volt dc. source utilizing an inverter. Power input is 20 watts. The equipment operates over a frequency range of 214 - 234 mc.

AN/CPA-1 requires no special test equipment for maintenance or operation.

There were no AAF requirements as of 1 February 1945.

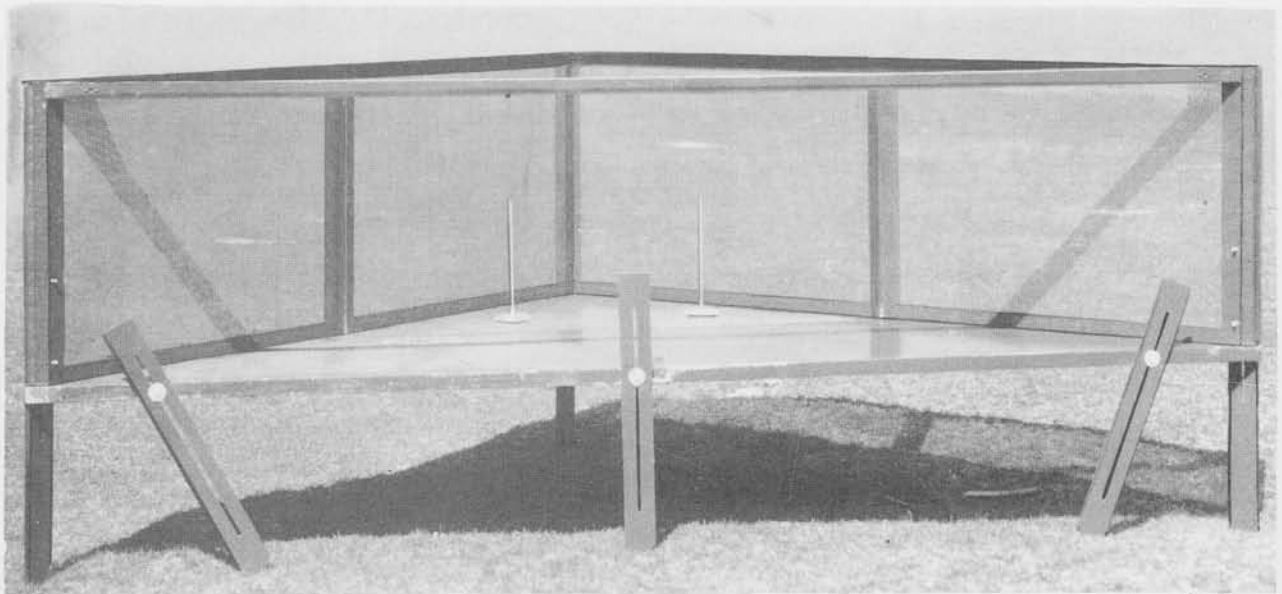
POWER INPUT	20 WATTS @ 110 VOLTS
FREQUENCY	214 - 234 MC.



Switching Assembly SA-7/CPA-1.



Inverter Unit PP-76/CPA-1.



Antenna System AS-30/CPA-1 assembled for operation.

RADAR ANTENNA ASSEMBLY AN/CPA-1 TOTAL WEIGHT 155 LBS.

Component	Nomenclature	Size	Weight
Antenna System	AS-30/CPA-1	54' x 122' x 62'	90 Lbs.
Switching Assembly	SA-7/CPA-1	9' x 10' x 19'	27 Lbs.
Inverter Unit	PP-76/CPA-1	6' x 7' x 7'	10 Lbs.

and includes plugs and cords.
July 1945