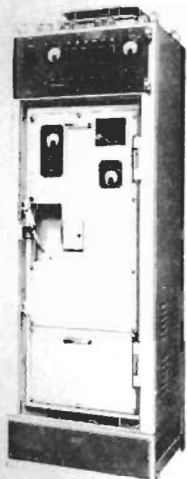


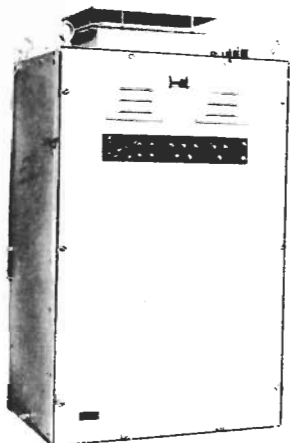
**TYPE 957**

**957**

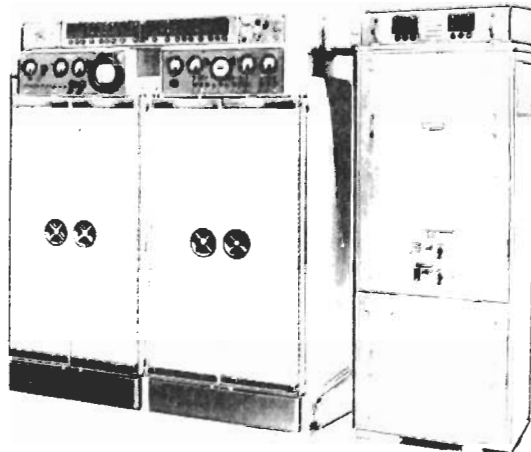
**SUMMARY OF DATA**



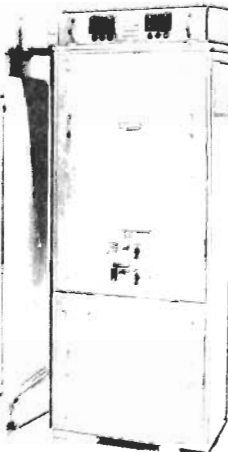
MONITOR R.F.



AERIAL CONTROL  
CABINET



ELECTRONIC CABINETS



AIR CONDITIONER

**PURPOSE**

A short range, approximately 200 miles tactical and general navigation system for aircraft providing, in the aircraft, continuous range and bearing information of the beacon.

**BRIEF DESCRIPTION**

The system provides continuous meter indication in the aircraft of the bearing of the transmitting beacon, to any number of aircraft, together with aural identification of the particular beacon being received.

Range is obtained in the aircraft by a distance measuring system in which a Tacan transmitter sends a correctly coded pulse, the time delay of the response being used to indicate the distance in miles from the beacon. The beacon can provide this information for up to 100 aircraft.

**TYPE OF TRANSMISSION**

Pulse coding, Pulse duration  $3.5 \pm 0.5 \mu s$ .  
Peak Power 5 kW, Pulse pairs spaced  $12 \mu s \pm 0.5 \mu s$ .

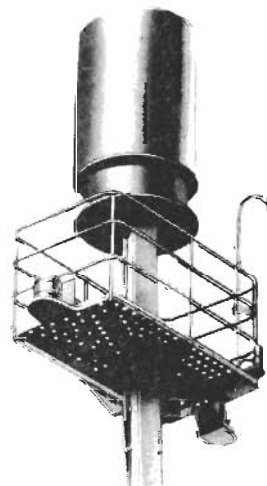
**FREQUENCY RANGE**

Transmit 962 to 1024 MHz (Low Band)  
1151 to 1213 MHz (High Band)  
Receive 1025 to 1110 MHz.  
There are 126 channels available.

**AERIAL SYSTEM**

Aerial Outfit AMG.

This consists of a central array which produces the required vertical radiation pattern, and two rotating cylinders (900 r.p.m.) carrying the parasitic elements which give 15 Hz and 135 Hz sine wave modulation, used in connection with bearing information.



AERIAL OUTFIT AMG

BR 333(1)

Original

## RESTRICTED

### MAJOR UNITS

NSN	Description	Height	Diameter	Weight	
5825-99-932-5351 5825-99-932-5318	Aerial Assembly (High Band) Aerial Assembly (Low Band)	69½ in 77½ in	43½ in 43½ in	425 lb 425 lb	
5825-99-932-5319 5825-99-932-5358) 5825-99-932-5359) AP 63150 6625-99-943-3584	Aerial Control Cabinet Electronic Cabinets Air Conditioner Monitor R.F.	Height	Width	Depth	Weight
		70 in	24½ in	18 in	500 lb
		77 in	66 in	29 in	2900 lb
		65 in 36 in	24 in 24 in	24 in 16 in	200 lb 300 lb

### POWER REQUIREMENTS

400/416/440 V 3 phase 45/65 Hz

8 kVA approximately, including aerial motor supplies.

### HANDBOOKS

AP 2534L BR 2135

### ESTABLISHMENT LIST

E 1225

### INSTALLATION SPECIFICATION

B883

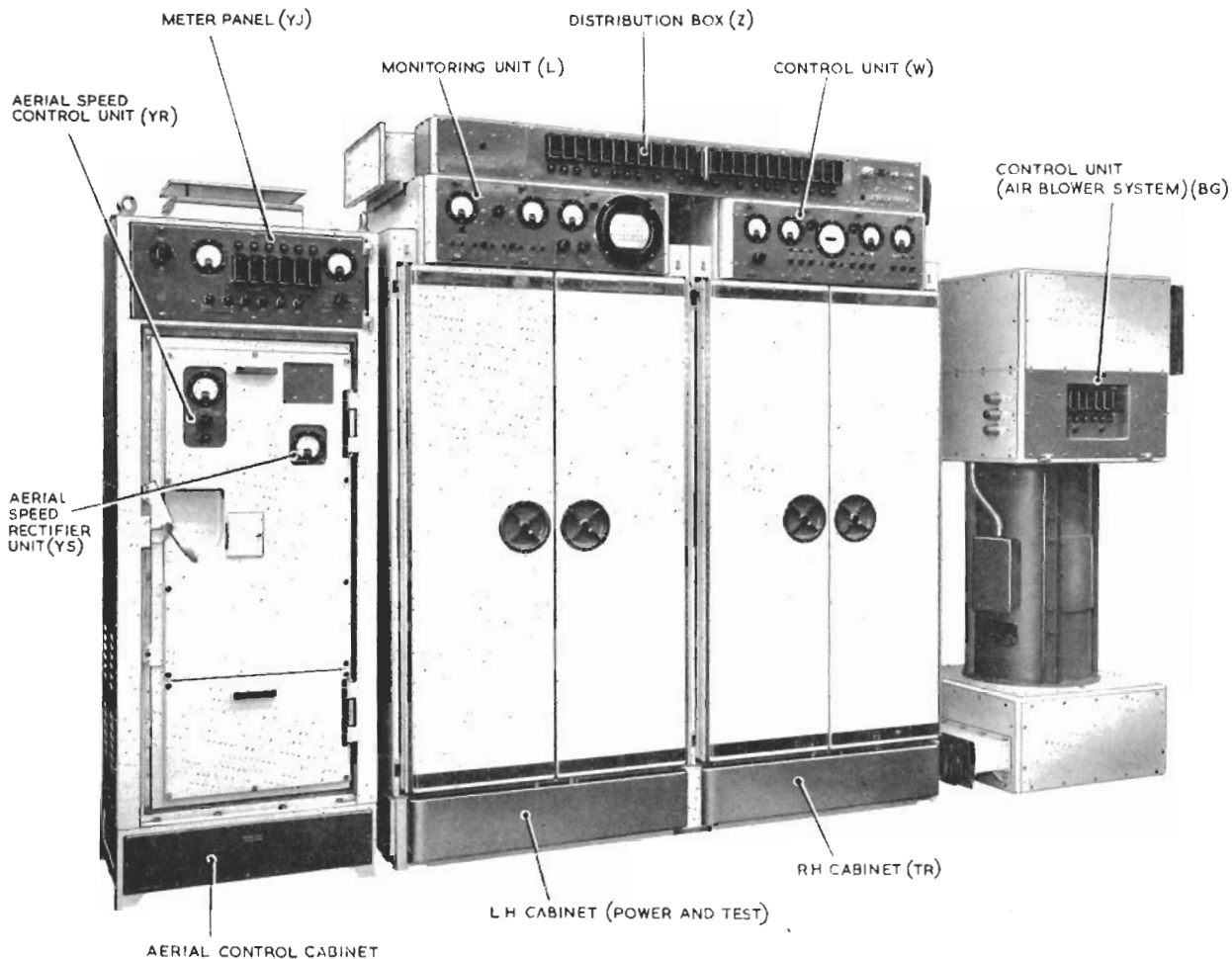


Fig. 2. TACAN beacon equipment general view