

AERIAL OUTFIT AKC(2)

AKC(2)

SUMMARY OF DATA

PURPOSE

For use with Type 992M.

BEAM WIDTH

Horizontal (to half power) 2°  
Vertical (to half power) 32°  
Beam elevated 15°

BRIEF DESCRIPTION

The aerial consists of a streamlined single cheese reflector for combined transmission and reception. It is stabilised for pitch and roll, protective circuits coming into operation if pitch exceeds ± 6° and if roll exceeds ± 24°. The extreme mechanical limits of pitch and roll are ± 12° and ± 32° respectively. In manual training only the aerial is also stabilised in azimuth.

The aerial training control system normally operates in auto at constant speed, the manual control facility is primarily for testing and tuning purposes. In auto-training, the rotation speed may be switched to SLOW (0 - 12 r.p.m.) or FAST (45 r.p.m.).



MAJOR UNITS

	Patt. No.	Description
<u>Aerial Pedestal Assembly</u>		
1.	68586A	Aerial Assembly for Outfit AKC.
2.	68072	Pedestal Unit 58A.
3.	68071A	Reflector Design 9 with flare.
4.	68083	Waveguide Assembly Design 3.
5.	68479	Hoisting & Assembly Framework.
<u>Aerial Control Group (Assembly NN)</u>		
6.	68106	Cabinet Design 44 Fire Detector.
7.	68004	Meter Unit Design 11.
8.	68105	Fire Detector Control Unit.
9.	172817	Cabinet Aerial Control.
10.	68075	Aerial Indicator Unit.
11.	68174	Relay Unit Design 54.
12.	68076A	Aerial Control Drawer.
13.	68077A	Amplifier, Amplidyne Drawer.
14.	186272	Aerial Bearing Transmission Drawer.
15.	68115	Board Distribution 40 way (2 in No.)
<u>Miscellaneous</u>		
16.	186272	Aerial Bearing Transmission Drawer (housed in Assembly GL).
17.	68079	AC/DC/DC/DC Motor Generator Amplidyne.
18.	68080	Starter for 5 h.p. Motor, 440 V.
19.	61394	Stable Element Drawer 400 Hz
20.	61388	Stable Element 400 Hz
21.	172006	Dry Air Distribution Unit.

NOTES: Items 2, 3 and 4 are housed in Item 1.  
Items 7 and 8 are housed in Item 6.  
Items 10 to 14 inc. are housed in item 9.  
Items 19, 20 and 21 are fitted in Assembly JJ - Cabinet R.F. Monitoring.

PHYSICAL DATA

Weight of mast fitted equipment 1500 lbs approx.  
Weight of office equipment 1800 lbs approx.  
Size of Reflector 12 ft by 4 ft approx. overall  
Weight of rotating element 160 lbs

## RESTRICTED

BR 333(1)  
Original

### POWER REQUIREMENTS

440 V 60 Hz 7.6 kVA  
60 V 60 Hz 1 Ø 0.25 kVA  
115 V 400 Hz 3 Ø 0.312 kVA  
220 V d.c. 0.25 kW.

### HANDBOOK

BR 2418(1)(2)

### ESTABLISHMENT LIST

E 1324

### INSTALLATION SPECIFICATION

M 5145 Appendix 'F' and Addenda 'A' and 'B'.