

## AERIAL OUTFIT AQT

## SUMMARY OF DATA

## PURPOSE

Aerial Outfit AQT is used with Type 983 and Display Outfit JS (Panel L48) for accurate height-finding. When not required for height-finding it can be used for providing surface and low air warning. When height-finding it is trained on the target by azication from a Type 982/960 display.

## BEAM-WIDTH

Horizontal -  $5^{\circ}$  (to half field strength)

Vertical -  $2.1^{\circ}$  (to half field strength)

## POWER REQUIREMENTS

220V. D.C. - 20 amps (60 amps peak)  
 24V. D.C. - 20 amps (inc. 5 amps for stabilisers)  
 200V. 1100 c/s. 1 PH - 5 amps (inc. supply to the 200/20V transformer in Distribution Board)  
 20V. 1100 c/s. 1 PH - 7 amps (from the 200/20V. transformer in Distribution Board)  
 120V. 333 c/s. 3 PH - 2.4 amps (13.6 amps for first 4 mins.)  
 50V. 50 c/s. 3 PH - 5 amps.

## MAJOR UNITS

Aerial Outfit AQT comprises the following D.R.E., D.N.O. and D.E.E. items as follows:-

D.R.E. ITEMS

1. Patt. 53177 Air Conditioning Unit Des. 4
2. Patt. 56773 Waveguide Size 'A' Matching Unit
3. Patt. 56807 Standing Wave Ratio Indicator
4. Patt. 57592 Control Unit 20M
- \*5. Patt. 57600 Deck Plane Corrector
6. Patt. 59997 Waveguide Size 'A' Flare Des. 17
7. Patt. 65109 Azimuth Stabilisation Corrector Des. 2
8. Patt. 65110 Clutch Unit Outfit AQS/T
9. Patt. 65114 Waveguide Size 'A' Joint Rotating Des. 1
10. Patt. 65115 Waveguide Size 'A' Joint Rotating Des. 2
11. Patt. 65116 Oil Pressure Generating Unit Des. 1
12. Patt. 65117 Oil Pressure Generating Unit Des. 2
13. Patt. 65118 Clutch Operating Unit Outfits AQS/T
14. Patt. 65127 Hoisting Gear for Outfit AQT
15. Patt. 65128 Aerial Unit Design 31
16. Patt. 65294 Amplifier W5
17. Patt. 66439 Contactor Unit Design 10
18. Patt. 66917 Indicator Bearing Tape Type

Items 2, 3, 6, 7, 8, 9, 10, 11, 12, 13 and 17 are components of Item 15. Item 16 is a component of Item 5

\* Only one Patt. 57600 Deck Plane Corrector is allowed per ship irrespective of number of Outfits AQS/T.

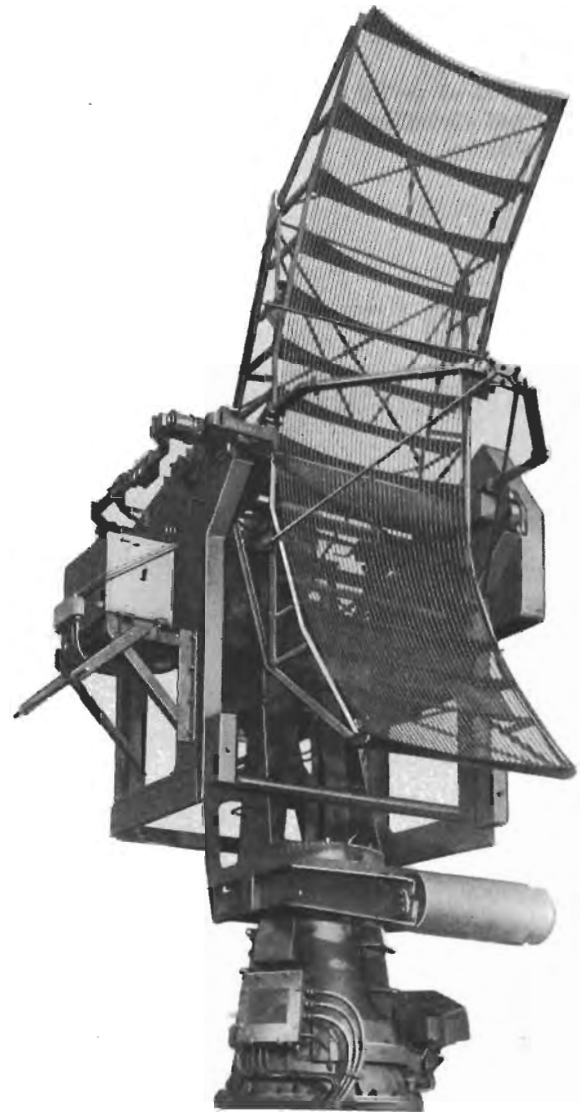
D.N.O. ITEMS

1. Stabiliser M Mk I
2. Stabiliser M Mk II

D.E.E. ITEMS

1. Metadyne Set comprising:-
  - (a) Metadyne Generator (MD/74CW)
  - (b) Twin Metadyne Generator (MD75G/74G)
2. Motor (Roll along and Roll across) AY118BZ
3. Motor Training (1419ASX)
4. Auto Starter (30 amps B.E.M.F.) for Metadyne Set
5. R.P.C. Contactor Control Panel

Item 1 (D.N.O.), Item 2 (D.N.O.), Item 2 (D.E.E.) and Item 3 (D.E.E.) are components of Item 15 (D.R.E.).



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## PHYSICAL DATA

Aerial Unit weighs approximately 7 tons

Reflector Measures 14' 6" high by 5' wide.

## BRIEF DESCRIPTION

The aerial is triaxially stabilised to 6 minutes of arc and has a training speed continuously variable to maximum of 7 revs. per minute.

Control of aerial training in local control is done by Patt. 57592 Control Unit 201. Remote control of training and elevation (normally in Radar Display Room) is determined by settings on Patt. 57859/59399 Control Units 20Q/S.

## HANDBOOK

B.R.2107(1)(2)(3).

## ESTABLISHMENT LIST

E.854

## INSTALLATION SPECIFICATION

B.671 (Key Diagrams)

B.673 (Aerial Outfit AQT)



## RESTRICTED

BR 333(1)  
Original

### POWER REQUIREMENTS

220 V d.c. - 20 amps (60 amps peak)  
24 V d.c. - 20 amps (inc. 5 amps for stabilisers)  
200 V 1100 Hz 1 phase - 5 amps (inc. supply to the 200/20 V transformer in Distribution Board)  
20 V 1100 Hz 1 phase - 7 amps (from the 200/20 V transformer in Distribution Board)  
120 V 333 Hz 3 phase - 2.4 amps (13.6 amps for first 4 minutes)  
50 V 50 Hz 3 phase - 5 amps

### HANDBOOK

BR 2107(1)(2)(3)

### ESTABLISHMENT LIST

E 854

### INSTALLATION SPECIFICATION

B 671 (Key Diagrams)  
B 673 (Aerial Outfit AQT)