

TYPE 982  
SUMMARY OF DATA

PURPOSE	Type 982 with Aerial Outfit AQS is designed to give warning of air and surface targets.		
FREQUENCY	3000 Mc/s (10 cms)	PULSE LENGTHS	0.7 or 1.9 microseconds
POWER OUTPUT	500 kW (peak)	BEAM WIDTH	2.2° horizontal (half field strength) 19° vertical (half field strength)
PULSE REPETITION FREQUENCY	500 pulses per second	INTERMEDIATE FREQUENCY	13.5 Mc/s.
POWER REQUIREMENTS	180V. 500 c/s - 4 kW 230V. 50 c/s 3 PH - 3.5 kW 120V. 333 c/s - 1 kW 120V. 1100 c/s - 2 kW 220V. D.C. - 17.5 kW 24V. D.C. - 1.5 kW	RECEIVER BAND-WIDTHS	4 Mc/s, 1 Mc/s or 0.5 Mc/s.

Common power supplies to Aerial Outfit AQS taken from Office Distribution Board.

MAJOR UNITS

(a) Transmitter and Modulator

1. Patt. 53177 Air Conditioning Unit Des. 4
2. Patt. W7556 Soundproof Cabinet for Blower
3. Patt. W6177 Transmitter 9T
4. Patt. 58422 Output Unit Des. 3
5. Patt. 66501 Panel 3CC Rectifying and Modulating
6. Patt. 66584 Meter Unit, Field Strength (Waveguide)
7. Patt. 66765 Spectrometer Cavity Resonator Unit
8. Patt. 66766 Spectrometer Display Unit
9. Patt. 66848 Signal Generator (Noise)
10. Patt. W9199 Matching Unit Des. A
11. Patt. 58222 Frequency Changer Unit Des. 6
12. Patt. 58423 Switch Unit, Common Aerial
13. Patt. W5287A Wavemonitor G86
14. Patt. 55941 Temperature Control Unit 133°F (Mean)
15. Patt. 66502 Trigger Unit Des. 10
16. Patt. 53137 Attenuator Head Des. 1
17. Patt. 59310 Meter Unit Des. 7
18. Patt. 65539 Board Watchkeeping Des. 1
19. Patt. 66589 Neon Plate and Drive TB Des. 2

(b) Receiver Outfit CEL

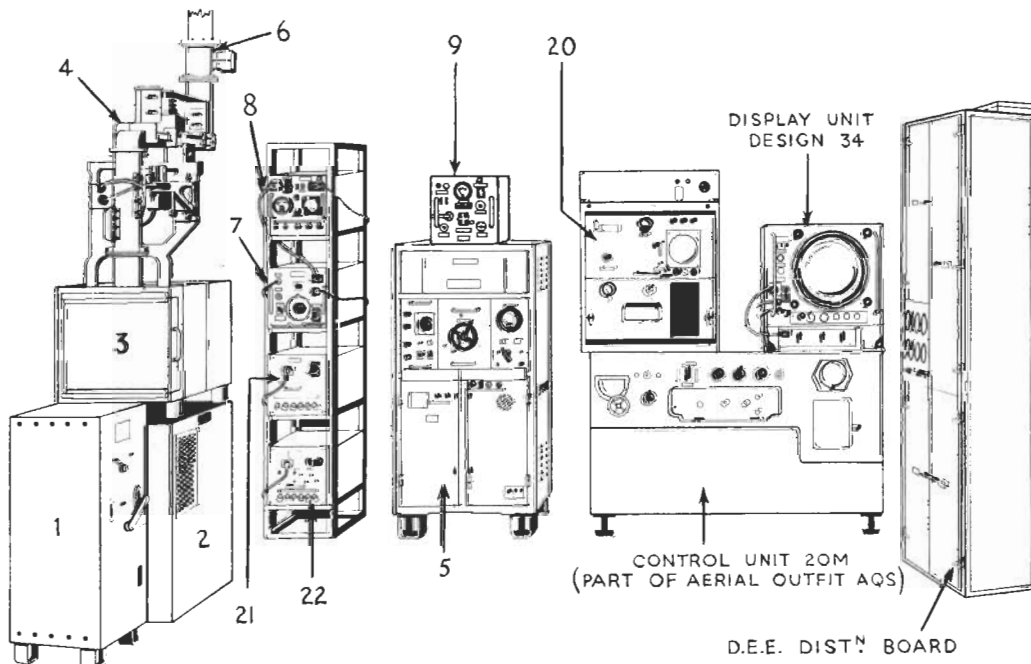
20. Patt. 58363 Panel L53 (Receiving)
21. Patt. 53197 Cathode Follower Unit Des. 5
22. Patt. 53198 Cathode Follower Unit 6 way
23. Patt. 57496 Amplifier Unit I.F. Des. 5
24. Patt. 58234 Cathode Ray Unit Des. 36
25. Patt. 58395 Oscillator G225
26. Patt. 58396 Amplifier Unit I.F. Des. 7
27. Patt. 58397 Cathode Follower Unit Des. 12
28. Patt. 58399 Control Unit Des. 37
29. Patt. 58400 Meter Unit Des. 4
30. Patt. W6811A Rectifier Unit SE6

NOTE

Items 10, 11 and 12 are components of Item 4

Items 13, 14 and 15 are components of Item 5

Items 23 to 30 inclusive are components of Item 20



VIEW OF TYPE 982 OFFICE EQUIPMENT

## ASSOCIATED POWER SUPPLY OUTFIT

A.C. Supply Outfit DVJ (See separate Summary of Data Sheet)

## ASSOCIATED AERIAL OUTFIT

Aerial Outfit AQS (See separate Summary of Data Sheet)

## PHYSICAL DATA

Weight of single office equipment - 34 cwt.

Weight of double office equipment - 60 cwt.

(Types 982/3 combined)

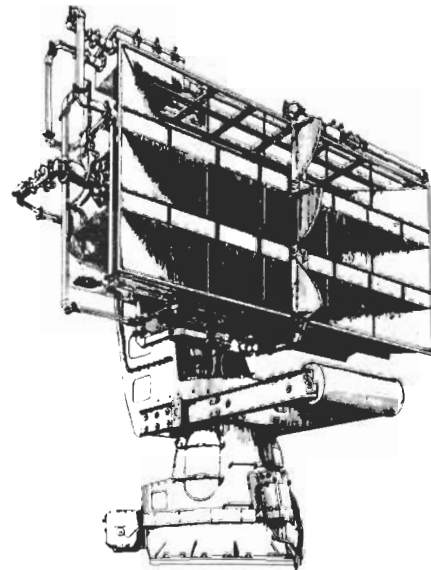
Dimensions of single office - 11' x 12'.

Dimensions of double office - 16' x 14'.

## BRIEF DESCRIPTION

Type 982 uses essentially the same panels as Types 277 P/Q and 293 P/Q but has a different aerial and aerial control system. The aerial rotates in synchronism with the Type 960 aerial, and has a high bearing accuracy so that the plan display of this set can be used for training Type 983 on the target for height finding.

The radar office, besides containing the modulator, transmitter and receiver panels, also contains an indicator outfit and aerial control unit (Control Unit 20M) which are normally used only for initial setting up and monitoring purposes, most operational control being effected from the Radar Display Room. However, in the event of damage or breakdown, the office can be used as an emergency operating position.



AERIAL OUTFIT AQS

HANDBOOK

B.R.2161(1)(2)

ESTABLISHMENT LIST

E.529 1507

INSTALLATION SPECIFICATION

B.674