

RESTRICTED

## DISPLAY OUTFIT JJ1

### SUMMARY OF DATA

#### PURPOSE

Display Outfit JJ1 is used for height estimation in conjunction with Types 79B and 281 series.

#### POWER REQUIREMENTS

180 volts 500 c/s at 150 watts  
 24 volts D.C. at 24 watts  
 220 volts D.C. at 50 watts

#### MAJOR UNITS

1. Patt. 54532/A Panel L43
2. Patt. 56944/A Time Base Unit Design 19
3. Patt. 56945/A Cathode Ray Unit Design 30
4. Patt. 57440 Framework Steel 8½" x 24" x 18½" high
5. Patt. 57845 Framework Steel 26" x 25½" x 35" high
6. Patt. 56196 Framework Steel for Panel L43
7. Patt. 59471 Selector Unit (Sector) Design 3
8. Patt. W5212 Aerial and Gyro Repeater Design A
9. Patt. 57698 Aerial and Gyro Repeater Design 8

#### NOTES

- (1) Items 2 and 3 are parts of Item 1
- (2) Item 8 is only required when fitted in conjunction with Type 281/B/P/BP
- (3) Item 9 is only required when fitted in conjunction with Types 79B and 281EM/BQ

#### PHYSICAL DATA

Weight of Display Outfit JJ1 - 330 lb. (approx.)  
 Overall dimensions of Display Outfit JJ1 - 5' high by  
 2' 1½" wide by 2' deep.

Outfit JJ1 should be sited in the Radar Display Room (or Height Filtering Position) as shown in the appropriate layouts for the ship concerned.

#### POWER SUPPLY OUTFIT

The 180 volts 500 c/s supply should be taken from any convenient Radar power supply which is constantly operating. The D.C. supplies should be taken from the ship's D.C. mains.

**HEAT DISSIPATION** 220 watts  
**IN OFFICE**

#### BRIEF DESCRIPTION

Panel L43 of Display Outfit JJ1 is a sector scan unit used to display Radar echoes in a given selected bearing whilst the aerial of the Radar set is rotating continuously, i.e. a display similar to that produced on an A-Scan if the aerial were stopped on the desired bearing. This bearing is chosen by a sector selector unit and the sector thus displayed is approximately 4°. The screen of the cathode ray tube used has a long afterglow and therefore the trace with the echoes on it fades slowly (approximately ten seconds duration). Height estimation depends on the accurate measurement of the decibel amplitude of echoes and it is obvious that such measurement can only be done on an A-Scan. The figures thus obtained are plotted on the calculated decibel vertical coverage diagram for the particular set and from this the heights can be estimated. The Radar trace can be permanently displayed if desired for any particular reason.

#### HANDBOOK

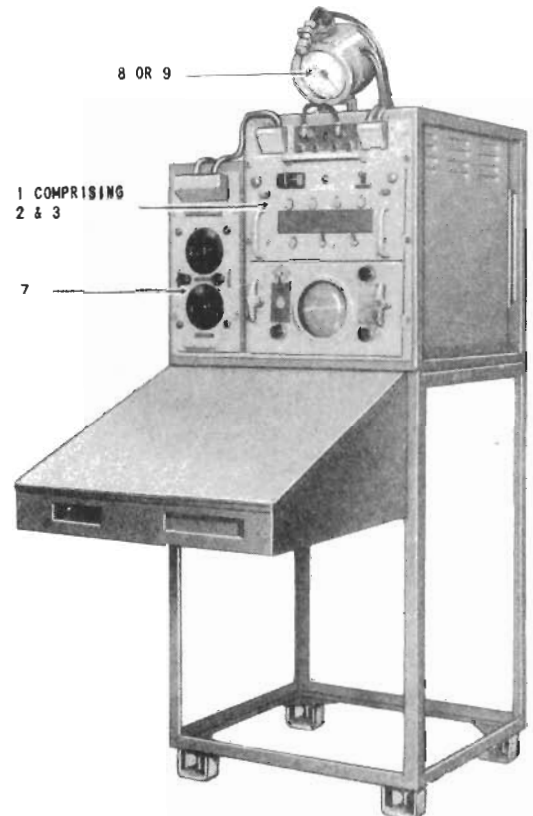
B.R. 1512

#### ESTABLISHMENT LIST

E 832

#### INSTALLATION SPECIFICATION

B 534



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