DISPLAY OUTFIT JJ1

SUMMARY OF DATA

PURPOSE
Display Outfit JJ1 is used for height estimation in conjunction with Types 728 and 201 series.

POWER REQUIREMENTS

- 180 volts 500 c/s at 150 watts
- 20 volts D.C. at 25 watts
- 220 volts D.C. at 50 watts

MAJOR UNITS

1. PATT. 54101/A Panel LAA
2. PATT. 5694/A Time Base Unit Design 19
3. PATT. 5694/A Cathode Ray Unit Design 30
4. PATT. 57140 Framework Steel 3/16 x 3/16 x 1/8 high
5. PATT. 57844 Framework Steel 5/16 x 3/16 x 5/16 high
6. PATT. 56596 Framework Steel for Panel LAA
7. PATT. 59622 Selector Unit Identical Design 3
8. PATT. 55121 Aerial and Gyro Repeater Design A
9. PATT. 57690 Aerial and Gyro Repeater Design B

NOTES

- (1) Items 2 and 3 are parts of Item 1
- (2) Item 8 is only required when fitted in conjunction with Type 201/D3/P
- (3) Item 9 is only required when fitted in conjunction with Type 728 and 201/D3/P.

PHYSICAL DATA

- Weight of Display Outfit JJ1 = 330 lb. (approx.)
- Overall dimensions of Display Outfit JJ1 = 5' high by 21 1/2" wide by 37 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 110 volts 500 c/s supply should be taken from the convenient Radar power supply which is constantly operating. The D.C. supply should be taken from the ship's D.C. mains.

HEAT DISSIPATION

- 220 watts

BRIEF DESCRIPTION

Panel LAA of Display Outfit JJ1 is a sector scan unit used to display Radar beams 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 10°. The screen of the cathode ray tube used has a large 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 obtained 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

- £ 82

INSTALLATION SPECIFICATION

- £ 534