DISPLAY OUTFITS JH1 and JH2.
SUMMARY OF DATA

PURPOSE

Display Outfits JH1 and JH2 are used for remote presentations of I.F.F. responses with their associated radar echoes.

POWER REQUIREMENTS AND CONSUMPTION

180V 500 c/s, 200 watts
220 V, 50 c/s, 550 watts
If ranging Outfit J1R or K1R is fitted with Indicator Outfit J1I, a further 50 watts at 180V 500 c/s is required.

Heat dissipation in office

J1, J2 = 220 watts
J1R, K1R = 60 watts

MAJOR UNITS

(a) Display Outfit JH1

1. Pott. 5053A Panel LA
2. Pott. 5056A/A Time Base Unit Design 19
3. Pott. 5064A Cathode Ray Unit Design 30
4. Pott. 5619S Feedback (Effective) for Panel LA
5. Pott. 5846S Switch Unit Design 25
6. Pott. 5585S Local Remote C.O.D. Design 25
7. Pott. 50213 Aircraft Gyro Repeater Design A
8. Pott. 50740 Potentiometer Unit (Gain Control)

Items 2 and 3 are components of Item 1.
Item 6 is fitted in Type 203 office.

(b) Display Outfit JH2

1. Pott. 5053A Panel LA
2. Pott. 5056A/A Time Base Unit Design 19
3. Pott. 5064A Cathode Ray Unit Design 30
4. Pott. 5008S Sector Selector Unit C.O.D.
5. Pott. 55213 Aircraft Gyro Repeater Unit Design A
6. Pott. 57261 Basic for Outfit JH2
7. Pott. 5739S Gain Control and Switch Unit
8. Pott. 5739U Generator Strobe & Signal Unit Des. 7
9. Pott. 5533S Generator Strobe Design 1
11. Pott. 50740 Potentiometer Unit (Gain Control)
12. Pott. 57262 Power Supply for Band A.P. 277S

Items 2 and 3 are components of Item 1
Item 7 is a component of Item 6
Items 1, 4, and 9 or 10 are housed in Item 6
Items 10 and 11 are fitted in Type 277 office provided that Outfit JH2 is fitted remotely from Type 277 (or in R.A.F.)
Item 8 is fitted with Type 277 series
Item 10 is fitted with Type 251 series

PHYSICAL DATA

Total height of Display Outfit JH1 = 2 cwt.
Total height of Display Outfit JH2 = 3 cwt.
Dimensions of Display Outfit JH1 = 15" x 4" wide 2' deep and 25" high
Dimensions of Display Outfit JH2 = 19" x 4" wide 2' deep and 60" high

POWER SUPPLY OUTFIT

The 150 volts 500 c/s supply is taken from any convenient a.c. supply outfit which is constantly operating (if possible that for Type 277). The 22 volts d.c. supply is taken from the ship's low power system.
Display Outfits J11 and J32 are used to display the radar echoes and I.F.P. echoes on the same C.R. tube. Display Outfit J11 is fitted in the own direction beam (O.D.B.) with T.I.D. plus A and I2 gating in conjunction with Types RM2/23 series. Display Outfit J32 is fitted in the radar display beam (R.D.B.) or Height Finding Position (H.F.P.) working in conjunction with Types RM2/27 series and also with Types RM2/25H series.

Panel L10 has two A scans, the upper displaying radar echoes and the lower the I.F.P. responses. The radar signals are only applied to C.R. tube when the radar aerial, which is rotating continuously, passes through the middle of the sector (12° wide) on which the interrogator aerial is trained. Remote control of the interrogator aerial, its operation, and interrogator gain are included in the outfits.

In Display Outfit J11, the sector selector unit, which trains the interrogator aerial and chooses the radar sector, is fitted as part of the associated T.I.D., a ranging strobe being provided by Ranging Outfit RM2 or RM1 if fitted. In Display Outfit J32, a separate sector selector unit is fitted as part of the outfit and a strobe generator is also provided for ranging purposes. The radar trace can, if desired, be made to appear continuously on the upper trace but should this be done, interrogation cannot be carried out.