

RESTRICTED

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
22V D.C. 22 watts

If ranging Outfit RTF or RTK is fitted with Indicator Outfit JH1, a further 60 watts at 180V 500 c/s is required.

HEAT DISSIPATION

JH1, JH2 - 220 watts

IN OFFICE

RTF, RTK - 60 watts

MAJOR UNITS

(a) Display Outfit JH1

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. 56196 Framework (Steel) for Panel L43
5. Patt. 56045 Switch Unit Design 22
6. Patt. 55863 Local Remote C.O.S. Design 25
7. Patt. W5212 Aerial & Gyro Repeater Design A
8. Patt. 55740 Potentiometer Unit (Gain Control)

Items 2 and 3 are components of Item 1.

Item 6 is fitted in Type 293 office.

(b) Display Outfit JH2

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. 19084 Sector Selector Unit S.E.2.
5. Patt. W5212 Aerial & Gyro Repeater Unit Design A
6. Patt. 57261 Rack for Outfit JH2
7. Patt. 57264 Gain Control and Switch Unit
8. Patt. W7384B Generator Strobe & Signal Unit Des. F
9. Patt. 58338 Generator Strobe Design 1
10. Patt. 55863 Local/Remote C.O.S. Design 25
11. Patt. 55740 Potentiometer Unit (Gain Control)
12. Patt. 57262 Frame Support for Rack A.P.57261

Items 2 and 3 are components of Item 1

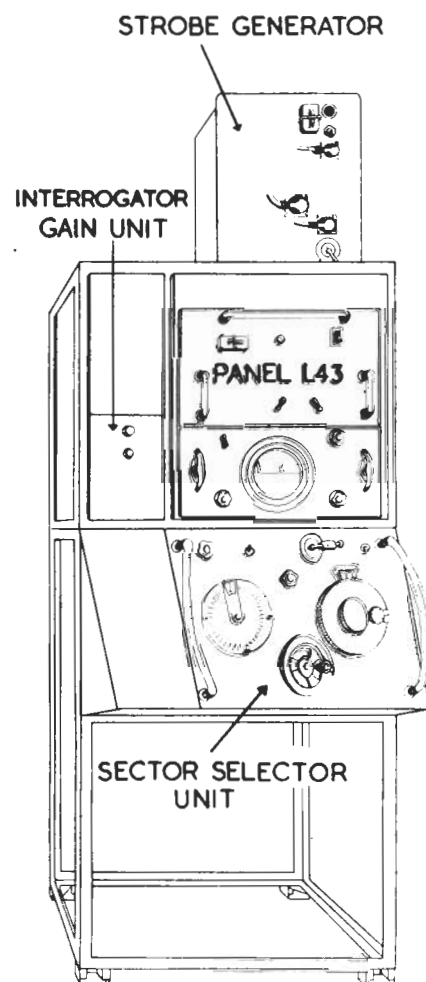
Item 7 is a component of Item 6

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.D.R.).

Item 8 is fitted with Type 277 series

Item 10 is fitted with Type 281 series



DISPLAY OUTFIT JH2

PHYSICAL DATA

Total Weight of Display Outfit JH1 - 2 cwt.

Total Weight of Display Outfit JH2 - 3 cwt.

Dimensions of Display Outfit JH1 - 1'5½" wide 2' deep and 2'5" high

Dimensions of Display Outfit JH2 - 1'9½" wide 2' deep and 6'5" high

POWER SUPPLY OUTFIT

The 180 volts 500 c/s supply is taken from any convenient radar 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.

BRIEF DESCRIPTION

Display Outfits JH1 and JH2 are used to display the radar echoes and I.F.F. echoes on the same C.R. tube. Display Outfit JH1 is fitted in the Gun Direction Room (G.D.R.) with T.I.U. Mks 2A and 2B working in conjunction with Types 242M/293 Series. Display Outfit JH2 is fitted in the Radar Display Room (R.D.R.) or Height Finding Position (H.F.P.) working in conjunction with Types 242M/277 series and also with Types 243Q/281 series.

Panel L43 has two A scans, the upper displaying radar echoes and the lower the I.F.F. 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 (4° 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 JH1 the sector selector unit, (which trains the interrogator aerial and chooses the Radar Sector) is fitted as part of the associated T.I.U., a ranging strobe being provided by Ranging Outfit RTF or RTK if fitted. In Display Outfit JH2, 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.

HANDBOOK

B.R.1512

ESTABLISHMENT LIST

E332

INSTALLATION SPECIFICATIONS

B.530 (Display Outfit JH1)

B.531 (Display Outfit JH2)