

RESTRICTED

DISPLAY OUTFITS JD, JE and JN

PURPOSE AND ASSOCIATED DISPLAY UNITS

JD  
JE  
JN

Outfit Name	Purpose	Major Unit
JD1	H.P.I. with Types 277/P/Q: (Remote): non-switchable.	Pat. 59882 Display Unit, Des. 26
JD2	E.P.I. with Type 275: (Office): non-switchable.	Pat. 59881 Display Unit, Des. 25
JE11A	P.P.I. with Types 267M/MW: (Office): non-switchable: obsolescent.	Pat. 59880A Display Unit, Des. 24
JE11B	P.P.I. with Types 267M/MW: (Remote): non-switchable: obsolescent.	Pat. 59880A Display Unit, Des. 24
JE12A	P.P.I. with Types 271 or 273Q/QR: (Office): non-switchable: obsolescent.	Pat. 58370 Display Unit, Des. 17
JE12B	P.P.I. with Types 272P/PR: (Office): non-switchable: obsolescent.	Pat. 58370 Display Unit, Des. 17
JE12C	P.P.I. with Types 276 or 277/P/Q or 293M/P/Q: (Office): non-switchable.	Pat. 58370 Display Unit, Des. 17
JE12CM	P.P.I. with Types 277P/Q or 293/P/Q or 982/983: (Office): non-switchable: Modified for use with Auto-aligning Mark 2.	Pat. 66684 Display Unit, Des. 34
JE12E	P.P.I. with Type 291M: (Office): non-switchable.	Pat. 58370 Display Unit, Des. 17
JE13	P.P.I. with Types 281/B/BP/BQ: (Office): non-switchable: obsolescent.	Pat. 58368 Display Unit, Des. 15
JE14A	Coupled pair of P.P.I.s with Types 281BP/BQ: (Office): non-switchable: obsolescent.	{ Pat. 58367 Display Unit, Des. 14 (inner) Pat. 58369 Display Unit, Des. 16 (outer)
JE14C	Coupled pair of P.P.I.s with Types 281BP/BQ or 960 (Remote): non-switchable.	{ Pat. 58367 Display Unit, Des. 14 (inner) Pat. 58369 Display Unit, Des. 16 (outer)
JE14CM	Coupled pair of P.P.I.s with Type 960: (Remote): non-switchable: Modified for use with Auto-aligning Mark 2.	{ Pat. 66682 Display Unit, Des. 32 (inner) Pat. 66683 Display Unit, Des. 33 (outer)
JE14D	Coupled pair of P.P.I.s with Types 960/982/983: (Remote): Inner P.P.I. switchable 960/983/983 or 960/983. Outer P.P.I. switchable 960/982/982 Modified for use with Auto-aligning Mark 2.	{ Pat. 66682 Display Unit, Des. 32 (inner) Pat. 66683 Display Unit, Des. 33 (outer)
JE14E	Coupled pair of P.P.I.s with Types 960/277/277/293 series: (Remote): Inner P.P.I. switchable 960/277/277 or 960/293 Outer P.P.I. switchable 960/293 or 960/277/277	{ Pat. 58367 Display Unit, Des. 14 (inner) Pat. 58369 Display Unit, Des. 16 (outer)
JE14EM	Coupled pair of P.P.I.s with Types 960 and 277P/Q and 293P/Q: (Remote): Inner P.P.I. switchable 960/277/277 or 960/293 Outer P.P.I. switchable 960/293 or 960/277/277 Modified for use with Auto-aligning Mark 2.	{ Pat. 66682 Display Unit, Des. 32 (inner) Pat. 66683 Display Unit, Des. 33 (outer)
JE14F	Coupled pair of P.P.I.s with Types 960/983/983 or 293Q, or with 960 and 277P/Q (1 or 2 in No.) and 293P/Q (if 1 in No. Type 277): Remote: Inner non-switchable Outer (a) Switchable 960/983/983 or 293Q. (b) Switchable 960/277/277 or 293. Modified for use with Auto-aligning Mark 2.	{ Pat. 66682 Display Unit, Des. 32 (inner) Pat. 66683 Display Unit, Des. 33 (outer)

Outfit Name	Purpose	Major Unit
JE21	P.P.I. with Types 281/B/BP/BQ: (Remote): non-switchable: obsolescent.	Pat. 58368 Display Unit, Des. 15
JE22A	P.P.I. with Types 271Q, 273Q/QR, 272P/PR, 276, 277P/Q, 291M, 293M/P/Q, 972A: (Remote): non-switchable.	Pat. 58368 Display Unit, Des. 15
JE22AM	P.P.I. with Types 277P/Q or 293P/Q or 982 or 983: (Remote): non-switchable: Modified for use with Auto-aligning Mark 2.	Pat. 66683 Display Unit, Des. 34
JE22B	P.P.I. with Types 293M/P/Q: (T.I.U. only): non-switchable.	Pat. 58370 Display Unit, Des. 17
JE22BM	P.P.I. with Types 293P/Q: (T.I.U. only): non-switchable: Modified for use with Auto-aligning Mark 2.	Pat. 66684 Display Unit, Des. 34
JE23	P.P.I. with Types 972M: (Office): non-switchable.	Pat. 59934 Display Unit, Des. 28
JE24	P.P.I. with Types 277P/Q or 293M/P/Q: (Remote): weathertight non-switchable.	Pat. 58370 Display Unit, Des. 17
JE24M	P.P.I. with Types 277P/Q or 293P/Q: (Remote): weathertight non-switchable: Modified for use with Auto-aligning Mark 2.	Pat. 66684 Display Unit, Des. 34
JE25B	P.P.I. with Types 281/277 or 293 series, or with 960/277 or 293 series: (Remote): switchable 2 ways.	Pat. 58572 Display Unit, Des. 21
JE25BM	P.P.I. with Types 960 and 293P/Q, or with 960 and 277P/Q: or with 960/982: (Remote): switchable 2 ways: Modified for use with Auto-aligning Mark 2.	Pat. 66686 Display Unit, Des. 36
JE26A	P.P.I. with Types 277/293 series: (Remote): switchable 2 ways.	Pat. 58370 Display Unit, Des. 17
JE26AM	P.P.I. with Types 277P/Q and 293P/Q, or with 982/982: (Remote): switchable 2 ways: Modified for use with Auto-aligning Mark 2.	Pat. 66684 Display Unit, Des. 34
JE26B	P.P.I. with Types 277/293 series (T.I.U. only): switchable 2 ways.	Pat. 58370 Display Unit, Des. 17
JE26BM	P.P.I. with Types 277P/Q and 293P/Q, or with 982 and 293P/Q: (T.I.U. only): switchable 2 ways: Modified for use with Auto-aligning Mark 2.	Pat. 66684 Display Unit, Des. 34
JE26C	P.P.I. with Types 293/277 series: (operation rooms of ships armed with torpedoes): switchable 2 ways.	Pat. 58370 Display Unit, Des. 17
JE26CM	P.P.I. with Types 293P/Q and 277P/Q: (operation rooms of ships armed with torpedoes): switchable 2 ways: Modified for use with Auto-aligning Mark 2.	Pat. 66684 Display Unit, Des. 34
JE27A	P.P.I. with Types 277/293 series: (Remote): weathertight: switchable 2 ways.	Pat. 58370 Display Unit, Des. 17
JE28	P.P.I. with Types 291M/293 series: (Remote): switchable 2 ways.	Pat. 55466 Display Unit, Des. 31
JE29B	P.P.I. with Types 281 or 960/277/293 series: (Remote): switchable 3 ways.	Pat. 58572 Display Unit, Des. 21

Outfit Name	Purpose	Major Unit
JE29EM	P.P.I. with Types 960 and 277P/Q and 277P/Q, or 293P/Q: (Remote): switchable 3 ways: Modified for use with Auto-aligning Mark 2.	Patt. 66684 Display Unit, Des. 34
JE29C	P.P.I. with Types 960/982/982: (R.D.R. & A.D.R. only): switchable 3 ways: Modified for use with Auto-aligning Mark 2.	Patt. 66686 Display Unit, Des. 36
JE30	P.P.I. with Types 277/277/293 series: (Remote): switchable 3 ways.	Patt. 58370 Display Unit, Des. 17
JE30M	P.P.I. with Types 293Q/982/982 or with 293P/Q and 277P/Q and 277P/Q: (Remote): Switchable 3 ways: Modified for use with Auto-aligning Mark 2.	Patt. 66684 Display Unit, Des. 34
JN1	(a) Azicator with Types 960 or 281 series in conjunction with Type 277 series: (Remote): non-switchable.  (b) Azicator with Type 293 series (Torpedo control positions): (Remote): non-switchable.	Patt. 58372 Display Unit, Des. 19
JN2	(a) Azicator with Types 960 in conjunction with Types 277P/Q or 983: (Remote): non-switchable: Modified for use with Auto-aligning Mark 2.  (b) Azicator with Types 293P/Q (Torpedo control positions): (Remote): non-switchable: Modified for use with Auto-aligning Mark 2.	Patt. 66685 Display Unit, Des. 35  or  Patt. 66884 Display Unit, Des. 42

**NOTE**

Each Display Outfit contains all the necessary stores (display units, junction boxes, switchgear etc.) to allow it to be fitted and to operate in the specific positions and with the particular sets for which it is required. Wherever any difference in the stores required to make up complete Display Outfits exists, separate Display Outfit names have been introduced in order to facilitate the allocation of the appropriate stores.

DISPLAY OUTFITS JD, JE and JN  
SUMMARY OF DATA

PURPOSE

Display Outfits JD Series

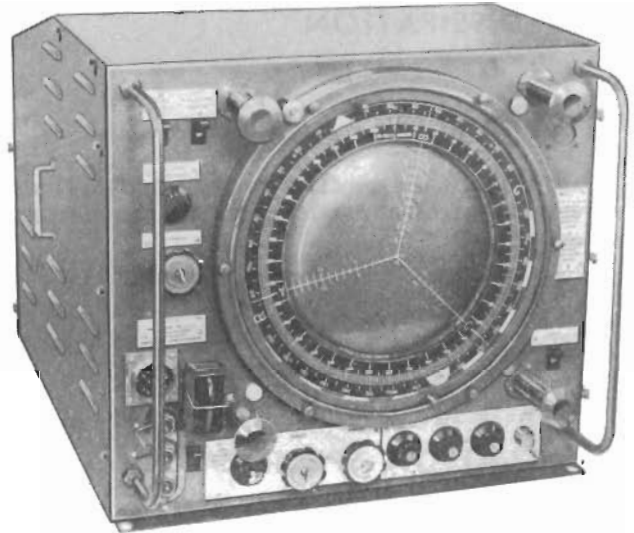
Provides height-finding facilities (H.P.I.).

Display Outfits JE Series

Provides a plan picture from a continuously rotating Aerial (P.P.I.)

Display Outfits JN Series

Provides facilities for lining-up a WCH set aerial with targets on a WA set display (Azicator)



MAJOR UNIT

The major unit of these Display Outfits is the Display Unit, of which the basic design is Patt. 58370 Display Unit Design 17. This Display Unit is modified to suit the various applications and is then given separate pattern and design numbers.

PATT. 58370 DISPLAY UNIT DESIGN 17

PHYSICAL DATA

<u>Height</u>	<u>Width</u>	<u>Depth</u>	<u>Weight</u>
1'4 1/2"	1'6 1/2"	2'0"	110 lbs

BRIEF DESCRIPTION

- Display Outfit JD1 - Height Position Indicator (H.P.I.) consists of either Patt. 59882 Display Unit Des. 26 for Type 277P or Patt. 66757 Display Unit Des. 40 for Type 277Q.
- Display Outfit JD2 - Elevation Position Indicator (E.P.I.) used with Type 275 to facilitate the detection of targets in elevation.
- Display Outfit JE - Plan Position Indicator (P.P.I.) provides a "map-like" view of the area "scanned" by the associated aerial.
- Display Outfit JN1 - Azicator (Azimuth Indicator) for lining-up Type 277P/Q aerial with the P.P.I. display of Type 960.
- Display Outfit JN2 - Azicator for lining-up Type 277P/Q or 983 aerial with the display of either Type 960 or Type 982.

PERFORMANCE

The measured ranges (short range) are accurate, being taken with reference to accurate calibration markers. In bearing, a variation of  $\pm 0.5^\circ$  due to backlash in gearing, must be allowed for, in addition to the fundamental limitations of the associated equipment.

## POWER REQUIREMENTS AND CONSUMPTION

Power Supply - 180 volts 500 c/s

Consumption - 225 watts

## HEAT DISSIPATION

- 225 watts

## REMARKS

Appendix A and Appendix B to C.A.F.O. 198/50 also to B.R. 2010 tabulates the modifications incorporated in the various designs of display units and the development of the various designs from the original basic unit respectively.

## HANDBOOK

B.R. 2010

## ESTABLISHMENT LIST

E890

## INSTALLATION SPECIFICATION

B312