

DISPLAY OUTFITS JL and JM
SUMMARY OF DATA

PURPOSE

Display Outfits JL and JM utilise the Universal Display Unit. The variations of these equipments and their functions are:-

- (a) Display Outfit JL1 Fitted with Type 960 not modified for Auto-Aligning Mark 2 as (i) the Type 960 office display (ii) remote in the R.D.R. for height estimation purposes and (iii) the spare Universal Display Unit.
- (b) Display Outfit JLiM Fitted with Type 960 modified for Auto-aligning Mark 2 and performing same functions as Display Outfit JL1.
- (c) Display Outfit JM1 Fitted with Types 960/277/242P where Types 960 and 277 are not modified for Auto aligning Mark 2 in the R.D.R. for remote display of interrogation and switchable between Type 960 and 277 (1 or 2 in number).
- (d) Display Outfit JM1M Fitted with Types 960/982/242Q or with Types 960/277/242P where Types 960 and 277 have been modified for Auto aligning Mark 2 in the R.D.R. for the remote display of interrogation and switchable between Types 960 and 982 (1 or 2 in number) or 277 (1 or 2 in number).

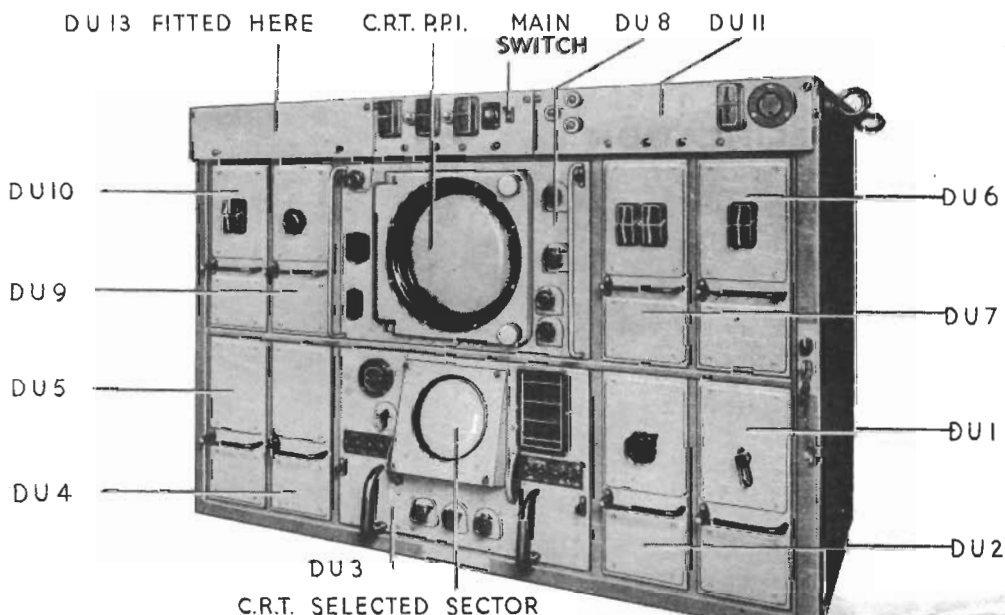
MAJOR UNITS

DU1	Patt. 58799	Range Calibrator, Design 4	DU10	Patt. 58808	Rectifier Unit, Design 106
DU2	Patt. 58800	Amplifier Unit Video, Design 3	DU11	Patt. 58809	Switch Unit, Design 34
DU3	Patt. 58801	Cathode Ray Unit, Design 37	DU12	Patt. 58797	Switch Unit, Design 32
DU4	Patt. 58802	Time Base Unit, Design 27	DU13	Patt. 58810	Control Unit, Design 40
DU5	Patt. 58803	Generator (Strobe) Unit, Design 2			(Display Outfits JL1 and JLiM only)
DU6	Patt. 58804	Rectifier Unit, Design 104			(Component part of Type 960)
DU7	Patt. 58805	Rectifier Unit, Design 105			or
DU8	Patt. 58806	Display Unit, Design 23	DU13	Patt. 65191	Remote Control Panel, Design 51
	or				(Display Outfits JM1 and JM1M only)
DU8	Patt. 66691	Display Unit, Design 37			(Component part of Type 242P/Q)
DU9	Patt. 58807/A	Time Base & Video Amplifier Unit			

Unit DU8, Patt. 58806 is fitted in Display Outfits JL1 and JM1 only
Unit DU8, Patt. 66691 is fitted in Display Outfits JLiM and JM1M only)

Units DU1 to DU13 inclusive are fitted in one of the following:-

- DU14 Patt. 57104 Display Panel, Design 1 (Display Outfits JL1 and JM1 only)
- or
- DU14 Patt. 66687/A Display Panel, Design 3 (Display Outfits JLiM and JM1M only)



ANCILLARY EQUIPMENT

Ancillary equipment for these outfits is supplied as part of A.I.C. Outfits FDA, FDB and FDC.

POWER REQUIREMENTS

(i) 180 volts, 500 c/s - 5 amps (ii) 220 volts, D.C. - 1 amp (iii) 22 volts, D.C. - 5 amps.

A gyro supply for one Mark 10 'M' type motor is also required.

HEAT DISSIPATION

1 kW

PHYSICAL DATA

The space required is 3'7 $\frac{1}{2}$ " x 2'2" x 4'10" high
Weight of equipment is 750 lb.

BRIEF DESCRIPTION

The Display Outfit contains two separate displays

(a) P.P.I. (b) A trace or A trace sector selector or B trace sector selector.

- (a) A nine inch P.P.I. tube with a long after-glow is used. Ranges available are (i) 20 miles (ii) 100 miles (iii) 200 miles and a motor driven range marker is supplied with a Veeder type range counter for reading off accurate ranges. A motor driven Bearing cursor is also provided. Calibration pips in the form of concentric circles appear at 1 or 10 mile intervals as required.
- (b) The A trace has an upper and a lower trace on a 6" tube which has an after-glow of up to ten seconds. The upper trace presents a static picture of a selected sector as chosen by the bearing cursor so that the echoes on the particular sector (2° to 8°) may be examined in greater detail than on the P.P.I. display. This A trace can be expanded for any 20 mile portion to cover the full width of the tube so that groups of echoes may be examined in more detail. The interrogation is presented on the lower trace, the echoes appearing as downward pulses. Both the Radar picture and the Interrogator picture can be made to display continuously.
- (c) Any B trace sector of 90° can be displayed on the same C.R.T. as chosen by the position of the bearing cursor. Expanded range is available.

REMARKS

As the Display Panel, Design 1 or 3 generates 1 kW of heat, forced ventilation of 200 cubic feet of air per minute is necessary.

HANDBOOK

B.R.1765(1)(2)

ESTABLISHMENT LIST

E852

INSTALLATION SPECIFICATION

B556