

DISPLAY OUTFITS JDA SERIES

JDA

SUMMARY OF DATA

PURPOSE

A series of general purposes PPI displays employing fixed-coil deflection and other improved operational facilities, introduced to supersede the JE/JCA/B/C Series displays.

BRIEF DESCRIPTION

The Display Outfit JDA series include facilities for off-centring, continuous range scale expansion and interlacing of electronic markers from an external source. Orthogonal fixed deflection coils are used and although the display is normally a PPI it can be used with additional units for other applications (eg 'B' Display, Height Finding Display and D.F. Display). A nine-inch cathode ray tube is used and is supported in a self-centring mounting. The following Range Scales are provided:-

Range 1	1-10	Tactical Miles, Max. PRF 3000 Hz
Range 2	1-20	Tactical Miles, Max. PRF 3000 Hz
Range 3	1-40	Tactical Miles, Max. PRF 1600 Hz
Range 4	1-80	Tactical Miles, Max. PRF 800 Hz
Range 5	1-180	Tactical Miles, Max. PRF 400 Hz
Range 6	External Range Scale	

Range accuracy is better than $\pm 1\frac{1}{2}\%$ of full scale, with reference to internal markers. Bearing accuracy is better than $\pm 1\frac{1}{2}^\circ$ over the outer threequarters of range scale. The various outfits of the JDA series with their application and approximate JCA Series equivalents are tabulated overleaf.

MAJOR UNITS

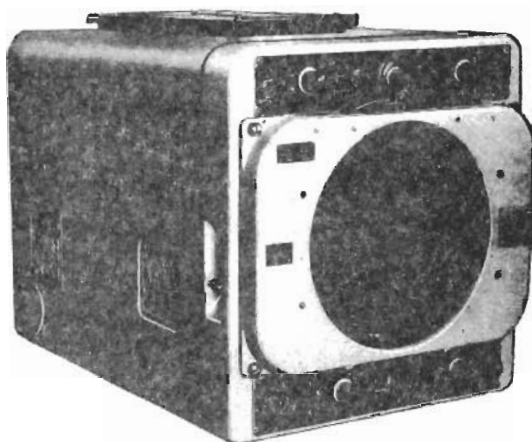
<u>Pattern No.</u>	<u>Description</u>
64690	Cabinet, Des. 187, Display
64692	Display Unit 517
64691	Cabinet, Des. 188, Power
64693	Door Assembly, Power

PHYSICAL DATA

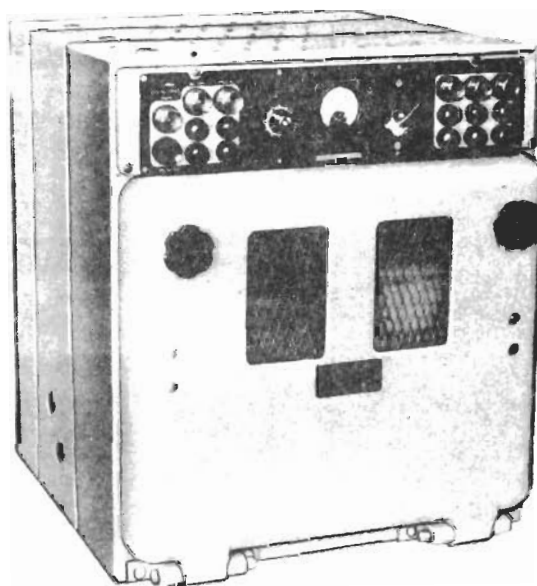
	<u>Height</u>	<u>Width</u>	<u>Depth</u>	<u>Weight</u>
Cabinet, Des. 187	55 cm (21.75 in.)	50 cm (19.25 in.)	72 cm (28.5 in.)	125 Kg (275 lb) (inc. Display Unit).
Cabinet, Des. 188	54.6 cm (21.5 in.)	47 cm (18.5 in.)	54 cm (21.25 in.)	116 Kg (255 lb) (inc. Door Assembly)

POWER REQUIREMENTS AND CONSUMPTION

Mains Input	115 V 50-60 Hz, 1 ϕ , 8A or 230 V 50-60 Hz, 1 ϕ , 4A or 440 V 50-60 Hz, 1 ϕ , 2.1A or 200 V 400 Hz 1 ϕ , 4.6A
Fans Supply	115 V 50-60 Hz, 1 ϕ , 1.3A or 230 V 50-60 Hz, 1 ϕ , 0.65A
Anti-condensation Heaters	115 V 50-60 Hz, 1 ϕ , 0.7A) or 230 V 50-60 Hz, 1 ϕ , 0.7A) or dc
Servo System Magslip	115 V 400 Hz 30 W



DISPLAY UNIT 517



CABINET, DES. 188, POWER

RESTRICTED

<u>Outfit Name</u>	<u>Approx. Equivalent JCA Series</u>	<u>Application</u>
JDA 1	JCB 2/M, 4/M, 13/M	Air Reporting, 983, 277, 293, 965, REJ etc.
JDA 2	JCB 13/M	Interception and Sea-Air Plot Homing and Marshalling — 983, 984, 277, 293, 965, REJ, 992, 978 etc. Reflection Plotting PPI for subdued lighting conditions.
JDA 3	JCB 1/M, 14/M	(a) Surface Reporting 983, 277, 293, 978, 992, REJ. (b) Surface Reporting Display associated with Outfit JUA 983, 277, 293, 978, 965, REJ.
JDA 4	JCC 2/M, JCB 10/M	Torpedo Line of Sight Indicator/Surface Reporting 992, 293, 978, REJ.
JDA 5	None	Transmission of Range and Bearing to UCSF2 Surface Reporting 277, 293, REJ.
JDA 6	JCB 11/M	TIU5 — 992, 983, 277, 293, 965, REJ.
JDA 7	JCB 12/M	BFSU4 — 992, 983, 277, 293, 965, REJ.
JDA 8	None	CCA 984, 277, 293.
JDA 9	None	Interception and Sea-Air Plot Homing and Marshalling 983, 277, 293, 978, 984, 992, REJ. Reflection Plotting PPI for daylight conditions.
JDA 10	None	977
JDA 11	JCC 1/M	Azicator 992, 965.
JDA 12	None	Range-height Indicator, 277Q, 983.
JDA 13	None	965 Office
JDA 14	None	905 M/P
JDA 15	None	MDS1.
JDA 16	None	669
JDA 33	None	983, 277, 293, 978, 992, REJ.
JDA 44	None	965 M/P

HEAT DISSIPATION

Display Cabinet Assembly 550 W approx.
Power Cabinet Assembly 550 W approx.

REMARKS

The Power Cabinet Assembly can be installed up to 300 cable ft from the Display Cabinet Assembly for all normal installations.

HANDBOOK

BR 1145(1)(2)

ESTABLISHMENT LIST

E1159

INSTALLATION SPECIFICATION

B 859