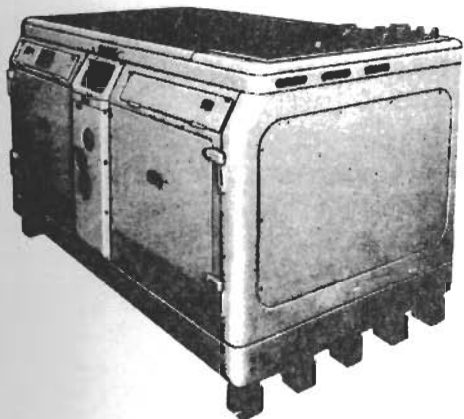


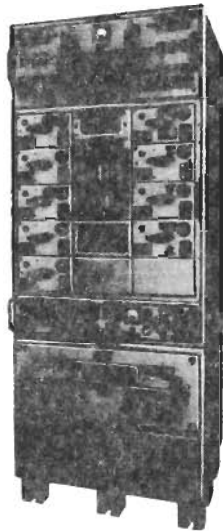
AUTOMATIC SURFACE PLOTTING SYSTEMS JYA(1), (2) AND (3)

JYA(1)(2)(3)

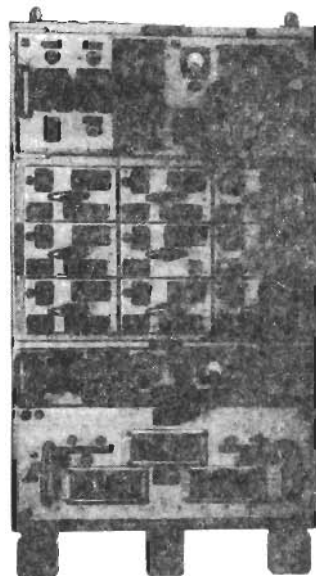
SUMMARY OF DATA



PLOTTING TABLE



MARKER INTERLACING CABINET



CO-ORDINATE CONVERTER CABINET

PURPOSE

The systems are used to project, on to a plotting table surface, a radar display which is moved by ship's speed and bearing so that a geographically stabilised picture is obtained.

Electronic position and bearing markers are provided for rapid plotting.

BRIEF TECHNICAL DESCRIPTION

The table display is obtained by projection on to a phosphor-coated surface from the face of a 3½ inch c.r.t. The tube and associated optics are mounted on the plotting table carriage assembly. The radar picture is fed to the table from one of three radar sets, the selected set also provides the trigger pulse and scanner bearing angle.

Up to six electronic markers showing bearings and positions may be interlaced with the picture, from any one selected radar, one is controlled from the table or the JYA position, three own ship markers are selected from a possible thirteen outstations, two off-set markers are controlled from the table. If JYA(2) is fitted, a different radar picture may be selected for each table.

When required, a "spider's web" graticule can be projected on to the plotting surface and the plot used as an ordinary A.R.L. Table.

MAJOR UNITS

AP No.	Description
1.	Plotting Table Assembly
2. 70289	Cabinet Design 197, Marker Interlacing
3. 70304	Rectifier Unit 63D
4. 70305 } 70306 }	Switch Unit Design 105, Radar Selector Assembly
5. 70307	Switch Unit Design 106, Marker Selector
6. 70281 } 70308 }	Tracker Control Assembly
7. 71823	Co-ordinate Converter Cabinet

Plotting Table Plotting Area 30 in North-South
45 in East-West

Diameter of Display and Graticule 20 in (Centre restricted to within 5 in of edge.)

Accuracy	Speed	± 0.25 knots below 10 knots ± 2.5% above 10 knots
	Bearing	± 2°
	Range	± 1% of full scale

NOMENCLATURE

- JYA(1) - One Plotting Table with Marker Equipment
- JYA(2) - Two Plotting Tables with Marker Equipment
- JYA(3) - One Plotting Table without Marker Equipment

PHYSICAL DATA

Pattern No.	Description	Height	Width	Depth	Weight
	Plotting Table	39½ in	62 in	40 in	1000 lb
70289	Cabinet Design 197, Marker Interlacing	72 in	27 in	24 in	830 lb
70304	Rectifier Unit 63D	21 in	18½ in	21 in	230 lb
70305 } 70306 }	Radar Selector Assembly	44 in	20 in	12 in	170 lb
70307 } 70281 }	Switch Unit, Design 106, Marker Selection	18 in	20 in	5½ in	40 lb
70308 }	Control Unit Design 124, Tracker Control Assy.	12 in	11 in	14 in	20 lb
70266	Lighting Unit, Ultra Violet.	6½ in	9 in	6 in	3 lb
71823	Co-ordinate Converter Cabinet	60 in	27 in	24 in	700 lb

POWER REQUIREMENTS

440 V	60 Hz	2105 W	115 V	400 Hz	185 W	220 V d.c. or 115 V a.c.
115 V	60 Hz	835 W	24 V d.c.		772 W	(for anti-condensation heaters)

HEAT DISSIPATION

Operator's Room	Plotting Table	1.25 kW
	Radar Selector	30 W
	JDA Display	550 W
Annexe	Marker Cabinet	2 kW
	Co-ordinate Converter	1.25 kW
	Power Cabinet	550 W

HANDBOOK

BR 1173

ESTABLISHMENT LIST

E 1222

INSTALLATION SPECIFICATION

B 845/PRE3