**PURPOSE**

JYA(4) to present one or three operational displays, two of which are plotting tables, a P.V.A. picture with interlaced bearing and position markers. The picture projected onto the surface of the plotting tables is in Scouts Mark III. Two variations are provided to cater for more limited requirements.

JYA(5) is JYA(4) but with one plotting table instead of two.

JYA(6) a display multifit in the form of a plotting table plus a maintenance unit. It has no marker generating equipment.

**BRIEF TECHNICAL DESCRIPTION**

The table display is obtained by projection on to a phosphor-coated surface from the face of 3 3/8 inch CRT. The tube and associated optics are mounted on the sliding table carriage assembly. The floor which is fed to the table from one of three rack sets, the selected set also provides the trigger pulse and scanning bearing angle.

Up to six electronic markers (bearing and position) may be interlaced with the picture, from any one selected scan, one to four from the table, or the JBA position, three own ship markers, and selected from a possible thirteen calibrations. Two off-set markers are controlled from the table. If JYA(5) 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 it's also used on an ordinary A.R.M. table.

**MAJOR UNITS**

1. AP 70252-5 Plotting Table Framework
2. AP 70291 Cabinet Assembly, TVV Marker Interlacing
3. AP 70304 Rectifier Unit 630V DC
4. AP 77159-10 Cabinet Servicing
5. AP 32048 Base of Monitor Unit
6. AP 70526 Cabinet Unit Design SM, Marker Selector
7. AP 4971 Cabinet Design SM, Power
8. AP 70514 Mounting for AP 7047 Control Unit Tracker
9. AP 7302 Cabinet Conversion Cabinet
10. Display Unit J443M

**RESTRICTED**
### PHYSICAL DATA

<table>
<thead>
<tr>
<th>Pattern No.</th>
<th>Description</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7003</td>
<td>Plotting Table, Assembly</td>
<td>45 in</td>
<td>62 in</td>
<td>44 in</td>
<td>1000 lb</td>
</tr>
<tr>
<td>7005</td>
<td>Marker Endearing Cabinet Assembly</td>
<td>27 in</td>
<td>24 in</td>
<td>24 in</td>
<td>930 lb</td>
</tr>
<tr>
<td>7006</td>
<td>Servicing Cabinet Assembly</td>
<td>24 in</td>
<td>34 in</td>
<td>24 in</td>
<td>500 lb</td>
</tr>
<tr>
<td>7007</td>
<td>Value Selector Assembly</td>
<td>24 in</td>
<td>20 in</td>
<td>12 in</td>
<td>170 lb</td>
</tr>
<tr>
<td>7008</td>
<td>Switch Unit, Design 500, Marker Selection</td>
<td>18 in</td>
<td>20 in</td>
<td>9 in</td>
<td>90 lb</td>
</tr>
<tr>
<td>7009</td>
<td>Tracker Control Assembly</td>
<td>17 in</td>
<td>11 in</td>
<td>11 in</td>
<td>28 lb</td>
</tr>
<tr>
<td>7010</td>
<td>Lighting, Unit, After Violet</td>
<td>24 in</td>
<td>24 in</td>
<td>14 in</td>
<td>3 lb</td>
</tr>
<tr>
<td>7026</td>
<td>Coordinate Converter Cabinet Assembly</td>
<td>27 in</td>
<td>27 in</td>
<td>24 in</td>
<td>700 lb</td>
</tr>
</tbody>
</table>

### POWER REQUIREMENTS JYA(S)

- **400 V 60 Hz** 3.0 kw 115 V 400 Hz 300 W 220 V a.c. 115 V d.c. 1.7 kw
- **110 V 60 Hz** 1.5 kw 115 V d.c. 1.0 kw 1 kw (for anti-condensation heaters)

### HEAT DISSIPATION

- Operations Room: Plotting Table 1.20 KW Water Selector 90 W JIM Display 500 W
- Annex: Marker Cabinet 6 kw Coordinate Converter 1.15 kw Power Cabinet 100 W Servicing Cabinet 400 W

### HANDBOOK

BP 3773

### ESTABLISHMENT LIST

- 1396

### INSTALLATION SPECIFICATION

- S 915

7.58