RESTRICTED

DATA RETRANSMISSION OUTFIT TRA

SUMMARY OF DATA

PURPOSE
To receive an output from a single magrip of 360° sector value and to retransmit this received information on up to eight magrips, also of 360° sector value.

BRIEF DESCRIPTION
The Data Bearing Retransmitter is a servo operated unit which accepts a single coarse transmission of bearing data and can provide eight retransmission channels. Given by the Control Amplifier it operates one 115 V 60 Hz, and six 115 V 400 Hz magrip transmitters with provision for the addition of one further 2 inch or 3 inch magrip.

Accuracy of following is of the order of 2.5 minutes of arc per rev/min.

The manufacturing limit of backlash is:

Regressor to four magrips on anti-backlash cluster - 4 minutes of arc
Regressor to remaining magrips - 7½ minutes of arc.

MAJOR UNITS
W91 3990-99-972-9397, Retransmitter, Data Bearing
W91 6115-99-972-9398, Control Amplifier

PHYSICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retransmission unit</td>
<td>164 in</td>
<td>15 in</td>
<td>11½ in (approx)</td>
<td>71 lb</td>
</tr>
<tr>
<td>Control Amplifier</td>
<td>114 in</td>
<td>11 in</td>
<td>98 in (approx)</td>
<td>20 lb (approx)</td>
</tr>
</tbody>
</table>

POWER REQUIREMENTS

<table>
<thead>
<tr>
<th></th>
<th>Power Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retransmitter</td>
<td>115 V 400 Hz single phase a.c. - 0.5A per transmitter magrip</td>
</tr>
<tr>
<td>Control Amplifier</td>
<td>115 V 60 Hz - 0.5A per transmitter magrip</td>
</tr>
<tr>
<td></td>
<td>115 V 400 Hz 95 watts</td>
</tr>
</tbody>
</table>

HANDBOOK
B9 3367

ESTABLISHMENT LIST
E 1250

INSTALLATION SPECIFICATION
B922

9.21/22