TYPE 965M/P

SUMMARY OF DATA

**PURPOSE**
Small Ships Aircraft Warning.

**BRIEF DESCRIPTION**
Type 965M/P is a long range aircraft warning radar designed primarily to be fitted to destroyers and frigates. A common aerial is used for the transmitter and receiver. These two items together with the office display unit (Monitor Unit Design 44) are situated below decks. Up to six remote P.F.T. displays may be fed with the present arrangement of cathode followers. Type 965M/P is also integrated with I.R.F. No. 40.

**FREQUENCY**
216-224 MHz

**WAVELENGTH**
1.4 metres (approx.)

**POWER OUTPUT**
450 kW

**PULSE REPEITION FREQUENCY**
200 or 400 p/s (nominal).

**INTERMEDIATE FREQUENCY**
13.5 MHz

**ASSOCIATED AERIAL OUTFIT**
Aerial Outfit AN/AX(/) for 965M.
Aerial Outfit AN(+) for 965P.

**PULSE LENGTH**
3.6 µs and 10 µs

**AERIAL BEAM WIDTH**
Horizontal = 1°
Vertical = 40° (approx.)

**AERIAL ROTATION SPEED**
10 r.p.m.

**RECEIVER BANDWIDTH**
Long Pulse 120 kHz
Short Pulse 330 kHz

RESTRICTED
### MAJOR UNITS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 173070</td>
<td>Cabinet Design JJ2</td>
</tr>
<tr>
<td>AP 173026</td>
<td>Cabinet Modulator</td>
</tr>
<tr>
<td>AP 173027</td>
<td>Cabinet Oscillator</td>
</tr>
<tr>
<td>AP 173020</td>
<td>Door Assembly Oscillator</td>
</tr>
<tr>
<td>AP 201331</td>
<td>Filter Unit R.F.</td>
</tr>
<tr>
<td>AP 373117</td>
<td>Sump Cover</td>
</tr>
<tr>
<td>AP 373115</td>
<td>Cabinet (Upper)</td>
</tr>
<tr>
<td>AP 173064</td>
<td>Monitor Unit Design 45 R.F.</td>
</tr>
<tr>
<td>AP 173247</td>
<td>Power Supplies Stabilised</td>
</tr>
<tr>
<td>AP 173116</td>
<td>Cabinet (Lower)</td>
</tr>
<tr>
<td>AP 173103</td>
<td>Receiver Water</td>
</tr>
<tr>
<td>AP 173037</td>
<td>Amplifier Ramps</td>
</tr>
</tbody>
</table>

### PHYSICAL DATA

Cabinet Design JJ2, Modulator and Oscillator, weight (loaded) = 3000 lbs.
Blower Aggregate, Filter R.F. and Sump Cover.
Dimensions - 242 in high, 106 in wide, 31 in deep.
Cabinet (Upper) and (Lower) weight (loaded) = 820 lbs.
Dimensions - 722 in high 228 in wide, 35 in deep.

### POWER REQUIREMENTS

730 V 50/60 Hz 3 phase 3 wire 6 KW or
220 V d.c. 1-2 KW or 110 V d.c. (anti-condensation heaters).

### HANDBOOKS

- **BR 8569**: Type 965M-P
- **BR 1186**: Aerial Outfit AKE(1)
- **BR 2347**: Aerial Outfit AKE(2)

### ESTABLISHMENT LISTS

- 1 1295 (965M-P)
- 1 1230 Aerial Outfit AKE(1) and AKE(2)

### INSTALLATION SPECIFICATION

- **BR 333**: (965M-P)
- **BR 333**: (941M-P)
- **BR 4912**: (941M-P)