DISPLAY OUTFIT JUA

SUMMARY OF DATA

AP 1395S DISPLAY POWER UNIT ASSEMBLY

AP 1063N DISPLAY ASSEMBLY

PURPOSE

Display Outfit primarily for use with Radar Type 978.

BRIEF DESCRIPTION

The Display unit employs a 12 inch P.P.I. display having six range scales V: 1, 2.5, 5, 10, 20 and 40 nautical miles. The scale linearity is within 1% of the range of an echo of 2% of the maximum of the scale in use. Calibration rings or adjustable brilliance are provided at intervals of 0.2, 0.5, 1, 2, 3 and 8 miles for the above ranges respectively (two marks per scale each range). Accuracy of calibration rings is within 1% of the indicated range or 1% of the maximum range of the scale in use, or 50 yards. An adjustable range strobe having three range scales of 0.2 - 4 miles 400-1600 yards and 0.4-6 miles is switched independently of the timebase range. Remote indication of range scale is provided by switch contacts on the range master or a mapslip transmitter coupled to the range strobe control. The accuracy of the range scale is the same as for the calibration rings. An illuminated cursor enables the operator to select any object on the display to be read to an accuracy of 2% of the square root of the sum of the squares of each of the display readings and the mapslip transmitter is coupled to the bearing cursor for remote bearing indication.

The signal circuits include facilities for variable differentiation and adjustable speed gain. A sensitivity control operates variable clipping for use with logarithmic receiver and a gain control for use with linear receiver. An additional control is provided to give blanking video gain for linear receivers. A switch selects log, or linear display. The minimum range or dead zone target is 100 yards on short range and 400 yards on long range. On the one-mile range, the equipment is capable of distinguishing between two small targets in line, 50 yards apart.

The display unit will accept input, equally wide of any amplitude between 2.5 and 50 W, positive or negative at repetition frequencies between 500 to 1000. The unit, with its associated power pack, will operate with any radar providing the correct supply. Sync. pulse, bearing data, entry head marker, and power supplies are available.

MAJOR UNITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1039684</td>
<td>Display Unit</td>
<td>1 ft 10 in</td>
<td>1 ft 5 in</td>
<td>2 ft 2 in</td>
<td>160 lb</td>
</tr>
<tr>
<td>1063555</td>
<td>Display Power Pack</td>
<td>1 ft 5 in</td>
<td>1 ft 6 in</td>
<td>1 ft 10 in</td>
<td>110 lb</td>
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</tbody>
</table>

POWER REQUIREMENTS AND CONSUMPTION

115/230 V, 50-60 Hz, 150 W (typ.) 115 В, 600 Hz, to Display Power Unit

30-40 V (m.c. (at frequency 200 W (approx.) to Display and Power unit anti-condensation heaters

OR 20-30 V

RESTRICTED

7.31
REMARKS

An AP 5274477 Rejection Flotter, AP 525678 Light Excluding Unit and AP 305652 Visor Assembly can be fitted in the front of the well.

HANDBOOK

E 2356

ESTABLISHMENT LIST

E 1703

INSTALLATION SPECIFICATION

E 882