OUTFIT RIS(6)

SUMMARY OF DATA

OUTFIT RIS(6) assists in the suppression of interference in Receiver Outfit C4V and D.F. Outfit F1U due to Radar Type 965A/M.

BRIEF DESCRIPTION

The outfit comprises a drive unit and a suppressor unit. Pulsing, the latter item being fitted inside the receiver. Also associated with the outfit, but part of Type 965A/M, is a 16432A Trigger unit. A 6.08 kHz alarm output from the Trigger unit is applied to the drive unit which amplifies it and contains a phase changing network giving a continuously variable 360° phase change between input and output. The drive unit outputs feeds the suppressor unit which generates a blanking pulse to desensitise the receiver i.e. amplifier for the duration of the radar Transmitter pulse. The system provides protection of at least 70 dB interference levels of up to 10 V p.e. at the receiver aerial being suppressed without degrading the receiver performance to any noticeable extent. Up to 20 receivers, each fitted with a suppressor unit, may be fed from one drive unit.

ELECTRICAL CHARACTERISTICS

Frequency of Blankin Pulse 6.08 kHz
Duration of Blankin Pulse 18 μs
Interference Pulses 380 p.p.s. at 3.8 μs duration
A facility is also provided for operation with a pulse duration of 10 μs at a p.p.s. of 190 p.p.s.
Temperature Range +25°C to +55°C ambient.

MAJOR UNITS

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Physical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>445-1194</td>
<td>Drive unit</td>
<td>114 in. 98 in 9 in 22 7/8</td>
</tr>
<tr>
<td>2</td>
<td>445-1169</td>
<td>Amplifier R.F. (2-stage)</td>
<td>124 in. 98 in 9 in 22 7/8</td>
</tr>
<tr>
<td>3</td>
<td>445-1169</td>
<td>Amplifier 1.F.</td>
<td>124 in. 98 in 9 in 22 7/8</td>
</tr>
<tr>
<td>4</td>
<td>445-1170</td>
<td>Stabiliser, voltage</td>
<td>124 in. 98 in 9 in 22 7/8</td>
</tr>
<tr>
<td>5</td>
<td>445-1179</td>
<td>Suppressor unit. Pulsed</td>
<td>124 in. 98 in 9 in 22 7/8</td>
</tr>
</tbody>
</table>

NOTE: Items 2, 3 and 4 are contained in item 1.

POWER REQUIREMENTS

445-0934 Drive unit 115/230 x 4-6 A C. 1 45-65 Hz 36 kV
445-1779 Suppressor unit, pulsed 285 V D.C. 15 ma 6.3 V D.C. 0.05A

HANDBOOK

BR 2310

ESTABLISHMENT LIST

12251

INSTALLATION SPECIFICATION

Appendix to RAE A. 0717.

RESTRICTED

9.15.16