WIRELESS SET No. 46
MODIFICATIONS
MODIFICATION INSTRUCTION No. 1

This instruction is a summary of War Office modification instructions issued during the period 12 Oct. 1943 to 1 Aug. 1944.

<table>
<thead>
<tr>
<th>Publication reference</th>
<th>Date shown on publication</th>
<th>Model and mark affected</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.C. T/W57</td>
<td>12 Oct. 43</td>
<td>Wireless set No. 46</td>
<td>Replacement of battery plug on Connector, 6-point, No. 17</td>
</tr>
</tbody>
</table>

END

Issue 1, 1 Aug. 1944

Distribution—Code No. 3
SUMMARY

1. This instruction outlines the action to be taken to eliminate excessive gain and possible instability. These latter conditions arise from the wide variations in valve characteristics.

   Time required to perform modification: 1 man-hour.

2. Items affected:

   Transformers, I.F., No. 26 (L3 A and B)
   Transformers, I.F., No. 27 (L3 C and L4 A)

3. Action required by R.E.M.E. personnel concerned at the request of the unit holding the equipment.

Issue 2, 4 Jan. 1952

Distribution - Class 870. Code No. 4

TELECOMMUNICATIONS

4. Priority: Group 'B' (A.C.1. 878/49 refers)

5. Stores required:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Designation</th>
<th>Qty. per eqpt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2A 19265</td>
<td>Resistors, No. 3D, 12Ω, 1/4W</td>
<td>As required to a max. of two</td>
</tr>
</tbody>
</table>

Stores will be demanded through the normal Ordnance channels.

Authority for demand (to be quoted on all indents) - T/W/HY/7.

DETAIL

6. (a) Owing to wide variations in valve performance, it has been found that the efficiency required of the I.F. transformers to ensure that the specified sensitivity is attained in all cases is such that it may be found that the gain is excessive and instability occurs.

   (b) When instability occurs, connect a 10Ω resistor directly across the secondary winding of the 1st. I.F. (L3B) and retest the set.

   (c) In the majority of instances this will eliminate the fault, but if the fault persists, another 10Ω resistor should be connected across the secondary of the 2nd. I.F. (L3C).
SUMMARY

1. This instruction outlines the action to be taken to eliminate excessive gain and possible instability. These latter conditions arise from the wide variations in valve characteristics.
   Time required to perform modification: 1 man-hour.

2. Items affected:
   - Transformers, I.F., No. 26 (L3A and B)
   - Transformers, I.F., No. 27 (L3C and L4A)

3. Action required by R.E.M.E. personnel concerned at the request of the unit holding the equipment. Group 'B'.

4. Stores required:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>No. off per equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZA 19265</td>
<td>Resistors, No. 3D, 1MΩ, 1/4W</td>
<td>As required to a max. of two</td>
</tr>
</tbody>
</table>

Issue 1, 7 Jan. 1946

Distribution - Class 870. Cdo No. 4

DETAIL

5. Stores returned: Nil.

6. (a) Owing to wide variations in valve performance, it has been found that the efficiency required of the I.F. transformers to ensure that the specified sensitivity is attained in all cases is such that it may be found that the gain is excessive and instability occurs.
   (b) When instability occurs, connect a 1MΩ resistor directly across the secondary winding of the 1st. I.F. (L3B) and retest the set.
   (c) In the majority of instances this will eliminate the fault, but if the fault persists, another 1MΩ resistor should be connected across the secondary of the 2nd. I.F. (L3C).

D.M.E. Encl. No. 7 to 57/Mtco. 564 (M.E. 10)

END
SUMMARY

1. The contacts of the send/receive switch in Wireless set No. 46 have fused and burnt out due to leakage through the bakolite spacer which holds the moving contact strips between the metal clamp. The assembly of contact strip, bakolite spacer and metal clamp is riveted in two places, and as these rivets reduce the length of the leakage path, so increasing the chance of breakdown, they will be removed. Time taken to perform this modification: one-half man-hour.

2. Items affected: Send/receive switch.

3. Action required by R.E.H.E. personnel concerned, at the request of the unit holding the equipment, Group 'B'. In cases where the equipment is tropical-packed the modification will not be carried out until it is unpacked.

DETAIL

4. Examine the send/receive switch and carefully remove the rivets if this has not already been done.

TELECOMMUNICATIONS
F 467 Mod. Inst. No. 3

Note: The assembly remains held together by the screws and nuts which hold it in position in the switch.

5. For all accounting purposes, this modification will be known as T/W/M/9.

D.M.2. Encl. No. 9 to 57/Maintenance/684.

END