

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.

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

END

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WIRELESS SET NO. 46

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

E: This issue, Pages 1 and 2, supersedes Pages 1 and 2 of Issue 1, dated 7 Jan. 1946. It has been amended.

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.

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

5. Stores required:-

Cat. No.	Designation	Qty. per eqpt.
ZA 19265	Resistors, No. 3D, 1M Ω , $\frac{1}{4}$ W	As required to a max. of two

Stores will be demanded through the normal Ordnance channels.

Authority for demand (to be quoted on all indents) - T/W/AY/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 1M Ω 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 1M Ω resistor should be connected across the secondary of the 2nd. I.F. (L3C).

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SUMMARY

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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:

Cat. No.	Description	No. off per equipment
ZA 19265	Resistors, No. 3D, 1M Ω , $\frac{1}{4}$ W	As required to a max. of two

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Units in the U.K. holding the equipment will demand the above stores from the Commandant, C.O.D., Donnington.

Overseas theatres and Dominions holding equipments requiring this modification will cipher their demands to War Office, W.S.13.

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

5. Stores returned: Nil.

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 1M Ω 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 1M Ω resistor should be connected across the secondary of the 2nd. I.F. (L3C).

D.M.E. Encl. No.7 to 57/Mtcc./684 (M.E.10)

END

WIRELESS SET NO. 46

SUMMARY

1. The contacts of the send/receive switch in Wireless set No. 46 have fused and burnt out due to leakage through the bakelite spacer which holds the moving contact strips between the metal clamp. The assembly of contact strip, bakelite 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.M.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.

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

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

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

END