ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS
(By Command of the Army Council)

TELECOMMUNICATIONS
F 377 Mod Instr No 1

WIRELESS SET NO 31AFV

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION.

Rebroadcast facility failure, Wireless set No 31AFV/Wireless set No 19

Errata

Note: These pages 0 and 01 will be filed immediately in front of Page 1, Issue 1, dated 18 May 56.

1. The following amendments will be made to the Regulation.

2. Page 1, para 1, line 6,

Delete: 'RLA'
Insert: 'RLA/2'

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3. Page 2,

(a) para 6(c)

Delete the letters and figures after the word 'relay'
Insert: 'RLA/2'

(b) After para 6(f),

Insert: '(g) Strike through the figure '1' on the modification record plate.

(h) Replace the P.S. and L.F. amplifier unit in its case.

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TELECOMMUNICATIONS
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WIRELESS SET, NO 31AFV

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

Rebroadcast facility failure, Wireless set No 31AFV/Wireless set No 19

SUMMARY

1. When the Wireless set, No 19 and Wireless set, No 31AFV, are connected via Control units, No 16 or No 17, the facility for operating both sets simultaneously cannot be effected. With the circuits as at present (Tels F 372 page 1010, Fig 1002, issue 1, 24 Nov 53 refers) the A-set is held in the 'send' position when the Control unit, No 16, is switched to position 'A and 31'. This is due to the present method of energising relay $\frac{RLA}{2}$ in the Power supply and LF amplifier unit No 3. This instruction details a circuit change in the PS and LF amplifier unit No 3 to correct this fault in operation.

Estimated time required to complete this modification: 1/4 man-hour.

2. Items affected:-

(i) Wireless set No 31AFV
(ii) Power supply and LF amplifier unit No 3

3. Action required by:-

(a) Units affected:-

(i) Indent for necessary stores.
(ii) When stores are received from Ordnance submit AFG 1045 to REME for implementation of this instruction.

(b) Workshops authorized to carry out field and base repairs:-

(i) Carry out this instruction as detailed when requested by holding units and on all equipments undergoing base overhaul.

4. Priority: Group 'B' (ACI 96/54 refers)

5. Stores required:-

VAOS section	Part No	Designation	Qty per eqpt
Z	Z 243340	Resistor, fixed, wirewound, vitreous enamelled, 68Ω ±5%, 1.5W	1
		Wire, equipment, electrical, (of suitable type) PVC wall	Short length of *

* to be obtained locally.

Authority for demand (to be quoted on all indents) T/W/AR/38

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DETAIL

6. (a) Remove the PS and LF amplifier unit from its case and turn it upside-down.

(b) Locate resistor R11 (3Ω ±5%, wirewound).

(c) Remove the red lead joining R11 to the tagboard above relay RAA/2.

(d) Connect a length of PVC-insulated wire between the tagboard connection in (c) above and the nearest spare tag on the tagboard situated just above transformer TR3 (IC input transformer).

(e) Connect the 68Ω resistor (Z 24334O) between the spare tag referred to in (d) above and a further spare tag on the same board.

(Note: It is important that the connections should be made to the tag-ends furthest from the baseplate, thus avoiding possible short-circuits to the case)

(f) Connect a length of PVC-insulated wire between the open end of the 68Ω resistor and the tag of the carbon pile marked XI, (to which a green wire is already connected).

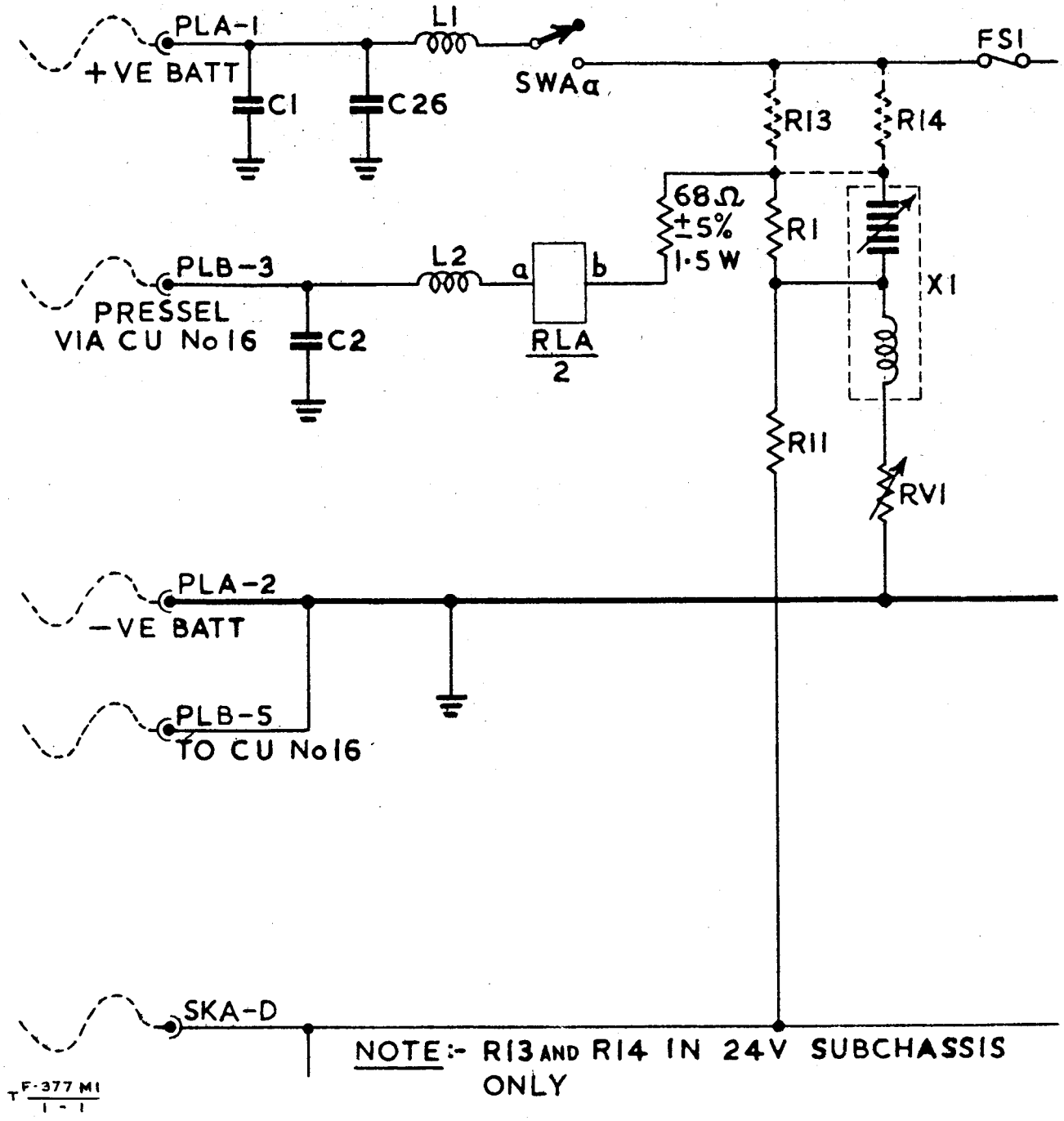

Fig 1 - Modification to PS and LF amplifier unit No 3

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END

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TELECOMMUNICATIONS
F 377 Mod Instr No 2

WIRELESS SET NO 31 AFV

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

Cover of tuning capacitor

Note: This Issue 2, Pages 1 and 2, supersedes Issue 1, Pages 1 and 2 dated 10 Jul 59. It has been amended throughout.

SUMMARY

1. In order to remove the cover of the main tuning capacitor, as originally fitted, it is necessary to remove the front panel of the set and various components before the cheese-head screws at the sides of the cover can be reached. This Regulation details the replacement of cheese-head screws by hexagon-head screws, and the slotting of the capacitor cover securing holes. It will only be carried out when the capacitor cover has been removed for any reason or when it is easily removable with little additional work.

Estimated time required to carry out this modification when the capacitor cover is completely accessible for removal: 1/2 man-hour.

2. Items affected:-

Wireless set No 31 AFV
Main tuning capacitor

3. Action required by:-

(a) Units authorized to carry out field or base repairs:-

(i) Carry out the detail of this modification on all equipments undergoing repair or overhaul when the main gang capacitor cover has to be removed or is easily removable during the course of other operations.

4. Priority: Group 'C' (ACI 407/58 refers).

5. Stores required:-

Part No	Designation	Qty per eqpt
G1/5305-99-941-6727	Screws, machine, BA, mild steel, hex.hd., slotted, cadmium plated, No 6 x 1/4 in.	6
	(These stores to be provisioned locally).	

DETAIL

6. (It is assumed that the cover of the main gang capacitor has been removed)

(a) Identify the front side of the capacitor cover and modify the three securing screw holes into open-ended slots. (This cover is not reversible).

(b) Modify the two end securing screw holes in the rear side of the capacitor cover to open-ended slots. Do not modify the centre rear-side hole.

(c) Fit No 6 BA, slotted, hexagon-headed screws to the main gang capacitor, except in the centre, rear-side hole.

(d) Strike through the figure 13 on the modification record plate.

When the capacitor cover is to be refitted it will be placed with its slots over the appropriate securing screws, pressed down, and the screws tightened with a No 6 BA flat spanner. The remaining slotted hexagon-head screw will then be fitted to the centre rear-side securing screw hole of the capacitor and tightened.

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END