

WIRELESS SET BE 201

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

Erratum

Note: This page will be filed immediately in front of Page 1, Issue 1, dated  
15 Sep 53

1. The following amendment will be made to Issue 1 of this regulation.

Distribution

Delete: Class 870  
Insert: Class 880

57/Maint/5163

Issue 1, 30 Nov 53

Distribution - Class 880, Code No. 4

Page 0

RESTRICTED

WIRELESS SET BE201

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

Improving slow motion drive

SUMMARY

1. The slow motion drive on the main tuning dial has a tendency to slip in operation. To obviate this effect a new washer will be fitted.

Estimated time required to carry out this modification:  $\frac{1}{2}$  man-hour

2. Items affected:-

Drives, slow motion, No. 6Q

3. Action required by:-

(a) REME field and base workshop units

(i) Indent for stores.

(ii) Carry out modification as detailed in para 6.

4. Priority: Group 'B' (ACI 878/49 refers).

5. Stores required:-

<u>VAOS, Section</u>	<u>Cat No.</u>	<u>Designation</u>	<u>Qty per eqpt</u>
Z1	ZA 31430	Washers, steel, $\frac{1}{2}$ in O.D., $\frac{1}{4}$ in dia. bore, No. 1	2
Z1	ZA 30142	Circlips, external, steel, 9/64 inch gap, No. 18 S.W.G.	2

Authority for demand (to be quoted on all indents) - T/W/DC/1

DETAIL

6. (a) Remove the bearing bracket for the drive spindle and U-washer.
- (b) Dispense with the U-washer and replace with the washer, steel,  $\frac{1}{2}$  inch O.D.,  $\frac{1}{4}$  inch dia bore, No. 1 and retain with the circlips, external, steel 9/64 inch gap, 18 S.W.G.
- (c) Replace the bearing bracket for the drive spindle.
- (d) Check the operation of the control.
- (e) Strike through the Figure 1 on the modification record plate.

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END

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Distribution - Class ~~870~~. Code No. 4  
880

RESTRICTED

WIRELESS SET BE201

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

Rotary transformer solder tag

SUMMARY

1. The solder tag attached to the rotary transformer is fragile and tends to break off.

Estimated time required to perform this modification:  $\frac{1}{2}$  man-hour

2. Items affected:-

Power supply unit No. 42 (ZA 38615)  
Transformers rotary, H.T., 10W, No. 2A.

3. Action required by:-

- (a) REME field and base workshop unit
  - (i) Indent for stores
  - (ii) Carry out this modification

4. Priority: Group 'B' (ACI 878/49 refers).

5. Stores required:-

<u>VAOS, Section</u>	<u>Part No.</u>	<u>Designation</u>	<u>Qty per eqpt</u>
Y3	WB 0961	Tag, soldering, No. 6 B.A. hole	2

Authority for demand (to be quoted on all indents) - T/W/DC/2

DETAIL

- 6. (a) Locate, on the Transformer rotary, H.T., 10W, No. 2A, the soldering tags.
- (b) Replace soldering tags.
- 7. Strike through the Figure 1 on the Modification record plate.

Encl to 57/Maint/5163

END

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R E S T R I C T E D

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

TELECOMMUNICATIONS  
F 787 Mod Instr No 3

WIRELESS SET BE 201

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION

Reduction of send/receive switching delay time

SUMMARY

1. The delay time in the send/receive switching in the Wireless set BE 201 is of the order of 2 seconds or longer, but for operational reasons it is necessary to reduce this to not longer than 0.5 seconds. This Regulation details the fitting of an additional relay to the Power supply unit, No 42 to effect this delay-time reduction.

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

2. Items affected:-

Wireless set BE 201

Power supply unit, No 42 - ZA 38615

3. Action required by:-

(a) Units affected:-

(i) Submit AF G 1045 to REME requesting this instruction to be carried out.

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

(i) Indent for stores

(ii) When stores are received carry out the detail of this instruction.

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

5. Stores required:-

<u>VAOS</u> <u>Section</u>	<u>Part No</u>	<u>Designation</u>	<u>Qty</u> <u>per eqpt</u>
Z1	ZA 51294	Kits, modification, Wireless set Burnddept BE 201 p.s.u. comprising:-	1
Y1	YA 8532	Relay, magnetic, 12V, 1-changeover, No 2	1
Z1	ZA 41617	Brackets, L-shaped, metal, 1.13/32 in. x 7/8 in. x 13/32 in.	1
Z1	ZA 14225	Panels, tag, 1-way, No 1	1

R E S T R I C T E D

TELECOMMUNICATIONS  
F 787 Mod Instr No 3

ELECTRICAL AND MECHANICAL  
ENGINEERING REGULATIONS

<u>VACS</u> <u>section</u>	<u>Part No</u>	<u>Designation</u>	<u>Qty</u> <u>per eqpt</u>
Y3	YC 00031	Wire, equipment, 14/0076, 3C, yellow )	
		or	
Y3	YC 6145-100178	Wire, electrical equipment, type 2, ) 14/0076, PVC, medium wall, yellow )	2 ft
		Screws, steel, No 6 BA, ch.hd., )	
		3/8 in. long, rustproof )	To be obtained from local 4
		Washers, shakeproof, No 6 BA )	4
		Tags, soldering, No 6 BA )	1

Stores to be demanded through the normal Ordnance channels. Authority for demand (to be quoted on all indents) T/W/DC/4.

DETAIL (Tels F 782, Figs 1006 and 1008 refer).

6. (a) Remove the Power supply unit, No 42 (p.s.u.) from its case.
- (b) Fit the Relay, magnetic (YA 8532) to the Bracket, L-shaped (ZA 41617).
- (c) Secure the bracket to the right-hand frame bar of the p.s.u. chassis, positioning the relay directly behind the fuseholder FS1 and clear of the side panel. Fit a No 6 BA tag under one of the bracket securing screws ensuring that it makes good electrical contact with the chassis when the screws are tightened. Shakeproof washers will be used and the screw threads coated with varnish before insertion.
- (d) Connect the operating coil of the new relay in parallel with the operating coil of contactor RLB/1, which is positioned beneath it, by means of two lengths of the wire provided, suitably routed and secured.
- (e) Fit the tag panel (ZA 14225) provided under the right-hand nut (as viewed from front of p.s.u.) which secures the indicating lamp LP1 to the front panel.
- (f) Locate the wire which connects pin 5 of the output plug PLB to the capacitor C5 (32µF). Disconnect this wire at the capacitor end and reconnect it to the tag panel fitted at sub-para (e).
- (g) Connect a wire between the tag panel above and the moving contact of the Relay, magnetic, fitted at sub-para (c), routing and securing as necessary.
- (h) Connect a wire between the positive terminal of capacitor C5 (disconnected at sub-para (f)) and the contact of the Relay, magnetic which is open-circuit when the relay is de-energised, routing and securing as necessary.
- (j) Connect a wire from the remaining contact of the Relay, magnetic (the contact which is normally closed with the relay de-energised) to the No 6 BA soldering tag fitted at sub-para (c)



- (k) Replace the p.s.u. in its case and strike through the figure 2 on the p.s.u. modification record plate.
- (l) Connect the p.s.u. to the Wireless set BE 201 and test on SEND and RECEIVE conditions. The SEND to RECEIVE switching delay should not be greater than 0.5 seconds.

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END

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