



Wireless Set No 19 Mk.3 (Canadian)

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SUPPLY UNITS, RECTIFIER

DATA SUMMARY

Note : This issue, Pages 1 to 6 supersedes Pages 1 to 3 of Issue 1. The regulation has been revised throughout.

General

1. Table 1 lists the Supply units, rectifier, in use in the Army, together with their catalogue numbers, input and output characteristics.
2. Table 2 is given as a quick method for finding an S.U.R. for a specific purpose.

Table 1—S.U Rs. in use in the Army

S.U.R. No.	Cat. No.	E.M.E.R. Tels. No.	Input	Output (D.C. unless otherwise stated)					Used with	Remarks
				1	2	3	4	5		
1	ZB 6639	K 220/4	100—110V or 200—250V, 50c/s	135±8V, 16mA 2.05±0.15V, 0.9A	200±15V, 20mA 12±1V, 0.5A	200±15V, 40mA 12±1V, 1A			Reception set R101 Reception set R102 Amplifier recorder	Obsolete
2	Not made									
3	Not made									
4	ZB 0012	T 280/10	100—120, 150—170, 200—250V in 10V steps, 50c/s	70+70V, 80mA	220V, 0.6A	220V, 0.6A	220V, 0.6A	220V, 0.25A	High-speed morse machines	

Table 1—continued

5	ZB 0179	K 220/5	100—250V, 50c/s	250V, 60mA	0.3V A.C., 3.5A				Reception set R106	Modified form used with Equip- ment, signalling, carrier shift, No. 1
6	YB 01038	K 220/2	100—240V, 50c/s	22—26V, 6A (centre- tapped)	22—26V A.C. (centre- tapped)				Telegraph equipments	Obsolete
7	YB 01039	K 290/1	100—240V, 50c/s in 10V steps, or 12V D.C.	80—0—80V, 30mA	12V, 300mA	40V, A.C., 30mA			Telegraph equipments	
8	ZB 0237	K 220/6	100—240V, 50c/s	300V, 150mA	6.3V A.C., 4.75A				Reception set DST 100	
9	ZB 0350		230V, 40—60c/s	1,200V, 200mA	12V A.C.				Marconi sets	Obsolete
10	ZB 10217		100/130V } 200/230V } 50c/s A.C.	160/180V, 50mA	6V A.C., 3.1A				Marconi sets	Now designated as : Supply units, rectifier, Marconi, R.E.4
11	ZB 10235	K 220/3	100—130V or 200—260V, 45—60c/s	130V, 800mA	24V, 11A				A.C.T. (1+3) S.O.S. or S.O.T.	

**ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS**

RESTRICTED

**TELECOMMUNICATIONS
K 220**

(By Command of the Army Council)

Note: *This issue, Pages 3 and 4, supersedes Pages 3 and 4 of Issue 2, dated 24 Jul. 1947. Items 19 to 21 have been amended.*

Table 1 - (contd.)

12	ZB 10248	D 700	230V, 40 - 60c/s	1,200V, 200mA					Wireless sender No. AD67	Obsolete
13	ZB 10247	K 220/1	100 - 120V or 200 - 250V 40 - 60 or 500c/s	12V, 3A	12V, 3A				Telegraph equipment	Smoothing unit No. 1 required to give a smoothed output
14	ZA 21774	Not made							Was to be used with W.S. 76	
15	ZA 22365	F 500	200 - 250V, 40 - 60c/s	210V, 100mA	12.6V A.C. 2.5A				Reception set R408	
16	ZA 22368	F 500	200 - 250V, 40 - 60c/s	330V, 220mA	12.6V A.C., 3A	4V, 220mA			Wireless sender No. 57	
17	ZA 26706		200 - 250V, 50c/s	270V, 70mA	12.5V A.C., 1.2A				Reception sets PCR 1 PCR 2 PCR 3	
18	ZB 12783		200/250V, 50/60c/s	450V, 400mA	275V, 150mA	13V D.C. 8A (Unsmoothed)	12V, 4A		Wireless station, 250W, F.M., S.C.R. 808 (American)	

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Table 1 - (contd.)

19	YA 8087	K 220/8	100 - 120V or 220 - 250V 50c/s	12V 3A	12V 3A				Telegraph equipment	Smoothing unit No. 1. Required to give a smoothed output.
									Telephone terminal equipment No. 1 only	Smoothing unit No. 2. Required to give a smoothed output.
20	ZA 32849								Marconi DFG 26/5	Designation given to cover breakdown of part of set for tropical packing. Comprises three rectifiers in one case.
21	YB 06054	U 170/2	100 - 120V or 200 - 260V 45 - 66c/s	6V 5A					Apparatus, selective carrier, No. 2	

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Table 2—Outputs of Supply units, rectifier

Volts	2	4	6	A.C. 6.3	A.C. or D.C. 12	24	A.C. or D.C. 22—26	A.C. 40	70	80	130	135	140	160	200	220	250	300	330	300	1,200	
16mA												1										
20mA															1							
30mA								7		7				7								
40mA															1							
60mA														10			5					
80mA									4				4				17					
100mA															15							
150mA																	18	8				
200mA		16																				9 12
220mA																					16	
250mA																4						
300mA							7															
500mA							1															18
600mA												11				4						

Table 2—continued

Types	2	4	6	A.C. 6.3	A.C. or D.C. 12	24	A.C. or D.C. 22—26	A.C. 40	70	80	130	135	140	160	200	220	250	300	330	400	1,200	
990mA	1																					
1A					1																	
2.5A					15																	
3A				10	13 19	13 19																
3.5A				5																		
4.75A				8	18																	
5A			21		12																	
6A							6															
8A					18																	
11A						11																

END

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

R E S T R I C T E D

TELECOMMUNICATIONS
K 229 Misc Inst No. 2

SUPPLY UNIT RECTIFIER NO. 13 AND SMOOTHING UNIT NO. 1.

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

Redesignation of EMERs

Information

1. To maintain the proper sequence of EMER numbers, it is intended that:-
 - (a) all future issues of EMERs on this equipment will be published in the series TELS K 220 - K 229 and
 - (b) the current EMERs will be redesignated.

Action

2. The following EMERs will be redesignated as shewn.

Present designation				New designation (e)
EMER designation (a)	Pages (b)	Issue No. (c)	Date (d)	
1 Tels K 220/1	1 - 2	1	22 Oct 44	Tels K 220
2 Tels K 222/1	1 - 4	1	27 Jul 44	Tels K 222
3 Tels K223/1	1 - 2	1	22 Jul 44	Tels K 223
4 Tels K224/1	1 - 2	1	20 Jul 40	Tels K 224
5 Tels K 226/1	1 - 2	1	Mar 45	Tels K 226
	1001 - 1002	1	Mar 45	
	1003	1	Dec 44	
6 Tels K 229/1 Misc inst No.1	1	1	18 Jun 47	Tels K 229 Misc inst No.1

57/Maint/6670

END

Issue 1, 1 Jul 55

Distribution - Class 880. Code No. 4.

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ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

TELECOMMUNICATIONS
K 229/1 Misc. Inst. No.1

SUPPLY UNIT, RECTIFIER, NO.13 AND SMOOTHING UNIT NO.1

Notes: 1. THIS IS NOT A NEW INSTRUCTION.

2. This issue supersedes Tels. K 229/1, Issue 1, dated 16 Aug. 1944. The designation has been changed
Renumbering of E.M.E.Rs.

SUMMARY

1. This instruction covers the renumbering of E.M.E.Rs. Tels. K 102/2, K 103/2 and K 104/2, Issues 1, dated 27 July 1944, 22 July 1944 and 20 July 1944 respectively.

DETAIL

2. All recipients of the above-mentioned regulations will renumber them as follows:-

<u>Subject</u>	<u>Old designation</u>	<u>New designation</u>
General description	Tels. K 102/2	Tels K 222/1
First echelon work	" K 103/2	" K 223/1
Second to fourth echelon work	" K 104/2	" K 224/1

3. The old designations included in the code numbers of illustrations will be similarly amended.

END

Issue 1, 18 Jun. 1947

Distribution - Class 880. Code No.4

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ELECTRICAL AND MECHANICAL
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(By Command of the Army Council)

TELECOMMUNICATIONS
K 169 Misc Inst No.1

SUPPLY UNIT RECTIFIER

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

Redesignation of EMERs

Information

1. To maintain the proper sequence of EMER numbers, it is intended that:-
 - (a) all future issues of EMERs on this equipment will be published in the series TELS K 160 - K 169 and
 - (b) the current EMERs will be redesignated.

Action

2. The following EMER will be redesignated as shown.

Issue 1, 1 Jul 55

Distribution - Classes 800 and 880. Code No.4

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K 169 Misc Inst No.1ELECTRICAL AND MECHANICAL
ENGINEERING REGULATIONS

Present designation					New designation (e)
	EMER designation (a)	Pages (b)	Issue No. (c)	Date (d)	
1	Tels K 220	1 - 2 3 - 4 5 - 6	2 3 2	24 Jul 47 12 Sep 52 24 Jul 47	Tels K 160

57/Maint/6670