



WS No. 19 Mark III

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This issue, Pages 3 to 18, supersedes Pages 3 to 18 of Issue 7, dated Jul. 1949. The Contents table has been revised

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Section	Number	Subject	Section	Number	Subject		
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		269		Misc. Inst. No. 1—renumbering E.M.E.Rs.	700	Data summary	
				Lorry, 3-ton, 6 x 4, wireless, H.P., type A or B, W.S. HS1	702	General description	
		260/1		Data summary	703	First echelon work	
		263/1		First echelon work	704	Second to fourth echelon work	
				Lorry, 3-ton, 4 x 4, wireless, H.P., type C or D, W.S. 33	707	Mod. Inst. No. 1	
260/2		Data summary	709	Misc. Inst. No. 1			
263/2		First echelon work			Carrier, frequency shift, radio link (initial type)		
267/2		Mod. Insts. Nos. 1 and 2	720	Data summary			
		Lorry, 3-ton, 4 x 4, wireless, H.P., type E, F, K or L, W.S. 12 H.P.			Direction-finding stations		
260/3		Data summaries			Lightweight Adcock aerial system (tropical)		
262/3		General description	800	Data summary			
267/3		Mod. Insts. Nos. 1—3	802	General description			
		Lorry, 3-ton, 4 x 4, wireless, H.P., type G, H or J, W.S. 53	802/1	General description			
260/4		Data summary	803/1	First echelon work			
		Lorry, 3-ton, 4 x 4, command, L.P., type A or B, W.S. 19 H.P./19			D.F. station, transportable, Adcock, No. 2		
300/1		Data summary	802/2	General description			
		Lorries, command, H.P.	802/3	General description			
319		Misc. Inst. No. 1—renumbering E.M.E.Rs.			D.F. station, transportable, Adcock, No. 3T		
		Lorry, 3-ton, 4 x 4, command, H.P., type A or C, W.S. 12 H.P.	802/3	General description			
310/1		Data summary	810/1	Data summary			
313/1		First echelon work	812/1	General description			
317/1		Mod. Insts. Nos. 1—4	813/1	First echelon work			

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Tels. L (contd.)		D.F. stations, mobile, B.C., Nos. 2A and 3 (T)	Tels. O (contd.)		Equipment, radar, A.A., No. 3, Mk. 2 4
	810/2	Data summary		150	Data summary
	812/2	General description		152	General description
	813/2	First echelon work		153	First echelon work
	814/2	Second to fourth echelon work		154	Second to fourth echelon work
	830	D.F. station, Marconi, D.F.G. 24/4		190	Equipment, radar, A.A., No. 3, Mk. 7
	832	Data summary		192	Data summary
	833	General description		193	General description
	834	First echelon work		197	First echelon work
	840	Second to fourth echelon work		199	Mod. Insts. Nos. 1—6
	D.F. station, Marconi, D.F.P.5		Misc. Insts. Nos. 1—12		
842	Data summary	210	Equipment, radar, A.A., No. 4, Mk. 5		
	General description	214	Data summary		
LIGHT ARMoured MOBILE SIGNAL INSTALLATIONS			217	Second to fourth echelon work	
Tels. M	100/1	A.C.V., 4 x 4, L.P., W.S. 19 H.P./19	222	Mod. Insts. Index and Nos. 0—10	
	103/1	Data summary		Equipment, radar, A.A., No. 4, Mk. 6	
	100/2	First echelon work	250	Technical description	
		A.C.V., 6 x 6, L.P., W.S. 19 H.P./19/A	252	Equipment, radar, A.A., No. 6, Mk. 1	
	110/1	Data summary	253	Data summary	
	113/1	A.C.V., 4 x 4, H.P., RCA/19	257	General description	
	117/1	Data summary	290	First echelon work	
	110/2	First echelon work	292	Mod. Insts. Nos. 0—16	
	112/2	Mod. Inst. No. 1	293	Equipment, radar, A.A., No. 2, Mk. 2 to 7	
	113/2	A.C.V., 6 x 6, H.P., 53/19/C	294	Data summary	
	114/2	Data summary	297	General description	
		General description	310	First echelon work	
	217	Scout cars: Daimler, Humber and Lynx (all marks)	312	Second to fourth echelon work	
		Mod. Inst. No. 1	313	Mod. Insts. Index and Nos. 1—25	
			314	Equipment, radar, A.A., No. 2, Mk. 9	
		317	Data summary		
		319	General description		
RADAR TRANSMITTERS				First echelon work	
Tels. N		Equipment, radar, A.A., No. 1, Mk. 2	I.F.F. equipments and applications		
	120	Data summary		Equipment, I.F.F., Mk. 3, as used with	
	122	General description	320	Equipment, radar, A.A., No. 5, Mk. 1	
	123	First echelon work	322	Data summary	
	127	Mod. Insts. Nos. 0—11		General description	
	129	Misc. Inst. No. 1—long-term storage and preservation	340	Naval type 242 I.F.F., Mk. 3 equipment	
RADAR TRANSMITTER-RECEIVERS			342	Data summary	
Tels. O		A.A. transmitter-receivers	343	General description	
	110	Equipment, radar, A.A., No. 3, Mk. 2/2	344	First echelon work	
	112	Data summary	347	Second to fourth echelon work	
	113	General description		Mod. Insts. Nos. 0—2	
	114	First echelon work	353/2	I.F.F. equipment, N.T. 242, as fitted to	
	117	Second to fourth echelon work		Equipment, radar, A.A., No. 4, Mk. 5	
	119	Mod. Inst. No. 1		First echelon work	
		Misc. Inst. No. 1	362/1	I.F.F. equipment, N.T. 242, as fitted to	
		Equipment, radar, A.A., No. 3, Mk. 2 (F)		Equipments, radar, C.A., No. 2, Mk. 1 and	
	120	Data summary		1/1 and C.D. No. 1, Mk. 5, 5.1, 6 and 7	
	122	General description	362/2	General description	
	123	First echelon work		I.F.F. equipment, N.T. 242, as fitted to	
	124	Second to fourth echelon work		Equipment, radar, C.D., No. 1, Mk. 4	
	127	Mod. Insts. Nos. 0—8		General description	
		Equipment, radar, A.A., No. 3, Mk. 2	372	I.F.F. equipment, Mk. 3, as used with	
	130	Data summary		Equipments, radar, A.A., No. 1, Mk. 2 and	
	132	General description	373	No. 3, Mk. 2	
	133	First echelon work	374	General description	
	134	Second to fourth echelon work	377	First echelon work	
	137	Mod. Insts. Index and Nos. 0—2, 5, 6, 8, 13, 22, 23, 26—29, 31—33, 35, 36, 39, 47, 52, 53, 55, 58—61, 65, 66, 69, 70, 72, 73, 76, 77, 80, 82, 84, 85, 88, 89, 92—103, 105—110	383/1	Second to fourth echelon work	
139	Misc. Insts. Nos. 1, 2 and 3	387/0	Mod. Insts. Nos. 0—2		
		387/2	I.F.F. equipment, Mk. 3, as fitted to Equip-		
		to	ment, radar, A.A., No. 1, Mk. 2		
		387/8	First echelon work		
			I.F.F. equipment, Mk. 3, as fitted to Equip-		
			ments, radar, A.A., No. 1, Mk. 2 and No. 3		
			Mk. 2		
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			Mod. Insts.		

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Tels. O (contd.)		Identification equipment, radar, Nos. 1C and 1D (formerly I.F.F. equipment, Mk. 3, as used with Equipment, radar, A.A., No. 2)	RADAR ACCESSORIES		
	400	Data summary	Tels. R		Equipment, radar, A.A., No. 2—automatic range unit and calibrator
	402	General description	302		General description
	403	First echelon work	303		First echelon work
	407	Mod. Insts. Nos. 0 and 1	304		Second to fourth echelon work
		I.F.F. equipment, Mk. 3, as fitted to Equipments, radar, A.A., No. 2, Mks. 3, 5, 6 and 7			Converters, range/height, electrical, Mks. 1 and 2
	417/1	Mod. Inst.	310		Data summary
		I.F.F. equipment, Mk. 3, as fitted to Equipment, radar, A.A., No. 2, Mk. 8	312		General description
	412/2	General description	313		First echelon work
		C.A. and C.D. transmitter-receivers (including N.T. adaptations)	314		Second to fourth echelon work
		Equipment, radar, N.T. 271P	317		Mod. Insts. Nos. 1 and 2
	457	Mod. Insts. Nos. 0—3			L17 panel
		Equipment, radar, N.T. 271Q	392		General description
	482	General description			Camera, operational recording, No. 1
	483	First echelon work	500		Data summary
	487	Mod. Insts. Nos. 0, 4 and 5	502		General description
		Equipments, radar, C.A., No. 2, Mk. 1/1 and C.D., No. 1, Mks. 4/1 and 4/1 (special)	503		First echelon work
	494	Second to fourth echelon work	RADAR TRAINERS		
		Equipments, radar, C.A., No. 2, Mk. 1/1 and C.D., No. 1, Mks. 5/1 and 6/1	Tels. S		Classroom trainers
	490/1	Data summary			Trainer, radar, A.A., No. 7
	492/1	General description	137		Mod. Inst. No. 3
	493/1	First echelon work (C.D. only)			Trainers, radar, A.A., Nos. 10 and 10A
	497/1	Mod. Insts. Index and Nos. 0—7	140		Data summary
	499/1	Misc. Insts. Nos. 1 and 2—renumbering E.M.E.Rs.	142		General description
		Equipments, radar, C.A., No. 1, Mks. 2, 2/1, 2/2, 3/1 and 3/1 (60 ft. tower)	143		First echelon work
	500	Data summary	147		Mod. Insts. Nos. 0, 2 and 4—8
	502	General description	149		Misc. Inst. No. 1
	503	First echelon work			Trainer, radar, A.A., No. 15
	504	Second to fourth echelon work	160		Data summary
	507	Mod. Insts. Index and Nos. 0, 4, 5, 8, 13 and 17—20	162		General description
		Equipment, radar, N.T. 277A	163		First echelon work
	602	General description			Simulator, target, radar, A.A., No. 1, Mk. 1
	603	First echelon work	510		Data summary
	Equipment, radar, N.T. 277A, adapted as Equipment, radar, A.A. No. 4, Mk. 5	Field or pack trainers			
617/0 to 617/2	Mod. Insts.			Trainer, radar, A.A., No. 4A	
RADAR RECEIVERS			540		Data summary
Tels. P		Equipment, radar, A.A., No. 1, Mk. 2 (receiver)	541		Operator's instructions
123		First echelon work	542		General description
124		Second to fourth echelon work—calibration of tuning dial	543		First echelon work
127		Mod. Insts. Nos. 0—25	544		Second to fourth echelon work
129		Misc. Inst. No. 1	547		Mod. Inst. No. 4
		Equipment, R.D.F., A.A., No. 5, Mk. 1 (receiver)			Trainer, radar, A.A., No. 8
302		General description	560		Data summary
307		Mod. Insts. Nos. 0—2	562		General description
		Equipment, radar, F.A., No. 1, Mk. 1	563		First echelon work
380		Data summary	567		Mod. Inst. No. 7
382		General description			Trainer, radar, A.A., No. 13—Oscillator, D.P., No. 1
383		First echelon work	590		Data summary
387		Mod. Inst. No. 1	592		General description
389		Misc. Inst. No. 1	593		First echelon work
		Equipment, radar, F.A., No. 3, Mk. 1	594		Second to fourth echelon work
440		Data summary	597		Mod. Insts. Nos. 3 and 4
600		Equipment, Eureka, Mk. 2			Trainer, radar, A.A., No. 201
		Data summary	630		Data summary
			632		General description
			633		First echelon work
			634		Second to fourth echelon work
					Trainer, radar, A.A., No. 202
			640		Data summary
			642		General description
			643		First echelon work
			644		Second to fourth echelon work
					Trainer, radar, A.A., No. 203
			650		Data summary
			652		General description

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SINGLE-CHANNEL LINE EQUIPMENT					
Tels. T		Telephone terminal equipment	Tele. T (contd.)		Teleprinter terminal unit, 80+80V
		Field telephone sets		250/4	Data summary
107		Mod. Insts. Nos. 1—3		252/4	General description
		Telephone set D, Mk. 5		253/4	First echelon work
100/1		Data summary		250/5	Adaptor, teletype (U.S.), teleprinter (British)
102/1		General description		252/5	Data summary
103/1		First echelon work		253/5	General description
104/1		Second to fourth echelon work		254/5	First echelon work
		Telephone set F			Second to fourth echelon work
100/2		Data summary		250/7	Equipment table D.T.N. 2000
102/2		General description		252/7	Data summary
103/2		First echelon work		253/7	General description
104/2		Second to fourth echelon work		254/7	First echelon work
107/2		Mod. Inst. No. 1			Second to fourth echelon work
		Telephone set L		260/1	Teleprinter auto-transmitter
100/3		Data summary		262/1	Data summary
102/3		General description		263/1	General description
103/3		First echelon work		264/1	First echelon work
104/3		Second to fourth echelon work		266/1	Second to fourth echelon work
		Telephone set H, Mk. 2			Identification list and echelon repair schedule
100/4		Data summary		267/1	Mod. Inst. No. 1
		Telephone set, flash spotting, Mks. 1 and 2			Teleprinter receiving reperforator
100/7		Data summary		260/2	Data summary
107/7		Mod. Inst. No. 1		262/2	General description
		Telephone set J		263/2	First echelon work
100/11		Data summary		264/2	Second to fourth echelon work
102/11		General description		266/2	Identification list and echelon repair schedule
103/11		First echelon work			Keyboard perforator (P.O. perf. No. 44)
104/11		Second to fourth echelon work		260/3	Data summary
106/11		Identification list and echelon repair schedule		262/3	General description
		Misc. Inst. No. 1		263/3	First echelon work
109/11		Control unit, S.R., No. 2, Mk. 1		264/3	Second to fourth echelon work
		Data summary			High-speed telegraph equipment
100/12		General description		282	General description
102/12		First echelon work		289	Misc. Inst. No. 1—renumbering E.M.E.R.
103/12		Second to fourth echelon work			Morse keyboard perforator
104/12		Keyboards, multiphone, AD569 and AD1316		280/1	Data summary
		Data summary		282/1	General description
130/1		General description		283/1	First echelon work
132/1		First echelon work		284/1	Second to fourth echelon work
133/1		Keyboard, multiphone, AD1594			Wheatstone transmitter, G.N.T., model 112
		Data summary		280/2	Data summary
130/3		General description		282/2	General description
132/3		First echelon work		283/2	First echelon work
133/3		Second to fourth echelon work		284/2	Second to fourth echelon work
		D.C. telegraph equipment			Wheatstone transmitter (Elliot)
		Fullerphones, Mks. 4, 4/1, 5 and 6		280/3	Data summary
200/2		Data summary		282/3	General description
202/2		General description		283/3	First echelon work
203/2		First echelon work		284/3	Second to fourth echelon work
204/2		Second to fourth echelon work		287/3	Mod. Inst. No. 1
		Teleprinter systems			Wheatstone morse transmitter (Creed)
242		General principles		280/4	Data summary
		Teleprinter 7B (W.D.)		282/4	General description
240/1		Data summary		283/4	First echelon work
242/1		General description		284/4	Second to fourth echelon work
243/1		First echelon work			Morse reperforator
244/1		Second to fourth echelon work		280/5	Data summary
247/1		Mod. Insts. Nos. 1 and 2		282/5	General description
249/1		Service data—first echelon		283/5	First echelon work
		Printing reperforators Nos. 1 and 2		284/5	Second to fourth echelon work
240/2		Data summary		287/5	Mod. Insts. Nos. 1—3
242/2		General description			Morse page printer
		Teleprinter terminal units		280/6	Data summary
257		Mod. Inst. No. 1		282/6	General description
		Teleprinter terminal unit, Mk. 3		283/6	First echelon work
250/2		Data summary		284/6	Second to fourth echelon work
252/2		General description		286/6	Identification list and echelon repair schedule
253/2		First echelon work		287/7	Mod. Inst. No. 1
		Teleprinter terminal unit, Mk. 4			Undulator, U.G. 6A, No. 3
250/3		Data summary		280/7	Data summary
252/3		General description		282/7	General description
253/3		First echelon work		283/7	First echelon work
				284/7	Second to fourth echelon work

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Tels. T (contd.)	280/8	Recording bridge, Marconi type R.B. 150	Tels. T (contd.)	320/3	Switchboard, A.T., 3796 $\frac{10+50}{65}$
	282/8	Data summary		320/4	Switchboard, C.B., 873 $\frac{5+20}{25}$
	283/8	General description		320/5	Switchboard, C.B., 935 $\frac{1+3}{4}$
	284/8	First echelon work		320/6	Switchboard, C.B., 935 $\frac{2+4}{6}$
		Second to fourth echelon work		320/7	Switchboards, C.B., 935 $\frac{3+7}{12}$ and $\frac{3+9}{12}$
	280/9	Puller, tape, No. 3		347	Teleprinter switchboards
	282/9	Data summary			Mod. Inst. No. 1
	283/9	General description		340/1	Switchboards, teleprinter, 15-line, Mk. 1
	284/9	First echelon work		342/1	and 40-line, Mk. 1
		Second to fourth echelon work		343/1	Data summary
	280/10	Supply unit, rectifier, No. 4			General description
	282/10	Data summary		342/2	First echelon work
	283/10	General description		343/2	Second to fourth echelon work
	284/10	First echelon work		344/2	Frames, D and P, 10-wire, Mk. 1/1
		Second to fourth echelon work		390/1	Data summary
	280/11	Creed relay No. 27		392/1	General description
	282/11	Data summary		393/1	First echelon work
	283/11	General description			Test frames, 20-pair, Mk. 2 and 40-pair,
	284/11	First echelon work		390/2	Mk. 1
		Second to fourth echelon work			Data summary
	280/13	Reperforator, G.N.T., model 451		392/3	Box, terminal, signal office, Mk. 2
	282/13	Data summary		393/3	General description
	283/13	General description			First echelon work
	284/13	First echelon work		390/4	Unit, amplifying, No. 23
	286/13	Second to fourth echelon work		392/4	Data summary
		Identification list and echelon repair		393/4	General description
		schedule		394/4	First echelon work
287/13	Mod. Inst. No. 1		Second to fourth echelon work		
	Monitoring bridge, type O.C. 12		Complete exchanges		
280/14	Data summary		Exchange, C.B., multiple (W.D.), unit type,		
282/14	General description	420	N-positions (switchboard suite and apparatus		
283/14	First echelon work	422	racks)		
284/14	Second to fourth echelon work	423	Data summary		
	Recording bridge, Marconi, R.B. 150/2	424	General description		
280/15	Data summary	429	First echelon work		
282/15	General description		Second to fourth echelon work		
283/15	First echelon work		Misc. Inst. No. 1—amendment of		
284/15	Second to fourth echelon work		E.M.E.R.		
			Exchange, C.B., multiple (W.D.), unit type,		
	Switchboards		N positions (power supply equipment)		
	Switchboards		Data summary		
309	Misc. Inst. No. 1—renumbering E.M.E.R.		General description		
	Switchboards, U.C., 6- and 10-line		First echelon work		
300/1	Data summary		Second to fourth echelon work		
302/1	General description				
303/1	First echelon work				
307/1	Mod. Insts. Nos. 1 and 2				
	Switchboards, F and F, Mks. 1, 1/1 and 2				
300/2	Data summary				
302/2	General description				
303/2	First echelon work				
307/2	Mod. Insts. Nos. 1—3				
	Switchboard, magneto, 10-line (W.D.)				
300/3	Data summary				
302/3	General description				
303/3	First echelon work				
304/3	Second to fourth echelon work				
306/3	Identification list and echelon repair				
	schedule				
	Switchboard, C.D., 5-line				
300/5	Data summary				
	Switchboard, command, 200-line				
320/1	Data summary				
322/1	General description				
323/1	First echelon work				
324/1	Second to fourth echelon work				
	Exchange, magneto (W.D.), unit type,				
	N positions				
320/2	Data summary				
322/2	General description				
323/2	First echelon work				
324/2	Second to fourth echelon work				
326/2	Identification list and echelon repair				
	schedule				

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Tels. T (contd.)	Telephone repeaters and amplifiers		Tels. U (contd.)	Apparatus, C.T., (1+1), No. 1	
		Repeater, telephone, 2-circuit, No. 3		150/1	Data summary
	510/2	Data summary		152/1	General description
	512/2	General description		153/1	First echelon work
	513/2	First echelon work		154/1	Second to fourth echelon work
	514/2	Second to fourth echelon work		157/1	Mod. Inst. No. 1
	516/2	Identification list and echelon repair schedule			Apparatus, C.T., (1+1), No. 2
	519/2	Misc. Inst. No. 1		150/2	Data summary
		Repeaters, telephone, 2-circuit, 1W and 1C		152/2	General description
	510/3	Data summary		153/2	First echelon work
	512/3	General description		154/2	Second to fourth echelon work
	513/3	First echelon work		156/2	Identification list and echelon repair schedule
	514/3	Second to fourth echelon work			Apparatus, C.T., (1+1), No. 3
		Repeaters, telephone, 8-circuit, Mk. 1 and 2		150/3	Data summary
	520	Data summary		152/3	General description
	522	General description		153/3	First echelon work
	523	First echelon work		154/3	Second to fourth echelon work
	524	Second to fourth echelon work			Apparatus, selective carrier, No. 1
		Repeater, stabilized, 2-wire, No. 3		170/1	Data summary
	570/1	Data summary		172/1	General description
	572/1	General description		173/1	First echelon work
	573/1	First echelon work		174/1	Second to fourth echelon work
		Telephone set F, H.P.		176/1	Identification list and echelon repair schedule
	580/1	Data summary			Apparatus, selective carrier, No. 2
	582/1	General description		170/2	Data summary
	583/1	First echelon work		172/2	General description
	584/1	Second to fourth echelon work		173/2	First echelon work
	586/1	Identification list and echelon repair schedule		174/2	Second to fourth echelon work
	587/1	Mod. Inst. No. 1			V.F. telegraphy terminals
		Networks, balancing and testing, Nos. 1 and 2			Apparatus, V.F. telegraph, 6-channel, carrier
	590/1	Data summary		200	Data summary
	592/1	General description		202	General description
	593/1	First echelon work		203	First echelon work
		Signalling equipment		204	Second to fourth echelon work
		Units, signalling, V.F., No. 3, Mk. 2 and 3			Apparatus, V.F. telegraph, 6-channel, 2-tone, triple diversity, Nos. 1 and 2A
	600/1	Data summary		210	Data summary
	602/1	General description		212	General description
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