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Vocabulary  
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# Vocabulary of Army Ordnance Stores

## SECTION Z 1

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### RADIO AND ALLIED EQUIPMENTS

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**1964**

(Supersedes Code No. 12452)

*By Command of the Defence Council.*

A handwritten signature in cursive script, likely of a high-ranking official.

**MINISTRY OF DEFENCE**  
November, 1964



## VOCABULARY OF ARMY ORDNANCE STORES

## SECTION Z1

## FOREWORD

1. Demands for further copies of this publication, or amendments thereto will be passed through the normal channels of supply for Ministry of Defence publications.
2. Amendments will be published as replacement pages
3. Items appearing in italics are OBSOLETE.
4. The N.A.T.O. system of cataloguing utilizes a 13-digit coding structure; the 13 digits are broken down into groups as follows:-
  - (a) *The N.A.T.O. class* is indicated by the first group of four digits. This shows the range of store to which the catalogued item belongs.
  - (b) *The NATION Code* is indicated by the next group of two digits. This shows the N.A.T.O. country of origin, which has codified the item.
  - (c) *The NATIONAL identification number* is indicated by the last seven digits. This shows the actual item identification number. The hyphen between the third and fourth digits is inserted as an aid to memory.

## SECTION Z1

## ABBREVIATIONS

A	Ampere(s)	M.O.	Master oscillator
A.F.	Audio frequency	mV.	Millivolt(s)
A.F.C.	Automatic frequency control	mW.	Milliwatts
A.F.V.	Armoured fighting vehicle	P.S.U.	Power supply unit
A.M.	Amplitude modulated	qr.	Quarters
AM/RT	Amplitude modulated/ Radio Transmission	R.F.	Radio frequency
Ampfr. U.	Amplifier unit	r.m.s.	Root mean square
Appa. C.T.	Apparatus, carrier telephone	R/T.	Radio transmission
A.V.C.	Automatic volume control	R.T.	Radio telephony
C.E.S.	Complete equipment schedule	R.X.	Receiver, radio
C.F.S.	Carrier frequency shift	SHF.	Super high frequency (above 3,000 megacycles)
C.W.	Continuous wave	S.R.	Station radio
D.F.	Direction finding	S.S.B.	Single side band
D.S.B.	Double side band	T.R.X.	Transmitter-receiver, radio
F.M.	Frequency modulated	T.X.	Transmitter, radio
F.S.K.	Frequency shift keying	μA.	Microampere(s)
H.P.	High power	μV.	Microvolt(s)
I.F.	Intermediate frequency	μW.	Microwatt(s)
mA.	Milliamper(e)s	U.H.F.	Ultra high frequency (above 300 megacycles)
M.C.W.	Modulated continuous wave	W.T.	Wireless telegraphy
M.F.	Medium frequency		

## SECTION 21

Cat. No.	Item name or designation	Item description or detail	Ident. or Parts Lists (Code No.)
Z1/ZA 27098	AERIAL Vertical 14 ft. No. 1	Tubular rod aerial, composed of seven 2 ft. sections which are threaded together on a steel wire to prevent loss of any sections Mounted on aerial base No. 10 Dimensions stowed:- Overall length           2 ft. 3 in. Overall dia.               5 in. Weight:-                 4 lb.	
Z1/ZA 27691	32 ft. No. 1	4 tubular rod aerial Made up from:- Aerials, vertical, 14 ft. No. 1 Z1/ZA 27098 one off sections, 3 ft. antenna rods "D" Z1/ZA 5386:- six off Adaptors, no. 1, antenna rods, "F" Z1/ZA 29554 one off	

## SECTION Z1

Cat. No.	Item name or designation	Item description or detail	Ident. or Parts Lists (Code No.)
Z1/ZA 29961 Z1/ZA 29828	<p>AERIAL Vertical 32 ft. No. 1 - continued</p> <p>Mk. 1/1 34 ft. Steel Mk. 1/1</p>	<p>continued detail of Cat. No. Z1/ZA 27691 Complete with anchoring stays, aerial base, and canvas carrying bag Dimensions stowed:- Length 3 ft. 8 in. Dia. 8 in. Weight:- 27 lb. As for No. 1, but suitable for pan-climatic use</p> <p>A tubular rod aerial, made up from: Sections No. 1 antenna rods F. Mk. 2 (Z1/5820-99-949-1166) two off</p>	5735 5735

Z1/ZA 31980  Z1/5820-99-949-2150	<p>36 ft. Lightweight</p> <p>AMPLIFIER, RADIO FREQUENCY (No. 7) 1.5 to 12 mc/s., 24V.</p>	<p>No. 2 antenna rods, F. Mk. 2 (Z1/5820-99-949-0985) one off No. 3 antenna rods, F. Mk. 2 (Z1/5820-99-949-0995) one off 3 ft. Mk. 2 antenna rods "D" (Z1/ZA 43193) six off Adaptors, No. 1 Mk. 1/1 antenna rods, F (Z1/ZA 29554) one off Complete with anchoring stays, aerial base and canvas carrying bag Dimensions, stowed:- Length 4 ft. Dia. 8.1/2 in. Weight:- 52 lb.</p> <p>Tubular rod aerial consisting of eight 4 ft. 6 in. hiduminium sections mounted on an inactive lower section fitted into a spiked base The aerial is held erect by two sets of three stays. The dismantled aerial, ancillaries and spares are packed in (Z1/ZA 1983) Bags, aerial gear No. 3 Dimensions stowed:- Length 4 ft. 8 in. Dia. 1 ft. Weight:- 20 lb.</p> <p>10.9/16 in. x 14.3/8 in. x 17 in. approx. o/a dim.</p>	5735
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## SECTION Z1

Cat. No.	Item name or designation	Item description or detail	Ident. or Parts Lists (Code No.)
Z1/5820-99-102-1120	ANTENNA 100 ft. No. 5	A stranded wire end feed aerial, 100 ft. long, the aerial is formed into four sections by means of insulators, these can be bridged across to provide aeriels, 100 ft. 75 ft. 45 and 25 ft. long Stowed on a wooden reel Made from:- Y3/WB 1057, wire electric, R4, Mk. 1 - 100 ft. Z1/ZA 29005, reels, aerial, No. 4, Mk. 1/1 - 1 Z1/ZA 4386 insulators, W.T., chain small, 1 link, 3 Z1/ZA 4589 insulators, W.T., chain small, 2 link, 2 Dimensions stowed:- Length 9 in. Width 8 in. Height 8 in. Weight:- 2.1/2 lb.	
Z1/5340-99-949-9615	BINDER, CRADLECLIP	Nylon; black; 7/8 in. x 3/8 in., semi-circular ends 3/16 in. dia.	

Z1/5995-99-900-7161	CABLE ASSEMBLY Radio frequency 9 ft. long	Uniradio, 70, socket co-axial free angled both ends	
Z1/5995-99-900-7191	Special purpose, electrical 3 ft. 3 in. long	3 conductors, plug 3 pin power, 1st end, socket free straight 2nd end	
Z1/5995-99-900-7182	15 ft. 4 in. long	3 conductors, plug free angled 1st end, socket free straight 2nd end	
Z1/5910-99-971-3733	CAPACITOR, FIXED, METALLIZED PAPER DIELECTRIC	Tub. metal case, insulated 1 $\mu$ F $\pm$ 20% 1,000V. D.C.	
Z1/5910-99-105-0573	CAPACITOR, FIXED, PAPER DIELECTRIC	Foil, rectangular plastics case; 0.22 $\mu$ F $\pm$ 10%, 500V. D.C. working	
Z1/5910-99-970-8871	CAPACITOR, VARIABLE, AIR DIELECTRIC	Plate meshing; 436.1 pF max.	
Z1/5340-99-120-0377 Z1/5340-99-100-0677	CLIP, SPRING TENSION Phos. bronze Steel	7/64 in. h. of loop, 1/4 in. w.; 1 pole fixing 3/4 in. grip dia. 0.375 in. w.; single hole fixing 1 pole fixing	
Z1/5820-99-949-3501	CONTROL, RADIO SET A.T. & E. Type RLR 10	A remote relay unit which, used in conjunction with Control, radio set, A.T. & E., type RLR 12 Z1/5820-99-949-3502, enables remote control of radio telephone equipment to be achieved over a pair of telephone lines up to a distance of several miles	

## SECTION Z1

Cat. No.	Item name or designation	Item description or detail	Ident. or Parts Lists (Code No.)
Z1/5820-99-949-3502	CONTROL, RADIO SET A.T. & E. Type RLR 10 - continued  Type RLR 12	continued detail of Cat. No. Z1/5820-99-949-3501  Comprises:- Power supply; Switching circuits; Speech circuits Is housed in a metal case 10 in. long x 7.1/2 in. deep x 7 in. high for table top mounting The unit, used in conjunction with Signalling unit, RLX 24 and Control unit, A.T. & E., type RLR 10, is designed for remote control of simplex or duplex V.H.F. radio telephone equipment Includes loudspeaker and telephone handset Housed in a metal case, with rubber feet for table top mounting Dimensions:- Length 13 in. Breadth 8 in. Height 10 in. Weight:- 11 lb.	13736
Z1/5820-99-949-9905	CONVERTER, FREQUENCY, ELECTRONIC Racal RA 70	Used in conjunction with Communication Receiver RA 17, for teleprinter requirements. Suitable for rack mounting Frequency Range:- Input:- 100 kc/s. Output:- 14 kc/s. Power:- 100/250 V. A.C.; 45/60 c/s. Consumption:- 25 V.A. Dimensions:- Length 19 in. Breadth 12 in. Height 3.1/2 in. Weight:- 16 lbs.	
Z1/5820-99-102-2496	RA 98A	An adaptor to enable reception of independent sideband and single sideband signals, with either pilot or suppressed carrier, to be supplied from Racal Receiver RA 17 Mk. 2, Z1/5820-99-943-2775 or Racal Receiver RA 117/Z1/5820-99-949-4826. Includes self contained power unit Designed for rack mounting Power:- 100/250 V., A.C.; 45-65 c/s., 65 watts Input Frequency:- 100 kc/s. $\pm$ 1 kc/s.	



## SECTION Z1

Cat. No.	Item name or designation	Item description or detail	Ident. or Parts Lists (Code No.)
	CONVERTER, FREQUENCY, ELECTRONIC Racal RA 98A - continued	continued detail of Cat. No. Z1/5820-99-102-2496  A.F. output:- 10 mW. at 600 ohms. (balanced) Sensitivity:- 50 mW. input for 10 mW. audio output Input:- 5 mW. to 0.5 V. r.m.s. at 75 ohms. Dimensions:- Length                   19 in. Breadth                 13 1/2 in. Height                  5 1/4 in. Weight:-               30 lb.	

Z1/5820-99-103-1365	CONVERTER, Frequency electronic Racal - continued RA 237B	An L.F. converter which extends the frequency coverage of the RA 117 down to 10 kc/s. Incorporates wide band or double tuned input circuits and drum calibrated scale. Input:- Frequency range 10 kc/s. to 980 kc/s. Output:- 2 to 3 mc/s. Dimensions:- Length                   13 in. Width                    19 in. Height                  3 1/2 in. Weight:-               13 lb.
Z1/5820-99-949-1487	CONVERTER, Frequency shift B.T.R. Type IFS 3 No. 1	Housed in a steel case suitable for 19 in. rack mounting. The equipment provides facilities for the conversion of telegraph transmissions, which may be received as a single or double frequency shift signals, to a keyed 3 kc/s. tone output. Provision is made for the insertion of capenter type relays if relay output is required

## SECTION Z1

Cat. No.	Item name or designation	Item description or detail	Ident. or Parts Lists (Code No.)
	CONVERTER, Frequency shift B.T.R. Type TFS 3 No. 1 - continued	continued detail of Cat. No. Z1/5820-99-949-1487 Alternative pass bands and transmission speeds are obtained by means of plug in filter units Output facilities: an internally generated keyed tone at 3 kc/s., adjustable up to 5 milliwatts in both balanced and unbalanced 600 ohms. output, with provision for relay output Keying speeds: up to 50, 100 and 300 bands in three ranges Input sensitivity: single and double frequency shift + 20 to - 40 db. relative to 1 mW. Power supply:- 100 to 125 V., A.C.; 200 to 250 V., A.C.; 50 to 60 c/s.	
Z1/5820-99-949-1488	No. 2	Consumption:- 110 VA. Dimensions:- Depth 21.1/2 in. Width 19 in. Height 8.3/4 in. As for Z1/5820-99-949-1487 but without filters and with facilities to bring in Filter switching unit, type TFS3.5, B504/0026 Z1/5820-99-949-1844	13329
Z1/5805-99-933-0847	Plessey P.V. 78B	A frequency converter-keyer unit designed to convert frequency shift keying, suitable for driving up to three teleprinters Inputs:- Two inputs, 600 ohms., centre-frequency of input filters 14 kc/s. nominal input level 5 mW. Output:- Polar output 20 to 60 mA. Power supply:- 105 to 250 V. A.C. (in steps) 40-60 c/s. Consumption:- 126 V.A. at full output Dimensions:- Depth 12.3/4 in. Width 19 in. Height 7 in. Weight:- 31 lb.	13375
Z1/5820-99-580-1973	CONVERTER, Radio frequency Racal type RA 98B	Similar to Z1/5820-99-102-2496 Converter Frequency, Electronic, Racal type RA 98A, but fitted with American output terminations	

## SECTION Z1

Cat. No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/5820-99-949-4521	CONVERTER, SINGLE SIDE-BAND Racal RA 63A	A single side band adaptor for connection to the intermediate frequency of an H F. Communications receiver Used in conjunction with Receiver, Radio, Racal RA 17 Mk 2 and " versions Bandwidth - 2,500 c/s Power: 100 250V A C , 45/65 c/s Dimensions Length 19 in Breadth 13 in Height 3 1/2 Weight - 16.1/2 lb.	
Z1/5820-99 954-0538	Racal RA 63G	75 ohms unbalanced input at 100 kc/s ; 100/125V or 200/250V , A C , 45/65 c/s supply, completely interchangeable with (Z1/5820 99 949-4521)	
Z1/5820-99-949-4977	ELECTRONIC SWITCH Plessey, PV 136	Rack mounting aerial switching unit, using diode switching circuits for one or two receivers, used in conjunction with PV 137 PV 138 and PV 139/1	

Z1/5325 99 913 707	GROMMET, PLASTICS Groove 3/8 in I D 7/6 in w ; 1/2 in O D , 19/64 in h	Inputs 12 Outputs 1 pole 12 way on 2 pole 6 way Dimensions Length 1 ft 7 in Height 1 3/4 in Depth 10 in Weight: 12 lb	Plasticized polyvinyl chloride
Z1/5325-99 20 1019	GROMMET, RUBBER Groove 3/8 in I D 3/64 in w ; 1/2 in O D , 15/64 in h	Synthetic	
Z1/5325 99 951 7020	Groove 1/2 in I D 5/64 in w ; 11/16 in O D , 21/64 in h	Synthetic	
Z1/5325-99 942 3461	Groove 1 in I D , 3/64 in w 1 1/4 in O D , 19/64 in h	Synthetic	
Z1/5820 99 949 1190	INDICATOR PANORAMIC Racal RA 66	An adaptor converter to provide visual display of radio transmission in any band throughout the H F spectrum Used in conjunction with Receiver, radio Racal RA 17 Mk 2 Frequency range 1 to 30 Mc/s Power 100 to 125 V , 200 to 250 V A C 45 to 65 c/s Consumption: 180 VA approx Dimensions: Length 19 in Breadth 19 in Height 8 3/4 in Weight: 65 lb , rack mounted	

## SECTION Z1

Cat. No.	Item name or designation	Item description or detail	Ident. or Parts Lists (Code No.)
Z1/ZA 20228	KIT Aerial 34 ft. or 16 ft. twin No. 1	Comprises items required to erect a 34 ft. vertical rod aerial for use when vehicle is stationary, or a 16 ft. twin rod aerial for mobile use. Supplied complete with spares in a canvas carrying bag Dimensions stowed:- Length 3 ft. 8 in. Dia. 6.1/2 in. Weight:- 30 lb.	5735
Z1/ZA 29553	No. 2 Mk. 1/1	As for No. 1 but with the addition of bracket, aerial, clamping No. 1, Mk. 1/1 (Z1/ZA 29558). To be used when vehicle is fitted with Insulators, W.T., aerial lead in No. 16, Mk. 2 (Z1/ZA 28090)	5735
Z1/ZA 29549	MAST 36 ft, steel Mk 2/1	Comprises six tubular steel sections each 6 ft 8 1/2 in long x 3 1/8 in. diameter, mounted on a metal baseplate. Supplied with aerial halyard and two sets of four stays	5754
Z1/ZA 29471	48 ft. steel Mk. 2/1	Tubular steel mast consisting of six, 8 ft. 9 in. long, sections, held erect by two sets of four stays. Mounted on a steel baseplate. Supplied with two additional sections and guys for use as erecting derrick. Suitable for pan-climatic use	5754
Z1/ZA 29470	70 ft. steel Mk. 2/1	Tubular steel mast, consisting of nine 8 ft. 9 in long sections. Held erect by three sets of four stays. The mast is mounted on a steel baseplate. Supplied with two additional sections and stays for use as an erecting derrick. Suitable for pan-climatic use	5754
Z1/ZA 15761	92 ft, steel	Tubular steel mast consisting of three 30 ft. 6 in. long cigar shaped sections, coupled by universal joints and held erect by guy wires. Supplied with erecting and dismantling gear, mast, No 1 (Z1/ZA 19933)	2499

## SECTION Z1

Cat. No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/ZA 26557	MAST - continued 97 ft , steel Mk 2	Tubular steel mast consisting of two 30 ft 6 in long and one 35 ft 6 in long cigar shaped sections coupled by universal joints and held erect by guy wires Supplied complete with erecting and dismantling gear mast No 1 (Z1/ZA 19933) complete with Adjusters, guy sets, No 2 YA 2209, YA 0846, Z1/ZA 27654 and couplings mast unit, No 2 (Z1/ZA 26558)	2989
Z1/ZA 15762	102 ft , steel	A tubular steel mast consisting of one 30 ft 6 in long and two 35 ft 6 in long cigar shaped sections, coupled by universal joints and held erect by guy wires Supplied with erecting and dismantling gear, mast, No 1 (Z1/ZA 19933)	2499
Z1/5985 99-102 3750	MAST ANCILLARY KIT	36/48 ft ; steel; lightweight; No 1	
Z1/5985-99-102-3777	MAST ERECTION KIT	36/48 ft ; steel; lightweight	
Z1/5820-99-102 1342	MAST SECTION	Tubular; steel; 2 1/4 in O D 4 ft 6 in long Used with Mast 36/48 ft ; steel, lightweight Truck Radio R type A Mk 3 1 ton 4x4 Austin	

Z1/5820 99 580 0744	MIXER STAGE FREQUENCY Racal type RA 137	A L f Converter which extends the frequency of the RA 17L down to 0 Kc/ Incorporates wide band or double tuned input circuit and drum calibrated scale Input: Frequency range 10 Kc/s to 980 Kc/s Output 2 to 3 mc/s Dimensions: Length 3 in Width 19 in Height 3 1/2 in Weight 13 lb
Z1/5935-99 580-0647	OUTLET, ACCESSORY, Set	Metallic material; 0 96 in long 0 9 in O D o/a dim
Z1/5820 99 901 7244	PANEL Electrical, equipment	Aluminium 9 11/ 6 in x 2 1/4 in x 2 49/64 in o/a dim No 2 Plessey type PV 139/E
Z1/5820 99 949-4975	Patching antenna	
Z1/5820 99 949 4978 Z1/5820-99 949 1086	POWER SUPPLY Plessey type PV 137 Vibratory, No 12 Mk 2 24 V	A vibratory type D C power supply unit for use with Transmitter receiver radio C42 and C45 Incorporates an overload cut-out and starting unit Housed in a light metal fully sealed case A meter is provided for monitoring the input voltages

## SECTION Z1

Cat. No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
	POWER SUPPLY Vibratory No 12, Mk 2 24 V - continued	continued detail of Cat No Z1/5820-99-949-1086  Power and consumption: Input voltage: 20 79 - 2 V D C Input current: 1 8A - 9A at 23 V Output: 350 V , D C 140 mA 12 V A C 200 mA 175 V D C 150 mA 6 3 V , A C 3 8 mA 24 V , D C 300 mA 6 3 V , A C 300 mA 12 V , D C 350 mA 6 3 V , A C 800 mA 12 V , D C 500 mA 6 3 V A C 800 mA * * Supply balanced to earth  Dimensions:- Length 8 in Width 8 1/2 in Height 14 1/4 in Weight 40 lb *	
Z1/5820-99-949-0508	Vibratory, No 16	Note - This unit must be used in conjunction with wireless control harness types A or B, which contain a voltage control relay (Old Cat No Z1/ZA 50544) Two synchronous vibrator packs with a voltage controlling relay For use with Transmitter-receiver, radio, C 13 watertight diecast metal case Fitted with meter for measuring input voltages Consumption: Input: 27 V at 6 3 A Output:- 600 V at 73 mA 300 V at 13 6 mA 150 V at 100 mA 19 V and 12 V output from battery via dropp ng resistance Dimensions: Length 8 in Breadth 14 in Height 8 1/2 in Weight 40 lb	12646
Z1/5820-99-911-0415	POWER SUPPLY SET Type PP2C	Comprises three power supply subassemblies, type PP2C:- (a) No 1 (Z1/5820 99 911-0456) (b) No 2 (Z1/5820 99-911 0457) (c) No 3 (Z1/5820-99 911-0458)	

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/ZA 26707	RECEIVER, Broadcast P C R No 1	<p>A six valve superheterodyne receiver with internal loud speaker Used in conjunction with supply units, rectifier No 17 (Z/ZA 26706) or supply units, vibratory, No 8 (Z1/ZA 26705)</p> <p>Frequency range:- 150 kc/s to 19 Mc/s L F 465 kc/s</p> <p>Power:- Input (1) 200-250 V A C (2) 12 V, D C</p> <p>Sensitivity:- 35 <math>\mu</math>V for 50 mW output Aerial system: end fed single wire</p> <p>Dimensions:- Length 17 1/2 in Width 10 in Height 8 1/4 in</p> <p>Weight:- 26 lb 12 oz</p>	2981
Z1/ZA 27718	No 2	<p>As for No 1 but with altered frequency range and has no internal loudspeaker Used in conjunction with unit loudspeaker, No 1 (Y1/ZA 30991)</p> <p>Frequency range:- 150 kc/s to 23 Mc/s</p>	2940
Z1/ZA 29639	No 3	<p>As for No 2 but has altered frequency range and provision for using supply units, vibratory No 9 (Z1/ZA 29770) or supply units vibratory, No 8 (Z1/ZA 26705)</p> <p>Frequency range:- 526 to 1,579 kc/s and 2 3 to 23 0 Mc/s</p>	
Z1/ZA 36009	Mk 1/1	<p>As for No 3 but modified to enable supply unit rectifier (Z1/ZA 26706) to be replaced by supply unit, rectifier, No 5 (2B 0179) or supply unit rectifier, No 5, Mk 1/1 (2B 12789)</p>	2950
Z1/ZA 30607 Z1/ZA 19787	Mk 1/2 Type B No 3	<p>As for No 3 but suitable for tropical working</p> <p>A four valve superheterodyne receiver for R/T Suitable for tropical use</p> <p>Frequency range:- 600 to 1,500 kc/s and 6 to 20 Mc/s I F 465 kc/s</p> <p>Power Input 6 V D C Consumption: 19 8 watts Sensitivity 35 <math>\mu</math>V for 50 mW (approx ) Aerial system: end fed single wire</p> <p>Dimensions: Length 1 ft 8 in Width 1 ft 0 in Height 11 1/2 in</p> <p>Weight: 30 lb</p>	1435

## SECTION Z1

Cat. No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/5820-99 949 1385	RECEIVER-INDICATOR, Panoramic Racal, RA81	Comprises: Indicator panoramic, Racal RA 66 (Z1/5820 99 949 1190) and Receiver radio, Racal, RA 17, Mk 2 (Z1/5820 99 943 2775)	13230  12631
Z1/5895-99-102 4947	RECEIVER Induction	No 1	
Z1/5820-99-971-8329 Z1/5820-99-103 2205 Z1/5820-99-949-1418	RECEIVER Radio Eddystone 770R Mk 2 770U/1, Mk 2 Marconi, type HR23	Crystal controlled triple diversity receiver, independent, single and double side band operation, traffic capacity for four telephone channels Input impedance: 75 ohm co-axial Freq ency ranges:- 3 to 27.5 Mc/s Output: 40 mW in 600 ohms for separate outputs, 2.5 mW for combined path output	

Z1/5820 99 911 0850

R210

Power supply: 200 to 250 V, 50 c/s single phase, A C, 600 W consumption

Dimensions  
Height 7 ft 1/4 in  
Width 3 ft 11 in  
Depth 1 ft 10 in

Weight: 1 000 lb

A pan-climatic H F seven band superheterodyne receiver Used in conjunction with wireless transmitter C 11 Self contained D C power supply unit (24 V) and a separate A C P S U (100 250 V)

For operation in command and vehicle installations also as a general purpose communication receiver when used on its own

Frequency range 2 to 16 Mc/s in seven bands  
Power 24 V, D C or 105/250 V, A C, 45/65 c/s  
Consumption: 24 V, D C 1.7A 105/250 V A C at 0.2A

Aerial systems:-  
(a) 80 ohms unbalanced  
(b) High impedance for rod/wire aerials

Dimensions:  
Length 10 in  
Width 14 in  
Height 7 1/2 in

Weight: 35 lb  
Old Cat No Z1/ZA 46729)

12627



## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/5820-99-102-7464	RECEIVER, RADIO - continued R213, Mk. 2	As Receiver Radio R213 except fitted with crystal calibrator, new style cabinet and standard fittings	
Z1/5820-99-949-6087	R213/1	As R213 but in a cabinet which is suitable for both bench and rack mounting Height 9 1/4 in. Width 19 in Depth 13 in Weight - 66 1/2 lb.	
Z1/5820-99-949-6088	R213/3	As R213 but with facility for external HT/LT supply operation, no external relay terminals	
Z1/5820-99 949-2876	R213/4	R213 extensively modified for use by I F V in the testing of vehicle suppression	
Z1/5820-99-949-6164	R213/5	As R213 but with built in 5 Mc/s crystal calibrator, and tuning dial cursor which can be adjusted to correct for errors in calibration	
Z1/5820-99-949-3066	R222, Mk. 1/1	See Station, radio, C 41, Mk. 1/1	
Z1/5820-99-104-4292	R236	I.M. crystal controlled, superheterodyne receiver continuously tunable; the output may be either switched to provide frequency division Multiplex or pulse code modulation; one engineering channel is also available	
Z1/5820-99-943-2775	Racal, RA 17 Mk. 2	<p>Input impedance 50 ohms  Frequency range 225-400 Mc/s  Power input 100/250V A.C. 50/60 c/s  Dimensions -  Length 21 in.  Breadth 13 in  Height 14 in  Weight 70 lb</p> <p>A M/V.H.F triple superheterodyne A.C. receiver with continuous bandwidth tuning for C W and R/I reception on either loudspeaker or headphones. With built up power supply and fitted loudspeaker. Complete with dust cover Suitable for 19 in rack mounting only</p> <p>Frequency range:-  0 5-30 Mc/s</p> <p>Power:-  Input: 100/250 V., A.C 45/65 c/s  Consumption: 85 W. approx</p> <p>Aerial system:-  The impedance at the co-axial aerial plug is designed to match into a 75 ohms unbalanced transmission line The connector socket, type Z/5935-99-054-9028, supplied with the receiver, is intended for use with UR 70 or similar cable of nominal diameter, 1/2 in</p> <p>Dimensions:-  Length 19 in  Breadth 20 1/8 in  Height 10.1/2 in.  Weight:- 67 lb.</p>	12631

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/5820-99-911-0831	RECEIVER, RADIO Racal, RA17 - continued Type E	As for receiver, radio, Racal, RA17, Mk 2 (Z1/5820-99-943-2775) but I F bandwidth increased from 8 to 13 kc/s	
Z1/5820-99-999-9292	Racal, RA17L	Similar to Z1/5820-99-943-2775, but has improved dynamic range and cross modulation Dimensions:- Length                               20 1/2 in Breadth                               21 7/8 in. Height                               12 in Weight:-                           67 lb	
Z1/5820-99-949-3256	Racal, RA101	An H F receiver for providing additional facilities for single sideband reception Comprises:- Receiver, radio, RA17L (Z1/5820-99-999-9292) and S S Adaptor, RA63	
Z1/5820 99-949-4826	Racal, RA117	A M/H F quadruple superheterodyne A C receiver for G W or R T reception, suitable for use with external synthesizer or pre-set channel crystal oscillator Frequency range:- 1 Mc/s to 30 Mc/s continuously variable over 5 wave bands Input impedance:- 75 ohms unbalanced A F output: Fitted loudspeaker, two head phone sockets, 4 to 600 ohms output and 1 output of 1 W at 3 ohms Power supply:- 100 to 125 and 200 to 250 V, A C, 45 to 65 c/s Consumption:- 100 W Weight and dimensions:- (a) for rack mounting: Width                               19 in Depth                               18 in Height                               10 1/2 in Weight                               67 lb (b) in cabinet: Width                               20 1/2 in. Depth                               21 7/8 in Height                               12 in Weight                               97 lb	

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts lists (Code No )
Z1/ZA 54160	RECEPTION SET Eddystone 770R	<p>A general purpose V H F communication receiver for the reception of C W M C W and voice (A M or F M ) signals within the frequency range 19 to 165 Mc/s in six bands has facility for external HT/LT supply operation but no 600 ohm line output or external relay facility bench mounting</p> <p>Power supply: Single phase A C , 100 120 V or 200 250 V , 40 60 c/s Consumption: 90 watts Has facility for D C supply, 235 V , 125 mA and 6 3 V 5 BA</p> <p>Dimensions: Height 9 1/4 in Width 16 3/4 in Depth 15 in Weight 60 bs</p>	

Z1/ZA/U / 0 3

R106  
Nk 2

A high grade superheteodyne receiver with facilities for the reception of C W M C and R/I Signals Frequency band is changed by means of plug in crystal and coil units Used in conjunction with either supply units rectifier, No 5 (A C supply,) (Z2/ZB 0179) or supply units, vibratory No 2 (D C supply) (Z2/ZB 12860)

Frequency range:  
50 kc/s to 30 Mc/s  
I F 456 kc/s

Power  
Input (1) 100 to 250 V , A C  
Consumption: 40 W  
Input (2) 6 V D C  
Consumption 50 W  
Sensitivity Better than 1  $\mu$ V for 15 W output

Aerial system:  
Balanced or unbalanced feeder or a single wire aerial and is matched to a load of 500 ohms

Dimensions:  
Length 17 1/2 in  
Width 12 in.  
Height 9 in

Weight: 32 lb  
Total weight of receiver with nine coil sets in containers is 53 lb

10165

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident o Parts List (Code No
Z1/ZA 2793b	RECEPTION SET R109 1	<p>A self-contained superheterodyne receiver with facilities for R/I and C W reception Suitable for ground or vehicle stations but components and finishes suitable for tropical use</p> <p>Frequency range - 1.8 to 8.5 Mc/s I F 465 kc/s</p> <p>Power - Input: 6 V, D C Consumption: 1.3 W Sensitivity: <math>2 \mu V</math> for mV output Aerial system - any type may be used</p>	

Z1/ZA 32068

R206  
D F, No 1

Dimensions  
Length 14 3/4 in  
Width 11 1/2 in  
Height 2 1/2 in  
Weight - 43 lb

2699

Suitable for tropical working  
A high grade superheterodyne receiver with facilities for the reception of C W, M C W and AM/RT Signals  
Capable of high resetting accuracy and incorporates crystal filters  
Used with power supply unit No 15

Frequency range:  
2.2 to 10 Mc/s and 4.8 to 20 Mc/s

Power input:  
(a) 100-250 V 40 to 60 c/s A C  
Consumption: 50 W  
(b) 12 V D C  
Consumption: 50 W

Sensitivity:  
(a) R/I: 1.5 to 2.5  $\mu V$  for signal/noise ratio of 20 db

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No.)
	RECEPTION SET R206 D F , No 1 - continued	continued detail of Cat No Z1/ZA 32068  (b) C W better than 1 $\mu$ V for nominal pass band of 2.5 kc/s Aerial system:- Provision for any type Normally used with a rhombic aerial Dimensions:- Length 25 in Width 13 1/2 in Height 13 in Weight 100 lb Power supply unit No 15: Length 7 in Width 14 1/2 in Height 12 1/2 in Weight:- 43 lb	5343

Z1/ZA 33849

Mk 5

A. for D F No 1  
 Frequency range:- 300 kc/s to 4.8 Mc/s and 2.2 to 15.0 Mc/s

Z1/ZA 25433

R209  
Mk 1

Miniaturised, self contained superheterodyne receiver for reception of R/T (A M or F M) or C W signals. Housed with desiccator in hermetically sealed watertight case  
 Frequency range:-  
 1 to 20 Mc/s  
 I F 460 kc/s  
 Power:-  
 Input: 6 V, D C  
 Consumption - 1.7 A  
 Sensitivity -  
 A M 4 to 8  $\mu$ V for signal/noise ratio of 20 db  
 F M 2 to 4  $\mu$ V for 20 db quieting  
 Aerial system:  
 (1) 80 ohms input for coaxial line  
 (2) 1 000 ohms input for rod or single wire aeriels  
 Dimensions:  
 Length 12 1/8 in  
 Width 9 1/8 in  
 Height 8 1/2 in  
 Weight: 22 lb

2932

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident of Parts Lists (Code No)
Z1/ZA 41981	RECEPTION SET R209 - continued Mk 2	As for Mk 1 but receiver only AM/RT and C W signals Fitted with I F output for C F S working	
Z1/ZA 34683	R211	<p>A high grade receiver for long range reception consisting of two rack mounted bays Bay 1 may be used independently for triple diversity double sideband reception Bay 2 used with Bay provides for reception of twin channel single sideband signals</p> <p>Frequency range:- 1.5 to 30 Mc/s I F 1st 1.2 Mc/s 2nd 465 kc/s 3rd 100 kc/s</p> <p>Power: Input: 110 or 230 V , A C Consumption: Bay 1 450 W Bay 2 400 W</p>	

1/ZA 3468A

R212

Sensitivity 1.5 to 3.0  $\mu$ V for signal/noise ratio of 10 db  
Aerial system: Normally rhombic  
Dimension:  
Length 1 ft 10 1/2 in per bay  
Width 1 ft 7 in  
Height 7 ft 3 in  
Weight Bay 1 5 cwt  
Bay 2 6 cwt

6609

A high grade triple diversity twin channel receiver for long range S B reception with facilities for D B double diversity single receiver and 2 tone telegraph reception

Frequency range -  
4 to 25 Mc/s I F 1st I F } 1 Mc/s  
2nd I 100 Kc/s

Power -

Input 10250 A C , 40-60 c/s

Consumption 4 kW

Sensitivity: 1  $\mu$ V of sideband input for 1 mW output

Aerial system Rhombic

Dimensions -

Length 75 in

Width 22 in

Height 78 in

Weight:- 2 30 lb

## SECTION Z1

Cat. No.	Item name or designation	Item description or detail	Ident. or Parts Lists (Code No.)
Z1/ZA 54611	RECEPTION SET - continued R213	As Reception Set, Eddystone 770R, but with modified I.F. and A.F. component strips; and has 600 ohm line output, and external relay facility, but no external HT/LT supply facility R213 extensively modified for use by R.E.M.E in the testing of vehicle suppression	
Z1/ZA 54613	R213/2		
Z1/5820-99-103-6188	R216		Hermetically sealed V H.F. (A.M. and F.M.) R.T. receiver Frequency 20 to 150 Mc/s. Power supply A.C 100/250 V , D.C. 24 V., regulated between 21/32 V.

Z1/ZA 37902	R220/R 220 Mk. 1	Two cry tal controlled V.H.F double superheterodyne receivers with built-in power supply unit Frequency range:- 60 to 100 Mc/s I.F 4.86 Mc/s. Power - Input:- 230 250 V., A C Consumption: 140 W. Sensitivity - 2 $\mu$ V for 50 mW. output Aeria system: Dipole or Yagi array Dimensions - Length 18.1/2 in Width 12 1/2 in Height 12.1/2 in Weight:- 70 lb.	10070
Z1/ZA 38354	Mk. 2	As for Mk 1 version but with restricted frequency range and facilities to select output of either receiver Frequency range - 70 to 95 Mc/s	10121

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/ZA 39648	RECEPTION SET continued R220 Mk 2/1	As for R220/R 220 Mk 2 but single set housed in modified case Complete with distribution units power No 1 Mk 1/1 (Z1/ZA 38465)	
E1/ZA 39746	R222	See Wireless Set C41	
Z1/ZA 14780	R308	A self contained high grade communication receiver for the reception of A M F M or C W signals Employs a double superheterodyne Frequency ranges: 20 to 140 Mc/s I F 1st I F 92 Mc/s 2nd I F 21 Mc/s	

Z /5905 99 05 5232 RESISTOR VARIABLE  
Z1/5820 99 949-4976 SELECTOR AERIAL  
Plessey type PV 13B

Power  
Input (1) 100  $\pm$  50 V A C  
Consumption 55 W  
Input (2) 2 V D C  
Consumption 50 W  
Sensitivity:  
F 2 to 5  $\mu$  for db quieting  
A 1.3 V for 20 db signal/noise ratio  
Aerial system  
(1) Dipole to match frequency in use  
(2) Fishing rod aerial  
Dimensions  
Length 24 3/4 in  
Width 16 1/2 in  
Height 6 1/2 in  
Weight 112 lb

Wire wound; 250 ohms,  $\pm$  5%; 2W; linear

Manually operated rack mounting for use in conjunction with PV 136, PV 137 and PV 139/1  
Dimensions:  
Length 1 ft 7 in  
Height 1 3/4 in  
Depth 3 3/4 in  
Weight: 2 1/2 lb

243



## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/5820-99-949-3503	SIGNALLING UNIT A T & E Type RLX 24	Designed to enable a mobile radio system to be linked to a telephone network. The unit is intended for connection to a central battery or automatic exchange and will only answer calls from the exchange to the mobile radio unit. Where no telephone exchange is involved, voice operated signalling can be used, the line circuit being connected to a Control, radio set Z1/5820 99 949 3501. The unit, housed in a metal case operates from an A C supply 110 V, 220 V or 240 V through a voltage selector link. Dimensions (Approx): Length 18 1/2 in Depth 7 1/2 in Height 5 1/4 in	
Z1/5935-99-945-4104	SOCKET, Electrical	Mk 4, brass; fixed, female shell; size 3/2; 4 poles; DEF 5321	
Z1/4030-99 102 1383	STAKE, GUY	Steel angle; 1/4 in x 2 in x 2 in, 3 ft long 2 securing rings Used with Mast 36 ft, steel, lightweight, D F No 1 Truck Radio R type A Mk 3 1 ton 4x4 Austin	

OF	STATION, Radio C 41 Mk 1/1	As Wireless set C 41 but fitted with miniature Mk V plugs and sockets in lieu of Mk V's Comprises - Transmitter radio, C 41, Mk 1/1 (Z1/5820 99 949-3065) Receiver, radio R222 Mk 1/1 (Z1/5820-99 949 3066) Power supply, rectifier No 22, Mk 1/1 and dummy load (Z1/5820-99-949 3067) Power supply, rectifier No 23, Mk 1/1 and engineering channel amplifier	
Z1/5940 99 946 2952	TERMINAL IUG 7 SAG conductor 2 BA 0 72 in lg, 0 281 in w 0 028 in thk	Copper; electro tinned; solderless connection	
Z1/5940 99 946 274F	4 BA 0 72 in lg, 0 28 in w 0 14 in h	Copper; electro tinned, solderless connection	
Z1/ZA 46961	SUPPLY UNIT Vibratory, No 12 12 V input	As for Z1/5820-99-949-1086, but input 12 V	2570
Z1/ZA 32373	TRAINING SET Universal Wireless Mk. 1	A portable equipment for training personnel in manual Morse reading and sending and in R/T communication procedure. Facilities are provided for the introduction of interfering signals, mush and fading. Frequency range: Audio oscillator 500 to 1,500 c/s	

SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
	TRAINING SET Universal Wireless No. 1 Mk 1 - continued	continued detail of Cat No Z1/ZA 32373  <i>Power:</i> Inputs 100-250 V. A C Consumption 40 W 12 V., D C <i>Dimensions:-</i> Length 18 in Width 11 in Height 13 in. Weight 48 lb	
Z1/YA 8316	Mk 2	As for Mk 1, but incorporates type approved components and slight circuit modifications	5601
Z1/5820 99-911-0849	TRANSMITTER RADIO C11	Medium power A C /D C , F F /A M and C W transmitter for ground and vehicle use, also F S working Employs separate power and aerial coupling units Used with receiver, radio R210	5601

Frequency range				
Three bands 2 to 4 4 to 8 8 to 16 Mc/s				
Power and consumption:- R/T Low power Stand by				
Supply unit, rotary 20A 17A 2 9A				
24 V D C				
(Cat No Z1/5820 99 949 3146)				
Supply unit rectifier 100 240 V A C , )				
No 30 (Cat No Z1/ZA 56969) ) 500 V A				
Aerial systems:				
1 Vertical rod				
2 VEE				
3 End fed wire				
4 Mast telescopic 27 ft (Cat No Z1/ZA 55459)				
5 Dipole				
Aerial tuning unit No 7 (Cat No Z1/5820				
99 949-3147) is provided for use with all				
aerials except the dipole				
Dimensions and weight:				
	Sender	Supply Unit	Supply Unit	Aerial Tuning Unit No 7
		Trans Rotary	Rectifier No 30	
Length:	14 in	14 in	14 in	14 in
Breadth:	14 in	8 in	14 in	8 in
Height	8 1/2 in	8 1/2 in	8 1/2 in	6 in
Weight:	58 lb	38 lb	60 lb	16 lb

12628

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/5820-99-949 3065	TRANSMITTER, RADIO - continued C41 Mk 1/1	See Station radio, C41 Mk 1/1	
Z1/5820 99 104-4305	C50	F M crystal controlled, continuously tuned multiplier circuit Frequency range 225 400 Mc/s Power output 10 watts Output impedance 50 ohms Power input 100/250 V A C 50/60 c/s Dimensions: Length 21 in Breadth 13 in Height 14 in Weight 75 lb	
Z1/5820-99-106-1379	H M G C C Type 214 E/F		
Z /ZA 15513	Marconi SWB8E	3.5 kW long distance communication transmitter continuous wave on frequencies 3 to 22.2 Mc/s Dipole aerial output impedance 600 ohms Range approx 1 500 miles Power supply: 400 V 3 phase 50 c/s Power consumption: 10 kW Dimensions:- Height 6 ft 6 in Width 3 ft Weight: 4 ton Has facilities for remote keying	
Z /5820 99 949 1417	Type HS51	A multi-channel V F T Transmitter providing single sideband double side band c w on/off, F S facsimile facilities Ground station for long distance point to point use Frequency range: 4 to 27.5 Mc/s continuous tuning and six pre-set frequencies Power output: I S B 30 kW (P to P) C W and F S, 20 kW D S B 7-1/2 kW Power consumption: C W, mark 60 kW space 0 kW F S 60 kW I S B 52 kW Power supply: 380 to 415 V ( 5 to 15%) 50 c/s 3 phase A C Dimensions: Length 4 ft 4 in Width 20 ft Height 7 ft 6 in	13172

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/5820-99-949-6353	TRANSMITTER-RECEIVER, RADIO A13		
Z1/5820-99 106 0365	A14	B C C ; 30 HP	
1/5820-99 106-2486	A16		
Z1 5820 99-911 0847	A40	<p>A lightweight, sub-miniature manpack portable F M /R T transceiver complete with self contained dry battery Crystal controlled on six alternative channels around 50 Mc/s</p> <p>Frequency range:- R F six selected channels in band 47 to 55.4 Mc/s I F , 4.3 Mc/s</p> <p>Power: Dry battery: 1.25/90 V Bias: 2.5 V</p> <p>Consumption: Receive: 1.25 V at 550 mA Send: 1.25 V at 900 mA</p>	

Z1/5820 99 949-0295	A41	<p>Aerial system:</p> <ol style="list-style-type: none"> <li>(1) 4 ft vertical rod</li> <li>(2) 4 ft wire</li> <li>(3) 4 ft vertical rod with earthed counterpoise wire</li> <li>(4) A remote half wave aerial including matching unit</li> <li>(5) A portable homing loop</li> </ol> <p>Dimensions and weight (including battery):  Length 5 1/4 in  Breadth 3 1/2 in  Height 11 in  Weight: 10 lb  (Old Cat No Z1/ZA 46276)</p>	11909
Z1/5820 99 949-0295	A41	<p>V H F F M R/T Battery operated transceiver for infantry manpack use between H Q and companies</p> <p>Frequency range: 38.55 Mc/s I F 4.3 Mc/s <math>\pm</math> 2.5 kc/s</p> <p>Power consumption: H I 1.35 V at 60 mA ) 67 V at 15 mA ) send only 67 V at 25 mA (receive only) L T 6 V at 0.4 A (send only) 1.5 V at 0.6 A (send and receive)</p>	

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/5820-99-949 4820	TRANSMITTER RECEIVER, RADIO A41 continued  No 2	continued detail of Cat No Z1/5820-99 949-0295  Aerial systems: 4 or 10 ft vertical rod Dimensions:- Length                   9 3/4 in Breadth                 2 15/16 in Height                  17 1/8 in Weight:     10 1/2 lb (set) 7 1/2 lb (battery)  As for Transmitter Receiver Radio A41, except a muting circuit has been incorporated improved calibration facilities improved tuning scale and provision of magnifying lens Different audio sockets and improved headgear	
Z1/5820 99 949 1359	A43R Mk 2	Lightweight transistorised battery operated 2 W For use as a man pack or static station Facilities for amplitude modulated telephony on single or double frequency simplex Frequency range:- 240 to 300 Mc/s 6 channels Power: 2 V D C Consumption: Receiver condition: 2.6 W Transmitter condition: Telephony 32 W C W 30 W M C W 39 W Sensitivity: 5 $\mu$ V modulated to 30% at 400 c/s, signal/noise ratio of better than 10 db Aerial systems (1) Whip, tape steel (man pack use) (2) Skeleton discone (fixed station use) Dimensions: Length                   5 1/4 in Breadth                  9 in Height                   13 in Weight:     14 1/2 lb	13596

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/5820-99 911-0893	TRANSMITTER RECEIVER, RADIO continued B47 Input 12 V	As for Z1/5820-99-911-0848 but input 12 V , D C , and consumption 5A (Old Cat No Z1/ZA 46979)	2496
Z1/5820-99-911-0648	Input 24 V	A pan climatic V H F F M transceiver single superheterodyne For short range voice communication Complete with built in self rectifying vibrator Frequency range:- 36 to 56 Mc/s 181 channels spaced at 100 kc/s Power: 24 V , D C Consumption: 2 5A Aerial system: 8 ft rod Dimensions:- Length 10 in Width 14 1/4 in Height 5 in Weight:- 26 lb	
Z1/5820-99-949 1251	B70	A duplex F M /R T tran ceiver operated from either D C or A C usi g separate power units Hermetically sealed suitable for manpack, animal vehicle or parachute station Mounted on a tripod which also carries parabolic mirrors reflectors and dipoles Frequency rang : 4 550 to 4,830 Mc/s (6 6 to 6 2 CMS) Power: 24 V D or 100-250 V , A C Consumption: D C P S U , operated from 24 V battery 5A A C P S U nput 100 to 250 V 45 to 65 c/s 0 5A at 230 V Aerial system Dipoles and reflectors working into 16 in parabolic mirrors Dimensions: Length 17 in Width 5 in Height 11 in Weight: Wire ess set 25 lb Aerial tripod etc 20 lb	
Z1/5820-99-106-3334	B70 No 2		

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/5820-99-949-0418	TRANSMITTER-RECEIVER, Radio - continued Burndep't B E 201	Air to ground R/T crystal controlled, sender receiver Frequency ranges- 100-156 Mc/s 1 F 9 72 Mc/s Power: Input: 12 V D C Consumption: Send 12 5A Receive, 6A Output: 4 5 W into 80 ohms Sensitivity: $\mu$ V for 1 mV, output Aerial system: Half wave dipole Dimensions:- W/S BE 201 Length 17 in Width 13 1/2 in Height 7 1/2 in Weight: 29 1/2 lb	
Z1/5820-99-106 2088 Z1/5820 99 949 0505	B C C 30 P/LP 013	Z1/2A 38165 Power Supply Unit No 42 Length 9 in Width 13 in Height 7 1/2 in Weight: 23 lb	
		I F A M P M R I / C W transceiver for use in vehicles or as a ground stati n Frequency ranges: 3 bands, 1 5 to 3, 3 to 6 6 to 12 Mc/s 1st I F to 3 Mc/s 2nd I F, 500 kc/s Power consumption:- Receivers: 150 V at 70 mA Stand by/channel adjustment 150 V at 65 mA traffic and inter comm Transmitters: 600 V at 70 mA C W R I A M, Phase Modulation, High Power 300 V at 10 mA C W R I, A M Phase Modulation Low Power L I 19 V at 950 mA Aerial systems: 1 Vertical Rod Telescopic Rod 3 Horizontal end fed Aerial wiring Unit Z1/5820-99-949 0507 is provided for use with all 3 systems Dimensions: 8 1/2 n x 14 in x 14 in Weight: 40 lb	13086

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/5820 99 949 9932	TRANSMITTER RECEIVER RADIO C13 - continued Mk 2	As for Transmitter receiver radio C13 Z1/5820-99 949-0505 but wired only for 24 V supply	
Z1/5820-99-943 9362	C42	A general purpose pan-climatic transceiver for C W/R T (F M or A M Used in manpack and ve icle/animal stations Hermetically sealed Separate powe supply units Frequency range: R F , 36 to 60 Mc/s I F , 6 Mc/s and 2 4 Mc/s Power: 12 or 24 V D C Consumption: Min 1 8 A to 9 0 A max Aerial system: (a 8 ft vertical rod or (b 5 ft vertica rod with three counterpoise earth rods mounted on 30 ft mast Dimensions: Length 14 in Width 14 1/4 in Height 8 1/2 in Weight:- 45 lb	12506
Z1/5820 99 102 8855	No 1 Mk 2	As for Transmitter Receiver Radio C42 except that facilities for high deviation (125 kc/s) are provided	
Z1/5820-99-949-2153	No 2	As for Transmitter-receiver, radio C42 except crystal check points at every 50 kc/s providing 481 channels	
Z1/5820-99-949-5151	No 3		
Z1/5820 99-943-9363	C45	F M /V H F , transceiver primarily intended for vehicles in forward areas Normally operated on R/T , but capable of operation in conjunction with telegraph equipment Separate power supply units (Cat No Z1/ZA 46961 or Z1/5820-99-949-1086 respectively) Frequency range:- 23 to 38 Mc/s P wer:- 12 or 24 V , D C Consumption:- 1 8 A min to 9 0 A Max Aerial system:- 8 ft rod mounted on a vehicle, used in conjunction with aerial tuning unit No 9 (Cat No Z1/ZA 47680) Dimensions:- Length 14 in Width 14 1/4 in Height 8 1/2 in Weight: 45 lb	3608
Z1/5820 99 102 8856	No 1 Mk 2	As for Transmitter Receiver Radio C45 except that facilities for high deviation (125 kc/s) are provided	



## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/5820-99-949-5476	TRANSMITTER RECEIVER, RADIO C45 - continued No 2	As for Transmitter-receiver radio C45, but operating on frequencies which are multiples of 50 kc/s instead of the 100 kc/s of T/R C45	
Z1/5820-99 104 1680	No 31; IT/B 98238	Used on Wireless Stations No 31, Manpack	
Z1/5820-99 911 0844	No 62 Mk 2	As for Wireless set, No 62 Mk 1 (Cat No Z1/ZA 26554), but modified to permit dropping by parachute	
Z1/ZA 55146	No 123	A small compact superheterodyne portable transmitter-receiver 3 wave band Suitable for C W, M C W and telephony signals Mains supply from A C only In addition to the self contained power supply an external unit is available to operate the equipment from a 12 V accumulator A hand generator may also be used	

Z1/5820-99-106-3395	Pye Telecommunications, Ltd part No. AT04517/3E	<p>Frequency: 2.5 Mc/s to 20 Mc/s (150 metres to 15 metres)</p> <p>Power: Input: 100 to 250 V, A C, 40-25 c/s Output: 15 to 30 W</p> <p>Aerial system: Standard aerial wire 50 wound on hand wheel and 100 wound on plastic card</p> <p>Dimensions:- Length 11 3/8 in Height 3 3/8 in Width 5 3/8 in Weight:- 7 lb 12 oz</p>	Used with main Equipment, MOD (Army)
Z1/5895-99-900-1163	TRANSPONDER SET M347	A complete electronic set designed to work to an Airborne Rebecca type equipment The M347 when interrogated, translates signals which can be used to determine both bearing and range, these signals can be coded if required	
Z1/5820-99-949-0507	TUNER, RADIO FREQUENCY No 11	<p>Inductive aerial tuning unit used for matching transmitter receiver radio C13 to its aerial system Tuning is effected by 6 ganged iron dust cored inductances Tuning and coil selection is performed by one knob, an aerial current measuring device is incorporated</p> <p>Frequency range:- 6 bands 1.5 to 12 Mc/s</p>	

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/ZA 37909	TUNER, RADIO FREQUENCY No. 11 - continued  WIRELESS SENDER C44 Mk 1	continued detail of Cat No Z1/5820-99-949-0507  Output impedance: 70 ohms o/a dim:- 5 in. dia. x 12 1/4 in x 5 1/2 in. height Weight:- 10 lb Case:- Fabricated alloy, water-tight  A self contained, rack mounted, crystal controlled, V H F sender operating on one pre-set frequency, automatic modulation control provided Frequency range:- Edition A: One pre set frequency within the band 78 to 100 Mc/s Edition B: One pre-set frequency within the band 60 to 78 Mc/s	
Z1/ZA 38352 Z1/ZA 35296	Mk 2 E10	Power:- Input 00/250 V A C Consumption 550 V A Output: 50 W into 75 ohms Aerial system:- Half wave dipole or yagi array fed by concentric low loss feeders Dimensions:- Length 24 in Width 24 1/2 in Height 47 in Weight: 400 lb As for Mk 1 but with frequency range as shown below and facilities for remote control A high power transmitter for world wide communication Facilities provided for single or double sideband, frequency shift or on/off keyed C W working. The low and high power stages have separate power supplies and are air cooled Frequency range:- High power: S S B 4 to 22.2 Mc/s C W 3 to 22.2 Mc/s Low Power: S S B 4 to 25.6 Mc/s C W 4 to 25.6 Mc/s.	10072 10120



## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/ZA 39282	WIRELESS SENDER - continued Marconi S W B 8 E C F S	A high power C W transmitter adapted for C F S working Frequency range:- 3 to 22.2 Mc/s Power:- Input:- 400 V A C 3-phase 4 wire Consumption 10 kW Output: 3.5 kW Aerial system:- Dipole with 80 ohm concentric line or 600 ohm balanced feeder Dimensions:- Length 3 ft 0 in Width 2 ft 0 in Height 6 ft 0 in Weight:- 12 cwt	3027
Z1/ZA 30416	S W B 8W	As for S W B 8E but design standardized for a l t ee services and uses rect f er and control units S W B 8 W ZA 3045	3027
Z1/ZA 14650	S W B 11 E Major	A high power short wave sender consisting of the transmitter rectifier and control unit Equipment is air cooled by external blower Frequency range:- 3 to 22.2 M/s Power Input 400 V A C 3 phase 4 wire Consumption 26 kW Output 10 kW Aerial system Rhombic with 600 ohm twin wire feeder Dimensions Transmitter unit ZA 14650 Length 5 ft 3 in Width 2 ft 11 in Height 6 ft 3 in Weight 18 cwt Rectifier and control unit ZA 14652) Length 3 ft 6 in Width 4 ft 0 in Height 3 in Weight 25 cwt	3027
Z1/ZA 34431	C F S	Standard S W B 11 E with the addition of matching units No 2 (ZA 33873 and used in conjunction with keying units C F S , No 2 ZA 33600 which permits sender to be keyed by telegraph signals received from line	6652

Z1/ZA 30416

S W B. 8W

As for S W B 8E but design standardized for all three services and uses rectifier and control units, S W B 8 W ZA 30415

3027

Z1/ZA 14650

S.W B. 11 E. Major

A high power short wave sender consisting of the transmitter rectifier and control unit. Equipment is air cooled by external blower

Frequency range:- 3 to 22.2 Mc/s

Power:-

Input - 400 V A C , 3 phase 4 wire)

Consumption - 26 kW

Output - 10 kW

Aerial system:- Rhombic with 600 ohm twin wire feeder

Dimensions:-

Transmitter unit (ZA 14650)

Length 5 ft 3 in

Width 2 ft 11 in

Height 6 ft 3 in

Weight - 18 cwt

Rectifier and control unit (ZA 14652)

Length 3 ft 6 in

Width 4 ft 0 in

Height 3 in

Weight:- 25 cwt

Standard S W B 11 E with the addition of matching unit, No 2, (ZA 33673) and used in conjunction with keying units, C F S, No 2 ZA 33600 which permits sender to be keyed by telegraph signals received from line

6652

Z1/ZA 34431

C F.B

Dimensions:-

Sender: As for unmodified S.W.B 11.E

Drive unit:

Length 1 ft. 9 in.

Width 1 ft 9 in

Height 6 ft. 9 in.

Weight:- 566 lb.

Modulator unit:

Length 1 ft. 9 in.

Width 1 ft 6 in

Height 6 ft. 0 in.

Weight:- 280 lb.

Monitor unit:

Length 1 ft. 9 in.

Width 1 ft 9 in.

Height 6 ft. 6 in.

Weight:- 270 lb.

6652

S 12  
No. 1

Z1/ZA 3244

Low power sender with facilities for C.W., M.C.W. and R/I working.

May be used as a ground or vehicle station.

Remote aerial working available up to 300 ft.

using aerial unit F, remote control of

sender using wireless remote control unit, C,

and teleprinter service using apparatus,

telegraph, 2-tone

Frequency ranges:- 1.2 to 17.5 Mc/s.

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
	WIRELESS SENDER S 12 Mk. 1 - continued	continued detail of Cat No Z1/ZA 3244  <i>Power:-</i> Input: 100 250 V A C Consumption:- 225 W Output: C W 25 W. B T 6.0 W  <i>Aerial systems</i> (1) Dipole fed by 100 ohm unbalanced feeder (2) End fed horizontal wire (3) Wyndom (4) Vertical rod	

S 36 Mk 1	<i>Dimensions:</i> Length 24 in Width 17 1/2 in. Height 12 1/2 in Weight 134 lb  A low power sender with facilities for R/T, C W and M C W working. Consists of an RF unit (Z1/ZA 10064) and a power supply and modulator unit (Z1/ZA 10067). Housed in two wooden cases. Frequency range 10 to 60 Mc/s Power: Input 100/10 or 200/250 V A C Consumption: 350 W Output 25 W Aerial system: Coaxial 80-100 ohm feeder and centre fed dipole Dimensions:- RF unit: Length 24 7/8 in Width 16 1/4 in Height 16 1/2 in Weight 90 lb Power supply unit: Length 24 1/8 in Width 16 1/4 in Height 14 7/8 in Weight: 130 lb
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## SECTION Z

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/ZA 22750	WIRELESS SENDER S 36 - continued Mk 1/1  S 53 Mk 1	As for Mk 1 but frequency range is 10 to 40 Mc/s  A medium power transmitter with facilities for C W M C W , and A M /R T transmissions. The sender consists of Amplifiers R F , No 4 (Z1/ZA 26588) Aerial coupling units No 2A (ZA 28893) Modulator units, No 27 (ZA 22878) Power supply units No 26, Mk 1 (ZA 22881) Units master oscillator No 2 Mk 1 (ZA 28895) These units are normally rack mounted but may be separated for installations in vehicles; provision is made for remote control Frequency ranges: 1.2 to 17.5 Mc/s Power:- Input 210/230 V 50 to 500 c/s	155
Z1/ZA 28898	Mk 1/1	Consumption 1.8 kw 12 V D C Consumption: 4A Aerial system (1) Rod up to 34 ft (2) 16 ft twin rod (V) (3) End fed horizontal wire (4) Dipole Dimensions Length 2 ft 2 1/2 in Width 2 ft 3 in Height 4 ft 9 1/2 in Weight 600 lb	5589
Z1/ZA 18974	S 76 Mk 1	As for Mk 1 units but is suitable for use under pan climatic conditions. The sender consists of: Amplifiers R F No 4 Mk 1/1 (ZA 28894) Aerial coupling units No 2A Mk 1/1 (ZA 28893) Modulator units No 27 Mk 1/1 (ZA 28896) Power supply units No 26 Mk 1/1 (Z1/ZA 28897) Units master oscillator No 2 Mk 1/1 (Z1/ZA 28895)  A small crystal controlled C W only transmitter designed for working over comparatively long distances. Six crystals channels are available, the desired channel being selected by means of a switch. The set is housed in a steel case.	5589

## SECTION Z

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
	WIRELESS SENDER S 76 Mk 1 - continued	continued detail of Cat No Z1/ZA 18974  Frequency range:- 2 to 12 Mc/s Power:- Input (1) 230 V 50 c/s A C Consumption: 80 V A Input (2) 12 V D C Sender output 9 W Aerial system - 110 ft open wire Dimensions: Length 12 1/4 in Width 12 in Height 8 1/4 in Weight 30 lb	6928
/ZA 29073	Mk 1/1	As for Mk but with metal parts and components suitable for tropical use	6928
Z1/ZA 38757	WIRELESS SFT B 44 Mk. 3	A weat erproof man portable V H F /A M crystal controlled transceiver For R/T communication within a light A A regiment Built in power supply unit powered by lead acid accumulators Frequency range:- 60 to 95 Mc/s Power: 12 V supplied by two 6 V 4 Ah secondary batteries Consumption:- 2.7 to 4 B amp Aerial system Ha f wave end fed rod aerial or h f wave vertical dipole Dimensions: Length 14 3/8 in Width 12 3/8 in Height 7 in Weight: 31 lb	10654
Z1/ZA 43050	C 12	A low power mobile high frequency transceiver with separate tuning unit (Cat No Z1/ZA 43051) and 12 and 24 V D C P S , units Interim replacement for A" set of wireless sets, No 19	



## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No																																
	WIRELESS SET C 12 - continued	<p>continued detail of Cat No Z1/ZA 43050</p> <p>Frequency ranges- 1 6 to 10 Mc/s in two ranges</p> <p>Power and consumption:</p> <table border="0"> <tr> <td></td> <td>Receive</td> <td>Send</td> </tr> <tr> <td>Supply unit rotary 12 V (Cat No Z1/ZA 43063)</td> <td>86 W</td> <td>190 W</td> </tr> <tr> <td></td> <td>Receive</td> <td>Send</td> </tr> <tr> <td>Supply unit rotary 24 V (Cat No Z1/ZA 43064)</td> <td>120 W</td> <td>205 W</td> </tr> </table> <p>Aerial system: Rod and end fed wire aerial</p> <p>Dimensions and weight:</p> <table border="0"> <thead> <tr> <th></th> <th>Transceiver</th> <th>Power supply unit</th> <th>Aerial tuning unit</th> </tr> </thead> <tbody> <tr> <td>Length</td> <td>17 1/2 in</td> <td>6 1/8 in</td> <td>5 1/4 in</td> </tr> <tr> <td>Width</td> <td>12 3/8 in.</td> <td>11 1/2 in</td> <td>13 in</td> </tr> <tr> <td>Height</td> <td>8 1/4 in</td> <td>8 3/8 in</td> <td>8 1/4 in</td> </tr> <tr> <td>Weight:</td> <td>35 lb</td> <td>25 lb</td> <td>10 lb</td> </tr> </tbody> </table>		Receive	Send	Supply unit rotary 12 V (Cat No Z1/ZA 43063)	86 W	190 W		Receive	Send	Supply unit rotary 24 V (Cat No Z1/ZA 43064)	120 W	205 W		Transceiver	Power supply unit	Aerial tuning unit	Length	17 1/2 in	6 1/8 in	5 1/4 in	Width	12 3/8 in.	11 1/2 in	13 in	Height	8 1/4 in	8 3/8 in	8 1/4 in	Weight:	35 lb	25 lb	10 lb	12569
	Receive	Send																																	
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Height	8 1/4 in	8 3/8 in	8 1/4 in																																
Weight:	35 lb	25 lb	10 lb																																

C 41	<p>A broad V H F radio relay equipment which will provide communication over visual distances, up to 30 miles and over non visual distances, with the aid of relay stations. Twelve duplex voice channels can be handled with suitable carrier equipment.</p> <p>Comprises:</p> <p>Z1/ZA 39747 Wireless Sender, C 41  Z1/ZA 39746 Reception Set, R 222  Z1/ZA 39744 Supply Unit Rectifier No 22 and dummy aerial  Z1/ZA 39745 Supply Unit Rectifier No 23 and Engineering Channel Amplifier</p> <p>Frequency range:  50 to 100 Mc/s (Sender in 3 bands)  50 to 100 Mc/s (Receiver in 1 band)</p> <p>Power:-  A C Mains 100 to 250, 45 to 60 c/s or 3 k V A generator  Consumption: Sender 500 W, Receiver 200 W</p> <p>Aerial system:-  3 element Yagi mounted on a 36 ft steel mast</p> <p>Dimensions:-</p> <table border="0"> <thead> <tr> <th></th> <th>Sender</th> <th>Receiver</th> <th>S U R. No 22</th> <th>S U R. No 23</th> </tr> </thead> <tbody> <tr> <td>Length</td> <td>22 in</td> <td>22 in</td> <td>22 in</td> <td>22 in.</td> </tr> <tr> <td>Width</td> <td>15 in</td> <td>15 in</td> <td>15 in</td> <td>15 in.</td> </tr> <tr> <td>Height</td> <td>16 in</td> <td>16 in</td> <td>16 in</td> <td>16 in</td> </tr> <tr> <td>Weight</td> <td>73 lb</td> <td>78 lb</td> <td>85 lb</td> <td>84 lb</td> </tr> </tbody> </table>		Sender	Receiver	S U R. No 22	S U R. No 23	Length	22 in	22 in	22 in	22 in.	Width	15 in	15 in	15 in	15 in.	Height	16 in	16 in	16 in	16 in	Weight	73 lb	78 lb	85 lb	84 lb	12571
	Sender	Receiver	S U R. No 22	S U R. No 23																							
Length	22 in	22 in	22 in	22 in.																							
Width	15 in	15 in	15 in	15 in.																							
Height	16 in	16 in	16 in	16 in																							
Weight	73 lb	78 lb	85 lb	84 lb																							

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/ZA 10479	WIRELESS SET - continued No 19 MK 3	<p>An "A" vehicle communication set with provision for use as a ground station. The set consists of a sender-receiver with facilities for C W , M C W and A M /R T communication, an U H F transceiver and an intercommunication amplifier. Provision is made for remote control.</p> <p>Frequency range:  A" set: 2 i to 8 Mc/s  I F 465 kc/s  "B set: 229 to 241 Mc/s</p> <p>Power:  Input:  L T 12 V D C with facilities for 12-0-12 V supply from a 24 V installation  H T 12 V D C to rotary transformer</p>	

Consumption: 7 0 to 11 4A

Output:  
A set 12 W  
B set 3 W

Sensitivity:  
A receiver 12  $\mu$ V for 50 mW and signal/noise ratio of 20 db

Aerial systems:-  
"A set uses 8-12 ft rods. If greater range is required a horizontal wire may be used  
"B set: Half-wave rod aerial

Dimensions:-  
No 19 set:  
Length 17 in  
Width 12 1/2 in  
Height 8 in  
Weight: 40 lb

Power supply unit:  
Length 6 in  
Width 12 1/2 in  
Height 8 in  
Weight: 25 lb

Aerial variometer:  
Length 10 in  
Width ) Cylinder  
Height ) 5 in dia  
Weight:- 5 lb

Includes a manual R F control, a modified heterodyne control and improved components

6963

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )																	
Z1/ZA 25337	WIRELESS SET No 19 - continued Mk 3/1	As for Mk 3 but with all components suitable for tropical use	2882																	
Z1/ZA 44765	No 31 Mk 2	A V H F , short range manpack R/T transceiver providing a single frequency simplex link using F /M Used for communication between infantry units Separate dry H T /L T battery	11819																	
		<p>Frequency range:- 40 to 48 Mc/s (range 3 to 5 miles)</p> <p>Power and consumption:</p> <table data-bbox="727 1234 1294 1335"> <tr> <td></td> <td>Receive</td> <td>Send</td> <td></td> </tr> <tr> <td>150 V battery:</td> <td>H T 28 mA</td> <td>H T 62 mA</td> <td rowspan="2">} Max</td> </tr> <tr> <td>4 5 V battery:</td> <td>L T 250 mA</td> <td>L T 450 mA</td> </tr> </table> <p>Aerial system: 5 ft 4 in rod</p> <p>Dimensions:</p> <table data-bbox="727 1391 1118 1469"> <tr> <td>Length</td> <td>12 in.</td> </tr> <tr> <td>Width</td> <td>6 1/4 in</td> </tr> <tr> <td>Height</td> <td>17 1/2 in</td> </tr> </table> <p>Weight:- 27 3/4 lb</p>		Receive	Send		150 V battery:	H T 28 mA	H T 62 mA	} Max	4 5 V battery:	L T 250 mA	L T 450 mA	Length	12 in.	Width	6 1/4 in	Height	17 1/2 in	
	Receive	Send																		
150 V battery:	H T 28 mA	H T 62 mA	} Max																	
4 5 V battery:	L T 250 mA	L T 450 mA																		
Length	12 in.																			
Width	6 1/4 in																			
Height	17 1/2 in																			

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/ZA 39058	WIRELESS SET No 31 - continued A F V	As for wireless set No 31, Mk 1, but with minor modifications for working in armoured fighting vehicles. Supplied complete with separate power supply unit and L F amplifier which enables the Set to be worked from either 12 or 24 volt batteries and which provides additional A F amplification, necessary for working in armoured fighting vehicles.	10259
Z1/ZA 26348	No 38 Mk 3	A light weight, short range tropicalised A M /R T transceiver built into a hermetically sealed die-cast case. Facilities for checking and correcting dial calibration against crystal calibrator. Batteries are carried separately. Frequency range 7.4 to 9.0 Mc/s I F 285 kc/s Power: 150/3 V dry battery Consumption: Sender H T 16 mA Sender L T 0.5 A	
Z1/ZA 21576	A F V	Receiver H T 9 mA Receiver L T 0.3 A Sender output 500 mW Sensitivity: 15 $\mu$ V input for 0.5 mW output Aerial system - (1) 4 ft rod (2) 8 ft rod (3) 45 ft ground aerial Dimensions Length 7 in Width 6 1/4 in Height 10 3/4 in Weight:- 21 lb As for Mk 3 but modified to permit operation from a 12 V battery supply using power supply and L F amplifier unit No 1 and control by No 19 set harness Frequency range: 7.3 to 9.0 Mc/s I F 285 kc/s Power:- 12 V D C Consumption: 1.2 A Sender output: 0.2 W Sensitivity: 34 $\mu$ V for 50 mW output Aerial system:- Antenna rods F, 4 to 12 ft long Dimensions:- Length 6 1/2 in Width 10 1/2 in Height 4 in Weight: 6 1/2 lb	1632

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No
Z1/ZA 26554	WIRELESS SET No 38 A F V continued          No 62 Mk 1	continued detail of Cat No Z1/ZA 21576  P S U and L F Unit Length 6 1/4 in Width 11 1/4 in Height 4 1/4 in Weight 8 lb Control Unit No 16 and Control Unit No 17 Length 6 5/8 in Width 3 1/4 in Height 5 7/8 in Weight (Unit No 16, 2 lb 12 1/2 oz (Unit No 17, 2 lb 11 oz  <i>A low-power transceiver with facilities for            A M / R T and C W working            The set and a twelve volt rotar transformer            are housed in a steel case            Facilities are provided for remote control up            to 1/2 mile and remote aerial working up to            50 ft</i>	2810

Z1/ZA 53347	Mk 4	<i>Frequency coverage            1.6 to 10 Mc/s            I P 460 kc/s            Power:            Input 2 V D C            Consumption: 3 to 5A            Sender output 5 W            Sensitivity: 3 μV for 10 mV and signal            noise ratio of 0 db            Aerial system: 14 ft rod            Dimensions            Length 17 1/2 in            width 13 1/2 in            Height 8 1/2 in            Weight: 29 lb</i>	5617
Z1/ZA 53372	Mk 5	As for T R X No 62 Mk 2 (Cat No Z1/5820-99-9 -0844) but modified to permit R A F microphone Type 59 to be used more effectively Used on Auster aircraft and Skeeter Mk 12 helicopters	

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
Z1/ZA 53566	WIRELESS SET No 62 - continued Mk 6	As for I R X No 62, Mk 2 (Cat No Z1/5820-99 911-0844) but modified for dry battery working when used in airborne operations	
Z1/ZA 24580	No 68 Mk 1/1	A tropicalized short range manpack sender/receiver for R/T, and C W working Frequency range:- 3 to 5.2 Mc/s I F 465 kc/s Power:- 162/3 V, D C (dry batteries) Consumption: H T 17 to 21 mA L T 0.2 to 0.35A Sensitivity: R/T 4.5 $\mu$ V for 20 db signal/noise ratio Aerial systems: rod, ground or elevated aerial Dimensions:- Length 10 1/2 in Width 10 1/2 in Height 17 1/2 in Weight:- 31 lb	2978

Z1/5820-99 104-0239	No 88 Type A Mk 1	A short range F M / R T pack set in hermetically sealed case and suitable for use in tropical climates. Operated from separately carried dry batteries Frequency range:- 40-43 Mc/s I F 3 Mc/s Power:- Input: Sender and receiver H T 90 V Consumption:- Sender, 40 mA Receiver, 10 mA. Sender and receiver L T 1.4 V Consumption:- Sender, 1.0 A Receiver, 0.7 A Output: 0.25 W Sensitivity:- 1.8 $\mu$ V for 20 db signal/noise ratio Aerial systems:- (1) 4 ft vertical rod (2) 11 ft rod with matching unit and ground spike or aerial base (3) 4 ft rubber covered wire Dimensions:- Length 5 3/4 in Width 3.3/4 in Height 9 3/4 in Weight:- 5 lb	2453
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## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No)
<p>Z1/ZA 35388</p> <p>Z1/ZA 54512</p> <p>Z1/ZA 35738</p>	<p>WIRELESS SET - continued No 88 Type A Mk 1/1</p> <p>Mk 2</p> <p>A F V</p>	<p>As for No 88, Type A, Mk 1 (Cat No Z1/ZA 32972), but fitted with aluminium case</p> <p>As for No 88, Type A Mk 1 (Cat No Z1/ZA 32972), but without:</p> <p>(1) Channel A 6 525 Mc/s (2) Channel B 6 4 Mc/s</p> <p>Used with Manpack CSL/222/2</p> <p>As for No 88, Type A, Mk 1 (Cat No Z1/ZA 32972) with minor modifications and the addition of:-</p> <p>(1) Power supply and L F amplifier No 2 (2) Control units Nos 16 and 17</p> <p>Frequency range:- 40 2 to 42 15 Mc/s</p> <p>Power:- Input: 12 V D C Consumption: 3 5 A Sender output: 0 25 W</p> <p>Sensitivity: 1 8 μV for 20 db noise quieting Aerial system: 5 ft 6 in folding rod</p>	<p>2453</p>
<p>Z1/ZA 33621</p> <p>Z1/ZA 54513</p> <p>Z1/ZA 54520</p>	<p>Type B Mk 1</p> <p>Mk 2</p> <p>No 128</p>	<p>Dimensions: (Wireless Set) 3/4 x 3 1/2 in x 9 1/2 in Wt 5 lb (PSU &amp; L F Unit)</p> <p>6 1/4 in x 11 1/4 in x 4 1/4 in Wt 11 1/2 lb (Control Units 16 &amp; 17)</p> <p>6 1/2 in x 3 1/4 in x 6 in Wts No 16 3 lb No 17 2 3/4 lbs</p> <p>As for No 88 Type A Mk 1 (Cat No Z1/ZA 32972) with frequency of 38 0 to 39 70 Mc/s</p> <p>As for No 88 Type B Mk 1 (Cat No Z1/ZA 33621) but without</p> <p>Channel G 5 33 Mc/s 2 Channel I 5 835 Mc/s</p> <p>Used with Wireless station type B manpack CSL/222/0</p> <p>A portable if mounted battery power station consisting of a transmitter and a receiver housed in a wooden case carried in a canvas pack</p> <p>The receiver a superheterodyne, receives C W M W a d i e l e y s i g n a s; the transmitter radiating C W only on fundamental frequencies</p> <p>Frequency coverage: 2 0-8 0 Mc/s in two bands R F power output: approx W</p> <p>Dimensions Length 15 in Width 12 in Height 6 1/2 in Weight 17 3/4 lb, including batteries</p>	<p>6497</p> <p>2453</p>

## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
Z1/ZA 37006	WIRELESS SET - continued B43/R 220 Mk 1	A self contained crystal controlled V H F A/M sender and double superheterodyne receiver May be remotely controlled via land lines or used as a repeater station Frequency range: One spot frequency in the band 70 to 90 Mc/s I F 4 86 Mc/s Powers:- Input: 200/250 V , A C Consumption: 260 W Output: 12 W into 75 ohms Sensitivity: 2 $\mu$ W for signal noise ratio of 12 db Aerial systems: Separate aerials are required for sender and receiver These may be two Yagis, two dipoles or one of each	
Z1/ZA 38351	Mk 3/1 *	Dimensions:- Length 25 in Width 18 in Height 15 in Weight:- 94 lb	10070
Z1/ZA 29477	Burndep ON 34b	As for B43/R 220 Mk 1, but is operated from a desk telephone plugged into sender  Air ground R/T transceiver using separate power unit Z1/ZA 29746 Frequency ranges: Any four frequencies in the band 100 to 120 Mc/s selected by plug in crystals I F 10 Mc/s Powers: Input: 12 V D C Consumption: 5.5 to 11.5 A Output 4 W into 80 ohms Sensitivity 5 V for 20 db signal/noise ratio; Aerial system Half wave dipole with 80 ohm feeder	10119



## SECTION Z1

Cat No	Item name or designation	Item description or detail	Ident or Parts Lists (Code No )
	<p>WIRELESS SET Burndept. CN 348 - continued</p> <p>WIRELESS STATION No 10 Mk 1</p>	<p>continued detail of Cat No. Z1/ZA 29477</p> <p>Dimensions:- Length 18 9/16 in Width 13 1/2 in Height 9 1/2 in Weight - 38 lb</p> <p>A semi mobile station to provide eight telephone circuits over a wireless link The station consists of: Wireless senders No 10 Z1/ZA 33422, Signalling equipment No 10 Y2/YB 03508, Amplifiers, monitoring No, 10 Z1/ZA 33405, Oscillators testing No 10 Z1/ZA 21513, Reception sets, No 10 Frequency range: Receiver 8 15 to 6 8 cm Sender, 6 3 or 6 6 cm</p>	1630
	Mk 2	<p>Power: Input: 110 to 250 V 40 to 60 c/s Consumption: 1 25 k VA Sender output: 100 to 400 mW</p> <p>Aerial system:- Two parabolic mirrors fed by flexible circular waveguides Sender aerial contains monitor pickup</p> <p>Dimensions: Loaded trailer Length 16 ft 0 in Width 6 ft 3 in Height 10 ft 6 1/2 in Weight:- 3 ton 10 cwt</p> <p>As for Mk 1 but with modified sender giving greater stability and improved aerial mounting Facilities provided for accepting A C T 1 + 4 output</p>	2547  6489

## SECTION 21

## INDEX TO CATALOGUE NUMBERS

Cat No	Page	Cat. No	Page	Cat No	Page
Z1/YA 8316	46	Z1/ZA 29470	19	Z1/ZA 39282	66
Z1/ZA 3244	69	Z1/ZA 29471	19	Z1/ZA 39648	42
Z1/ZA 10479	78	Z1/ZA 29477	91	Z1/ZA 39746	42
Z1/ZA 14650	67	Z1/ZA 29549	19	Z1/ZA 41981	38
Z1/ZA 14700	42	Z1/ZA 29553	18	Z1/ZA 43050	75
Z1/ZA 15513	49	Z1/ZA 29639	25	Z1/ZA 44765	80
Z1/ZA 15761	19	Z1/ZA 29828	6	Z1/ZA 46961	45
Z1/ZA 15762	20	Z1/ZA 29961	6	Z1/ZA 49824	65
Z /ZA 8974	73	Z1/ZA 30416	67	Z1/ZA 53347	85
Z1/ZA 19787	25	Z1/ZA 30607	25	Z1/ZA 53372	85
Z1/ZA 20228	18	Z1/ZA 31980	7	Z1/ZA 53566	86
Z1/ZA 21576	83	Z1/ZA 32068	35	Z1/ZA 54160	32
Z1/ZA 22750	72	Z1/ZA 32373	45	Z1/ZA 54512	88
Z1/ZA 24583	86	Z1/ZA 33621	89	Z1/ZA 54513	89
Z1/ZA 2533	80	Z1/ZA 33849	37	Z1/ZA 54520	89
Z /ZA 25433	37	Z1/ZA 34431	67	Z1/ZA 54611	40
Z1/ZA 26348	82	Z1/ZA 34432	68	Z1/ZA 54613	40
Z1/ZA 26554	84	Z1/ZA 34683	38	Z1/ZA 55146	60
Z1/ZA 26557	20	Z1/ZA 34684	39	Z1/ZA/US 2023	33
Z1/ZA 26707	24	Z1/ZA 35388	88	Z1/ZA/US 8023	34
Z1/ZA 27073	75	Z1/ZA 35738	88	Z1/4030-99-102-1383	44
Z /ZA 27098	5	Z1/ZA 36009	25	Z1/5325-99-120-1019	17
Z1/ZA 27691	5	Z1/ZA 36296	63	Z1/5325-99-913-7071	17
Z1/ZA 27718	25	Z1/ZA 37902	41	Z1/5325-99-942-3461	17
Z1/ZA 27935	34	Z1/ZA 37906	90	Z1/5325-99-951-7020	17
Z1/ZA 28898	73	Z1/ZA 37909	62		
		Z1/ZA 38351	91		
		Z1/ZA 38352	63		
		Z1/ZA 38354	41		
		Z1/ZA 38757	75		
		Z1/ZA 39058	82		

SECTION Z1

INDEX I CATALOGUE NUMBERS - continued

Cat No	Page	Cat No	Page	Cat No	Page
Z1/5340-99-100-0677	9	Z1/5820-99-911-0415	23	Z1/5820-99 949-4975	21
		Z1/5820-99-911-0831	30	Z1/5820-99 949-4976	43
Z1/5340-99-102-0377	9	Z1/5820-99-911-0844	60	Z1/5820-99-949-4977	16
		Z1/5820 99-911-0847	50	Z1/5820-99-949-4978	21
Z1/5340-99-949-9615	8	Z1/5820-99-911-0848	54	Z1/5820-99-949-5151	59
		Z1/5820-99-911-0849	46		
		Z1/5820-99-911-0850	27	Z1/5820-99-949-5476	60
Z1/5805-99-933-0847	15	Z1/5820-99-911-0893	54		
		Z1/5820-99-943-2775	29	Z1/5820 99-949 6087	28
Z1/5820-99-102-1120	8	Z1/5820 99 943-9362	58	Z1/5820 99 949 6088	28
Z1/5820-99-102-1342	20	Z1/5820-99 943 9363	59	Z1/5820-99 949 6164	28
Z1/5820-99-102-2496	11	Z1/5820-99-949-0295	51	Z1/5820-99-949-6353	50
Z1/5820-99-102-7464	28	Z1/5820-99 949-0418	56		
Z1/5820-99-102-8855	59	Z1/5820 99-949-0505	57	Z1/5820-99-954-0538	16
Z1/5820-99-102-8856	59	Z1/5820 99 949-0507	61	Z1/5820-99 971-8329	26
		Z1/5820-99 949-0508	23	Z1/5820-99-999-9292	30
Z1/5820-99-103-1365	13	Z1/5820-99-949-1086	21		
		Z1/5820-99 949-1190	17	Z1/5895-99-102-4947	26
Z1/5820-99-103-2205	26	Z1/5820 99-949-1251	55	Z1/5845-99-900-1163	61
Z1/5820-99-103-6188	40	Z1/5820-99 949 1359	53		
		Z1/5820-99-949-1385	26	Z1/5905-99-105-5232	43
Z1/5820-99-104-0239	87	Z1/5820-99-949-1417	49		
Z1/5820-99-104-1660	60	Z1/5820-99-949-1418	26	Z1/5910-99-105-0573	9
Z1/5820-99-104-4292	28	Z1/5820-99-949-1487	13	Z1/5910-99-970-8871	9
Z1/5820-99-104-4305	48	Z1/5820 99-949-1488	15	Z1/5910-99-971-3733	9
		Z1/5820-99-949-2150	7		
Z1/5820-99-106-0365	50	Z1/5820-99-949-2153	59	Z1/5935-99-580-0647	21
Z1/5820-99-106-1379	48	Z1/5820-99-949-2876	28	Z1/5935-99-945-4104	44
Z1/5820-99-106-2088	57	Z1/5820-99-949-3065	48	Z1/5940-99-946-2745	45
Z1/5820-99-106 2496	50	Z1/5820-99-949-3066	28	Z1/5940-99-946-2952	45
Z1/5820-99-106-3334	55	Z1/5820-99-949-3256	30		
Z1/5820-99-106-3395	61	Z1/5820-99-949-3501	9	Z1/5985-99-102-3750	20
Z1/5820-99-580-0744	21	Z1/5820-99-949-3572	10	Z1/5985-99-102-3777	20
		Z1/5820-99-949-3503	44		
Z1/5820-99-580-1973	15	Z1/5820-99-949-4521	16		
		Z1/5820-99-949-4820	52	Z1/5995-99-900-7161	9
Z1/5820-99-901-7244	21	Z1/5820-99-949-4826	31	Z1/5995-99-900-7182	9
				Z1/5995-99-900-7191	9

RESTRICTED.