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# ADMIRALTY FLEET ORDER

## SUPPLY OF TELEPRINTERS AND SPARES TO NAVAL ESTABLISHMENTS ABROAD

ADMIRALTY, S.W.1,  
4th March, 1943.

The following Order having been approved by My Lords Commissioners of the Admiralty is hereby promulgated for information and guidance and necessary action.

By Command of their Lordships,

*H. V. Markham*

**Distribution Limited**

To Commanders-in-Chief, Flag Officers, Senior Naval Officers Ashore, and Superintendents or Officers in Charge of H.M. Naval Establishments concerned.	} Foreign Stations only

**NOTE :—**The scale of distribution is approximately half that shown in the Admiralty Fleet Order Volume, 1941, Instructions, paragraph 10.

## 1026.—Supply of Teleprinters and Spares to Naval Establishments Abroad

(N.S. 22893/41.—4.3.1943.)

With the development of teleprinter working as a means of communication at and between Naval establishments abroad, some clarification of the methods of demanding and supplying the equipment and spares involved is necessary.

2. Two types of teleprinter equipment are fitted, viz. :—

(a) *Equipment Table, G.P.O., Type T.G.995, Pattern 23001*, designed to work over a *telephone* circuit. This can be used *alternatively* with a telephone at either end of the circuit, and when so arranged is generally referred to as "Telex". This equipment when supplied is composed of the items detailed in Appendix "A".

(b) *Equipment Table, G.P.O., Type D.T.N.2000, Pattern 23002*, designed to work over a *telegraph* circuit, which may be physical, or a combination of physical or multi-frequency channel. This equipment when supplied is composed of the items detailed in Appendix "B".

3. It should be made clear on demands which of the two types are required, taking into consideration that while (a) gives the additional telephone facility, using only one circuit, (b) does not need a circuit of so high a quality as that of (a). The voltage of power supply available at each terminal station, and its type, must always be shown on demands.

4. For efficient working, it is essential that replacement components shall be readily available, and that the personnel called upon to maintain and repair the equipments shall have the necessary knowledge of the machines.

5. To enable minor repairs to be carried out expeditiously, each machine when supplied is accompanied by a set of tools as detailed in Appendix "C", and with spares in accordance with column 4 of Appendix "D". A wider range of spare parts as detailed in columns 5 or 6 of Appendix "D" will be supplied to stations according to the number of equipments fitted. Instruction and Maintenance Manuals will be supplied with each machine.

6. To enable requirements to be met for spare parts *not* supplied to stations, stocks of parts detailed in Appendix "E" will be maintained by (Superintending) Naval Store Officers at yards and depots as follows :—

- Gibraltar (sufficient for 50 machines).
- Kilindini (sufficient for 50 machines).
- Simonstown (sufficient for 25 machines).
- Ceylon (sufficient for 50 machines).
- Durban (sufficient for 25 machines).
- Alexandria (sufficient for 50 machines).
- Malta (sufficient for 25 machines).
- Bermuda (sufficient for 25 machines).

7. Stocks of the spares supplied with the machines (column 4, Appendix "D") or to the stations (column 5 or 6, Appendix "D") are to be replenished as necessary by demands which should be forwarded to the nearest of the yards or depots detailed in paragraph 6. The stocks at these yards are to be maintained by means of periodical demands on the Admiralty.

8. The supply of teleprinters, spares, paper, etc., is being dealt with under Subhead F, Item 1C, Part V, and provision is being made for the spares required for the various bases, etc., *vide* Appendices "D" and "E". Shipment will be arranged by the Superintending Naval Store Officer, Park Royal.

## APPENDIX "A"

*Apparatus required to complete Equipment Table, T.G.995, Pattern 23001*

Pattern	Description	Quantity	Remarks
23001	Equipment table, T.G.995 ...	1	
23000	Teleprinter No. 7B, page, to be fitted with Answer-Back, wards, Pattern 23332, Royal Navy.	1	Equipped with a motor, electric, D.C., No. 13, designed to work on D.C. supplies of 90-120 volts and 180-250 volts.
23003	Cover, teleprinter, No. 1 ...	1	
24032	Converter, V.F. telegraph, No. 9	1	Required when power supply is A.C.
	or		
24033	Converter, V.F. telegraph, No. 10	1	Required when power supply to D.C.
24034	Valves, thermionic, No. 68 ...	4	
24035	Cord, flex, E.L., 250 volt, Class D.3. 0.001 sq. in. (3-yard lengths).	1 length	
24046	Plug for socket, outlet, No. 8 ...	1	Plug, power, 3-pin, 5-amp.
24047	Rectifier, No. 43A ...	1	To provide power for the teleprinter motor when the power supply is A.C. (supersedes rectifier, No. 22C).
24042	Cells, Leclanche, D.R.2 ...	3	
23004	Box, packing, No. 47 ...	1	Or equivalent.
24044	Telephone, No. 396 L.B. ...	1	
24045	Generator, No. 4, C.N. ...	1	
24048	Cord, instrument, No. 3/13B, brown, 54-in.	1	For generator, No. 4C.N.
24041	Cells, Leclanche, D.S.5 ...	2	
24036	Filter, suppression, No. 9 ...	1	
24037	Filter, suppression, No. 10 ...	1	Radio interference suppression units.
24038	Filter, suppression, No. 11 ...	1	
24040	Condensers, tubular, No. 1/1C, 0.01 mfd.	2	

## APPENDIX "B"

Apparatus required to complete Equipment Table D.T.N.2000, Pattern 23002

Pattern	Description	Quantity	Remarks
23002	Equipment, table, D.T.N.2000 ...	1	
24047	Rectifier, No. 43A ...	1	To provide power for the teleprinter motor when the power supply is A.C. (supersedes rectifier No. 22C).
24049	Rectifier, No. 26B ...	1	To provide 80-80 signalling power when the power supply is A.C.
24050	Fuze I/IC ...	2	When power supply is A.C.
24052	Resisters, bulb No. 11, 100 ohms.	2	When power supply is A.C.
24055	Converter, rotary, No. 4.....V.D.C.	1	To provide 80-80 signalling power when the power supply is D.C. The voltage ranges are 100/120v, 200/220 and 230/250v.
24051	Unit, auxiliary, apparatus, T.G.1020.	1	When the power supply is D.C.
24053	Bracket, mounting, B.M. ...	1	When the power supply is D.C.
23000	Teleprinter, No. 7B. Page to be fitted with Answer-Back wards, Pattern 23332, Royal Navy.	1	Equipped with a motor electric, D.C. No. 13, designed to work on D.C. supplies of 90-120 volts or 180-250 volts.
24046	Plug, for socket outlet, No. 8 ...	1	Plug, power, 3 pin 5 amp.
24036	Filter, suppression, No. 9 ...	1	Radio Interference Suppression Units.
24037	Filter, suppression, No. 10 ...	1	
24038	Filter, suppression, No. 11 ...	1	
24039	Filter, suppression, No. 13 ...	1	
24040	Condenser, tubular, No. 1/1C, 0.01 m.f.d.	2	
23003	Cover, teleprinter, No. 1 ...	1	
24042	Cells, Leclanche, D.R.2 ...	4	
24043	Lamps, No. 2, 6 volt ...	1	
24054	Resister coil, No. 12, 4,000 ohms.	1	
24056	Bracket, holding, 4,000 ohm. resistance coil.	1	
24035	Cord, flex, E.L.250 volt, Class D3 0.001 sq. in. (3 yard length).	1 length	
23004	Box, packing, No. 47 ...	1	Or equivalent.

## APPENDIX "C"

Pattern No.	Description	No.
23397	Brush, sash, tool, No. 4 ...	1
23398	Brush, typehead, No. 1 ...	1
23399	Burnisher, contact, No. 1 ...	1
23400	Burnisher, file, No. 2 ...	1
23401	Cleaner, contact, No. 2 ...	1
23402	Extractor, No. 9 ...	1
23403	Extractor, No. 11 ...	1
23404	Eye-glass, watchmaker's ...	1
23405	Gauges, feeler, No. 3 ...	1
23406	Gauges, tension, No. 7 ...	1
23407	Gauges, tension, No. 8 ...	1
23408	Gauges, tension, No. 9 ...	1
23409	Greasegun, No. 2 ...	1
23410	Hammer, watchmaker's ...	1
23411	Oiler, large ...	1
23412	Oiler, small ...	1
23413	Pliers, adjusting, No. 5 ...	1
23414	Ring, driver, No. 3 ...	1
23415	Screwdriver, inst., No. 1 ...	1
23416	Screwdriver, inst., No. 4 ...	1
23417	Screwdriver, inst., No. 6 ...	1
23418	Spanner, flat, No. 1 ...	1
23419	Spanner, flat, No. 2 ...	1
23420	Spanner, flat, No. 3 ...	1
23421	Spanner, flat, No. 4 ...	1
23422	Spanner, flat, No. 5 ...	1
23423	Spanner, flat, No. 10 ...	1
23424	Stroboscopes, No. 2 ...	1
23425	Spike, capstan, No. 2 ...	1
23426	Spike, capstan, No. 3B ...	1
23427	Spike, capstan, No. 3C ...	1
23428	Spike, capstan, No. 5 ...	1
23429	Tweezers, steel, No. 1 ...	1

## APPENDIX "D"

Pattern	Description	G.P.O. Patt. No.	Supplied with each Machine.	Spares supplied to stations with 1-4 teleprinters	Spares supplied to stations with more than 4, for every 8 teleprinters (or part)
1	2	3	4	5	6
23021	Spring for bench motor ...	A.55	2	2	4
23010	Disc, fibre, coupling (2 per set) ...	A.20	—	2	2
23008	Brushes, motor (4 per set) ...	B.A.35	4	12	24
23014	Ribbon, ink ...	A.44	—	20	32
23039	Spring, flat (contact backing spring), (2 per set).	B.11	—	2	4
23037	Spring, contact governor brush	B.12	2	6	9
23041	Spring, starter, switch controlling	B.54	—	2	4
23065	Spindle, main shaft, worm, (includes worm).	D.14	—	1	2
23069	Spring, shroud, for worm wheel...	B.D.32	—	2	2
23060	Screw, shroud spring ...	B.D.33	—	2	2
23055	Ring, locking (2 per machine) ...	D.42	—	2	4
23048	Arm, lifting, weight ...	B.D.46	—	1	1
23059	Screw, arm, lifting weight ...	B.D.47	—	2	2
23052	Link, lifting, weight ...	D.49	—	2	2
23062	Screw, shouldered, for securing link weight lifting.	D.50	—	2	2
23053	Nut, hexagon, for securing link weight lifting.	D.51	—	2	2
23094	Spring, tension, bellcrank (60 per set).	E.13	—	6	12
23099	Spring, tension shift bellcrank (2 per set).	E.14	—	2	4
23098	Spring, shift comb lever... ..	E.31	—	2	4
23095	Spring, type, clutch, outer ...	E.39	—	2	4
23097	Spring, scissor clutch, inner ...	E.40	—	2	4
23106	Washers, spacing (1 to 5 per machine as required).	E.44	—	6	6
23103	Stop, type ... ..	E.49	—	1	1
23087	Plate, type retaining ... ..	E.50	—	1	1
23100	Spring, type, retaining (3 per set)	E.56	—	3	6
23085	Lining, clutch ... ..	B.E.59	—	4	6
23109	Bearing, 5 mm. (6 per set) inner and outer race.	F.2	—	4	6
23111	Jumper ribbon ... ..	F.36	1	1	2
23125	Spring, jumper, ribbon ... ..	F.37	1	2	4
23171	Spring, restoring, finger, resetting bellcrank.	G.7	1	2	4
23130	Blade, finger, setting ... ..	G.9	—	1	1
23157	Roller-cam (2 per set) ... ..	G.12	—	2	2
23173	Spring, comb setting finger (5 per set).	G.22	—	5	5
23158	Roller-cam (2 per set) ... ..	G.34	—	2	2
23172	Spring, tension, ribbon, feed, pawl	G.40	—	2	4
23159	Roller-cam ... ..	G.45	—	1	1
23174	Spring retention lever ... ..	G.62	—	1	2
23151	Pin, finger, setting ... ..	G.74	2	2	4
23176	Spring, receiving pawl ... ..	G.87	—	1	2
23160	Roller, bearing, lever, retention...	G.140	—	1	2
23178	Spring, retaining, roller, Pattern 23160.	G.141	—	2	2

## APPENDIX "D"—contd.

Pattern	Description	G.P.O. Patt. No.	Supplied with each Machine	Spares supplied to stations with 1-4 teleprinters	Spares supplied to stations with more than 4, for every 8 teleprinters (or part)
1	2	3	4	5	6
23204	Spring, tension, bias, adjusting	B.J.20	—	1	2
23230	Ring, locking for securing hammer pawl.	K.10	—	2	4
23242	Spring, tension, carriage latch ...	K.31	—	2	2
23238	Spring, tension, carriage return bellcrank.	K.36	—	2	2
23243	Spring, tension carriage return trip bellcrank.	K.49	—	2	2
23245	Spring, tension, links ... ..	K.73	—	3	3
23216	Knob, platen ... ..	K.96	—	1	1
23236	Screw, knob, platen ... ..	B.K.97	1	2	4
23246	Spring, tension, line feed jockey roller.	K.105	—	2	2
23226	Plate, buffer, carriage latch plate	B.K.140	—	1	2
23227	Plate, distance, for plate buffer, Pattern 23226.	B.K.141	—	1	2
23235	Screw, securing, plate buffer, Pattern 23226.	B.K.142	—	2	4
23263	Spring, tension knife paper (2 per set).	M.17	—	2	2
23264	Spring, tension, roller tension paper.	M.27	—	2	2
23267	Arm, locking-bar ... ..	O.3	—	1	1
23268	Arm, trip bar ... ..	O.5	—	1	1
23281	Screw securing, arms Patterns 23267, 23268 (2 per set).	O.6	—	2	2
23286	Spring, tension, arm locking bar	O.7	1	2	2
23287	Spring, tension, locking and combination bars (6 per set).	O.9	—	3	6
23285	Spring, key-bar ... ..	O.24	—	3	3
23309	Spring, tension, send-receiver switch lever.	P.11	—	2	4
23311	Spring, tension, selecting levers (6 per set).	P.15	—	6	6
23314	Spring tension, trip bellcrank ...	P.22	—	2	2
23310	Spring, pawl ... ..	P.34	—	2	2
23312	Spring, tension pawl, abutment	P.38	—	2	2
23300	Ring, locking, for Pattern 23290	P.39	—	2	4
23301	Jockey and spring, roller for transmitter.	P.82	—	1	2
23335	Contact, Screw ... ..	S.49	1	2	2
23339	Spring, saddle, contact ... ..	S.55	—	2	2
23334	Arm, contact, incomplete ... ..	S.61	—	2	2
23341	Spring, contact ... ..	S.62	1	6	9
23336	Plate, clamping ... ..	S.63	—	2	2
23344	Screw, securing, spring contact...	S.64	—	2	2
23346	Washer, spring ... ..	S.65	—	2	2
23373	Tongue, transmitting ... ..	B.U.57	—	1	1
23358	Plate, stop ... ..	B.U.78	—	1	1
23369	Striker, transmitting tongue ...	B.U.84	—	1	1
23364	Screw, pivot, striker ... ..	B.U.85	—	1	2

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Tele-printers	Spares supplied for over 10 and for every 25 Tele-printers
1	2	3	4	5
<i>Spares for Sub-Assembly and Main Parts.</i>				
23005	Bearings, motor (2 per set) ...	A.56	6	12
23006	Bracket, ribbon feed unit C.P., left hand.	A.8	1	1
23007	Bracket, ribbon feed unit C.P., right hand.	A.6	1	1
23008	Brushes, motor (4 per set) ...	B.A.35	100	200
23009	Disc, driving ...	B.A.21	5	10
23010	Disc, fibre coupling (2 per set) ...	A.20	24	36
23011	Governor, unit, complete ...	A.25	1	2
23012	Link, electro-magnet ...	B.A.30	2	5
23013	Motor, electric, D.C. No. 13 ...	B.A.34	1	2
23014	Ribbon, ink, black ...	A.44	75	200
23015	Screw, driving disc securing ...	B.A.22	4	6
23016	Screw, keyboard unit, securing (2 per set).	A.29	2	4
23017	Screw, receiver cam unit, securing (3 per set).	A.43	3	6
23018	Screw, ribbon bracket, securing (4 per set).	A.7	4	6
23019	Screw, type-hammer, securing ...	A.51	6	12
23020	Spool ribbon, ink ...	A.46	6	12
23021	Spring, motor brush (4 per set) ...	A.55	12	24
23022	Typehead, complete ...	A.53	1	1
23023	Washer, type-hammer, securing...	A.52	6	12
<i>Spares for Main Base Unit.</i>				
23024	Block, keyboard, connection ...	B.16	1	2
23025	Block, insulating, contact governor	B.7	2	6
23026	Condenser, spark quench, governor 0.5.U.F.	B.B.98	1	2
23027	Cord, instrument, No. 3/73 L. 60 in.	B.24	2	4
23028	Cord, instrument, No. 9/11 F.S.I. Black 60-in.	B.25	2	4
23029	Feet, rubber (4 per set) ...	B.79	6	12
23030	Lever, operating, starter switch	B.B.39	2	5
23031	Plug, No. 903 ...	B.62	2	4
23032	Plug, socket outlet, No. 8 ...	B.61	2	4
23033	Resistance, governor, 1,000 ohms	B.63	1	2
23034	Screws, contact motor spring, securing.	B.111	4	6
23035	Screw, motor support plate, securing.	B.45	2	6
23036	Spring, backing, contact motor, spring.	B.110	6	12
23037	Spring, contact, governor ...	B.12	36	60
23038	Spring, contact, motor ...	B.109	6	12
23039	Spring, flat, contact backing spring (2 per set).	B.11	32	50
23040	Spring, flat, retaining pawl, ribbon feed spindle.	B.73	2	5
23041	Spring, starter switch, controlling	B.54	24	48
23042	Spring, stirrup (2 per set) ...	B.55	2	4
23043	Switch, unit, starter, C.P. ...	B.B.75	1	2

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Tele-printers	Spares supplied for over 10 and for every 25 Tele-printers
1	2	3	4	5
<i>Spares for Starter Switch Unit</i>				
23044	Blade, contact, starter switch ...	C.2	5	10
23045	Blade, contact, motor ...	B.C.25	5	10
23046	Collets, insulating (2 per set) ...	B.C.10	6	12
23047	Insulators ...	C.9	24	36
<i>Spares for Main Shaft and Starter-Control Unit</i>				
23048	Arm, weight-lifting ...	B.D.46	8	12
23049	Bearing, main driving shaft (2 per set).	D.11	6	12
23050	Boss, starter ...	B.D.26	3	6
23051	Lever, trip, starter ...	D.41	1	2
23052	Link, starter, weight ...	D.49	18	24
23053	Nut, hexagon ...	D.51	18	24
23054	Nut, retaining, main shaft ...	D.21	2	3
23055	Ring, locking, starter trip lever ...	D.42	18	24
23056	Screw, clamping ...	D.67	4	6
23057	Screw, securing, bearing reduction gear.	D.16	4	6
23058	Screw, securing, boss starter ...	B.D.27	4	6
23059	Screw, securing, weight-lifting arm	B.D.47	18	24
23060	Screw, securing, spring ...	D.62	4	6
23061	Screw, securing, spring ...	B.D.33	6	12
23062	Screw, securing, worm wheel (2 per set).	D.6	4	6
23063	Screw, shouldered, link starter weight	D.50	18	24
23064	Shaft, main driving ...	D.18	1	1
23065	Spindle, intermediate, worm ...	D.17	3	6
23066	Spindle, mainshaft worm ...	D.14	12	24
23067	Spindle, starter, trip ...	D.45	1	2
23068	Spring, end thrust starter, trip spindle.	D.60	2	6
23069	Spring, shroud, worm wheel ...	B.D.32	18	24
23070	Spring, tension, for Pattern 23069	D.34	6	12
23071	Washer, retaining main shaft ...	D.22	2	5
23072	Worm, starter, driving ...	D.28	2	5
23073	Wheel, worm ...	D.56	2	6
23074	Wheel, worm, complete ...	D.5	1	2
<i>Spares for Combination Head and Typehead Units</i>				
23075	Bearing, bush, typehead sleeve (2 per set).	E.63	4	10
23076	Bearing, keyboard bearing ...	E.60	6	12
23077	Bearing, typehead spindle ...	E.62	4	8
23078	Bellerank, functional ...	E.12	5	10
23079	Bellerank, ordinary (52 per set) ...	E.11	10	30
23080	Combs, receiving (5 per set) ...	E.22	1 set	1 set
23081	Comb, shift ...	E.26	1	2
23082	Drum, clutch ...	B.E.41	1	2
23083	Gear, typehead ...	E.45	1	2
23084	Lever, shift comb ...	E.30	1	2

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Tele-printers	Spares supplied for over 10 and for every 25 Tele-printers
1	2	3	4	5
<i>Spares for Combination Head and Typehead Units—contd.</i>				
23085	Lining, clutch ... ..	B.E.59	36	72
23086	Plate, body front ... ..	E.16	2	4
23087	Plate, type retaining ... ..	E.50	6	12
23088	Rack, type ... ..	E.52	2	5
23089	Ring, locking ... ..	E.32	6	12
23090	Screw, securing, gear typehead ...	E.46	4	6
23091	Screw, securing, strap body clamp (2 per set).	E.20	4	6
23092	Screw, shouldered, for rack type (3 per set).	E.53	4	6
23093	Sleeve typehead, complete ...	E.54	1	1
23094	Spring, bellcrank (60 per set) ...	E.13	75	200
23095	Spring, clutch, outer ... ..	E.39	24	48
23096	Spring, comb restoring (5 per set)	E.23	6	12
23097	Spring, scissor ... ..	E.40	24	48
23098	Spring, shift comb, lever ...	E.31	6	12
23099	Spring, tension, shift bellcrank ...	E.14	24	48
23100	Spring, type, retaining (3 per set)	E.56	36	72
23101	Stop, comb ... ..	E.24	1	2
23102	Stop, indicator ... ..	E.48	3	6
23103	Stop, type ... ..	E.49	6	12
23104	Type (characters to be stated) ...	E.57	1 set.	3 sets.
23105	Washers, securing, strap body clamping (2 per set).	E.21	4	6
23106	Washers, spacing ... ..	E.44	40	75
<i>Spares for Control Lever Unit</i>				
23107	Arm, jumper, shaft bend ...	F.42	2	5
23108	Arm, jumper, shaft, straight ...	F.43	2	5
23109	Bearing, 5 mm., complete (6 per set).	F.2	12	24
23110	Bracket, typehead support ...	F.1	1	2
23111	Jumper, ribbon ... ..	F.36	12	24
23112	Lever, bell control ... ..	F.15	1	1
23113	Lever, carriage return control ...	F.16	1	2
23114	Lever, feed throw-out ... ..	F.18	1	2
23115	Lever, figure shift ... ..	F.23	1	1
23116	Lever, letter shift ... ..	F.24	1	1
23117	Lever, line feed control ... ..	F.17	1	2
23118	Rack, control lever ... ..	F.32	1	1
23119	Screw, clamping, for Patt. 23123	F.12	3	6
23120	Screw, clamping, for Patt. 23115	F.33	4	6
23121	Screw, securing, Patts. 23107, 23102	F.47	4	6
23122	Screw, securing, Patt. 23110 ...	F.7	3	6
23123	Screw, trip, for finger, resetting bellcrank.	F.11	3	6
23124	Shaft, ribbon jumper ... ..	F.48	2	4
23125	Spring, ribbon jumper ... ..	F.37	24	48
23126	Spring, tension, for all control levers.	F.28	6	12
23127	Spring, tension, for Patts. 23114, 23111.	F.21	5	10
23128	Spring, tension, for Patts. 23115, 23116.	F.25	5	10

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Tele-printers	Spares supplied for over 10 and for every 25 Tele-printers
1	2	3	4	5
<i>Spares for Receiving Cam Unit</i>				
23134	Abutment, pawl and shock absorbing spring, complete.	G.89	2	5
23129	Bellcrank, finger resetting ...	G.6	1	1
23130	Blade, finger setting ... ..	G.9	5	10
23131	Block, comb, setting finger ...	G.20	1	2
23132	Eccentric, for pawl ribbon feed ...	G.37	1	2
23133	Felt, lubricator ... ..	G.4	6	10
23135	Finger, comb setting (5 per set) ...	G.21	15	20
23136	Key cam shaft gear ... ..	G.104	2	5
23137	Lever, bellcrank, lifting, complete	G.33	1	2
23138	Lever, feed, complete ... ..	G.49	1	1
23139	Lever, pawl abutment, complete	B.G.59	2	5
23140	Lever, retention ... ..	G.61	2	5
23141	Lever, traversing ... ..	G.66	1	1
23143	Lever, trip shaft ... ..	B.G.68	1	1
23144	Lever, typehammer ... ..	G.69	1	1
23142	Link, traversing, complete ...	G.73	2	5
23145	Nut, locking, for Pattern 23166 ...	G.51	4	6
23146	Nut, locking, for Pattern 23161 ...	G.64	4	6
23147	Nut, locking, for Pattern 23179 ...	G.143	4	6
23148	Pad, felt ... ..	G.15	3	6
23149	Pawls, receiving ... ..	G.84	10 pr.	18 pr.
23150	Pawls, ribbon feed ... ..	G.36	1	2
23151	Pin, finger setting ... ..	G.74	30	50
23152	Pin, eccentric, adjusting feed lever	G.52	2	5
23153	Pin, parallel, cam shaft gear ...	G.32	1	1
23154	Pin, shouldered, pawl pivot ...	G.86	3	6
23155	Piece, distance for pawls (2 per set)	G.85	6	12
23156	Ratchet, cam shaft gear ... ..	G.101	2	5
23157	Roller, cam (2 per set) ... ..	G.12	18	30
23158	Roller, cam (2 per set) ... ..	G.34	18	30
23159	Roller, cam ... ..	G.45	12	18
23160	Roller, lever retention ... ..	G.140	12	24
23161	Screw, eccentric, for Pattern 23140	G.63	2	5
23162	Screw, finger setting lever ...	G.10	6	6
23163	Screw, securing, rear bearing block	G.19	3	6
23164	Screw, securing, retaining plate for selecting fingers (2 per set).	G.24	4	6
23165	Screw, securing, pawl ribbon feed	G.39	4	6
23166	Screw, special, operating ribbon jumper.	G.50	4	6
23167	Screw, locking, pin, eccentric ...	G.53	4	6
23168	Screw, rear bearing, cam sleeve ...	G.99	2	2
23169	Shaft, trip ... ..	B.G.95	1	1
23170	Spindle, cam shaft gear ... ..	G.103	2	5
23171	Spring, restoring, finger resetting bellcrank.	G.7	24	48
23172	Springs, tension ribbon, feed pawl	G.40	4	6
23173	Spring, comb, setting finger ...	G.22	36	60
23174	Spring, tension, lever retention ...	G.62	9	24
23175	Spring, flat, finger setting pin ...	G.75	3	6
23176	Spring, pawl ... ..	G.87	18	24
23177	Spring, shock absorbing, cam shaft gear.	G.102	2	5

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Tele-printers	Spares supplied for over 10 and for every 25 Tele-printers
1	2	3	4	5
<i>Spares for Receiving Cam Unit—contd.</i>				
23178	Spring, retaining, roller ...	G.141	18	24
23179	Screw, securing, spring, Pattern 23178.	G.142	4	6
23180	Sleeve (sub), receiving cam ...	B.G.120	1	1
23181	Washer, for Pattern 23162 ...	G.11	6	6
23182	Washers, spl., for pawl, ribbon feed	G.38	2	5
23183	Washer, nut locking ...	G.65	4	6
23184	Washer, thrust, between cam sleeve and gear wheel.	G.88	2	5
23185	Wheel, gear and boss, for cam shaft	B.G.105	1	1
<i>Spares for Ribbon Feed Bracket, Type Hammer and Ribbon Feed Spindle Units</i>				
23186	Clip, for crown wheel ...	H.15	2	5
23187	Cover, ribbon (2 per set) ...	H.17	4	6
23188	Pivot, spring jockey, for ribbon feed spindle.	B.H.40	2	2
23189	Rod, feed change-ribbon (2 per set)	H.16	2	5
23190	Screw, securing, spring jockey (2 per set).	B.H.44	4	6
23191	Screw, securing, type hammer ...	H.19	4	6
23192	Spring, backing, spring jockey ...	B.H.42	2	3
23193	Spring, jockey, ribbon feed spindle	B.H.41	2	3
23194	Washer, for Pattern 23191 ...	H.20	4	6
23195	Wheel, crown, complete, for ink ribbon bracket (2 per set).	H.14	2	5
<i>Spares for Electro Magnet Unit</i>				
23196	Armature, electro magnet ...	B.J.3	1	1
23197	Bracket, bias, adjusting ...	J.34	1	2
23198	Coil, E. (electro magnet winding)...	J.26	2	4
23199	Collet, retaining plate ...	B.J.41	2	4
23200	Plate, retaining ...	B.J.17	2	2
23201	Plate, retaining, for coils ...	J.28	2	4
23202	Screw, retaining plate ...	B.J.42	2	4
23203	Screw, pip ended (end thrust screw for E.M. armature (2 per set)).	J.29	4	6
23204	Spring, bias ...	B.J.20	3	6
23205	Spring, contact (4 per set) ...	J.11	4	4
23206	Spring, retaining ...	J.24	3	6
<i>Spares for Page-Printing Attachment Unit</i>				
23207	Bellerank, carriage return ...	K.35	1	2
23208	Bellerank, line feed, complete ...	K.80	1	2
23209	Bracket, paper roll chariot ...	K.57	2	4
23210	Bracket, return rod ...	K.37	1	2
23211	Clamp, pivot, feed levers ...	K.21	2	2
23212	Dog, carriage return and line feed (2 per set).	K.38	4	6
23213	Dog, letter feed ...	B.K.65	2	4

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Tele-printers	Spares supplied for over 10 and for every 25 Tele-printers
1	2	3	4	5
<i>Spares for Page-Printing Attachment Unit—contd.</i>				
23214	Drum, carriage spring ...	B.K.133	1	2
23215	Head hammer, for carriage bell ...	K.7	1	2
23216	Knob, platen ...	K.96	6	12
23217	Lever, hammer, for carriage bell ...	K.4	1	2
23218	Nut, locking pin, eccentric ...	K.18	4	6
23219	Pawl, hammer, for carriage bell	K.9	1	2
23220	Pawl, letter feed ...	B.K.75	2	5
23221	Pawl, retention ...	B.K.76	2	5
23222	Pawl, line feed ...	K.86	2	5
23223	Pin, eccentric, for adjusting line feed and carriage return dog.	K.17	1	2
23224	Pin, split, for Patt. 23212 ...	K.39	4	6
23225	Piston, air, complete ...	K.89	1	2
23226	Plate, buffer ...	B.K.140	12	24
23227	Plate, distance ...	B.K.141	12	24
23228	Ratchet, platen ...	B.K.99	1	2
23229	Ring, locking, for lever hammer...	K.6	6	12
23230	Ring, locking, for hammer pawl...	K.10	24	48
23231	Ring, locking, for securing feed, lever.	K.71	4	6
23240	Roller, ratchet-wheel, complete ...	K.102	1	2
23232	Screw, securing, bearing roller, for paper roll.	K.58	6	12
23233	Screw, securing, clamp, Patt. 23211	K.22	4	6
23234	Screw, securing, hammer head ...	K.8	3	6
23235	Screw, securing, plate buffer ...	B.K.142	12	24
23236	Screw, platen knob ...	B.K.97	6	12
23237	Screw, securing, paper chariot (2 per set).	B.K.52	4	6
23238	Spring, tension, bellerank, carriage return.	K.36	18	24
23239	Spring, buffer, for chariot ...	K.55	2	4
23241	Spring, carriage return ...	K.107	1	2
23242	Spring, tension, carriage latch ...	K.31	18	24
23243	Spring, tension, carriage return trip bellerank.	K.49	18	24
23244	Spring, tension, clutch, crosshead	K.64	4	6
23245	Spring, tension, feed links ...	K.73	18	36
23246	Spring, tension, line, feed jockey roller.	K.105	6	12
23247	Spring, tension, for pawls, Patts. 23220 and 23221.	K.79		
23248	Spring, tension, hammer lever ...	K.5	3	6
23249	Washer, special, for Patt. 23212...	K.40	4	6
23250	Washer, special, for Patt. 23218...	K.19	4	6
23251	Washer, special, for Patt. 23233...	K.23	3	6
23252	Washer, spring and platen knob...	B.K.162	12	18
<i>Spare Parts for Carriage Units.</i>				
23253	Block, roller bearing for platen ...	M.31	1	1
23254	Clip, paper, folding (2 per set) ...	M.9	2	5
23255	Knife, paper ...	M.16	1	1

## APPENDIX "E"—contd.

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Tele-printers	Spares supplied for over 10 and for every 25 Tele-printers
1	2	3	4	5
<i>Spare Parts for Carriage Units—contd.</i>				
23256	Plate, end, left-hand ... ..	M.11	1	1
23257	Plate, end, right-hand ... ..	M.12	1	1
23258	Platen, complete ... ..	B.M.22	2	5
23259	Roller, pressure (2 per set) ... ..	B.M.25	5	10
23260	Screw, pivot, paper knife ... ..	M.18	4	6
23261	Screw, shouldered, pivots for tension roller (2 per set).	M.28	4	6
23262	Spring, pressure roller (2 per set)	M.6	2	6
23263	Spring, tension, paper knife (2 per set).	M.17	12	24
23264	Spring, tension, for tension roller (2 per set).	M.27	12	24
23430	Washer, platen ... ..	M.32	3	5
<i>Spares for Keyboard Unit.</i>				
23265	Gear, spiral ... ..	N.13	1	1
23266	Shaft, driving for answer back unit	B.N.8	1	2
<i>Spares for Keyboard Assembly.</i>				
23267	Arm, locking, bar ... ..	O.3	9	12
23268	Arm, trip, bar ... ..	O.5	9	12
23269	Bar, combination (5 per set) ... ..	O.8	1 set	1 set
23270	Bar, locking, No. 1 ... ..	O.1	1	1
23271	Bar, trip ... ..	O.4	1	1
23272	Cap, key button (30 per set) ... ..	O.19	36	48
23273	Glasses, key button (30 per set)	O.18	36	48
23274	Key, space, complete ... ..	O.20	5	10
23275	Keybar, bottom row (10 per set)	O.13	10	20
23276	Keybar, middle row (9 per set) ... ..	O.14	10	20
23277	Keybar, middle row (D keybar) ... ..	O.15	1	2
23278	Keybar, top row (10 per set) ... ..	O.16	10	20
23279	Pad, space bar ... ..	O.22	5	10
23280	Plate, keyboard guide (2) ... ..	O.26	2	4
23281	Screw, capstan, for Patterns 23267, 23268.	O.6	12	24
23282	Screw, securing, keybar racks, (4 per set).	O.44	4	6
23283	Screw, securing, keyboard front plate (2 per set)	B.O.47	4	6
23284	Screw, securing space bar pad ... ..	O.23	6	12
23285	Spring, keybar (1 per keybar) ... ..	O.24	12	24
23287	Spring, tension combination bar (6 per set).	O.9	24	48
23286	Spring, tension, for Patterns 23267, 23268.	O.7	12	24
<i>Spares for Transmitting Unit (includes Transmitting Cam Assembly and Transmitting Contact Block).</i>				
23288	Abutment, pawl ... ..	P.36	4	6
23289	Bearing, front plate ... ..	P.100	5	10
23290	Finger, trip ... ..	P.37	4	6

## APPENDIX "E"—contd.

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Tele-printers	Spares supplied for over 10 and for every 25 Tele-printers
1	2	3	4	5
<i>Spares for Transmitting Unit (includes Transmitting Cam Assembly and Transmitting Contact Block)—contd.</i>				
23291	Gear, transmitting unit ... ..	P.4	1	1
23292	Lever, bellcrank and trip, complete	P.18	1	2
23293	Lever, combination bar, resetting	P.5	2	5
23294	Lever, selecting (6 per set) ... ..	B.P.12	12	24
23295	Lever, send-receive switch ... ..	P.10	2	5
23296	Nut, locking, contact screws ... ..	P.48	4	6
23297	Pawl (2 per set) ... ..	P.30	2 pr.	5 pr.
23298	Pawl, distance piece ... ..	P.32	5	10
23299	Pawl, pivot ... ..	P.33	2	5
23310	Pawl, spring ... ..	P.34	12	24
23300	Ring, locking, finger trip ... ..	P.39	12	24
23301	Roller, jockey and spring ... ..	P.82	12	24
23304	Screw, contact, send-receive switch (2 per set).	P.46	6	12
23303	Screws, contact transmitting (2 per set).	B.P.97	6	12
23305	Screw, plug locking, for screw contact.	P.47	4	6
23306	Screw, securing, pivot block ... ..	P.56	4	6
23307	Screw, securing, spring contact ... ..	P.55	4	6
23308	Screw, securing, trip, lever ... ..	P.21	4	6
23302	Spring, contact, tongue pivot block	P.54	4	6
23309	Spring, for lever, send-receiver switch.	P.11	4	6
23315	Spring, for use between keybar resetting lever and front plate.	P.6	4	6
23311	Spring, selecting lever ... ..	P.15	12	24
23312	Spring, tension, abutment pawl ... ..	P.38	18	24
23313	Spring, tension, send-receiver switch blade.	P.64	5	10
23314	Spring, tension, trip bellcrank ... ..	P.22	12	24
23316	Spring (used between selecting levers and front plate).	P.17	4	6
<i>Spares for Answer-back Unit and Answer-back Release Shaft.</i>				
23317	Bearing, end ... ..	B.Q.86	1	2
23318	Cam, trip ... ..	B.Q.55	2	5
23319	Gear, spiral ... ..	B.Q.77	1	2
23320	Nut, clamping, spring clutch pressure.	B.Q.73	2	5
23321	Nut, locking, for Pattern 23322 ... ..	Q.46	4	6
23323	Screw, answer-back unit securing	B.Q.54	4	6
23324	Screw, end bearing, securing ... ..	B.Q.87	4	6
23322	Screw, release shaft, adjusting ... ..	Q.45	4	6
23325	Screw, securing release shaft bearing.	Q.40	4	6
23326	Screw, securing, retaining collar ... ..	Q.42	4	6
23327	Shims, distance ... ..	B.Q.75	12	24
23328	Spring, answer trip detent ... ..	B.Q.62	5	10



## APPENDIX "E"—contd.

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Teleprinters	Spares supplied for over 10 and for every 25 Teleprinters
1	2	3	4	5
<i>Spares for Answer-back Unit and Answer-back Release Shaft—contd.</i>				
23329	Spring, clutch pressure ...	B.Q.72	5	10
23330	Spring, tension, release shaft ...	Q.47	4	6
23331	Spring, tension, trip lever ...	B.Q.85	5	10
23332	Wards, blank, for 20 character answer-back unit.	B.Q.66	30	50
23333	Washer, clutch, felt (2 per set) ...	B.Q.76	6	12
<i>Spares for Governor Unit.</i>				
23334	Arm, contact, governor, incomplete	S.61	10	15
23335	Contact, screw, governor ...	S.49	24	36
23336	Plate, clamping, spring, contact ...	S.63	5	10
23337	Ring, slip, inner ...	S.42	1	2
23338	Ring, slip, outer ...	S.43	1	2
23339	Saddle, contact arm ...	S.55	12	24
23340	Screw, adjusting, governor, spring	S.59	5	10
23343	Screw, securing, clamp plate (2 per set).	S.60	5	10
23342	Screw, securing, governor cover ...	S.33	5	10
23344	Screw, securing, plate clamping ...	S.64	12	24
23341	Spring, contact ...	S.62	30	60
23345	Spring, governor ...	S.56	2	4
23346	Spring, washer, for Pattern 23344	S.65	12	24
<i>Spares for Striking Type Transmitting Unit.</i>				
23347	Base, transmitting, contact assembly.	B.U.44	1	1
23348	Blade, send-receive switch ...	B.U.63	5	10
23349	Block, bearing, transmitting tongue	B.U.53	1	2
23350	Cam, sub-transmitting ...	B.U.30	1	2
23351	Collar, securing lever, Pattern 23353	B.U.69	4	6
23352	Hinge, transmitting cover ...	B.U.99	5	10
23353	Lever, contact, operating ...	B.U.67	2	5
23354	Lever, striker, timing ...	B.U.77	1	2
23355	Lever, timing, cam extension ...	B.U.74	2	5
23356	Plate, clamping ...	B.U.79	2	5
23357	Plate, jockey, frame adjusting ...	B.U.108	2	5
23358	Plate, stop ...	B.U.78	2	5
23359	Screw, adjusting, jockey frame ...	B.U.110	4	6
23360	Spring, backing, jockey roller spring.	B.U.114	5	10
23361	Screw, clamping, for plate, Pattern 23356.	B.U.80	4	6
23362	Screw, clamping, for screw, Pattern 23360 (2 per set).	B.U.116	4	6
23363	Screw, locking, for collar, Pattern 23351.	B.U.70	4	6
23364	Screw, pivot, for striker ...	B.U.85	5	10
23367	Screw, securing hinge, transmitting cover.	B.U.100	4	6
23365	Screw, securing lever, timing cam extension.	B.U.75	4	6

## APPENDIX "E"—contd.

Pattern	Description	G.P.O. Pattern No.	Spares supplied for 1-10 Teleprinters	Spares supplied for over 10 and for every 25 Teleprinters
1	2	3	4	5
<i>Spares for Striking Type Transmitting Unit—contd.</i>				
23366	Screw, securing, for plate, Pattern 23357.	B.U.109	4	6
23368	Shaft, racket ...	B.U.28	1	2
23370	Spring, tension, for jockey assembly.	B.U.118	6	12
23371	Spring, tension, for jockey lever...	B.U.117	6	12
23372	Spring, tension, striker assembly	B.U.90	6	12
23369	Striker, transmitting tongue ...	B.U.84	2	5
23373	Tongue, transmitting ...	B.U.57	5	10
<i>Spares for Tape Printing Attachment.</i>				
(Should not be demanded unless teleprinters No. 7B, tape, are in use.)				
23374	Blade, switch, top ...	L.87	1	2
23375	Blade, switch, bottom ...	L.89	1	2
23376	Lamp, No. 11, 24 volts ...	L.113	3	6
23377	Lever, retention ...	L.45	1	2
23378	Lever, switch ...	L.94	1	2
23379	Pawl, driving ...	L.39	1	2
23380	Plate, feed pawl pivot ...	L.38	1	2
23381	Rack ...	L.97	1	2
23382	Racket, driving ...	L.35	1	2
23383	Ring, locking, for feed link ...	L.50	4	6
23384	Ring, locking, pawl driving ...	L.40	4	6
23385	Screw, capstan headed, for feed link eccentric.	L.61	4	6
23386	Screw, securing, shaft, driving ...	L.34	4	6
23387	Shaft, driving, complete ...	L.33	1	2
23388	Spring, end thrust, for platen ...	L.18	1	2
23389	Spring, shackle, for platen spindle	L.31	4	6
23390	Spring, tension ...	L.59	4	6
23391	Spring, tension, feed-link ...	L.51	4	6
23392	Spring, tension, for lever retention	L.46	4	6
23393	Spring, tension, pawl ...	L.44	4	6
23394	Spring, tension, platen spindle ...	L.32	4	6
23395	Spring, tension, pressure roller lever.	L.26	4	6
23396	Spring, tension, for rack ...	L.99	4	6

