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Colin Hinson

In the village of Blunham, Bedfordshire.

THE No. 7P TELEPRINTER PERFORATOR

MODELS

7P/N3—3 ROW KEYBOARD 7P/N4—4 ROW KEYBOARD
7P/CTK—4 ROW COMMERCIAL TYPEWRITER KEYBOARD

AND

THE 67P TELEPRINTER PERFORATOR/AUTO-TRANSMITTER

MODELS

67P/N3—3 ROW KEYBOARD 67P/N4 ROW KEYBOARD
67P/CTK—4 ROW COMMERCIAL TYPEWRITER KEYBOARD

Creed & Company Limited

1st Edition.....Printed Oct., 1938
(No. 7P & 67P with C.T. Keyboards only)

2nd Edition.....Printed July, 1951
(All Models)

3rd Edition.....Printed April, 1956
(All Models)

Customers are advised to retain the previous editions of
this Part List for use when ordering spares for earlier models.

THE No. 7P TELEPRINTER PERFORATOR

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7P/N3—3 ROW KEYBOARD 7P/N4—4 ROW KEYBOARD
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THE 67P TELEPRINTER PERFORATOR/AUTO-TRANSMITTER

MODELS

67P/N3—3 ROW KEYBOARD 67P/N4—4 ROW KEYBOARD
67P/CTK—4 ROW COMMERCIAL TYPEWRITER KEYBOARD

Creed & Company Limited

TELEGRAPH HOUSE
CROYDON, ENGLAND

Telegraphic Address:
CREDO, TELEX, CROYDON

Telephone:
MUNICIPAL 2424

Telex: 28836



PREFACE TO 3RD EDITION OF PART LIST NO. 1067

This revised edition covers three stages of modification to the No.7P Perforator and No.67 Perforator/Auto-Transmitter introduced since the issue of the 2nd edition in July, 1951.

Summary of 1st Stage modifications

Machine Serial Nos. 2025 (7P) and 2223 (67P) Octo. 1952 and onwards

KEYBOARD

The changes to improve the touch of the keys, which characterise the Deep Comb-Bar design of "N" type Keyboard on No.7, 47 and 85 Teleprinters, are introduced where applicable, i.e., Combination bars made thicker and deeper. All edges, including the teeth, are hardened.

Rollers in the racks are replaced by flat, hardened surfaces while the middle rack only guides the combination bars without supporting them.

Support plate made "U" section for greater rigidity.

MAIN BASE ASSEMBLY

Mounting bars carrying the rubber feet are extended to support and guide the keyboard unit while it is being removed.

Rearranged electrical components and wiring. The 6 point terminal strip is replaced by a 10 point.

On machines with governed motors the R.I.S. is improved.

The Perforator driving shaft, formerly mounted on the Main Base casting, is transferred to the Perforator Link Unit on the keyboard.

On the No.7P, the shaft behind the Message desk is reduced to half its length and a guard provided (Fig. 5).

MOTOR

The mounting is strengthened, making it unnecessary to pack the motor separately for shipment.

A knob is added to the shaft of ungoverned motors to facilitate turning the machine by hand.

As a safety measure, a hinged guard is provided to cover the knob or governor.

Summary of 2nd Stage modifications

Machine Serial No. 3014 (67P) Sept. 1954 and onwards

AUTO-TRANSMITTER

The striker pattern head and improved control unit, which advanced the model number of the Teleprinter Automatic Transmitter from 6S/4 to 6S/5, are introduced.

Summary of 3rd Stage modifications

Machine Serial Nos. 3039 (Sept. 1954) and onwards

PERFORATING UNIT

To prevent the possibility of damage should the operator inadvertently depress a key while back-spacing, the Back-Space Pawl is made compliant.

Various minor changes to facilitate manufacture have been made to the Punch Block Unit, Punch Block Head and Fulcrum, Anvil Bracket and Perforator Link Unit.

An improved design of Cuttings Box and Cuttings Chute has been introduced.

The Tape Guide is now latch operated to facilitate threading the beginning of a fresh tape into the Punch Block.

INTRODUCTION AND ORDERING INSTRUCTIONS

THIS Part List has been compiled to assist our customers in identifying and ordering spare parts for the following Teleprinter Perforators and Perforator/Auto-Transmitters:-

No. 7P TELEPRINTER PERFORATOR

Model 7P/N3 with 3-row keyboard.

Model 7P/N4 with 4-row Shift-lock or partial Shift-lock keyboard.

Model 7P/CTK with 4-row Commercial Typewriter Keyboard with Auto. case-change and, if required, code-change "Shift" key.

No. 67P TELEPRINTER PERFORATOR/AUTO-TRANSMITTER

<i>Model</i>	<i>Transmission</i>	<i>Keyboard</i>
67BP/N3	7½ Unit	} 3-row
67CP/N3	7 Unit	
67BP/N4	7½ Unit	} 4-row Shift-lock or partial Shift-lock.
67CP/N4	7 Unit	
67BP/CTK	7½ Unit	} 4-row Commercial Typewriter Keyboard with Auto case-change and, if required, code-change "Shift" key.
67CP/CTK	7 Unit	

END-OF-LINE INDICATOR: is fitted as standard on all models.

PERFORATING UNIT: to punch either centre or advanced feed hole tape is optional on all machines.

MOTORS ON No. 7P Ungoverned (Induction) for A.C.
Governed (Series) for D.C.

MOTORS ON No. 67P Governed (Series) for A.C.
Governed (Series) for D.C.

Universal AC/DC motors are not available on any model.

When referring to the list, it should be noted that the suffix letters "C.P." indicate "a complete part" which is an assembly of two or more smaller parts. The term "unit" is applied in general, to each distinct section of the mechanism which is mounted on its own sub-base, and may be easily removed as a whole from the machine.

Note.— When a part is being ordered, the following information should be given:

1. Part Name
 2. Part Number
 3. Model of Machine
 4. Machine Serial Number
- } as shown on nameplate.

Sets of Recommended Spares

Telegraph communication services frequently impose the difficulty that isolated machines or groups of machines are disposed at widely separated and often remotely located stations, and the holding of an adequate range of spares at locations convenient to the maintenance personnel, even if many items are only occasionally used, is a wise precaution to safeguard against interruption of the service.

If sets of recommended parts are ordered when purchasing new machines, then, at the end of the first year of operation, customers should be in a position to judge from their own experience their future spares requirements and to re-order the requisite quantities of those parts which have been used, before a safe minimum stock figure is reached.

A list of recommended spares for the above machines can be supplied on application.

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SECTION I

MODELS OF

No. 7P TELEPRINTER PERFORATOR

AND

No. 67P TELEPRINTER

PERFORATOR/AUTO-TRANSMITTER

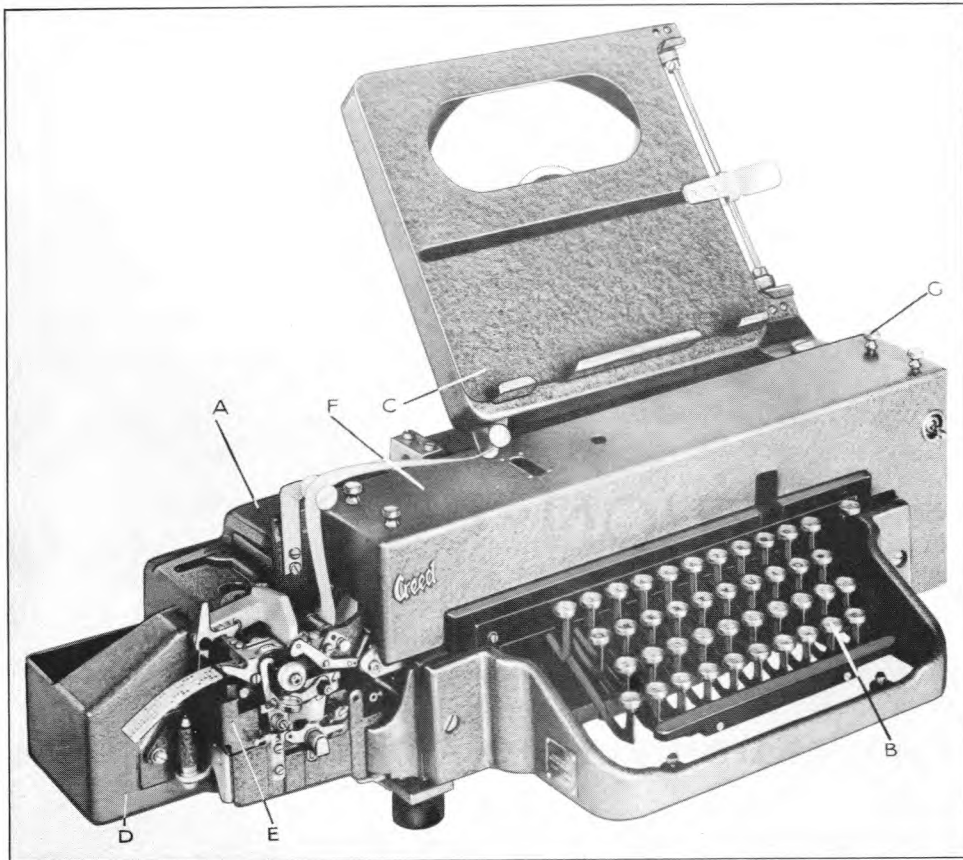


Fig. 1 TELEPRINTER
PERFORATOR MODEL 7P/N4

NOTE:

Corresponding 3-row machine is
Model 7P/N3

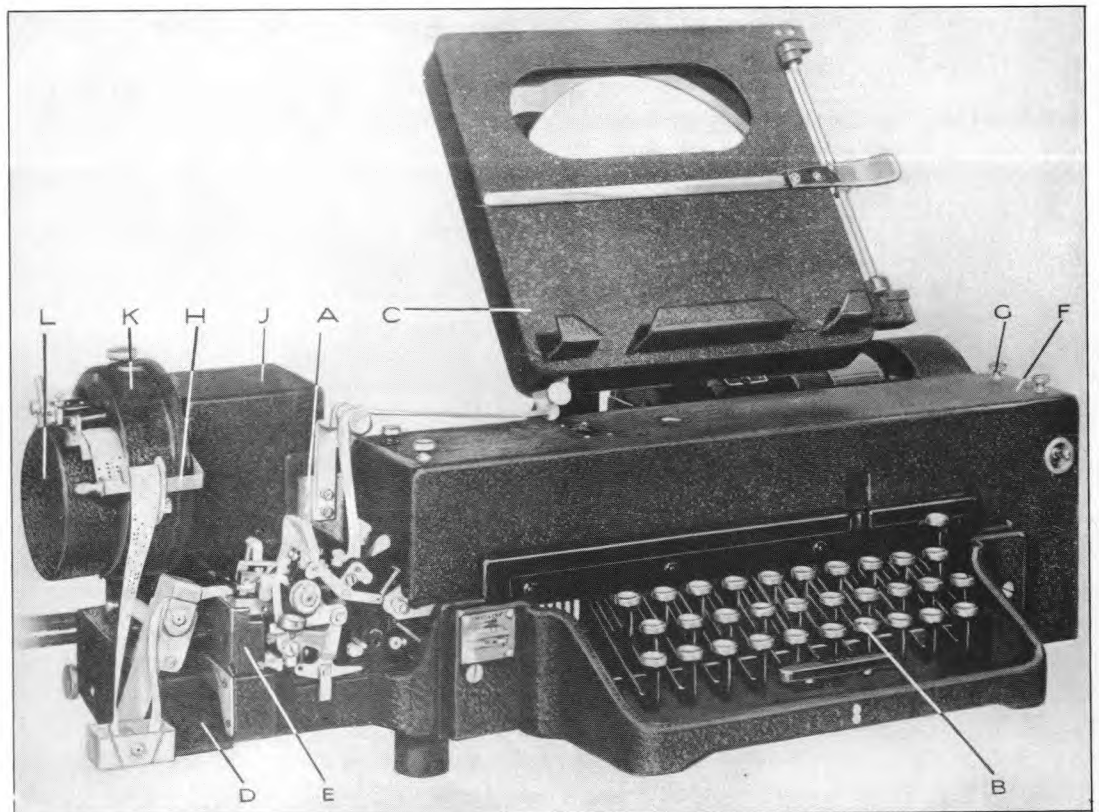


Fig. 2 TELEPRINTER
PERFORATOR/
AUTO-TRANSMITTER
MODEL 67P/N3

NOTE:

Corresponding 4-row
machine is Model 7P/N4

**SECTION 1
MODELS**

MODELS 7P/N3 AND 7P/N4 TELEPRINTER PERFORATOR

(See Fig. 1)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
A		MAIN BASE ASSEMBLY	
B	S.2912B	KEYBOARD UNIT	
	PS.4583-1	Std. 5/16" BSF Screw	} 2 of each per set for securing item B (not visible)
	PW.4031	Std. 5/16" Spring Washer	
C	2060/40	TAPE BOX AND MESSAGE DESK UNIT	
	PS.4583-1	Std. 5/16" BSF Screw	} 3 of each per set for securing item C (not visible)
	PW.3061-1	Std. 5/16" Washer	
	1947/295	Cuttings Box Bracket C.P.	
	PS.1696-1	Std. 4BA Screw (3 per set)	
D	3785/54	Cuttings Box C.P.	
E	2060/176A	Perforator Guard Cover	
	PS.1676-1	Std. 4BA Screw	} 3 of each per set for securing item E
	PW.2027	Std. 4BA Spring Washer	
	1841/11	Coupling Disc	
F	2060/70	Cover C.P.	
G	PS.6207	Knurled Head Screw (4 per set)	

**MODELS 67P/N3 AND 67P/N4
TELEPRINTER PERFORATOR/AUTO-TRANSMITTER**

(See Fig. 2)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
A		MAIN BASE ASSEMBLY	
B	S.2912B	KEYBOARD UNIT	
	PS.4583-1	Std. 5/16" Screw	} 2 of each per set for securing item B (not visible)
	PW.4031	Std. 5/16" Spring Washer	
C	2060/40	TAPE BOX AND MESSAGE DESK UNIT	
	PS.4583-1	Std. 5/16" BSF Screw	} 3 of each per set for securing item C (not visible)
	PW.3061-1	Std. 5/16" Washer	
	2060/76	Cuttings Box C.P.	
E	2060/176A	Perforator Guard Cover	
	PS.1676-1	Std. 4BA Screw	} 3 of each per set for securing item E
	PW.2027	Std. 4BA Spring Washer	
	1841/11	Coupling Disc	
F	2060/70	Cover C.P.	
G	PS.6207	Knurled Head Screw (4 per set)	
H	1550/640	TAPE CONTROL UNIT	
	PS.1354-1	Std. 2BA Screw (2 per set for securing item J)	
J	2060/66	Cover	
	PS.1714-1	Std. 4BA Screw (3 per set for securing item K)	
K	1550/294	TRANSMITTER STAND C.P.	
	1550/263	Packing shim (thick)	} fitted as required below item L for aligning driving spindle
	1550/277	Packing shim (thin)	
	PS.1037-1	Std. OBA Screw	} 2 of each per set for securing item L
	PW.2002	Std. OBA Spring Washer	
L	S.3797	TRANSMITTER HEAD C.P.	

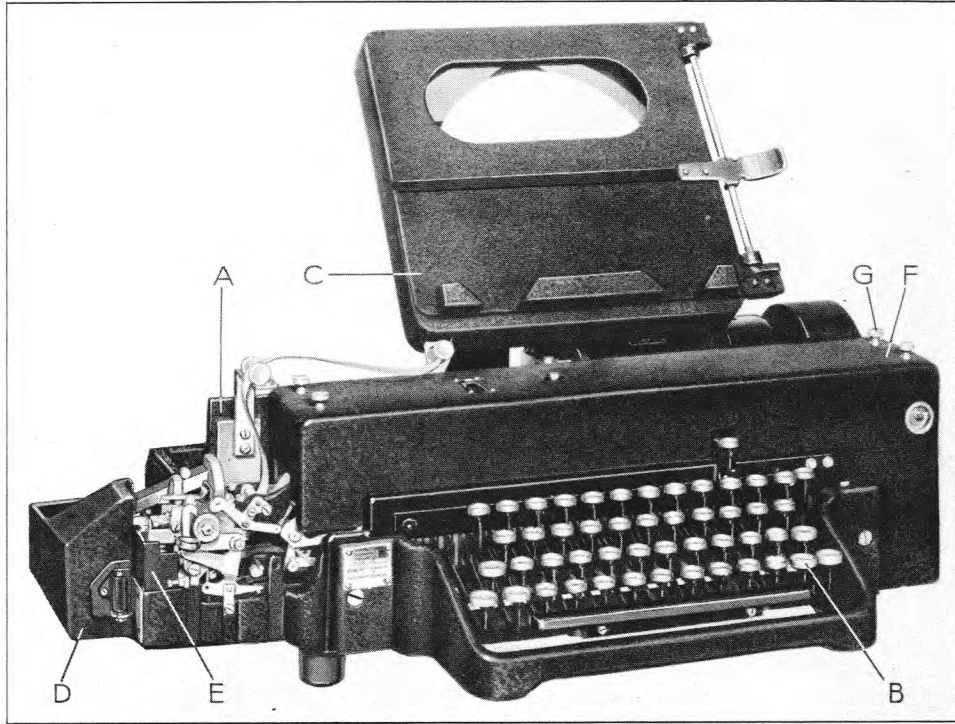


Fig. 3
TELEPRINTER
PERFORATOR
MODEL 7P/CTK

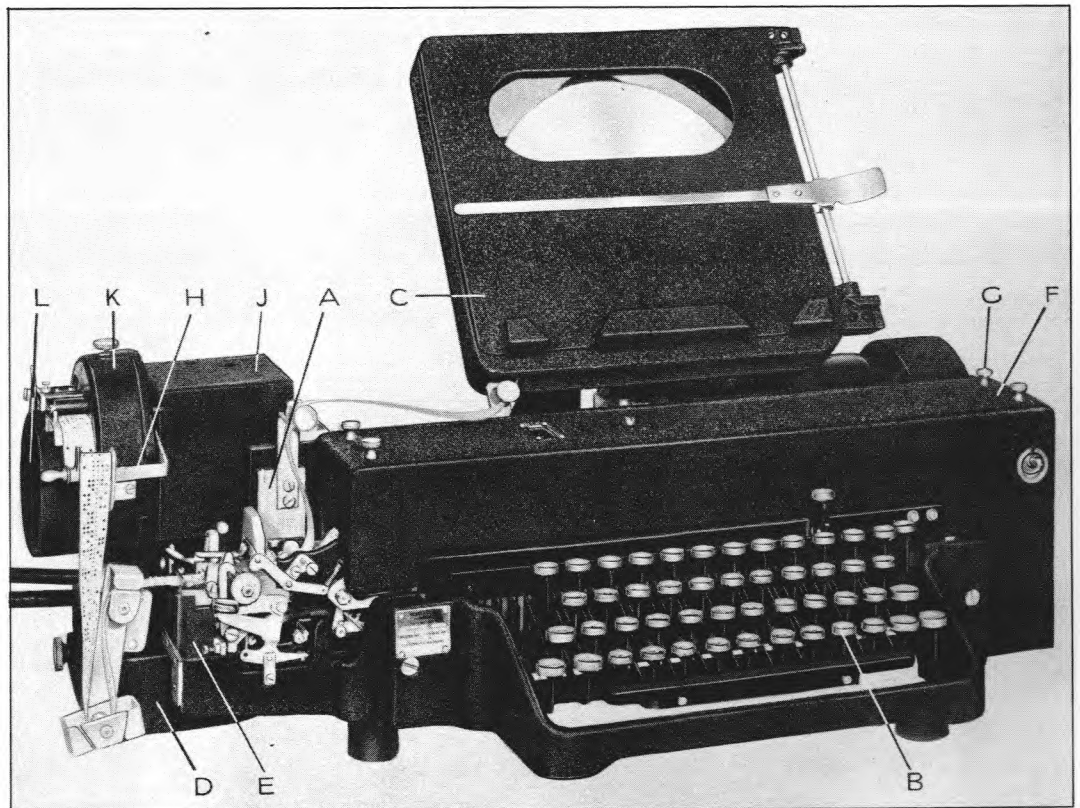


Fig. 4
TELEPRINTER
PERFORATOR AUTO-
TRANSMITTER
MODEL 67P CTK

MODEL 7P/CTK TELEPRINTER PERFORATOR

(See Fig. 3)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
A	S.2824D	MAIN BASE ASSEMBLY	See page 13
B	PS.4583-1	KEYBOARD UNIT	See page 25
	PW.4031	Std. 5/16" BSF Screw } (for securing item B, Std. 5/16" Spring } not visible) Washer } 2 per set	
C	2060/40	TAPE BOX AND MESSAGE DESK UNIT	See page 19
	PS.4583-1	Std. 5/16" BSF Screw } 3 of each per set for	
	PW.3061-1	Std. 5/16" Washer } securing item C (not visible)	
	1947/295	Cuttings Box Bracket C.P.	
	PS.1696-1	Std. 4BA Screw (3 per set)	
D	3785/54	Cuttings Box C.P.	
E	2060/176A	Perforator Guard Cover	
	PS.1676-1	Std. 4BA Screw } 3 of each per set for	
	PW.2027	Std. 4BA Spring Washer } securing item E	
	1841/11	Coupling Disc	
F	2060/70	Cover C.P.	
G	PS.6207	Knurled Head Screw (4 per set)	

MODEL 67P/CTK TELEPRINTER PERFORATOR/AUTO-TRANSMITTER

(See Fig. 4)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
A	S.2824D	MAIN BASE ASSEMBLY	See page 13
B	PS.4583-1	KEYBOARD UNIT	See page 25
	PW.4031	Std. 5/16" BSF Screw } (for securing item B, Std. 5/16" Spring } not visible) Washer } 2 per set	
C	2060/40	TAPE BOX AND MESSAGE DESK UNIT	See page 19
	PS.4583-1	Std. 5/16" BSF Screw } 3 of each per set for	
	PW.3061-1	Std. 5/16" Washer } securing item C (not visible)	
D	2060/76	Cuttings Box C.P.	
E	2060/176A	Perforator Guard Cover	
	PS.1676-1	Std. 4BA Screw } 3 of each per set for	
	PW.2027	Std. 4BA Spring Washer } securing item E	
	1841/11	Coupling Disc	
F	2060/70	Cover C.P.	
G	PS.6207	Knurled Head Screw (4 per set)	
H	1550/640	TAPE CONTROL UNIT	See page 69
	PS.1354-1	Std. 2BA Screw (2 per set for securing item J)	
J	2060/66	Cover	
	PS.1714-1	Std. 4BA Screw (3 per set for securing item K)	
K	1550/294	TRANSMITTER STAND C.P.	See page 71
	1550/263	Packing Shim (thick) } fitted as required below item L	
	1550/277	Packing Shim (thin) } for aligning driving spindle	
	PS.1037-1	Std. OBA Screw } 2 of each per set for	
	PW.2002	Std. OBA Spring Washer } securing item L	
L	S.3797	TRANSMITTER HEAD C.P.	See page 63

SECTION 2

MAIN BASE

(ALL MODELS)

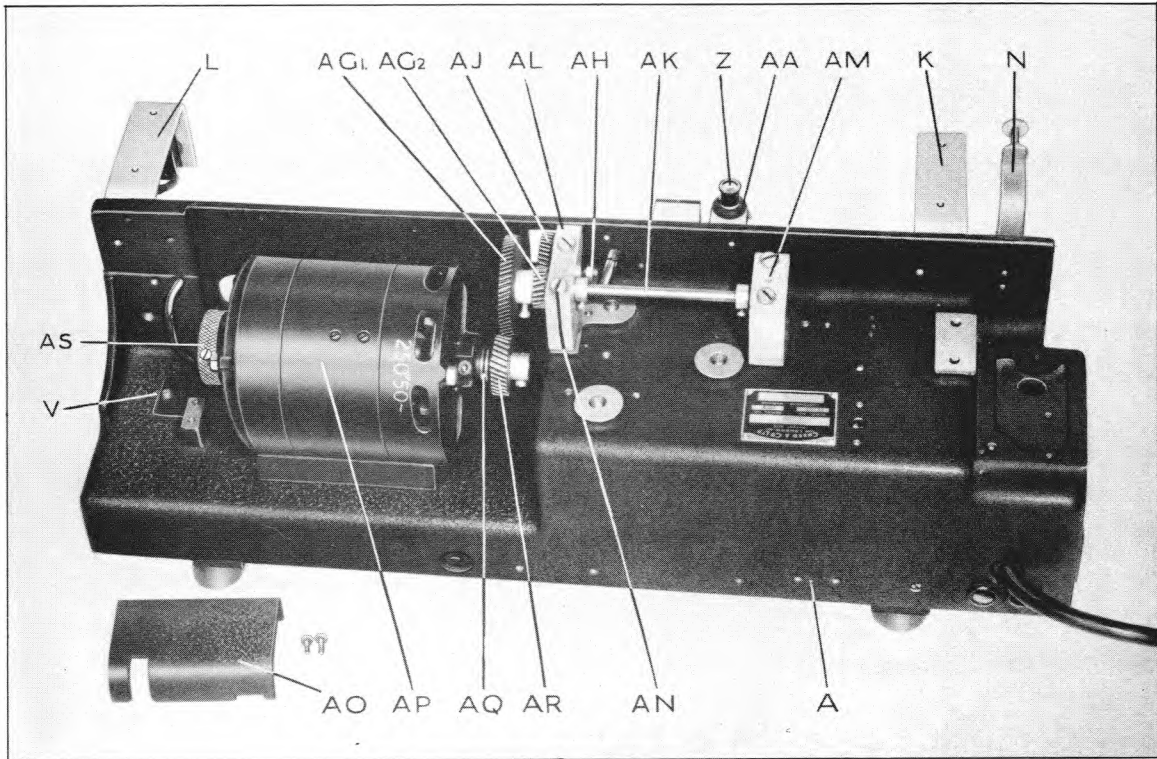


Fig. 5 No. 7P MAIN BASE ASSEMBLY (FRONT VIEW)

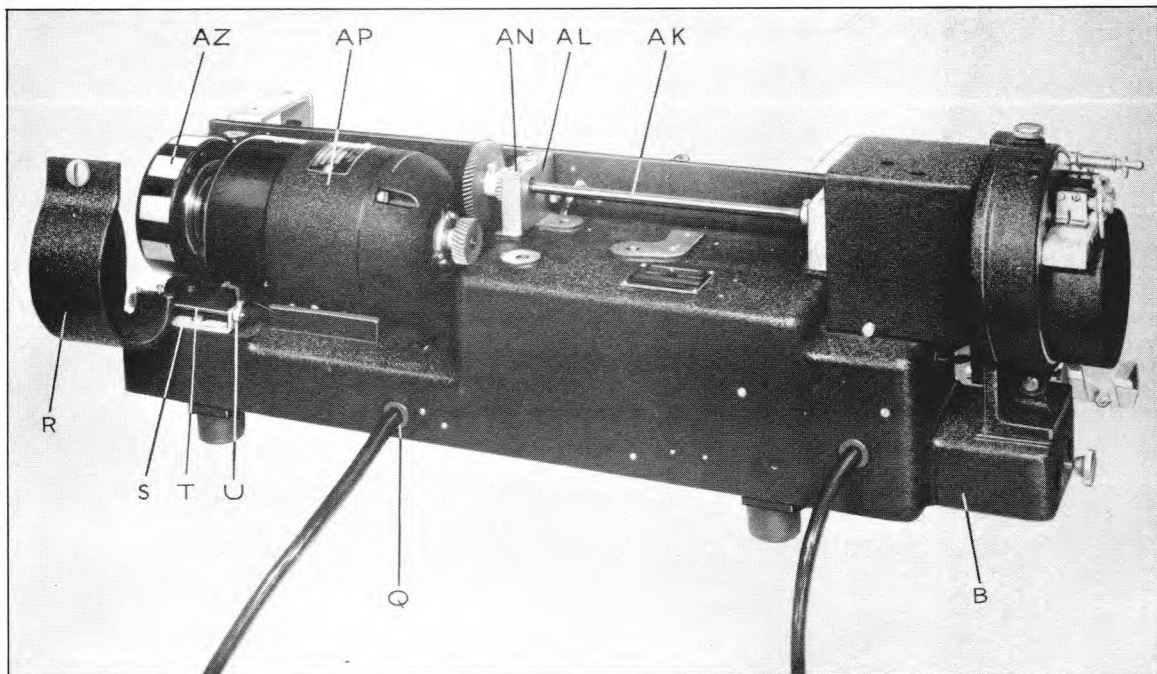


Fig. 6. No. 67P MAIN BASE ASSEMBLY (REAR VIEW)

MAIN BASE ASSEMBLY

(See Figs. 5, 6, 7 and 8)

ALL MODELS

Index Letter	Part No.	Part Name	
<i>Casting, Rubber Feet and Cover Support Bracket</i>			
A	2060/3A	Base Casting, machined and enamelled casting (for 7P only)	
	2060/150	or Base Casting C.P. comprises machined and enamelled casting with pins driven in together with the following replaceable parts (for Model 67P only).	
B	2060/184	Transmitter Platform	} For Model 67P only.
C	2060/81	Cuttings Box Screw	
D	PW.1033-1	Std. 4BA Washer	
E	PP.5018	Split pin	
	PS.1342-1	Std. 2BA Screw (2 per set) for securing item B	
F	2060/143	Mounting Bar (2 per set)	
G	PS.1376-1	Std. 2BA Screw (4 per set) for securing item F	
H	1836/69	Rubber Foot	} 4 of each per set
J	PS.5552	Special Screw	
K	2060/27	Cover Support	
L	2060/44	Cover Support and Switch Bracket	
M	PS.1322-1	Std. 2BA Screw (4 per set) for securing item K and item L	
N	2060/24	Tape Guide Bracket C.P.	
O	PS.1687-1	Std. 4BA Screw (2 per set) for securing item N	
P	PE.5031	Rubber Grommet	} 2 of each per set
Q	BO.2861	Rubber Grommet	
R	2060/189	Governor Shield C.P.	} For machines with governed motors only.
S	2060/190	Hinge Bracket	
	PS.1678-1	Std. 4BA Screw (2 per set)	
T	2060/193	Hinge Rod	
U	CS.1032	Set Collar and Screw (2 per set)	
V	PS.2077-1	Std. 6BA Screw	
	2060/173	Aperture Cover (for machines with ungoverned motors only)	
	PS.2045-1	Std. 6BA Screw (2 per set) for securing item V.	
<i>End of Line Indicator Parts</i>			
W	2060/102A	Lamp Bracket Support C.P. includes:-	
X	BO.2673	Lamp Holder	
Y	BO.2671	Socket (2 per set)	
Z	BO.2512	Lamp (6 volt)	
AA	2085/81	Lamp Insulating Sleeve	
AB	PK.2042	Cable Cleat	
AC	BO.2002	Insulating Sleeve	
	PS.1687-1	Std. 4BA Screw (2 per set) for securing item W and item AB.	
AD	BO.2667	Resistor 300 + 3500 ohms (for 200/250 volt)	} Voltage dropping Resistor
	BO.2668	or Resistor 500 + 1500 ohms (for 100/120 volt)	
	PS.1659-1	Std. 4BA Screw (2 per set) for securing item AD	
AE	2060/161	Terminal Block Insulator	
AF	2060/196	Terminal Block C.P. (4-way)	
	PS.2157-1	Std. 6BA Screw (2 per set) for securing item AF	
<i>Shafts and Gearing</i>			
	2978/1	Transmitter driving shaft C.P. (for Model 7P only)	} For Model 67P only
	2060/14A Gr.1or	Transmitter driving shaft C.P. (7½ unit 50 baud)	
	2060/14A Gr.2or	Transmitter driving shaft C.P. (7 unit 50 baud)	
	2060/14A Gr.4or	Transmitter driving shaft C.P. (7½ unit 45.5 baud)	
	2060/15	Compound Gear C.P. comprises:-	} comprises.
AG1	GR.2073	Helical Gear (60 teeth)	
AG2	GR.2063	Helical Gear (24 teeth)	
	PS.2109-1	Std. 6BA Screw (3 per set) for securing item AG1 to AG2.	
	PS.1687-1	Std. 4BA Screw (for securing Compound Gear C.P.).	
AH	PS.5550	Special Screw (spindle for item AJ).	
AJ	GR.2064	Idler Gear C.P.	
	PW.4016	Std. 2BA Spring Washer	} for securing item AJ
	PN.1005-1	Std. 2BA Nut	
AK	2060/158	Transmitter Shaft (for Model 7P)	
	2060/11	or Transmitter Shaft (for Model 67P)	
AL	2060/5	Main Bearing Block C.P. includes:-	
	2060/48	Oil impregnated bush (parallel)	

SECTION 2 (contd.)
MAIN BASE

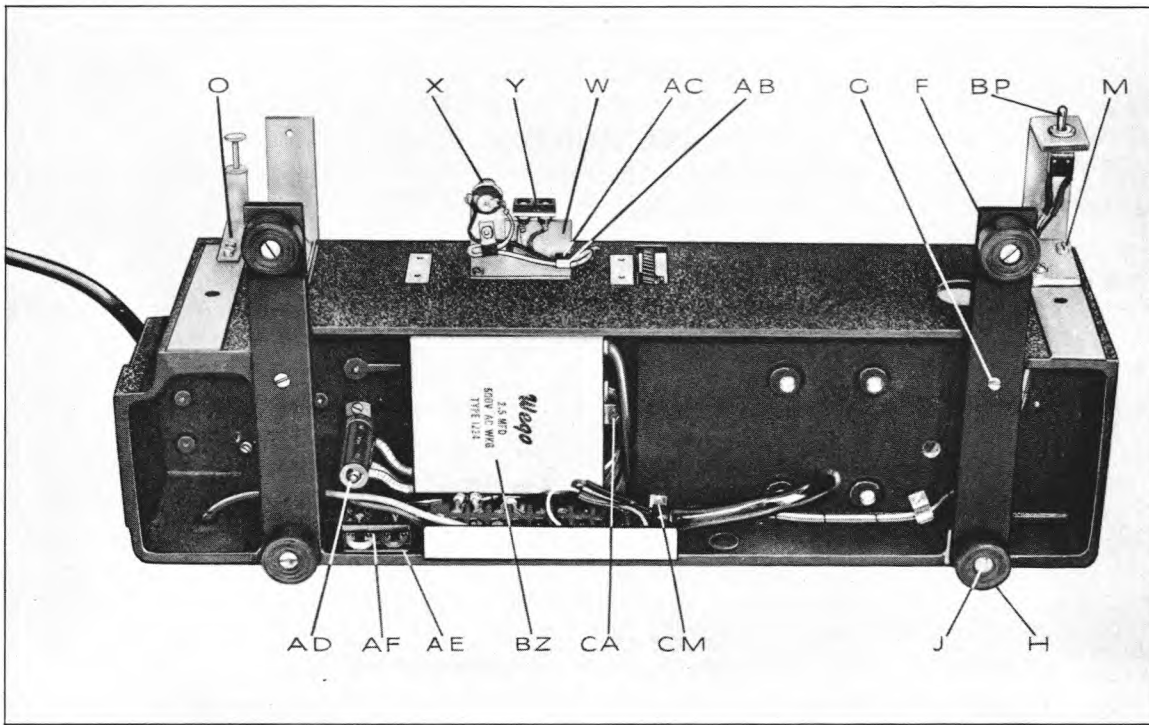


Fig. 7 No. 7P MAIN BASE ASSEMBLY (UNDERSIDE)

MAIN BASE ASSEMBLY (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
AM	2060/13 2060/47 CS.1081 GR.2061 GR.2082 GR.4054	Bearing Block C.P. includes:- Oil impregnated bush (parallel) Set collar and screw (2 per set) For retaining item AK. Helical Gear (32 teeth) 7½ unit 50 bauds or Helical Gear (30 teeth) 7 unit 50 bauds or Helical Gear (31 teeth) 7½ unit 45.52 bauds
		} For Model 67P only. Not visible. Drives Tape Control Unit.
AN	PS.1659-1 PS.1500-1	Std. 4BA Screw (for securing Helical Gear) Std. 2BA Screw (4 per set) for securing Transmitter driving shaft C.P.
AO	2060/160 PS.2079-1	Driving Shaft Cover C.P. Std. 6BA Screw (2 per set) for securing item AO
		} for Model 7P only.

Motor, and Governor Brushes

AP	Ref.125A Ref.151A Ref.150A Ref.161A Ref.162A Ref.160 Ref.150A Ref.151A Ref.152A Ref.158	Motor (Induction type) or Motor (D.C. Governed) or Motor (A.C/D.C Governed) or Motor (D.C. Governed) or Motor (A.C. Governed) or Motor (A.C/D.C Governed) or Motor (A.C/D.C Governed) or Motor (D.C. Governed) or Motor (A.C. Governed) or Motor (D.C. Governed)	} for Model 7P/N } for Models 7P/CTK and 67P/CTK } for Model 67P/N
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NOTE: When ordering please state voltage and, if A.C., the frequency.

AQ	AA1/2 12431 PW.5506	Motor Brush C.P. (for all governed motors) Ball Bearing Thrust Washer	} for use with Ref.125A Induction type Motor only.
AR	GR.2138 GR.2080 PS.1729-1 PS.1659-1	Motor Pinion (35 teeth) or Motor Pinion (32 teeth) for use with all governed motors. Std. 4BA Screw (for securing item AR) or Std. 4BA Screw (for securing GR.2080)	

MAIN BASE ASSEMBLY (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
AS	2060/178	Handwheel	} for use with Ref.125A Induction Type Motor only.
	PS.1339-1	Std. 2BA Grub Screw	
AT	PS.1416-1	Std. 2BA Grub Screw	} 4 of each per set, for adjusting height of motor.
AU	PW.2013	Std. 2BA Spring Washer	
AV	PN.1505-1	Std. 2BA Locknut	
AW	PS.1210-1	Std. 1BA Screw	} 2 of each per set, for securing motor.
AX	PW.2009	Std. 1BA Spring Washer	
AY	PW.1003-1	Std. 1BA Washer	
	2060/157	Governor Brush Block C.P. comprises:-	
	1824/31	Insulating Block	
	1824/9A	Fixing Plate (2 per set)	
	PS.2095-1	Std. 6BA Screw	} for securing fixing plates, 1 per plate.
	PN.1013-1	Std. 6BA Nut	
	CT.1098	Connection Tag	} 2 of each per set.
	PC.2504A	Governor Brush C.P.	
	PG.2021A	Backing Spring	
	1824/10	Clamping Plate	
	PS.2157-1	Std. 6BA Screw (for securing clamping plates) 2 per plate	
	2060/16	Bracket	
	PS.2157-1	Std. 6BA Screw (2 per set) for securing 2060/16	
	PS.1717-1	Std. 4BA Screw (2 per set) for securing Governor Brush Block C.P.	
AZ	S.1910	Governor Unit	

See page 18

Motor Circuit Components

	2060/134A	Governor R.I.S. C.P. comprises:-	
	2060/137	Mounting Plate C.P.	
BA	2266/3	Inductor Coil (1000 uH) 2 per set	
	PE.5068	Insulating Flanged Bush	} 3 of each per set
	PE.5069	Insulating Washer	
BB	PS.1687-1	Std. 4BA Screw	} For securing item BA
BC	PW.1009-1	Std. 4BA Washer	
BD	2841/53	Terminal Base	
	CT.1068	Connection Tag	} 2 of each per set
	2841/52	6BA Square Nut	
BE	PS.2126-15	Std. 6BA Screw	
	2060/111	Terminal Block Insulation	
BF	PS.1717-1	Std. 4BA Screw (2 per set)	
BG	2060/113A	R.I.S. Capacitor C.P. comprises:-	
	BO.2659	Capacitor (0.1 uF)	
	PK.2079	Capacitor terminal clip	
	PS.2061-1	Std. 6BA Screw	} For securing PK.2079
	PW.1013-1	Std. 6BA Washer	
	PN.1013-1	Std. 6BA Nut	
	CT.1026	Connection Tag (2 per set)	
BH	2060/136	Insulating Plate	
BJ	2060/135	Insulating Strip	
BK	PK.1110	Capacitor Strap	
	PS.1676-1	Std. 4BA Screw (for securing item BK)	
BL	2060/168	Resistor Support Block	
	PS.2189	Std. 4BA Screw	} for securing item BL
	2841/52	Std. 6BA Square Nut	
BM	BO.2724	Vitreous Resistor, 5 ohms, (2 per set)	
	BO.1701	Insulating Bead (4 per set)	
	PE.1140	Insulating Sleeve	
	PE.1139	Insulating Sleeve	
BN	PS.1694-1	Std. 4BA Screw	} 3 of each per set for securing Governor R.I.S., C.P.
	PW.2026	Std. 4BA Spring Washer	
	PW.1009-1	Std. 4BA Washer	
BO	2060/141	Base Cover (for Governor R.I.S., C.P.)	
	PS.1694-1	Std. 4BA Screw	} for securing Base Cover
	PW.2026	Std. 4BA Spring Washer	
	PW.1009-1	Std. 4BA Washer	

SECTION 2 (contd.)
MAIN BASE

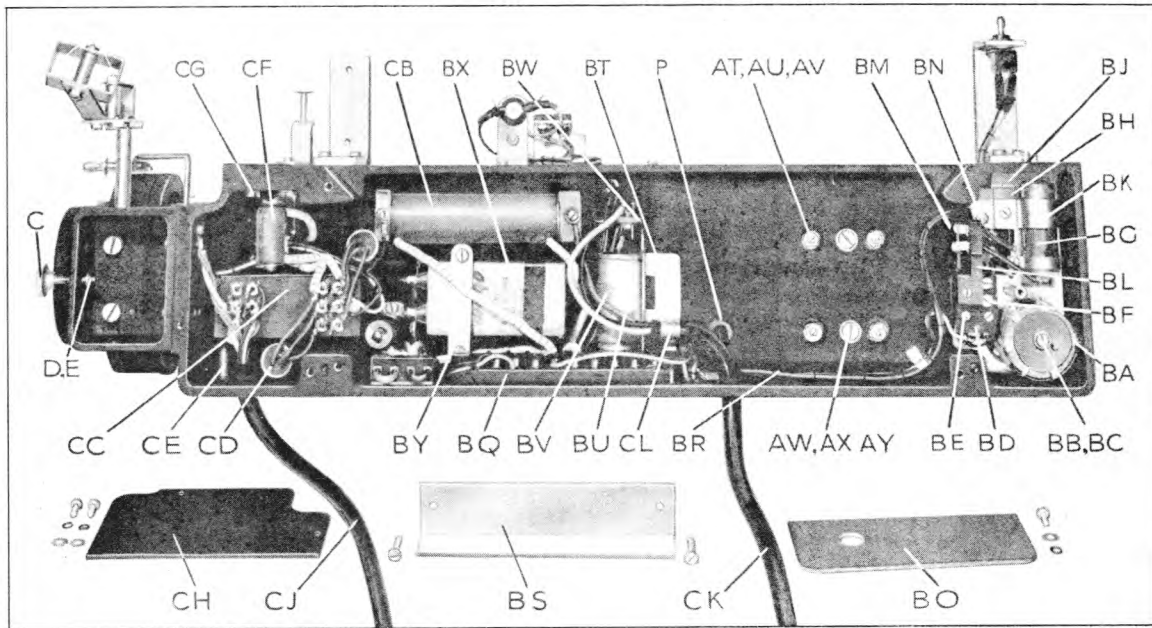


Fig. 8 No. 67P MAIN BASE ASSEMBLY (UNDERSIDE VIEW)

MAIN BASE ASSEMBLY (CONTD.)

Index Letter	Part No.	Part Name	
BP	BO.2663	Motor Switch	
BQ	2060/195	Terminal Block and Cable Form C.P. comprises:-	
	1818/7	Terminal Strip C.P. (10 way)	
BR	CF.1386A	Cable Form (For Model 7P or 67P using governed motors)	
	CF.1457A	or Cable Form (For Model 7P/N only when fitted with ungoverned motor)	
BS	CF.1383C	Cable Form (For Model 7P or 67P using governed motor)	
	CT.1095	Connecting Wire	
	PE.1135	Insulating Sleeve	
	CT.1096	Connecting Wire	
	PE.1136	Insulating Sleeve	
	CT.1017	Connector (2 per set)	
	2060/128	Terminal Guard	
	PS.1761-1	Std. 4BA Screw (2 per set) for securing item BS and Terminal Block and Cable Form C.P.	
	2060/166A	Mains Suppressor Unit C.P. comprises:-	
	2060/165	Suppressor Bracket	
BU	2060/181	Capacitor C.P. includes:-	
	BO.1840A	Capacitor (.25 uF + 0.1 uF + 0.1 uF)	
BV	2060/164	Capacitor Clip	
	PS.2079-1	Std. 6BA Screw	
	PW.2037	Std. 6BA Spring Washer	
	PW.1013-1	Std. 6BA Washer	
	PN.1013-1	Std. 6BA Nut	
BW	2060/163	Terminal Strip	
	PS.2077-1	Std. 6BA Screw	
	PW.1013-1	Std. 6BA Washer	
	PN.1013-1	Std. 6BA Nut	
	CF.1452	Cable Form	
	PS.2063-1	Std. 6BA Screw (2 per set) for securing Mains Suppressor Unit C.P.	
			for securing item BU
			3 of each per set for securing item BW to item BT

MAIN BASE ASSEMBLY (CONTD.)

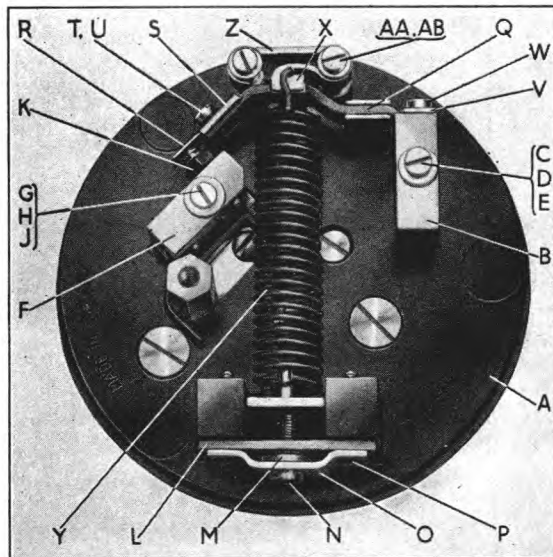
<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
BX	BO.2649	R.I.S. Capacitor (0.5 uF) } for Models 67P and
	BO.2652	R.I.S. Capacitor (0.5 uF + 330 ohms) } 7P/CTK only.
BY	PK.1044	Capacitor Strap } for retaining Capacitors
	PS.5357	Std. 4BA Screw }
BZ	BO.1808B	Capacitor (10 uF) for 110 volt induction motor } Model
	BO.1809B	or Capacitor (2.5 uF) for 220 volt induction motor } 7P only
CA	PS.1694-1	Std. 4BA Screw } 2 of each per set, for securing item BZ
	PW.1009-1	Std. 4BA Washer }
CB	2060/174	Governing Resistor C.P. includes:-
	BO.2885/3	Resistor (1000 ohms) for Model 7P/N with D.C. governed motors only.
	BO.2885/2	or Resistor (2000 ohms) for Models 67P, 7P/CTK and 67P/CTK with A.C. or D.C. governed motors.
	PS.1694-1	Std. 4BA Screw } 2 of each per set for securing item CB.
	PW.1009-1	Std. 4BA Washer }

Signalling Circuit Components (MODEL 67P only)

CC	2060/172	Transmitter Suppressor Unit C.P. comprises:-
	S.2878	Transmitter Suppressor Unit, includes:-
	2263/6	Inductor 500 uH (6 per set)
CD	2060/171	Capacitor C.P. (.005 + .005 + .005 uF) 2 per set.
	CF.1458	Cable Form
	CF.1412	Cable Form
	PS.2062-15	Std. 6BA Screw } Earthing point for item CD.
	PW.1014-15	Std. 6BA Brass Washer } (not visible)
	PS.2253-1	Std. 6BA Screw } 2 of each } for securing Transmitter
	PW.1013-1	Std. 6BA Washer } per set } Suppressor Unit C.P.
	PW.2037	Std. 6BA Spring Washer }
	PN.1013-1	Std. 6BA Nut }
CE	PB.4139	Support Pillar
CF	2060/179	Resistor C.P. (50 ohms)
	2060/180	Resistor C.P. (50 ohms) not visible behind item CF.
CG	PS.1659-1	Std. 4BA Screw (4 per set) for securing item CF and 2060/180.
CH	2060/140	Base Cover L.H.
	PS.1687-1	Std. 4BA Screw } 2 of each per set, for securing
	PW.1009-1	Std. 4BA Washer } item CH.
	PW.2026	Std. 4BA Spring Washer }

Plugs, Cords and Sockets

CJ	CD.1281 Gr.3	9-way Plug and Cord Assembly includes:-	} For Model 67P only.
	CD.1267	9-way Cord	
	CD.1282 Gr.3	or 12-way Plug and Cord Assembly includes:-	
	CD.1277	12-way Cord	
	BO.2679	9-way Socket	} For Models 67P and 7P.
	BO.2694	or 12-way Socket	
CK	CD.1270 Gr.3	3-way Plug and Power Cord Assembly includes:-	} For Models 67P and 7P.
	CD.1273	3-way Cord	
	BO.2670	3-way Socket (5 amp).	
CL	PK.1097	Cable Cleat	} for securing item CL (Model 7P only).
	PS.1803-1	Std. 4BA Screw	
	PW.2026	Std. 4BA Spring Washer	
	PN.1009-1	Std. 4BA Nut	} for securing item CL. (Model 67P only)
	PS.2077-1	Std. 6BA Screw	
	PW.1013-1	Std. 6BA Washer	
	PE.1165	Insulating Sleeve	
CM	PK.2042	Cable Cleat	} Earthing point for signal cord.
	PS.1676-1	Std. 4BA Screw (for securing item CM)	
	PS.1676-1	Std. 4BA Screw	
	PW.1009-1	Std. 4BA Washer	



**SERIES
GOVERNOR UNIT
S.1910**

(See Fig. 9)

State bore and speed when ordering,
 $\frac{5}{16}$ " and 1,500 r.p.m. are standard.

Fig. 9

Index Letter	Part No.	Part Name
A	1910/33	Governor base sub. C.P. 5/16" bore, comprises base moulding assembled with slip rings, governor boss and the following replaceable parts:-
B	1910/5A	Contact arm mounting block
C	PS.2205-1	Std. 6BA screw
D	PW.4002	6BA spring washer
E	PW.1013-1	Std. 6BA washer
F	1910/13	Contact block
G	PS.6097	Special screw
H	PW.4002	6BA spring washer
J	PW.1013-1	Std. 6BA washer
K	PC.3006	Contact screw
L	PW.5573	Special washer (under Item L) not visible.
M	1910/17A	Governor spring plate
N	PW.5547	Special washer
O	PS.7034	Special screw
P	1910/96	Governor spring clamping plate
Q	PS.2159-1	Std. 6BA screw (2 per set) for securing Item O.
R	1910/12	Contact arm C.P. comprises:-
S	1910/27A	Contact arm sub C.P.
T	1910/52	Contact blade C.P.
U	1910/51	Contact blade clamp
V	PW.2037	Std. 6BA spring washer
W	PS.2042-1	Std. 6BA screw
X	1910/6	Contact arm keep plate
Y	PS.2061-1	Std. 6BA screw
Z	1910/26	Contact arm saddle
AA	1910/19A	Governor spring C.P. - standard speed 1,500 r.p.m. Colour code: Yellow-Green.
AB	1910/88	Flanged bush (not visible, under Item Z)
	1910/87	Governor arm stop spring
	1910/89	Special washer
	PS.2173-1	Std. 6BA screw
	1910/76A	Governor Cover (not shown)
	PS.1693-1	Std. 4BA screw (for securing cover)

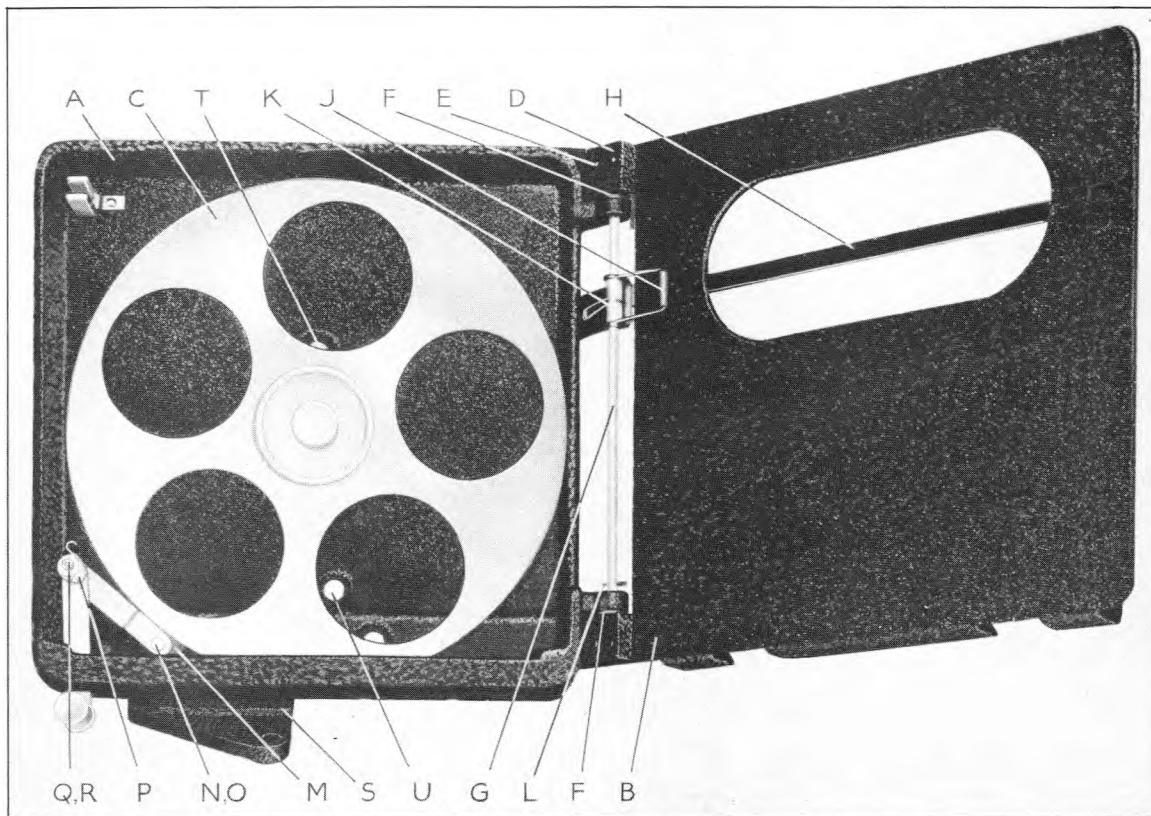


Fig. 10 TAPE BOX AND MESSAGE DESK UNIT 2060/40

TAPE BOX AND MESSAGE DESK UNIT 2060/40

(See Fig. 10)

ALL MODELS

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	2060/32	Tape box sub C.P.
B	2060/35	Desk C.P.
C	740/183B	Tape wheel C.P. (not supplied as part of tape box and desk unit 2060/40).
D	2060/63	Hinge ear
E	PS.2097-1	Std. 6BA screw (2 per set) for securing item D to item B.
F	PW.5224	Washer (2 per set)
G	2060/43	Hinge post
H	1847/4	Paper clip C.P.
J	PB.1095	Collar
K	PG.3015	Torsion spring (for item H)
L	CS.1049	Set collar and screw (2 per set) Stop for item H. (not shown)
M	2060/39	Tape wheel brake C.P. includes:-
N	2060/83	Brake block (leather)
O	2060/80	Special screw
P	PN.1013-1	Std. 6BA nut } for securing item M.
Q	PG.3062	Torsion spring
R	PW.1029-1	Std. 2BA washer (under tape wheel brake C.P.)
S	PW.1013-1	Std. 6BA washer } for securing tape wheel brake C.P.
T	PN.1013-1	Std. 6BA nut
U	2060/26	Message desk support
	PS.1354-1	Std. 2BA screw (3 per set) for securing item B to item S
	2060/68	Gear cover (not shown)
	PS.1554-1	Std. 2BA screw (2 per set) for securing gear cover

} Not supplied as part of tape box and desk unit 2060/40.

SECTION 3

KEYBOARDS

TYPE N3 KEYBOARD—3 ROW.

TYPE N4 KEYBOARD—4 ROW SHIFT-LOCK OR PARTIAL
SHIFT-LOCK.

TYPE CT. KEYBOARD—4 ROW COMMERCIAL TYPEWRITER KEYBOARD
WITH AUTO CASE-CHANGE AND, IF REQUIRED,
CODE CHANGE "SHIFT" KEY.

NOTE:- ALL KEYBOARDS HAVE SAW-TOOTH COMB BARS.

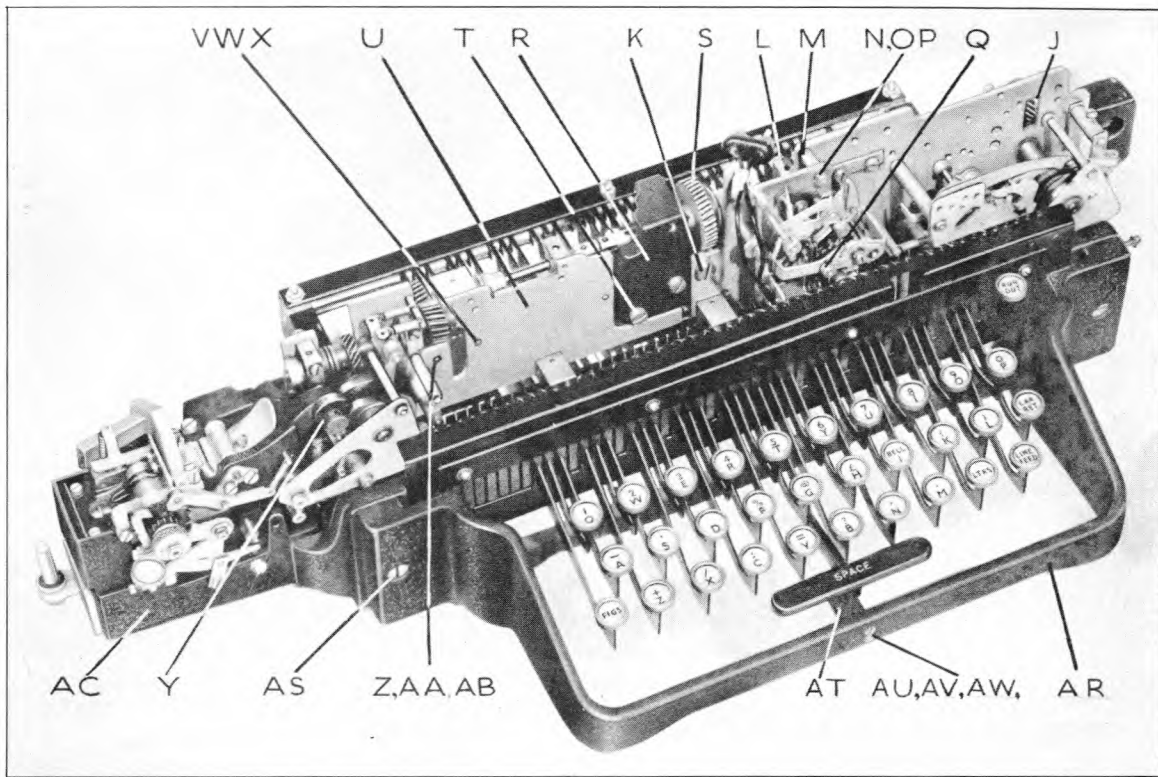


Fig. 11 TYPE N3 KEYBOARD UNIT S2912B

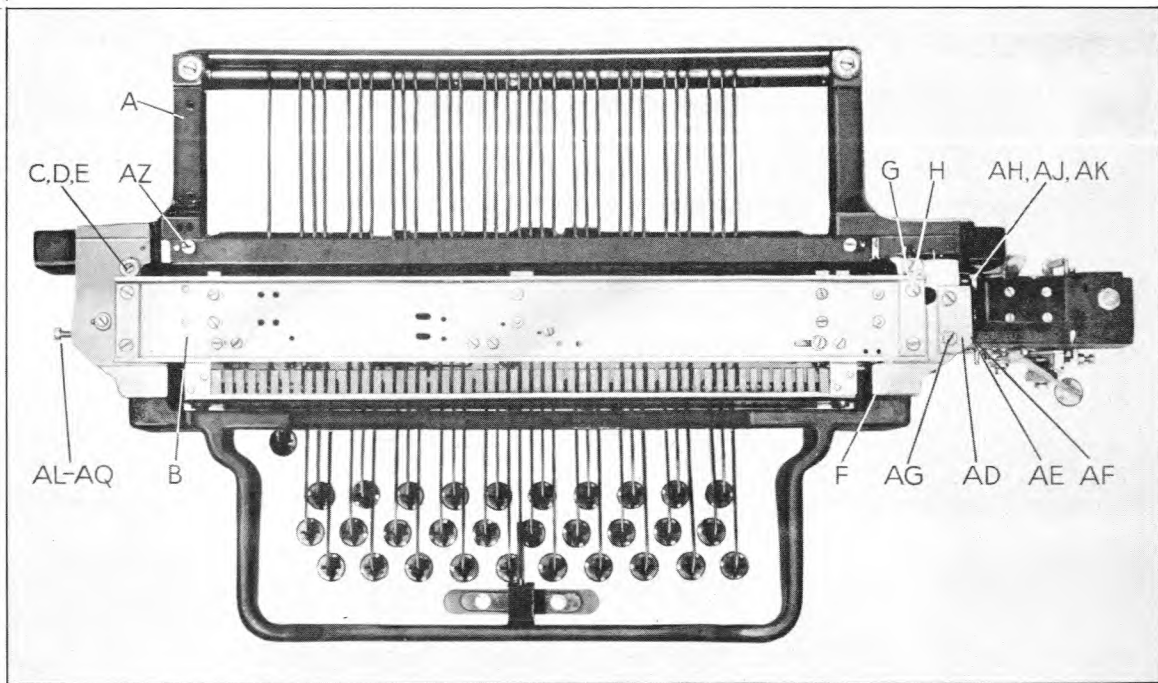


Fig. 12 TYPE N3 KEYBOARD UNIT S2912B (UNDERSIDE VIEW)

SECTION 3
KEYBOARDS

TYPE N3 AND N4 KEYBOARD UNIT S2912B

(See Figs. 11 and 12)

FOR ALL MODELS 7P/N3, N4 AND 67P/N3, N4

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>		
A		KEYBOARD PARTIAL ASSEMBLY	<i>See page 26</i>	
B	S.3707C	COMBINATION BAR UNIT	<i>See page 31</i>	
C	PW.5557	Special Washer (2 per set)	} For positioning	
D	PW.5620	Abutment Washer } 3 of each		
E	PS.1687-1	Std. 4BA Screw } per set	} Item B	
F	2060/142	Support Block (2 per set)		
G	PW.2026	Std. 4BA Spring Washer } 2 of each	} For securing	
H	PS.1708-1	Std. 4BA Screw } per block		} Item B
J	S.2303B	PERFORATOR OPERATING UNIT		
K	PS.5234	Special Screw (3 per set) for securing Item J	<i>See page 37</i>	
L	S.2258 Gr.4	COUNTER UNIT	<i>See page 47</i>	
	PW.1009-1	Std. 4BA Washer	} 3 of each per set	
	PW.2026	Std. 4BA Spring Washer		} for securing
	PN.1009-1	Std. 4BA Nut		
M	PP.8870	Support Pillar (3 per set)		
N	PW.1009-1	Std. 4BA Washer	} 3 of each	
O	PW.2026	Std. 4BA Spring Washer		} per set
P	PN.1009-1	Std. 4BA Nut (2 per set)	} for securing	
	PN.1509-1	Std. 4BA Locknut		} Item M
	2288/2	Counter Resetting Link (not visible)	} For machines fitted with	
Q	CS.1011	Set Collar and Screw		} Counter Unit only.
R	2912/1	Gear Bracket C.P. includes:-		
	PB.1207	Shouldered Bush		
	1855/154A	Secondary Shaft		
S	GR.2164	Perforator Driving Gear (39 teeth)		
	PS.2045-1	Std. 6BA Screw (for securing Driving Gear)		
T	PS.1364-1	Std. 2BA Screw (3 per set) for securing Item R		
U	S.1976, Gr.3	PERFORATOR LINK UNIT	<i>See page 51</i>	
V	PS.1771-1	Std. 4BA Screw	} 2 of each per set	
W	PW.2026	Std. 4BA Spring Washer		} for securing
X	PW.5092	Special 4BA Washer	} Item U	
Y	1947/10B Gr.1	PUNCH BLOCK UNIT (centre feed only)		<i>See page 55</i>
	1947/10B Gr.2	or		
	EC.5055	PUNCH BLOCK UNIT (advance feed only)	} See Items W and X,	
	PS.1740-1	Eccentric (for positioning Item Y)		} Fig. 14.
Z	PS.1771-1	Std. 4BA Screw (for securing eccentric)		
AA	PW.2026	Std. 4BA Screw	} 3 of each per set	
AB	PW.5092	Special 4BA Washer		} for securing
AC	1947/130C, Gr.2	ANVIL BRACKET C.P.	} Item Y	
AD	1947/278A	Abutment Plate		<i>See page 59</i>
AE	1947/300	Shim (.020") 4 off max.	} under Item AD	
AF	1947/277	Shim (.005") 3 off max.		
AG	PS.1694-1	Std. 4BA Screw (2 per set)	} for securing shims and Item AD	
AH	PS.1354-1	Std. 2BA Screw		} 2 of each per set
AJ	PW.2013	Std. 2BA Spring Washer	} for securing	
AK	PW.5053	Special 2BA Washer		} Item AC
AL	PS.1875-1	Std. 4BA Screw	} Adjustable Stop	
AM	PW.1009-1	Std. 4BA Washer		} for trip bar.
AN	PN.1509-1	Std. 4BA Locknut		
AO	PN.1009-1	Std. 4BA Nut		
AP	PW.2025	Std. 4BA Spring Washer		
AQ	PN.1509-1	Std. 4BA Locknut		
AR		KEYBOARD MASK (These vary according to keyboard layout)	<i>See page 29</i>	
AS	PS.1066-1	Std. 0BA Screw (2 per set) for securing Item AR		
AT	2088/13A	Space Bar Guide		
AU	PS.2143-1	Std. 6BA Screw	} 2 of each per set	
AV	PW.2037	Std. 6BA Spring Washer		} for securing
AW	PN.1013	Std. 6BA Nut	} Item AT	
	1855/325	Special Stop Screw C.P.		} 3 of each per set
	PW.2025	Std. 4BA Spring Washer	} Stops for space pads	
	PN.1009-1	Std. 4BA Nut		} Model N/4 only.

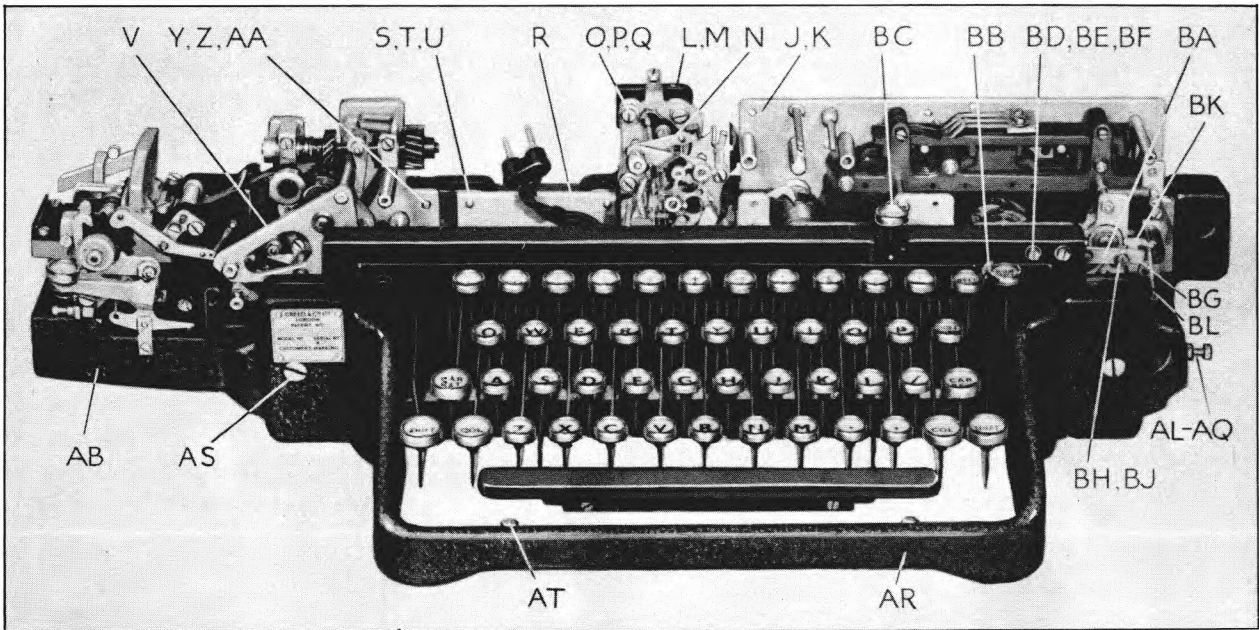


Fig. 13 COMMERCIAL TYPEWRITER KEYBOARD UNIT S2824A

COMMERCIAL TYPEWRITER KEYBOARD S.2824D

(See Figs. 12 and 13)

FOR MODELS 7P/CTK AND 67P/CTK

Index Letter	Part No.	Part Name	
A		KEYBOARD PARTIAL ASSEMBLY	
B	S. 1939	COMBINATION BAR UNIT (12 BAR)	See page 26
	S. 1949	or COMBINATION BAR UNIT (5 BAR)	See page 33
C	PW. 5557	Special Washer (2 per set)	See page 34
D	PW. 5620	Abutment Washer } 3 of each } for positioning Item B	
E	PS. 1687-1	Std. 4BA Screw } per set }	
	PS. 1694-1	Std. 4BA Screw } 4 of each } For securing	
	PW. 2026	Std. 4BA Spring Washer } per set } Combination	
	PB. 4122	Special Bush } 2 of each } Bar Unit	
	PW. 1009-1	Std. 4BA Washer } per set } S.1939	
	PS. 1687-1	or Std. 4BA Screw } 4 of each per set, for	
	PW. 2026	Std. 4BA Spring Washer } securing Combination	
	PW. 1009-1	Std. 4BA Washer } Bar Unit S.3865	
J	S. 1942B, Gr.3	TRANSFER UNIT	See page 41
K	PS. 5234	Special Screw (3 per set) for securing Item J	
L	2824/1	Gear Bracket C.P., includes:-	
	1855/154A	Secondary Shaft	
	GR. 2164	Driving Gear (39 teeth)	
	PB. 1207	Shouldered Bush	
	PS. 2029-1	Std. 6BA Screw	
M	PS. 1332-1	Std. 2BA Screw (3 per set) for securing Item L	
N	2085/62	COUNTER UNIT	See page 49
O	PS. 1694-1	Std. 4BA Screw } 3 of each per set	
P	PW. 1009-1	Std. 4BA Washer } for securing Item N	
Q	2085/45	Cable Cleat (secured to back of Item N)	
	PS. 2061-1	Std. 6BA Screw	
R	S. 1976, Gr.4	PERFORATOR LINK UNIT	See page 51
S	PS. 1761-1	Std. 4BA Screw } 2 of each per set	
T	PW. 2026	Std. 4BA Spring Washer } for securing Item R	
U	PW. 5092-1	Special 4BA Washer }	
V	1947/10B, Gr.1	PUNCH BLOCK UNIT C.P. (Centre Feed only)	
	1947/10B, Gr.2	or	
		PUNCH BLOCK UNIT C.P. (Advance Feed only)	
		Eccentric (for positioning Item V)	
W	EC. 5055	Std. 4BA Screw (for securing eccentric, not visible)	See Items W and X, Fig. 14
X	PS. 1740-1	Std. 4BA Screw } 3 of each per set	
Y	PS. 1761-1	Std. 4BA Spring Washer } for securing	
Z	PW. 2026	Special 4BA Washer } Item V	
AA	PW. 5092-1		See page 59
AB	1947/130C, Gr.2	ANVIL BRACKET C.P.	See page 59
AD	1947/278A	Abutment Plate	
AE	1947/300	Shim (.020" thick) 4 off max.	
AF	1947/277	Shim (.005" thick) 3 off max.	
AG	PS. 1694-1	Std. 4BA Screw (2 per set) for securing Item AD and shims.	
AH	PS. 1354-1	Std. 2BA Screw } 2 of each per set	
AJ	PW. 2013	Std. 2BA Spring Washer } for securing	
AK	PW. 1005-1	Std. 2BA Washer } Item AB	
AL	PS. 1875-1	Std. 4BA Screw }	
AM	PW. 1009-1	Std. 4BA Washer }	
AN	PN. 1509-1	Std. 4BA Locknut } Adjustable Stop for	
AO	PN. 1009-1	Std. 4BA Nut } Trip Bar	
AP	PW. 2025	Std. 4BA Spring Washer }	
AQ	PN. 1509-1	Std. 4BA Locknut }	
AR		KEYBOARD MASK (these vary according to Keyboard layout)	See page 29
AS	PS. 1066-1	Std. 0BA Screw (2 per set) for securing Item AR	
AT	1855/325	Special Stop Screw C.P. } 2 of each per set.	
	PW. 2025	Std. 4BA Spring Washer } Stops for	
	PN. 1009-1	Std. 4BA Nut } Space Pads.	

SECTION 3 (contd.)
KEYBOARDS

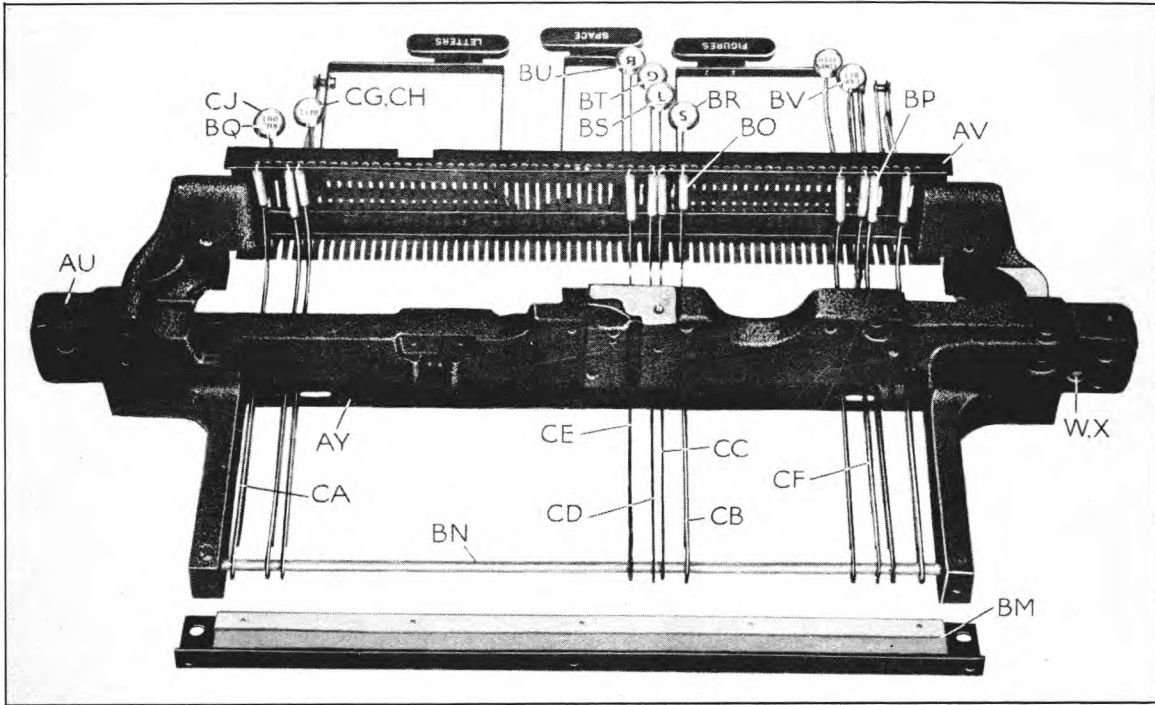


Fig. 14 KEYBOARD PARTIAL ASSEMBLY (ALL MODELS)

KEYBOARD PARTIAL ASSEMBLY

(See Figs. 12, 13 and 14)

ALL MODELS

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
<i>Casting and Racks</i>		
AU	3813/3	Keyboard casting C.P. comprises machined and enamelled casting with pins driven in, together with the following replaceable parts:
AV	1855/169B	Front rack C.P. (3/4" key pitch) for 4-row keyboards
	2088/25B	or Front rack C.P. (7/8" key pitch) for 3-row keyboards
	PS.5264A	Special Screw } 2 of each per set
	PW.1009-1	Std. 4BA Washer } for securing item AV. Not visible.
AY	1855/52B	Back Rack (3/4" key pitch) for 4-row keyboards
	2088/2B	or Back Rack (7/8" key pitch) for 3-row keyboards
AZ	PS.1687-1	Std. 4BA Screw (2 per set) for securing item AY. See Fig. 12.
	2088/43	Keyboard guide rack (3/16" pitch) for 4-row keyboard
	2088/42	or Keyboard guide rack (7/32" pitch) for 3-row keyboard
	PS.5594	Special screw } 2 of each per set
	PW.1009-1	Std. 4BA Washer } for securing keyboard
	PW.2025	Std. 4BA Spring Washer } guide rack.
	PN.1009-1	Std. 4BA Nut } Not illustrated.

SECTION 3 (contd.)
KEYBOARDS

KEYBOARD PARTIAL ASSEMBLY (CONTD.)

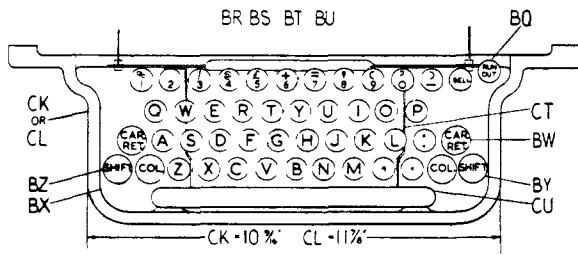
<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
<i>Lock Release Key Parts (For Commercial Typewriter Keyboards only)</i>		
BA	1856/181	Lock Release Lever C.P.
BB	CS.1041	Set collar and screw
BC	1856/196	Lock release Keybutton C.P. comprises:-
	1856/192	Keybutton sub C.P.
	860/184	Keybutton cap
	PL.1401	Keylabel (state inscription)
	860/185	Keybutton glass
	PW.5216	Paper packing washer
	PS.2045-1	Std. 6BA Screw
	PW.1013-1	Std. 6BA Washer
	PW.2037	Std. 6BA Spring washer
	1856/189	Stop plate
	2000/280	Clamp plate
	PS.2061-1	Std. 6BA Screw
	PW.2037	Std. 6BA spring washer
	1856/193	Stop bracket
BD	PS.2045-1	Std. 6BA Screw
BE	PW.1013-1	Std. 6BA Washer
BF	PW.2037	Std. 6BA spring washer
BG	1856/187	Lock release lever extension
BH	PS.2045-1	Std. 6BA Screw
	PW.1013-1	Std. 6BA washer
BJ	PW.2037	Std. 6BA spring washer
BK	1856/184	Pawl C.P.
BL	PG.7034	Tension spring (for item BK)

Keybars, Keep Plate and Keybar Pivot

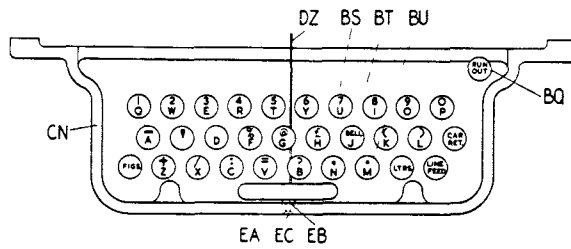
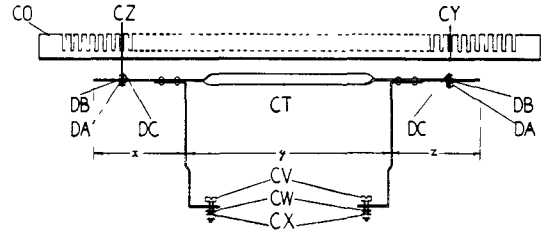
BM	1855/127B	Keybar Keep Plate C.P.	
	PS.1676-1	Std. 4BA Screw	} 2 of each per set for securing item BM
	PW.2025	Std. 4BA Spring Washer	
BN	1855/83A	Keybar pivot	
	BO.3228	Anderton Clip (2 per set) for retaining item BN	
	1855/352A	Support bar	} These items are not illustrated.
	PS.2061-1	Std. 6BA Screw	
	PS.2077-1	Std. 6BA Screw	
	PW.2037	Std. 6BA spring washer (4 per set)	
	PW.5529	Spacing washer (2 per set) between support bar and item BM.	
	1855/351	Pivot support plate	
	PS.2061-1	Std. 6BA Screw	} 2 of each per set for securing pivot support bar.
	PW.2037	Std. 6BA spring washer	
BO	PG.7066	Tension spring (for keybars) 54 per set	
BP	PG.7077	Tension spring (for space keybars) 3 per set.	

<i>Index Letter</i>	<i>Keybar C.P. (See Note 1)</i>	<i>Index Letter</i>	<i>Keybar Sub C.P.</i>	<i>Index Letter</i>	<i>Keylabel See Note 1</i>	<i>Index Letter</i>	<i>Key-button Glass</i>	<i>Index Letter</i>	<i>Key-button Cap</i>		
BQ	Top row (Run out)		1855/40	CA	1855/31	CG	PL.1401	CH	860/185	CJ	860/184
BR	Top row		1855/36	CB	1855/27A	CG	PL.1401	CH	860/185	CJ	860/185
BS	2nd row	} See Note 2	1855/37	CC	1855/28B	CG	PL.1401	CH	860/185	CJ	860/184
BT	3rd row		1855/38	CD	1855/29B	CG	PL.1401	CH	860/185	CJ	860/184
BU	4th row		1855/39	CE	1855/30B	CG	PL.1401	CH	860/185	CJ	860/184
BV	3rd row (Special Car. Ret. only for 'N' Keyboards)		2246/9	CF	2246/7	CG	PL.1401	CH	860/185	CJ	860/184
BW	3rd row (Large Head)		1855/106			1855/105B	CG	PL.1403		1855/97	
BX	4th row (Large Head)	1855/108	not shown	1855/107B	not shown	CG	PL.1403	not shown	1855/97	not shown	1855/96
BY	4th row (Large Head) SHIFT (R.H.)	1855/112			1855/111B	CG	PL.1403	shown	1855/97	shown	1855/96
BZ	4th row (Large Head) SHIFT (L.H.)	1855/114			1855/113B	CG	PL.1403		1855/97		1855/96

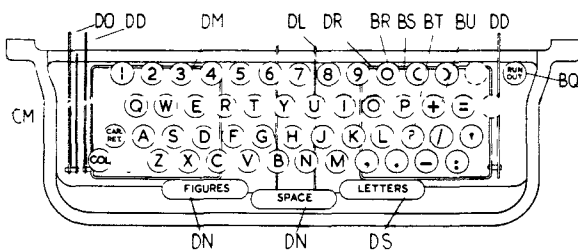
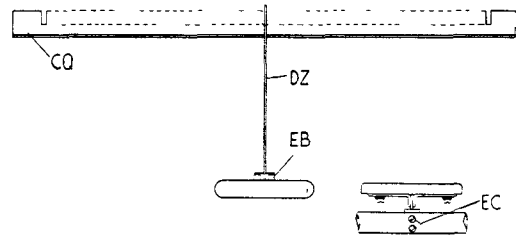
NOTE 1: Specify inscriptions required on keylabels CG and keylabels PL.1403 (not shown) and on keybars C.P., BQ to BZ.
NOTE 2: 2nd, 3rd and 4th row keys BS, BT, BU and BV are used in the top, middle and bottom rows respectively of 3-row keyboards.



GRP. 2



GRP. 1



GRP. 3

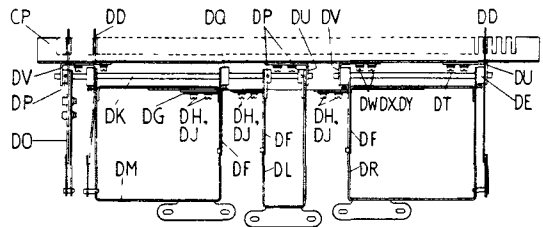


Fig. 15 KEYBOARD MASKS AND SPACE BAR ARRANGEMENTS (ALL MODELS)

KEYBOARD MASKS AND SPACE BAR ARRANGEMENTS

(See Figs. 11 and 15)

ALL MODELS

Index Letter	Part No.	Quantity for Groups			Part Name
		2	1	3	
CK	1855/121B	1	--	--	Keyboard mask
CL	1855/5B	1	--	--	or Keyboard mask
CM	1855/209A	--	--	1	or Keyboard mask
CN	2088/51	--	1	--	or Keyboard mask
CO	2088/41 Gr.1	1	--	--	Keyboard stop plate C.P.
CP	2088/41 Gr.4	--	--	1	or Keyboard stop plate C.P.
CQ	2088/41 Gr.2	--	1	--	or Keyboard stop plate C.P.
CR	PS.5264A	2	2	2	Special screw
CS	PW.1009-1	2	2	2	Std. 4BA washer
CU	1855/49 Gr.1	1	--	--	Space bar C.P. comprises:-
CT	1855/47	1	--	--	Space keybar connection CP.ARRGMT.A.
	1855/48	1	--	--	Space bar
CV	PS.2109-1	2	--	--	Std. 6BA screw
CW	PW.1013-1	2	--	--	Std. 6BA washer
CX	PN.1013-1	2	--	--	Std. 6BA Nut
CY	1855/19	1	--	--	Space bar extension C.P. (Right hand)
CZ	1855/18	1	--	--	Space bar extension C.P. (Left hand)
DA	PS.2077-1	2	--	--	Std. 6BA screw
DB	PW.2037	2	--	--	Std. 6BA spring washer
DC	PN.1013-1	2	--	--	Std. 6BA nut
DD	1855/190	--	--	3	Space keybar C.P.
DE	CS.1064	--	--	2	Set collar and screw
DF	1855/194	--	--	3	Figure and letter shift bar stop C.P.
DG	1855/195	--	--	3	Clamp plate
DH	PS.1694-1	--	--	6	Std. 4BA screw
DJ	PW.2025	--	--	6	Std. 4BA spring washer
	1855/223	--	--	1*	Space and figures frames and lever C.P. comprises:-
DK	1855/214	--	--	1	Space and figures frame spindle
DL	1855/213	--	--	1	Space frame C.P.
DM	1855/227	--	--	1	Figure shift frame C.P.
DN	1855/212	--	--	2	Pad C.P.
	PS.2045-1	--	--	2	Std. 6BA screw
	PW.2037	--	--	2	Std. 6BA spring washer
	PW.1037-1	--	--	2	Std. 6BA washer
DO	1855/219	--	--	1	Space key lever C.P.
DP	PP.2042	--	--	3	Grooved pin
DQ	CS.1064	--	--	2	Set collar and screw
	1855/222	--	--	1*	Letters shift frame C.P. comprises:-
DR	1855/221	--	--	1	Letters frame sub C.P.
DS	1855/212	--	--	1	Pad C.P.
	PS.2045-1	--	--	2	Std. 6BA screw
	PW.2037	--	--	2	Std. 6BA spring washer
	PW.1037-1	--	--	2	Std. 6BA washer
DT	1855/228	--	--	1	Letters frame spindle
DU	1855/230	--	--	2	Shift spindle support (R.H.)
DV	1855/229	--	--	2	Shift spindle support (L.H.)
DW	PS.2061-1	--	--	8	Std. 6BA screw
DX	PW.1013-1	--	--	8	Std. 6BA washer
DY	PW.2037	--	--	8	Std. 6BA spring washer
DZ	2088/9A	--	1	--	Space Keybar sub C.P.
EA	1822/30	--	1	--	Space bar pad C.P.
	PS.2057-1	--	2	--	Std. 6BA screw
	PW.2037	--	2	--	Std. 6BA spring washer
EB	2088/13A	--	1	--	Space keybar guide
EC	PS.2143-1	--	2	--	Std. 6BA screw
	PW.2037	--	2	--	Std. 6BA spring washer
	PN.1013-1	--	2	--	Std. 6BA nut

* When ordering these items the required engraving on the FIGURES and LETTERS pads must be specified.

Fig. 16
COMBINATION
BAR UNIT
S3707C

(For types N3 or N4
Keyboards)

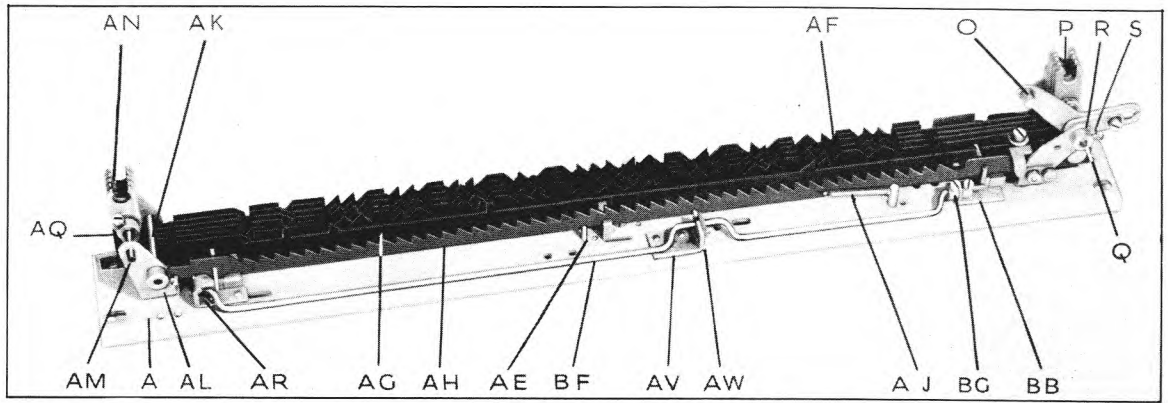


Fig 17
COMBINATION
BAR UNIT
COMPONENTS

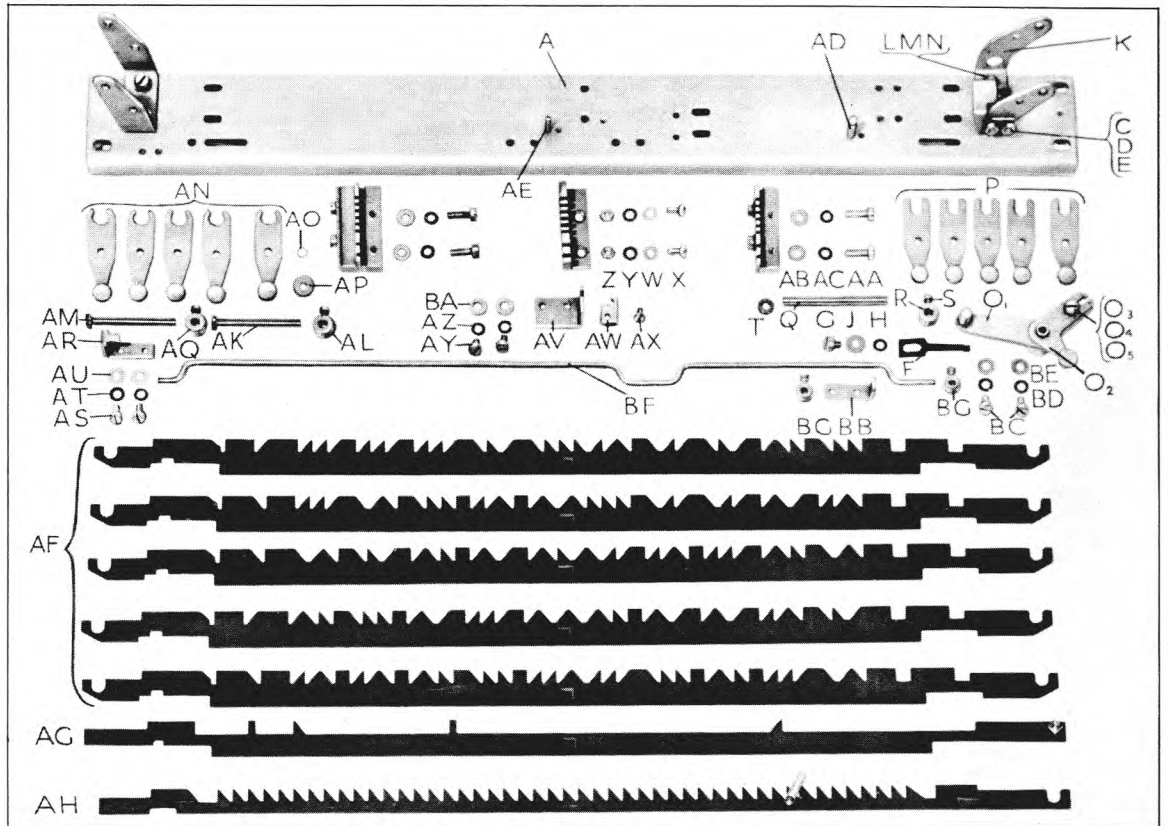
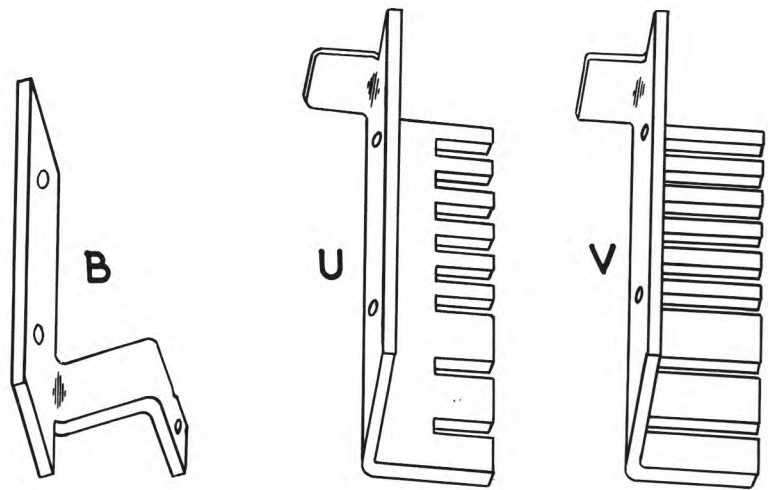


Fig. 18



SECTION 3 (contd.)
KEYBOARDS

COMBINATION BAR UNIT S.3707C

(See Figs. 16, 17 and 18)

Index Letter	Part No.	Part Name
	S.3768A	Combination Bar Bed C.P. comprises:-
A	3707/1A	Combination Bar Support Plate
B	2255/57	Bias spring bracket (New part replacing Bias Spring Bracket illustrated in 2nd Edition). See Fig.18.
C	PS.2057-1	Std. 6BA screw
D	PW.2037	Std. 6BA spring washer
E	PW.1013-1	Std. 6BA washer
F	2091/26	Bias spring
G	PS.2057-1	Std. 6BA screw
H	PW.2037	Std. 6BA spring washer
J	PW.1013-1	Std. 6BA washer
K	3707/5A	Connecting Lever Frame
L	PS.2057-1	Std. 6BA Screw
M	PW.1013-1	Std. 6BA Washer
N	PW.2037	Std. 6BA Spring Washer
O	2091/27B	Trip Lever C.P. comprises:-
O1	2091/37C	Trip Lever Sub C.P.
O2	2255/28A	Trip Adjusting Lever
O3	PS.2045-1	Std. 6BA Screw
O4	PW.2037	Std. 6BA Spring Washer
O5	PW.1013-1	Std. 6BA Washer
P	2255/26A	Connecting Lever (5 per set)
	PW.5619	Connecting Lever Spacer (4 per set) between Connecting Levers
Q	PP.7883	Parallel pin
R	PB.2095	Clamping Bush
S	PS.2443-1	Std. 8BA screw
T	BO.3229	Anderton clip
U	2255/31A	Rack bracket (centre)
V	2255/55	Rack bracket (R.H.)
W	PS.2079-1	Std. 6BA screw
X	PW.1013-1	Std. 6BA washer
Y	PW.2037	Std. 6BA spring washer
Z	PN.1513-1	Std. 6BA locknut
AA	PS.2057-1	Std. 6BA screw
AB	PW.1013-1	Std. 6BA washer
AC	PW.2037	Std. 6BA spring washer
AD	PP.6772	Spring Anchor Pin
	PW.1013-1	Std. 6BA Washer
	PW.2037	Std. 6BA Spring Washer
	PN.1013-1	Std. 6BA Nut
AE	PS.7047	Special screw
	PW.1017-1	Std. 8BA washer
	PW.2050	Std. 8BA spring washer
	PN.1517-1	Std. 8BA locknut
AF	Part Nos. vary	Combination Bar C.P. (Nos. 1-5)
AG	according to	
AH	Keyboard Chart	
AJ	PG.7362	
AK	2091/13	
AL	CS.1022	Set collar and screw
AM	2091/13	Punch Block Lever Pin (pivot for Operating Levers)
AN	2091/16B	Punch Block Operating Lever C.P. (5 per set)
AO	PW.5327	Friction Washer (5 per set)
AP	PW.5403	Special Washer (4 per set)
AQ	CS.1022	Set collar and screw (for retaining item AM)
AR	2255/6	Trip rod stop bracket
AS	PS.2057-1	Std. 6BA screw
AT	PW.2037	Std. 6BA spring washer
AU	PW.1013-1	Std. 6BA washer
AV	2255/9	Trip rod support
AW	2255/10	Trip rod cover plate
AX	PS.2443-1	Std. 8BA screw (for securing item AW to item AV)
AY	PS.2057-1	Std. 6BA screw
AZ	PW.2037	Std. 6BA spring washer
BA	PW.1013-1	Std. 6BA washer
BB	2255/1	Bearing bracket
BC	PS.2057-1	Std. 6BA screw
BD	PW.2037	Std. 6BA spring washer
BE	PW.1013-1	Std. 6BA washer
BF	2255/8B	Trip Rod
BG	CS.1011	Set collar and screw (2 per set) for positioning item BF.

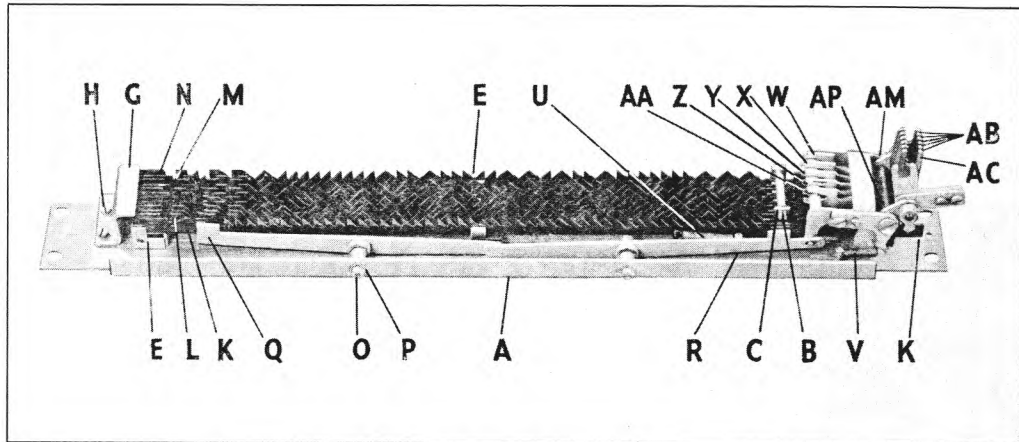


Fig. 19 COMBINATION UNIT, 12 BAR, S1939
 (For C.T. Keyboards with 'Shift Lock')

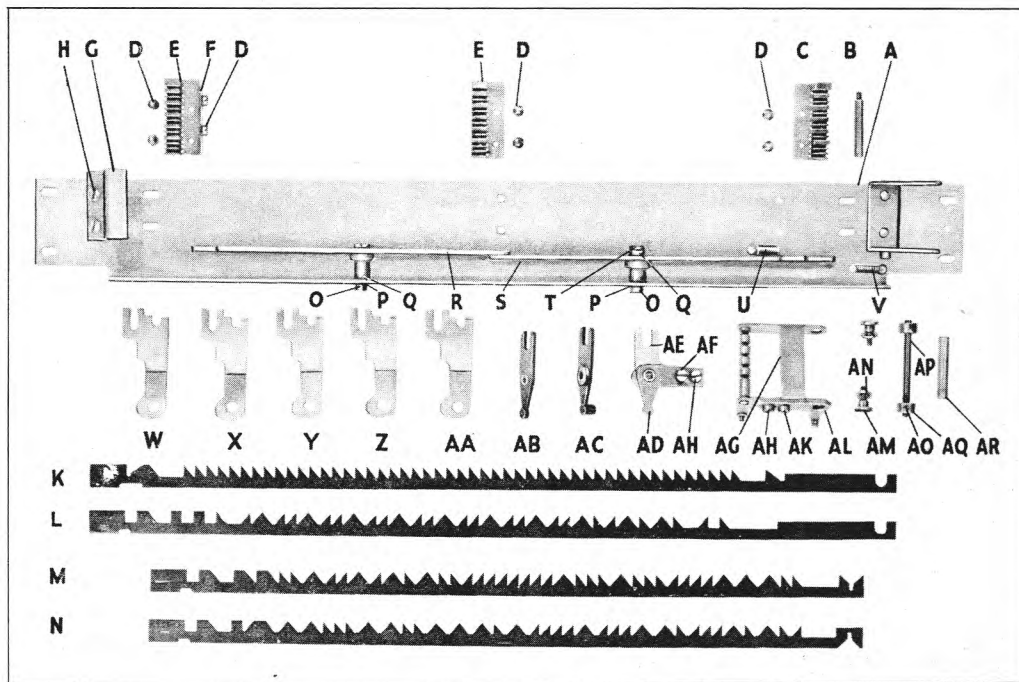


Fig. 20 COMBINATION UNIT, 12 BAR, COMPONENTS

SECTION 3 (contd.)
KEYBOARDS

COMBINATION BAR UNIT (12 BAR) S.1939

(See Figs. 19 and 20)

FOR C.T. KEYBOARDS WITH "SHIFT" KEY

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	1939/5	Combination bar support plate C.P.
B	PP.5538	Threaded pin (<i>retains combination bars</i>)
C	1939/62	Combination bar rack (R.H.)
D	PS.2077-1	Std. 6BA screw
	PW.1013-1	Std. 6BA washer
	PW.2038	Std. 6BA spring washer
		} (6 per set) for securing items C and E.
E	1939/63	Combination bar rack (L.H.) (2 per set)
	RL.1099	Roller (9 per set)
	RL.1098	Roller (30 per set)
	PP.6682	Parallel pin (3 per set)
		} For items C and E.
F	1939/65	Stop plate
	PW.2037	Std. 6BA spring washer
D	PS.2077-1	Std. 6BA screw
		} 2 of each per set for securing item F.
G	1939/55	Keep Plate
H	PS.2075-1	Std. 6BA screw
	PW.2037	Std. 6BA spring washer
	PW.1013-1	Std. 6BA washer
	PN.1513-1	Std. 6BA locknut
		} 2 of each per set for securing item G.
K	1939/56	Trip bar C.P.
	1939/54	Combination bar set, comprises:-
L	1939/51	Case bar "F"
M	1939/53	Combination bar "E" (5 per set)
N	1939/52	Combination bar "D" (5 per set)
		} State chart number or marking stamped on comb. bars when ordering.
O	PN.1013-1	Std. 6BA nut
P	PW.1013-1	Std. 6BA washer
		} 2 of each per set for securing items R and S.
Q	PW.5114	Spacing Washer (2 per set)
R	1939/15A	Shift lever (L.H.) C.P.
S	1939/17A	Shift lever (R.H.) C.P.
T	PS.6898	Special screw (2 per set) pivot screws for Items R and S.
U	PG.7066	Tension spring (for item K)
V	PG.7019	Tension spring (for item AL)
W-AA	1939/61	Set of 5 shift couplings C.P. (Nos. 1-5)
AB	1939/21	Connecting lever C.P. (5 per set)
AC	1939/22	Connecting lever C.P. (for case bar, item L)
	1939/28	Trip adjusting lever C.P. comprises:-
AD	1939/58	Adjusting bellcrank
AE	1939/25	Trip adjusting arm C.P.
AF	PS.2042-1	Std. 6BA screw
AH	EC.5026	Eccentric
	1939/45A	Shift lever frame C.P. comprises:-
AG	1939/44A	Shift lever frame sub C.P.
AH	EC.5026	Eccentric
AK	PS.2029-1	Std. 6BA screw
AL	1939/27	Adjusting bellcrank C.P.
AM	PS.5541	Special screw
AN	PW.5042	Special washer
		} 2 of each per set for securing shift lever frame C.P.
	CS.1023	Set and collar screw (2 per set) comprises:-
AO	PS.2440-1	Std. 8BA grub screw
AQ	PB.1035	Set collar
AP	PP.1144	Parallel pin (pivot for items AB, AC and trip adjusting lever C.P.)
AR	1939/47	Distance piece

* **SHIFT KEY:** The shift key is a code change device provided on all 4-row keyboards where some keys in the top row have two characters; a numeral in the lower position and a symbol in the upper position.

All of these keys are in the "figures case," but the code allocated to the numeral is different from that allocated to the symbol on the same key.

The code for the numerals (lower position) is set up on the 5 Combination bars "D" (Item N) which are normally connected to the 5 Connecting levers (Item AB).

The code for the symbols (upper position) is set up on the 5 combination levers "E" (item M).

When the shift key is held depressed, the "D" bars are disconnected and the "E" bars are connected to the 5 connecting levers.

SECTION 3 (contd.)
KEYBOARDS

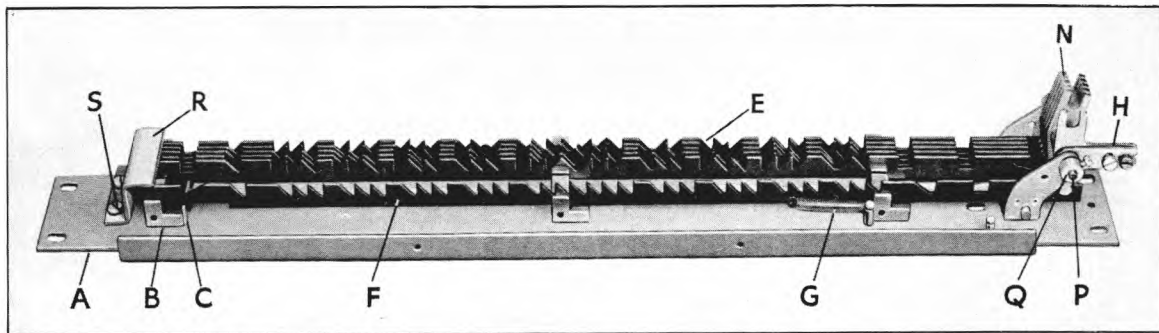


Fig. 21 COMBINATION UNIT 6, 7 or 8 BAR S1949

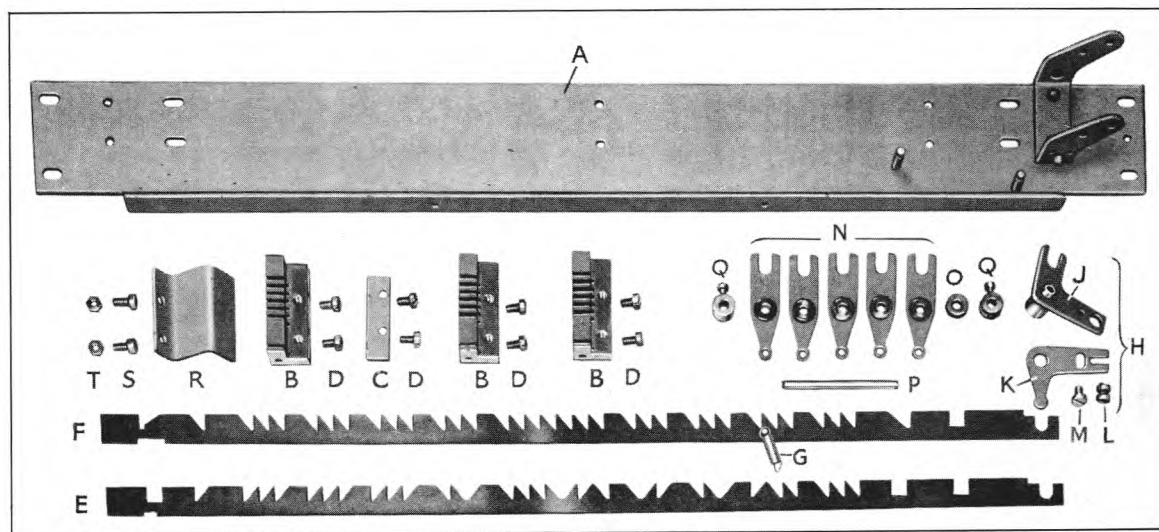


Fig. 22 COMBINATION UNIT 6, 7 or 8 BAR COMPONENTS
COMBINATION BAR UNIT (6, 7 OR 8 BAR) S.1949

(See Figs. 21 and 22)

FOR C.T. KEYBOARDS WITHOUT "SHIFT" KEY

Index Letter	Part No.	Part Name		
A	2255/7 3707/1A	Combination bar support plate C.P. (as illustrated) or Combination bar support plate (Latest design not illustrated)		
B	1946/3	Combination bar rack C.P. (3 per set) includes:-	} As illustrated.	
	PP.1109	Parallel Pin		
	RL.1048	Roller (7 per rack)		
	2255/55	Rack bracket (R.H.)		
	2255/31A	Rack bracket (middle)		
	2255/56	Rack bracket (L.H.)		
	PS.2057-1	Std. 6BA screw		} 4 of each per set for securing
	PW.2037	Std. 6BA spring washer		
	PW.1013-1	Std. 6BA washer		} 2255/55 and 2255/56
	PS.2079-1	Std. 6BA screw		
	PW.2037	Std. 6BA spring washer		} 2 of each per set for securing
	PW.1013-1	Std. 6BA washer		
	PN.1513-1	Std. 6BA locknut		} 2255/31A
	C	1939/11		
D	PS.2093-1	Std. 6BA screw	} 6 of each per set for securing item B.	
	PW.2037	Std. 6BA spring washer		
	PW.1013-1	Std. 6BA washer		
	PS.2093-1	Std. 6BA screw		} 2 of each per set for securing item C.
	PW.2037	Std. 6BA spring washer		

SECTION 3 (contd.)
KEYBOARDS

Index Letter	Part No.	Part Name		
E	Part Nos. vary	* Combination bars (Nos.1-5)	} When ordering state chart numbers or marking on each bar.	
F	according to chart	x* Case bar (No.6) not shown		
		* Trip bar C.P.	} As illustrated	
		* Locking bar		
	2091/26	Bias spring		
	2091/38	Bias spring bracket		
¢¢	PS.2045-1	Std. 6BA screw		} for securing bias spring to bias spring bracket
	PW.2037	Std. 6BA spring washer		
	PW.1037-1	Std. 6BA washer		} 2 of each per set for securing bias spring bracket to connecting lever frame on item A.
	PS.2063-1	Std. 6BA screw		
	PW.2037	Std. 6BA spring washer		
	PN.1513-1	Std. 6BA locknut		
	3865/1	Set of Combination Bars C.P. (Not illustrated. Consists of Combination Bars Nos. 1 to 5, Case Bar and Trip Bar, similar to items E and F above but Deep Comb Bar pattern. When ordering state chart number or marking on each Bar).		
G	PG.7066	Tension spring (for item F) as illustrated.		
	PG.7362	or Tension spring (for latest design Trip Bar. Not illustrated).		
H	1939/28	Trip adjusting lever C.P. comprises:-		
J	1939/25	Trip adjusting arm C.P.		
K	1939/58	Adjusting bellcrank		
L	EC.5026	Eccentric		
M	PS.2042-1	Std. 6BA screw	} Latest design not illustrated.	
	1939/86	or Trip adjusting lever C.P. comprises:-		
	1939/85	Trip adjusting arm sub C.P.		
	2091/43	Trip adjusting lever		
	PS.2045-1	Std. 6BA screw		} for securing Trip adjusting arm sub C.P. to Trip adjusting lever.
	PW.2037	Std. 6BA spring washer		
	PW.1013-1	Std. 6BA washer		
N	2091/40	Connecting lever C.P. (5 per set, or 6 per set when case bar is fitted), as illustrated.		
	2255/26A	or Connecting lever (6 per set)	} Latest design, not illustrated.	
	PW.5619	Connecting lever spacer (5 per set)		
O	1949/8	Spacing washer (not required when case bar is fitted) as illustrated.		
P	PP.1144-1	Parallel pin (pivot for item N) as illustrated.		
	PP.7883	or Parallel pin (pivot for item N). Latest design.		
Q	CS.1022	Set collar and screw (2 per set) as illustrated.		
	PB.2095	Clamping bush	} for retaining PP.7883.	
	PS.2443-1	Std. 8BA screw		
	BO.3229	Anderton clip		
R	1939/55	Keep plate (Not used on latest design units)		
S	PS.2075-1	Std. 6BA screw	} 2 of each per set for securing item R.	
T	PN.1513-1	Std. 6BA nut		
	PW.2037	Std. 6BA spring washer		
	PW.1013-1	Std. 6BA washer	} 2 of each per set for securing connecting lever frame to item A.	
	3707/5A	Connecting lever frame		
	PS.2057-1	Std. 6BA screw	} 2 of each per set for securing connecting lever frame to item A.	
	PW.2037	Std. 6BA spring washer		
	PW.1013-1	Std. 6BA washer	} for securing spring anchor pin.	
	PP.6772	Spring anchor pin		
	PW.2037	Std. 6BA spring washer	} for securing spring anchor pin.	
	PW.1013-1	Std. 6BA washer		
	PS.7047	Special screw	} Support for Trip bar.	
	PW.1017-1	Std. 8BA washer		
	PW.2050	Std. 8BA spring washer		
	PN.1517-1	Std. 8BA locknut	} New design not illustrated.	
	2091/35A	Bar securing bracket		
	PS.2057-1	Std. 6BA screw		
	PW.2037	Std. 6BA spring washer	} 2 of each per set for securing 2091/35A.	
	PW.5190	Special washer		

* NOTE: These are normally supplied as a complete set, comprising five combination bars, one trip bar C.P., and either one case bar or one locking bar (if these are used). The Creed chart number or the marking stamped on the bars must be specified when ordering spare bars.

x* NOTE: The case bar is used only on 4-row auto-case keyboards.

¢¢ Additional parts (not shown) to provide Figures-Letters Shift lock. These parts are not used on Keyboards having automatic insertion of the Figure and Letter case signals.

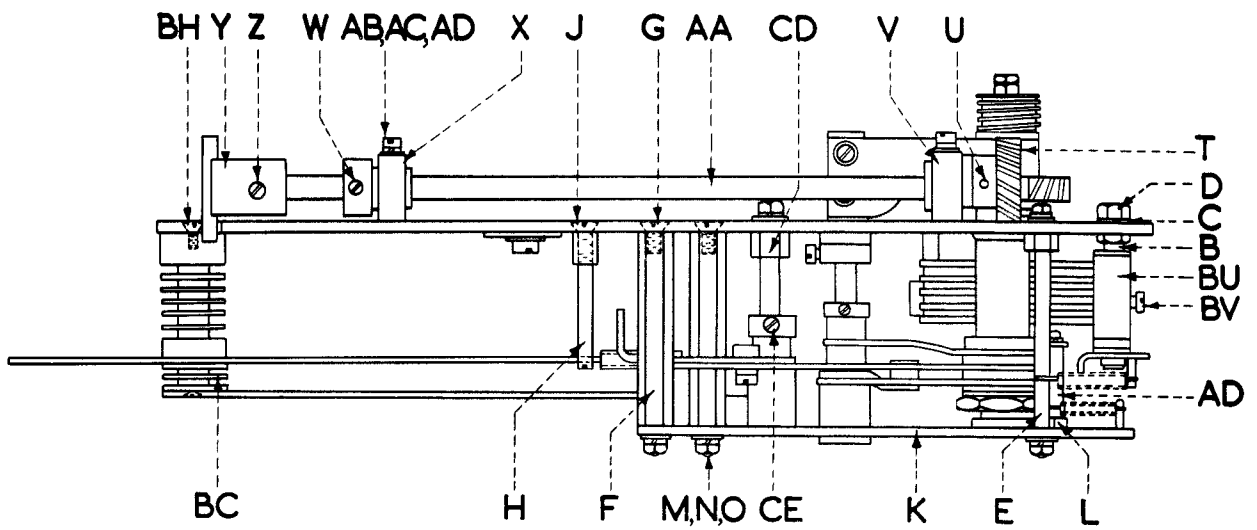


Fig. 23 PERFORATOR OPERATING UNIT S2303B
 (For Types N3 or N4 Keyboards)

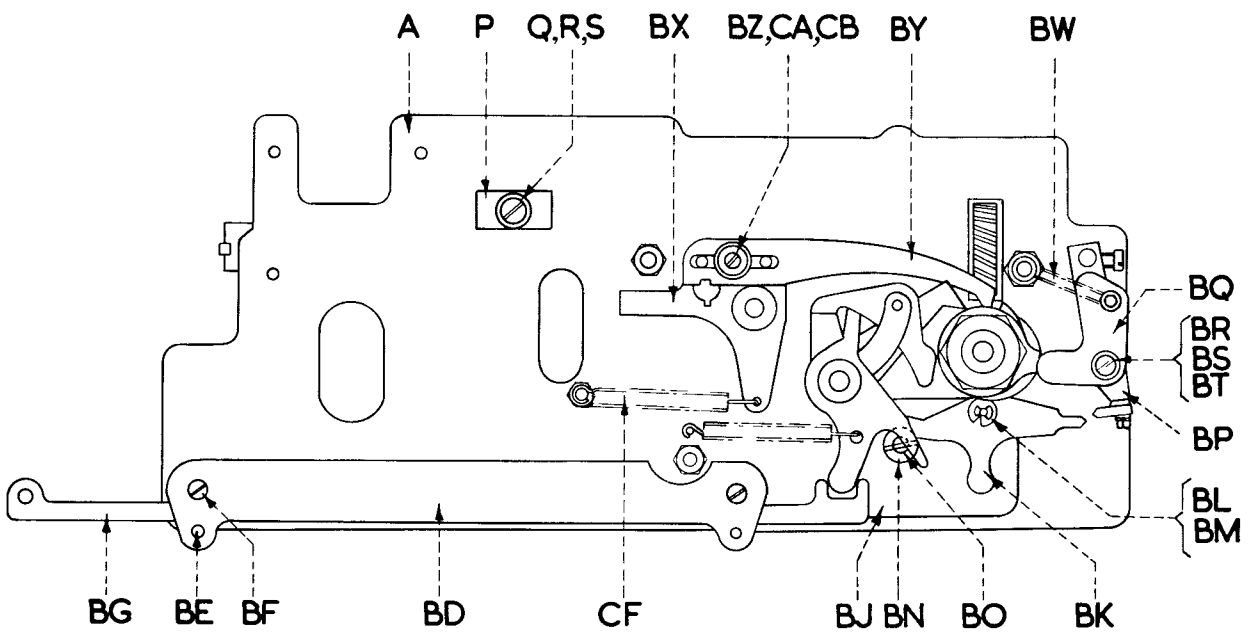


Fig. 24 PERFORATOR OPERATING UNIT (PARTIAL ASSEMBLY)
 (For Types N3 or N4 Keyboard)

PERFORATOR OPERATING UNIT S.2303B

(See Figs. 23, 24, 25 and 26)

FOR TYPE N3 AND N4 KEYBOARD

Index Letter	Part No.	Part Name
<i>Back plate, Front plate and Abutment</i>		
A	2887/4C	Back plate C.P. comprises:-
	2887/5D	Back plate sub C.P.
	PW.5480	Oil impregnated thrust washer } bearings for item AE.
	PW.1533	Oil impregnated bush }
	3010/6	Oil impregnated bush (bearing for item AP)
B	PP.8756	Locking frame pivot
C	PW.2026	Std. 4BA spring washer } for securing item B.
D	PN.1509-1	Std. 4BA locknut }
E	PP.8869	Front plate support pin
	PW.2026	Std. 4BA spring washer } for securing item E.
	PN.1509-1	Std. 4BA locknut }
F	PP.7876	Front plate support pillar (2 per set)
G	PS.1696-1	Std. 4BA screw (2 per set) for securing item F.
H	PP.5581	Spring anchor pin
J	PS.2079-1	Std. 6BA screw (for securing item H)
K	2887/7A	Front plate C.P. includes:-
	2887/8A	Front plate sub C.P.
	PB.3013	Oil impregnated flanged bush (bearing for item AE)
	3013/6	Oil impregnated bush (bearing for item AP)
L	PP.7682A	Lubricator pivot
	PW.2026	Std. 4BA spring washer (for retaining item L)
M	PW.2037	Std. 6BA spring washer } 3 of each per set
N	PW.1013-1	Std. 6BA washer } for securing item K.
O	PN.1513-1	Std. 6BA locknut }
P	2254/54A	Abutment plate (for counter unit S.2258 when fitted)
Q	PS.1676-1	Std. 4BA screw
R	PW.2026	Std. 4BA spring washer } for securing item P.
S	PW.1009-1	Std. 4BA washer }

Operating Driving Shaft

	2254/60A	Transmitter driving shaft C.P. comprises:-
T	GR.2101A	Driving gear
U	PP.2044	Taper pin (for securing item T)
V	1856/109	Bearing block C.P. (L.H.)
W	CS.1067	Set collar and screw
X	1856/111	Bearing block C.P. (R.H.)
Y	1855/372	Coupling sleeve C.P.
Z	PS.1645-1	Std. 4BA grub screw (for securing item Y)
AA	2254/61	Transmitter driving shaft
AB	PS.2173-1	Std. 6BA screw
AC	PW.2037	Std. 6BA spring washer } 2 of each per set for securing
AD	PW.1013-1	Std. 6BA washer } Transmitter driving shaft C.P.

Operating Cam, Clutch, Detent and Transfer Link

AE	2303/27A	Camshaft C.P.
AF	2254/55A	Spiral gear and ratchet C.P. (25 teeth)
AG	PW.5277	Shim (as required)
AH	2254/57A	Clutch dog
AJ	PP.1095	Parallel pin
AK	1856/227B	Clutch ratchet
AL	PG.5085	Compression spring
AM	2254/140	Spring retaining plate
AN	PN.1509-1	Std. 4BA locknut (2 per set)
AO	2254/52	Lubricator C.P. comprises:-
	2254/43	Holder
	2254/53	Oil Pad (felt)
	PW.1013-1	Std. 6BA washer } for securing item AO.
	PW.2037	Std. 6BA spring washer }
	PN.1013-1	Std. 6BA nut }
	PG.7219	Tension spring (not visible) for item AO.

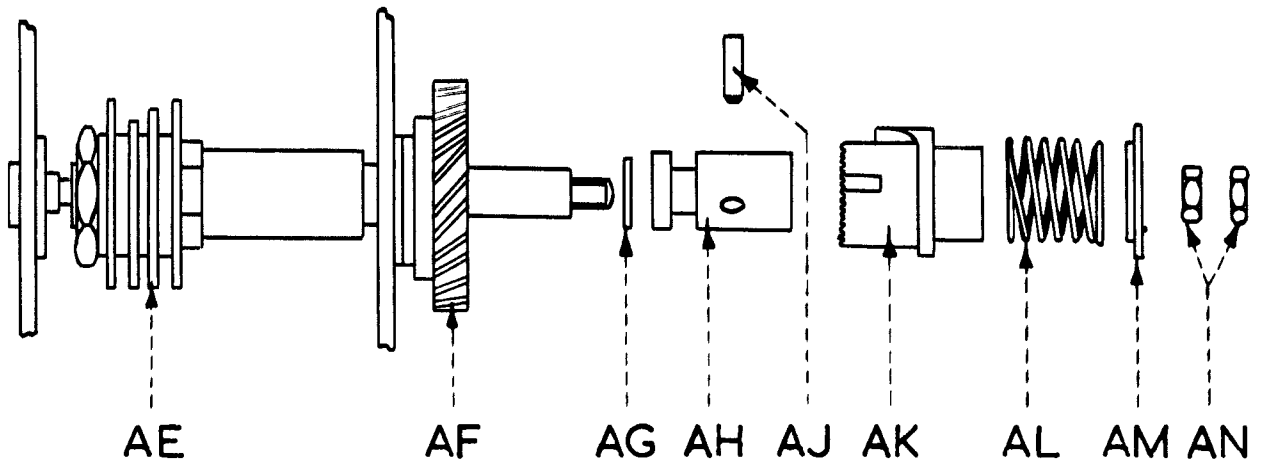


Fig. 25 CAMSHAFT ASSEMBLY (EXPLODED VIEW)

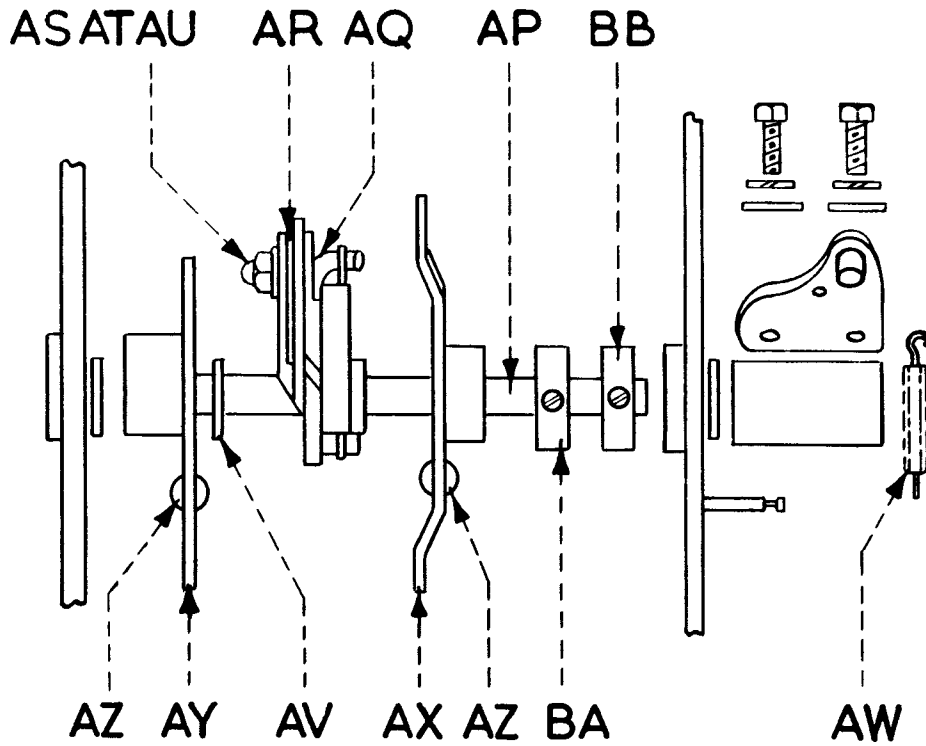


Fig. 26 DETENT CONTROL SHAFT (EXPLODED VIEW)

SECTION 3 (contd.)
KEYBOARDS

PERFORATOR OPERATING UNIT S.2303B (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
<i>Operating Cam, Clutch, Detent and Transfer Link (contd.)</i>		
AP	2254/138A	Detent control shaft C.P. includes:-
AQ	2254/36B	Detent release latch C.P.
AR	PW.5556	Special washer
AS	PS.5591	Latch pivot screw
AT	PW.2050	Std. 8BA spring washer
AU	PN.1017-1	Std. 8BA nut
	PG.7034	Tension spring (for Detent release latch C.P.) not visible.
AV	PW.5227	Shim (as required for spacing item AP)
AW	PG.7039	Tension spring (for detent)
AX	2254/113B	Release lever C.P.
AY	2254/103E	Detent Operating Lever C.P.
AZ	PG.7066	Tension spring (2 per set) one each for item AX and item AY.
BA	CS.1061	Set collar and screw
BB	CS.1062	Set collar and screw
	2254/202	Transfer link C.P. comprises:-
BC	2254/193	Transfer bar rack (2 per set)
BD	2254/194	Transfer lever plate
BE	PP.5576	Support pin (2 per set)
BF	PS.2063-1	Std. 6BA screw (2 per set) for securing item BD to item BC.
BG	2254/148	Perforator trip bar C.P.
BH	PS.2063	Std. 6BA screw (2 per set) for securing Transfer Link C.P.
<i>Operating Levers, Retaining Lever and Locking Frame</i>		
	2254/176	Selecting lever base place C.P. comprises:-
BJ	2254/175	Selector lever casting C.P.
BK	2254/39A	Selector lever (5 per set)
	PW.5617	Selector lever spacer (5 per set) not visible.
BL	PW.5491	Shim (quantity as required) under item BM.
BM	BO.3230	Anderton clip
BN	2254/192	Selector rack
BO	PS.2143-1	Std. 6BA screw (for securing item BN)
	PS.2074-1	Std. 6BA screw (2 per set) for securing item BJ.
	2303/28A	Locking frame C.P. comprises:-
BP	2254/16	Locking frame sub C.P.
	2254/17	Clamp plate C.P. (not visible)
	2203/9	Packing piece (not visible under item BQ)
BQ	2254/18A	Locking lever C.P.
BR	PS.2093-1	Std. 6BA screw
BS	PW.1013-1	Std. 6BA washer
BT	PW.2037	Std. 6BA spring washer
BU	PB.1331	Locking frame collar
BV	PS.2042-1	Std. 6BA screw (for securing item BU)
BW	PG.7003	Tension spring (for locking frame C.P.)
	2254/64	Retaining lever C.P. comprises:-
BX	2254/65	Send/Receive lever operating bracket C.P.
BY	2254/66	Retaining lever
BZ	PS.2061-1	Std. 6BA screw
CA	PW.1037-1	Std. 6BA washer
CB	PW.2037	Std. 6BA spring washer
CD	PP.8871	Retaining lever pivot
	PW.1009-1	Std. 4BA washer
	PW.2026	Std. 4BA spring washer
	PN.1509-1	Std. 4BA nut
CE	CS.1046	Set collar and screw
CF	PG.7212	Tension spring (for item BX)

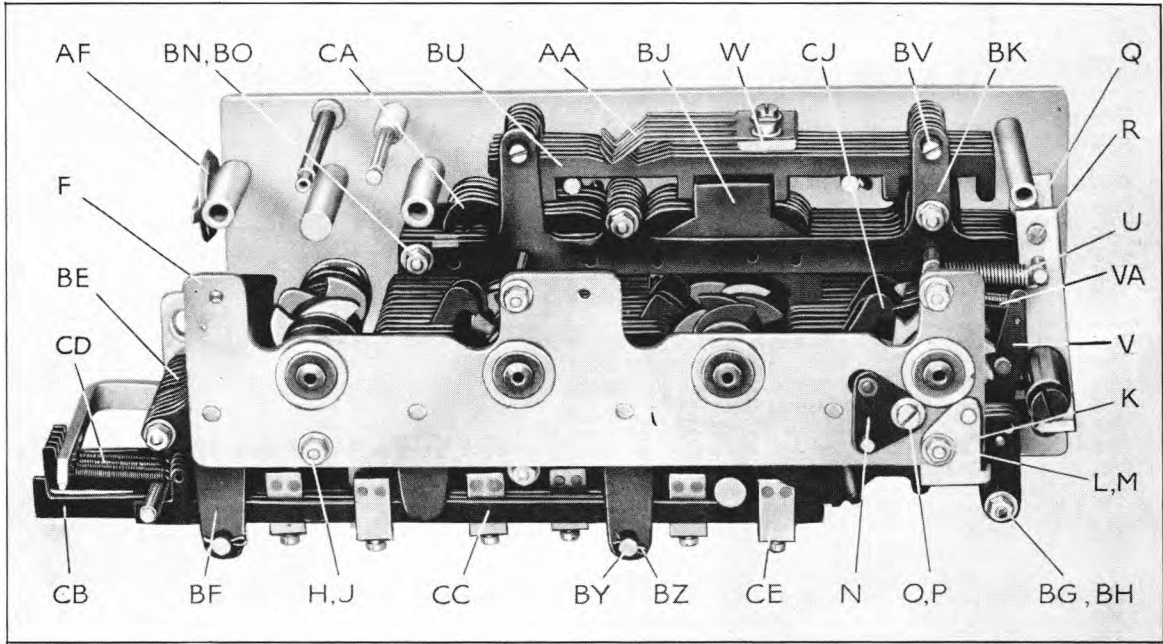


Fig. 27 TRANSFER UNIT S1942 (For C.T. Keyboards)

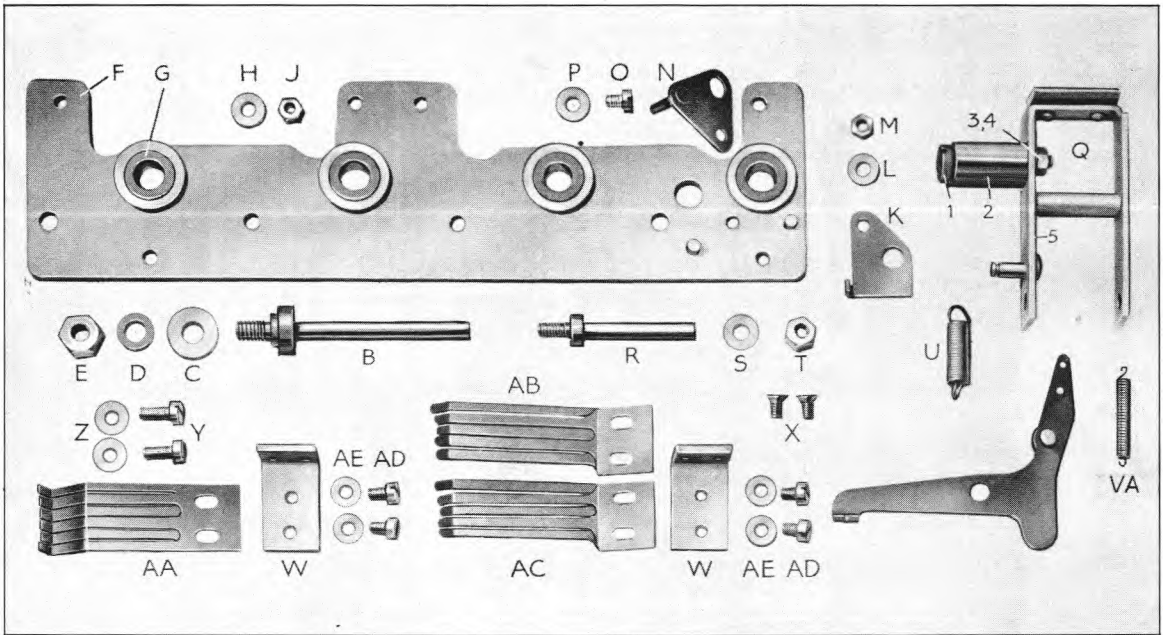


Fig. 28 TRANSFER UNIT COMPONENTS (For C.T. Keyboards)

TRANSFER UNIT S.1942B
GROUP 3

(See Figs. 27, 28, 29, 30, 31 and 32)

FOR C.T. KEYBOARDS

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
BACK AND FRONT PLATES		
A	1856/248B	Back Plate C.P., with pins driven in and the following replaceable parts:
	PB.3013	Oil impregnated bush (flanged) 3 per set
	PB.1533	Oil impregnated bush (parallel)
	PW.5480	Oil impregnated thrust washer
B	PP.8697	Flanged pin
C	PW.1029-1	Std. 2BA Washer
D	PW.2013	Std. 2BA Spring Washer
E	PN.1005-1	Std. 2BA Nut
F	1856/74A	Front Plate C.P. includes:-
G	PB.3013	Oil impregnated bush (flanged)
H	PW.1013-1	Std. 6BA Washer
J	PN.1013-1	Std. 6BA Nut
K	1856/194A	Abutment Bracket
L	PW.1013-1	Std. 6BA Washer
M	PN.1513-1	Std. 6BA Locknut
N	1856/108	Trip Lever Stop Plate C.P.
O	PS.2042-1	Std. 6BA Screw
P	PW.1013-1	Std. 6BA Washer

} Not visible

LOCKING FRAME AND TRIP LOCK LEVER

Q	1856/175A	Locking Frame C.P. comprises:-
Q ₁	EC.1511	Eccentric Screw
Q ₂	RL.1060	Roller
Q ₃	PW.1013-1	Std. 6BA Washer
Q ₄	PN.1013-1	Std. 6BA Nut
Q ₅	1856/174A	Locking Frame Sub C.P.
R	PP.8600	Shouldered Pin (pivot for Item Q)
S	PW.1009-1	Std. 4BA Washer
T	PN.1009-1	Std. 4BA Nut
U	PG.7003	Tension Spring (for Item Q)

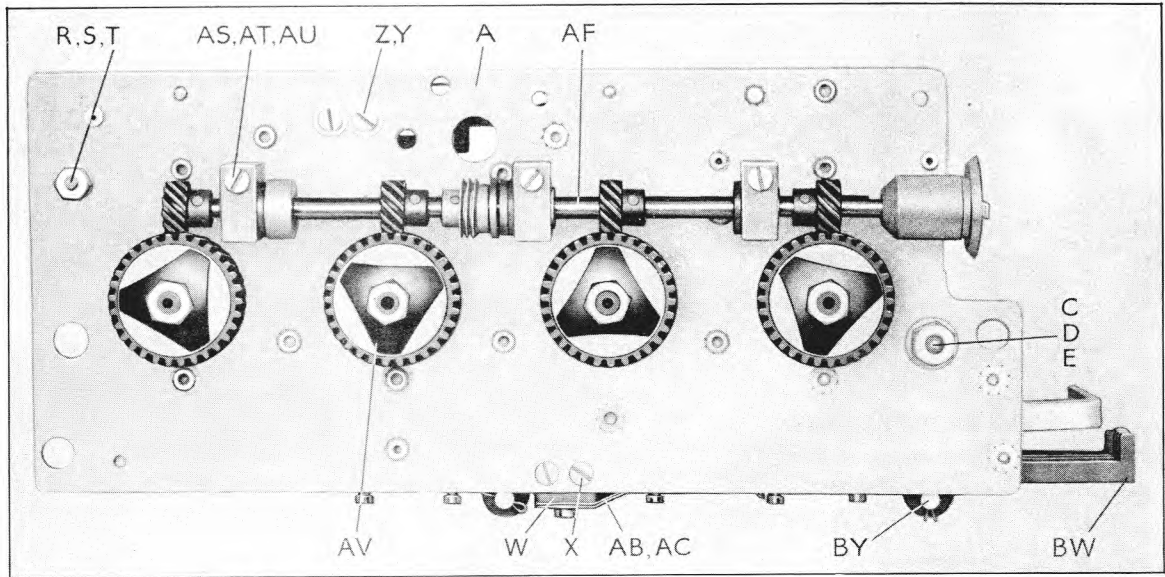


Fig. 29 TRANSFER UNIT (REAR VIEW)
(For C.T. Keyboards)

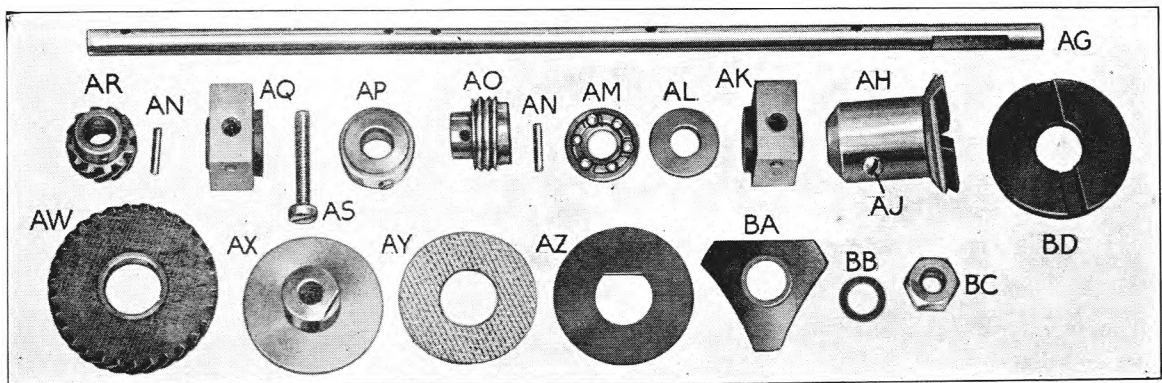


Fig. 30 TRANSFER UNIT COMPONENTS
(For C.T. Keyboards)

SECTION 3 (contd.)
KEYBOARDS

TRANSFER UNIT S.1942B (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
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LOCKING FRAME AND TRIP LOCK LEVER (contd.)

V	1856/201A	Trip Lock Lever Sub C.P.
VA	PG.7393	Tension Spring (<i>for Item V</i>)
W	1856/98	Spring Mounting Plate (<i>2 per set</i>)
X	PS.2047-1	Std. 6BA Screw } <i>2 of each per set</i>
Y	PS.2075-1	Std. 6BA Screw } <i>used for securing</i>
Z	PW.1013-1	Std. 6BA Washer } <i>two plates Item W.</i>
AA	1856/177	First Transfer Bar Comb Spring C.P.
	1856/96	or First Transfer Bar Comb Spring C.P.
AB	1856/97	Second Transfer Bar Comb Spring C.P.
AC	1856/99	Second Transfer Bar Comb Spring C.P.
AD	PS.2042-1	Std. 6BA Screw } <i>4 of each per set</i>
AE	PW.1013-1	Std. 6BA Washer }

TRANSFER UNIT SHAFT AND CLUTCH

AF	1942/41A	Transfer Unit Shaft C.P. <i>comprises:-</i>
AG	1856/115B	Transfer Unit Shaft
AH	1855/162A	Coupling Sleeve
AJ	PS.1670-1	Std. 4BA Grub Screw
AK	1856/109	Bearing Block C.P. (<i>L.H.</i>) <i>2 per set.</i>
AL	PW.5224	Thrust Washer
AM	1856/113	Ball Cage C.P.
AN	PP.2003	Grooved Pin (<i>5 per set</i>)
AO	GR.2046	Worm
AP	CS.1067	Set Collar and 2 Screws <i>assembled</i>
AQ	1856/111	Bearing Block C.P. (<i>R.H.</i>)
AR	GR.2035	Helical Gear (<i>12 teeth</i>) <i>4 per set</i>
AS	PS.2173-1	Std. 6BA Screw } <i>3 of each per set.</i>
AT	PW.2037	Std. 6BA Spring Washer } <i>For securing</i>
AU	PW.1013-1	Std. 6BA Washer } <i>Item AF.</i>
AV	1856/284A	Clutch C.P. <i>comprises Items AW-BC wired together (4 per set)</i>
AW	1856/6	Spiral Gear C.P. (<i>30 teeth</i>) (<i>4 per set</i>)
AX	1856/3	Clutch Body (<i>4 per set</i>)
AY	1856/5	Clutch Canvas (<i>8 per set</i>)
AZ	1856/4	Clutch Pressure Plate (<i>4 per set</i>)
BA	PG.5088	Clutch Pressure Spring (<i>4 per set</i>)
BB	PW.5227	Clutch Shim (<i>28 max.</i>)
BC	1856/292	Clutch Nut (<i>4 per set</i>)
BD	1841/11	S.R.B.F. Coupling Disc (<i>not part of Transfer Unit</i>)

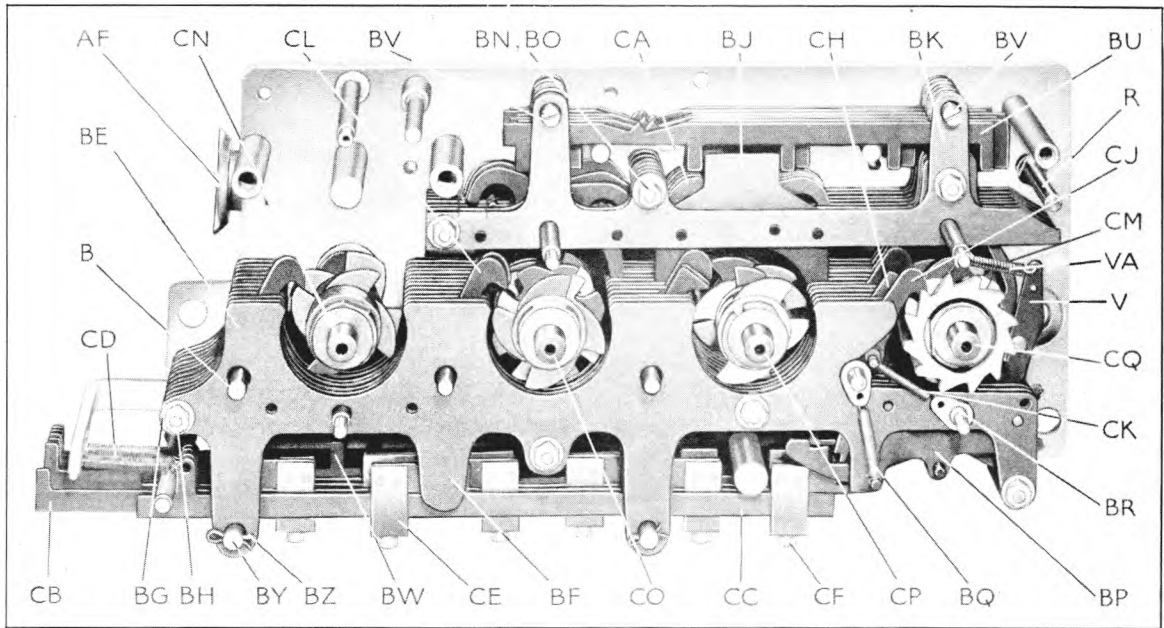


Fig. 31 TRANSFER UNIT PARTIAL ASSEMBLY (For C.T. Keyboards)

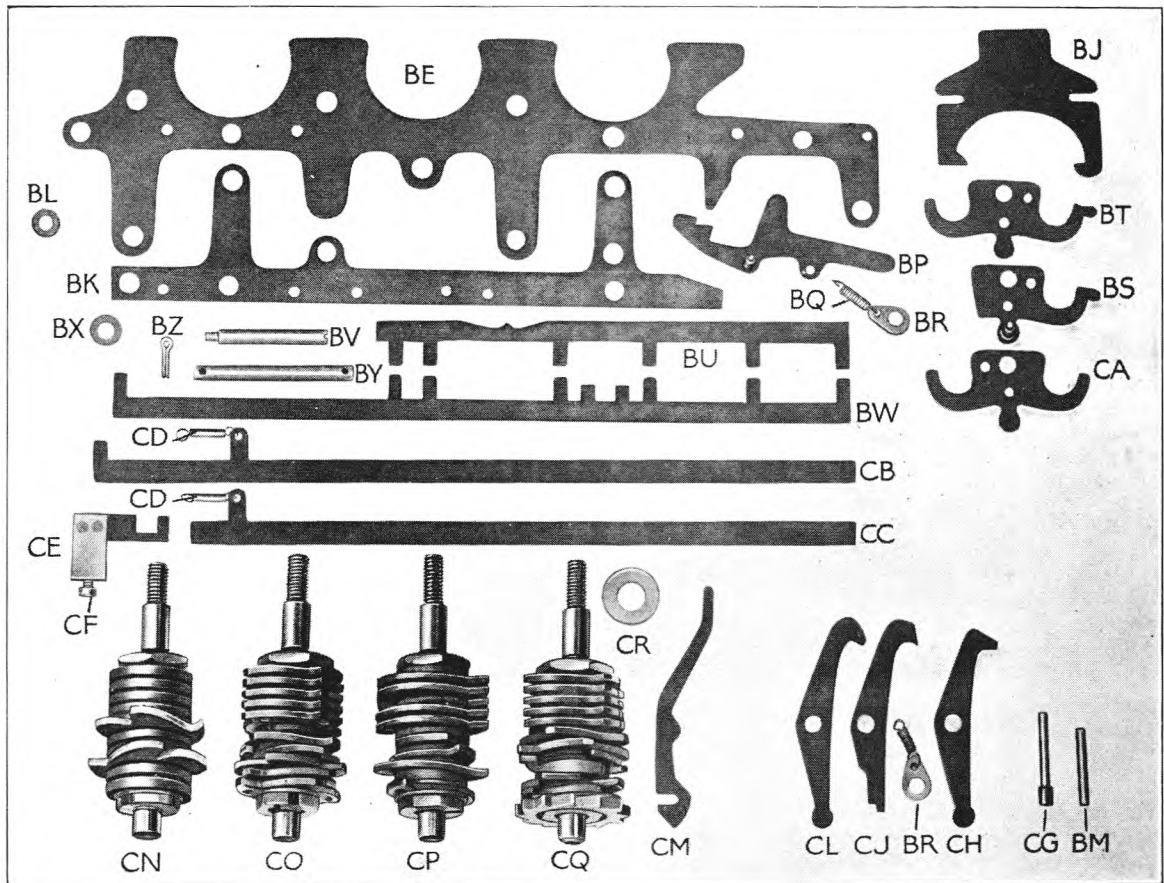


Fig. 32 TRANSFER UNIT COMPONENTS (For C.T. Keyboards)

SECTION 3 (contd.)
KEYBOARDS

TRANSFER UNIT S.1942B (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
TRANSFER MECHANISM AND CAM SHAFTS		
BE	BL.1017	Spacing Plate, without pins (plates Nos. 2, 3, 4, 5, 6, 8 and 10) 8 per set.
	1942/54	Spacing Plate without pin (Plate No. 1)
	1856/46	Spacing Plate with Pin C.P. (Stop) Plate No. 7
	1856/47	Spacing Plate with Pin C.P. (Start) Plate No. 9
	1856/49	Spacing Plate with Pin C.P. (B), Plate No. 11
	1856/50A	Spacing Plate with Pin C.P. (A), Plate No. 12
BF	PN.1013-1	Std. 6BA Nut } 4 of each per set
BG	PW.1013-1	Std. 6BA Washer } for securing spacing plates.
BH		
BJ	1856/62	Case Release
BK	1856/51	Spacing Strip (7 per set)
BL	PW.5654	Special Washers (spacing washers for Items BE, BF and BK) 62 per set.
BM	PP.1100	Parallel Pin (stop pin for Item CA)
BN	PN.1013-1	Std. 6BA Nut } 3 of each per set - retains Item BK.
BO	PW.1013-1	Std. 6BA Washer }
BP	1856/71	Trip Lever C.P.
BQ	PG.7080	Tension Spring
BR	1856/72	Spring Anchor Tag (for Items BQ and CK) 2 per set.
BS	1856/60	Trip Lever Pivot Arm C.P.
BT	1856/178	Selecting Arm (with tooth) 6 per set.
BU	1856/176	Transfer Bar (first) 6 per set.
BV	PP.5520	Threaded Pin (2 per set)
BW	1856/77	Transfer Bar (second) 5 per set.
BX	PW.5232	Special Washer (Spacing Washers as required, for Item BW) 5 per set.
BY	1856/87A	Second Transfer Bar Bearing Pin (2 per set)
BZ	PP.5017	Split Pin (4 per set)
CA	1856/57	Selecting Arm (without tooth) 10 per set.
CB	1856/80	Interlocking Bar (long)
CC	1856/81	Interlocking Bar (short) 4 per set.
CD	PG.7070	Tension Spring (for Items CB and CC) 5 per set.
CE	1856/86	Adjusting Clamp C.P. (12 per set), include:-
CF	PS.2445-1	Std. 8BA Screw
CG	PP.7621	Shouldered Pin (short), pivots for Item CM (6 per set)
CH	1856/63	Cam Lever (6 per set)
CJ	1856/66	Trip Detent C.P.
CK	PG.7070	Tension Spring
CL	1856/64	Detent Lever (6 per set)
CM	1856/52	Operating Lever (for code, case and reading shafts) 28 per set.
CN	2085/40A	Counter Cam Shaft C.P.
CO	1856/293	Code Shaft C.P.
CP	1856/38	Case Shaft C.P.
CQ	1856/37	Reading Shaft C.P.
CR	PW.5226	Special Washer, .005" thick (used as required at either end of Items CN, CO, CP and CQ for longitudinal adjustment) 8 per set.

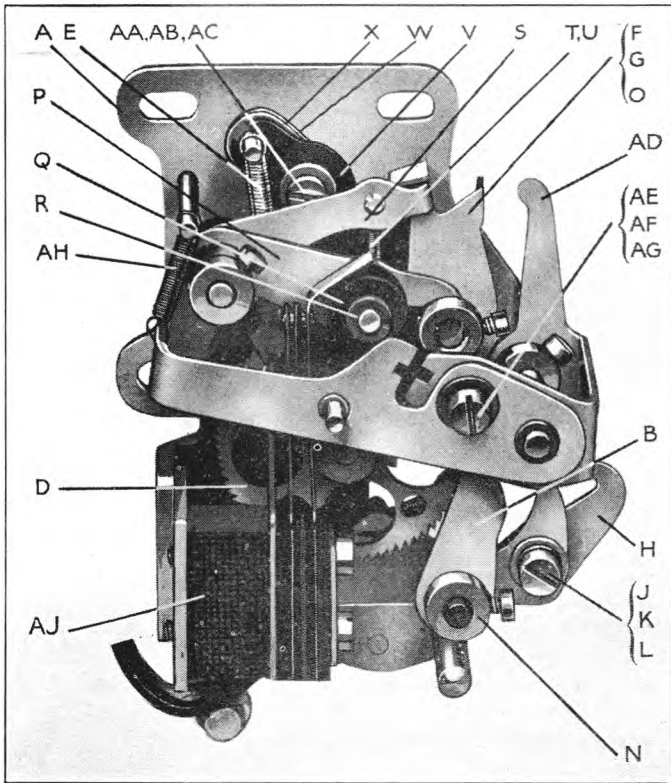
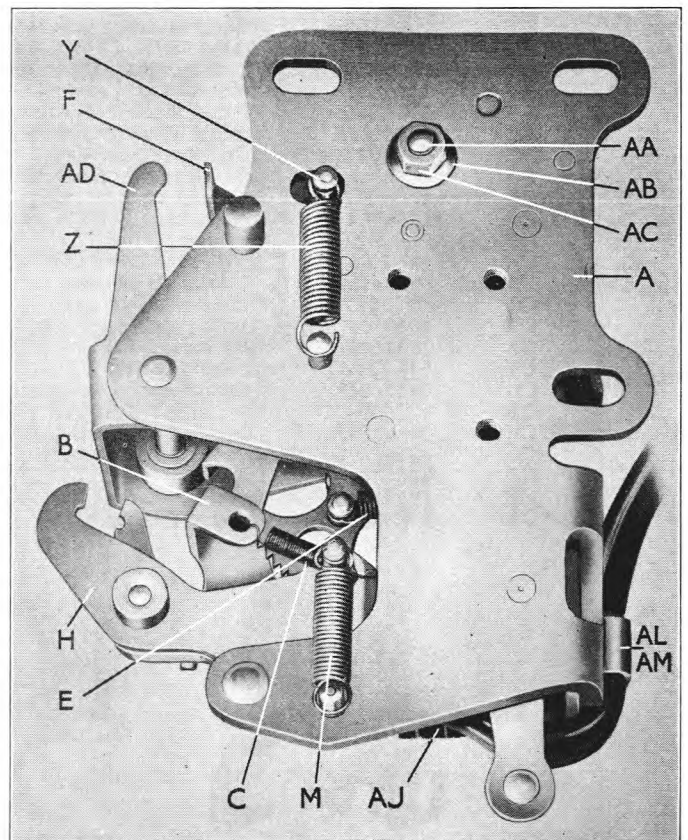


Fig. 33 COUNTER UNIT S2258
(GRP 4)
(FRONT VIEW) For Types N3 or N4 Keyboards

Fig. 34 COUNTER UNIT S2258 (GRP 4)
(REAR VIEW) For Types N3 or N4 Keyboards



COUNTER UNIT S.2258 GROUP 4

(See Figs. 33 and 34)

**FOR TYPE N3 AND N4 KEYBOARDS ONLY, FITTED WITH
END-OF-LINE INDICATOR**

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	2258/1A	Back plate C.P. <i>comprises backplate with pins riveted or pressed in.</i>
B	2258/43	Feed pawl C.P.
C	PG.7219	Tension spring (for item B)
D	2084/68	Ratchet wheel C.P.
E	PG.7198	Tension spring (return spring for item D)
F	2084/75A	Retention pawl C.P.
G	PG.7070	Tension spring (for item F, not visible)
H	2258/3	Feed lever C.P. includes:-
J	PS.2061-1	Std. 6BA screw
K	PW.1013-1	Std. 6BA washer
L	PW.2037	Std. 6BA spring washer
M	PG.7208	Tension spring (for item H)
N	CS.1026	Set collar and screw (for securing items B, D, F, H, P and S) 6 per set.
O	PB.1024	Spacing collar (between item F and item N)
P	2085/28	Contact operating lever C.P.
Q	2085/8	Contact roller
R	23955A	Locking ring (retains item Q)
S	2085/74	Ratchet wheel stop plate C.P.
T	PG.7197	Tension spring (for item S)
U	PW.5143	Special washer
V	PG.3074	Semi-elliptic spring
W	2084/124	Clamp plate
X	2084/125	Friction piece (canvas) 2 per set
Y	2084/126	Damping buffer C.P.
Z	PG.7176	Tension spring
AA	PS.2125-1	Std. 6BA screw
AB	PW.1013-1	Std. 6BA washer
	PW.2037	Std. 6BA spring washer
AC	PN.1013-1	Std. 6BA nut
	PP.5564	Resetting lever pivot
	PW.1017-1	Std. 8BA washer
	PW.2050	Std. 8BA spring washer
	PN.1017-1	Std. 8BA nut
AD	2258/6A	Resetting lever C.P. includes:-
AE	PS.2072-1	Std. 6BA Capstan head screw
AF	PW.1013-1	Std. 6BA washer
AG	PW.2037	Std. 6BA spring washer
	CS.1056	Set collar and screw (for retaining item AD)
AH	PG.7173	Tension spring (for item AD)
AJ	2258/29A	Contact Bank C.P.
AK	PS.2043-1	Std. 6BA screw (2 per set) for securing item AJ to item A.
	2305/3 Gr.1	Twin plug C.P.
AL	2085/45	Wire clip

} Damping buffer
for item S.

} for securing resetting lever
pivot (not visible)

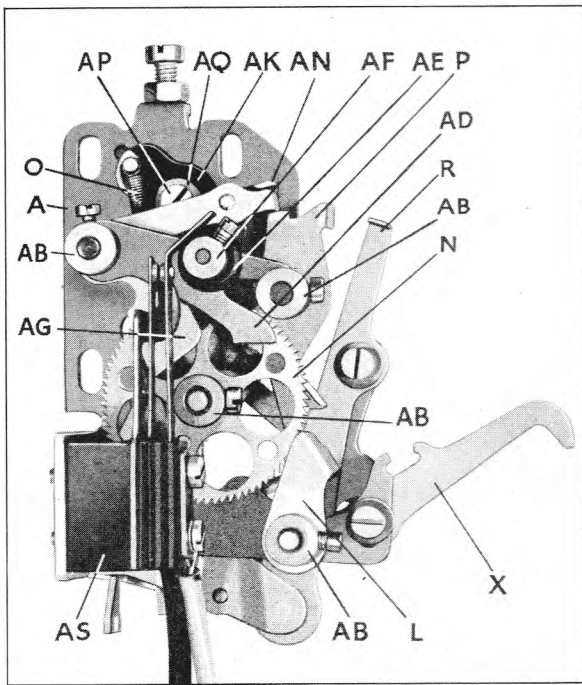


Fig. 35 COUNTER UNIT
2085/62 GRP2 (FRONT VIEW)

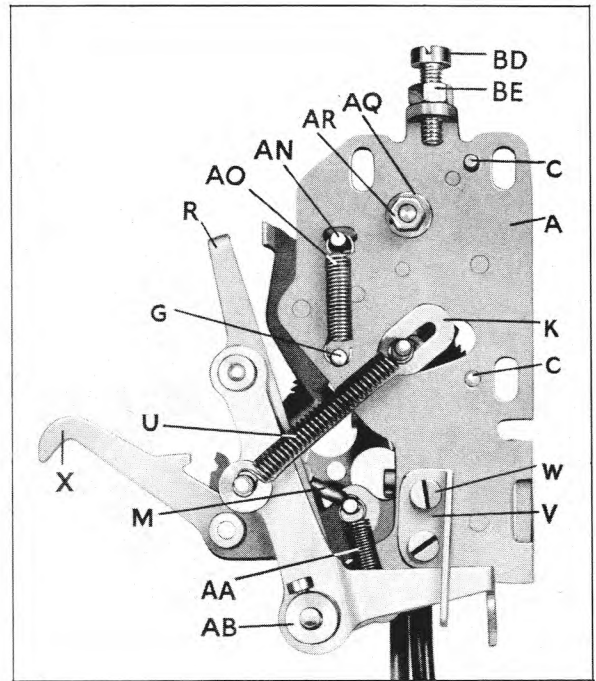


Fig. 36 COUNTER UNIT
2085/62 GRP2 (REAR VIEW)

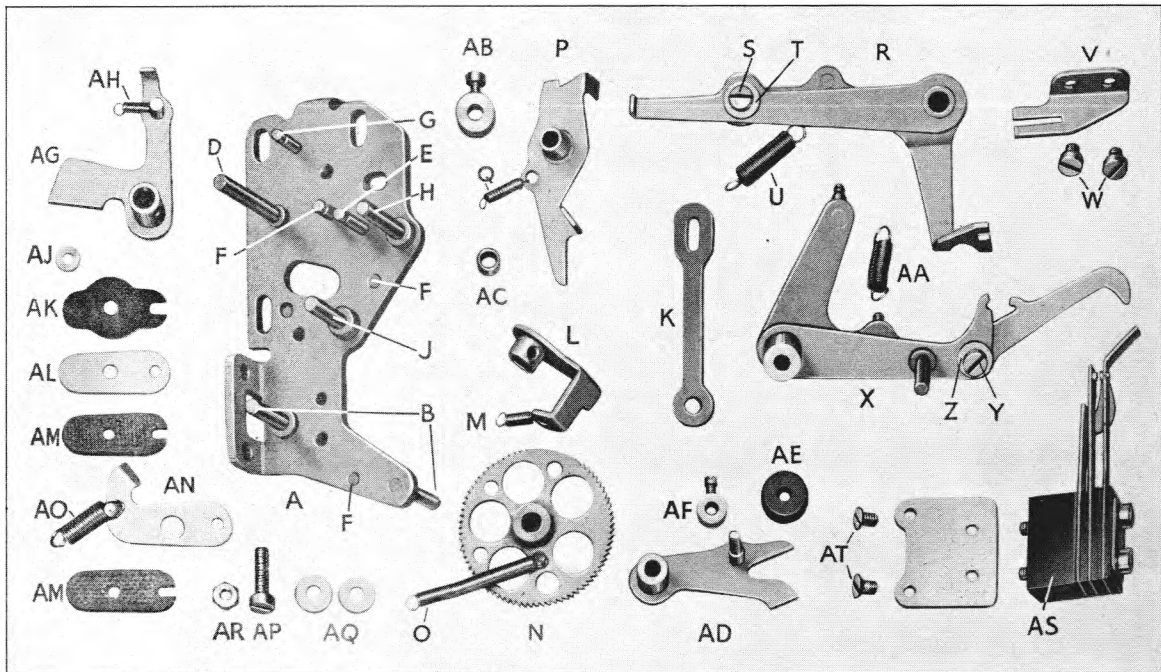


Fig. 37 COUNTER UNIT COMPONENTS (For C.T. Keyboards)

SECTION 3 (contd.)
KEYBOARDS

COUNTER UNIT 2085/62, GROUP 2

(See Figs. 35, 36 and 37)

**FOR C.T. KEYBOARD ONLY FITTED WITH
END-OF-LINE INDICATOR**

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	2085/27	Counter back plate C.P. <i>includes:-</i>
B	2084/127	Pivot (2 per set) for items R and X.
C	PP.1092	Locating pin (2 per set)
D	2085/13	Stop plate pivot
E	PP.4023	Spring anchor pin
F	2084/79	Spring anchor pin (3 per set)
G	PP.4022	Spring anchor pin
H	2084/20	Retention pawl pivot
J	2084/25	Ratchet wheel pivot
K	2085/7	Release link
L	2084/77	Feed pawl C.P.
M	PG.7080	Tension spring (for item L)
N	2084/68	Ratchet wheel C.P.
O	PG.7198	Tension spring (return spring for item N)
P	2084/75A	Retention pawl C.P.
Q	PG.7070	Tension spring (for item P, not visible)
R	2085/23	Trip lever C.P. <i>includes:-</i>
S	PS.2061-1	Std. 6BA screw
T	PW.1013-1	Std. 6BA washer
U	PG.7020	Tension spring (for item R)
V	2085/35	Trip lever guide
W	PS.2029-1	Std. 6BA screw (2 per set) for securing item Y.
X	2085/26	Feed lever C.P. <i>includes:-</i>
Y	PS.2061-1	Std. 6BA screw
Z	PW.1013-1	Std. 6BA washer
AA	PG.7076	Tension spring (for item X)
AB	CS.1027	Set collar and screw (for securing items L, N, P, R, X and AD) 6 per set.
AC	PB.1024	Spacing collar (between items P and AB)
AD	2085/28	Contact operating lever C.P.
AE	2084/8	Contact roller
AF	CS.1015	Set collar and screw (for securing item AE)
AG	2084/74	Ratchet wheel stop plate
AH	PG.7197	Tension spring
AJ	PW.5143	Special washer (between items AD and AG)
AK	PG.3074	Semi-elliptic spring
AL	2084/124	Clamp plate
AM	2084/125	Friction piece (canvas) 2 per set.
AN	2084/126	Damping buffer C.P.
AO	PG.7176	Tension spring
AP	PS.2109-1	Std. 6BA screw
AQ	PW.1013-1	Std. 6BA washer
	PW.2037	Std. 6BA spring washer
AR	PN.1013-1	Std. 6BA nut
AS	2305/4 Gr.2	Contact bank C.P.
AT	PS.2043-1	Std. 6BA screw
AU	PS.1717-1	Std. 4BA screw
AV	PW.1009-1	Std. 4BA washer
	2305/3 Gr.1	Twin plug C.P.

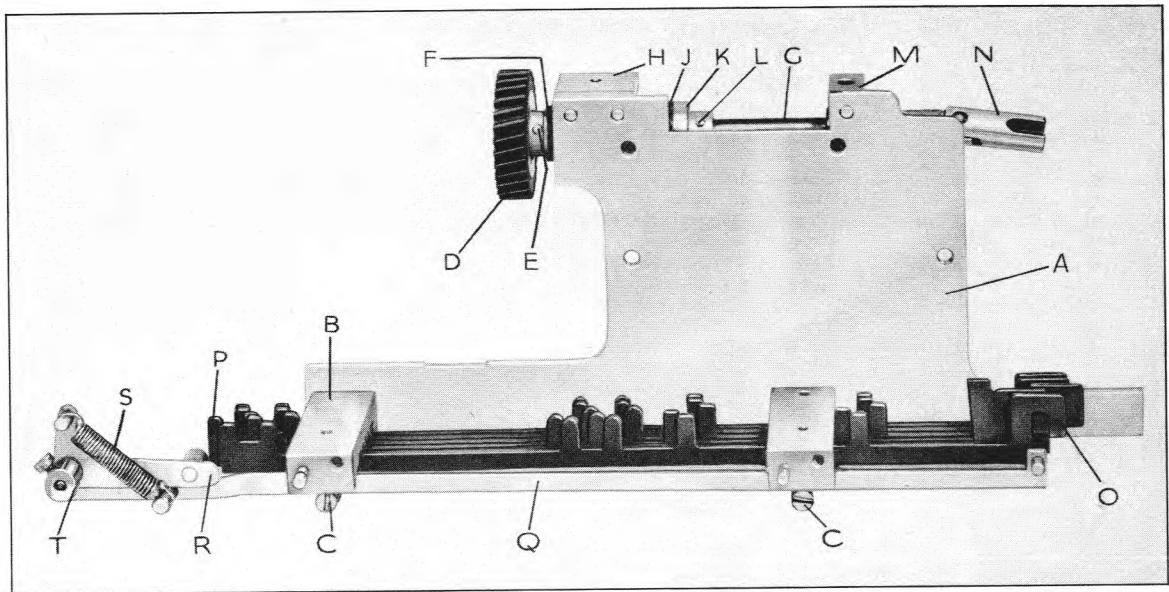


Fig. 38 LINK UNIT S1976

SECTION 3 (contd.)
KEYBOARDS

PERFORATOR LINK UNIT S.1976

(See Fig. 38)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	1976/1A	Back Plate
B	1857/43	Rack C.P. (2 per set)
	PS.2063-1	Std. 6BA Screw (2 per set) for securing Item B. Not visible.
C	PP.5520	Threaded Pin (2 per set)
	2902/1A	Driving Shaft C.P. comprises:-
D	1947/174A	Gear C.P. (30 teeth) includes:-
	GR.2042A	Spiral gear
E	PP.2044	Parallel Pin (for pinning Item D to Item G)
F	PW.5262	Special Washer
G	1971/33A*	Driving Shaft
H	1971/79*	Bearing Block C.P. (R.H.)
	1856/113	Ballrace
J	PW.5224	Thrust Washer (2 per set)
K	1971/84*	Thrust Collar
L	PP.2043	Parallel Pin (for pinning Item K to Item G)
M	1856/109	Bearing Block C.P. (L.H.)
N	1971/81*	Coupling C.P.
	PP.6758	Taper Pin (for pinning Item N to Item G)
	PS.2173-1	Std. 6BA Screw
	PW.1013-1	Std. 6BA Washer
	PW.2037	Std. 6BA Spring Washer
		} 3 of each per set for } securing Driving Shaft C.P. } Not visible.

The following parts are used on Type N Keyboards only

1947/249A	Trip Lever and Link C.P., comprises:-
1947/248	Perforator Trip Bar C.P.
1947/33A	Trip Link C.P.
PG.7213	Tension Spring
CS.1011	Set Collar and Screw

The following parts are used on Type C.T.K. Keyboards only

O	1947/203	Transfer Bar (4 per set)
P	1947/270	Transfer Bar C.P.
	1947/220A	Trip Lever and Link C.P. comprises:-
Q	1947/171	Perforator Trip Bar C.P.
R	1947/33A	Trip Link C.P.
S	PG.7213	Tension Spring
T	CS.1011	Set Collar and Screw

* These parts should not be ordered unless the customer is prepared to drill and ream the pin holes.

SECTION 4

PERFORATING UNIT

NOTE:— EITHER CENTRE OR ADVANCE FEED
HOLE IS OPTIONAL

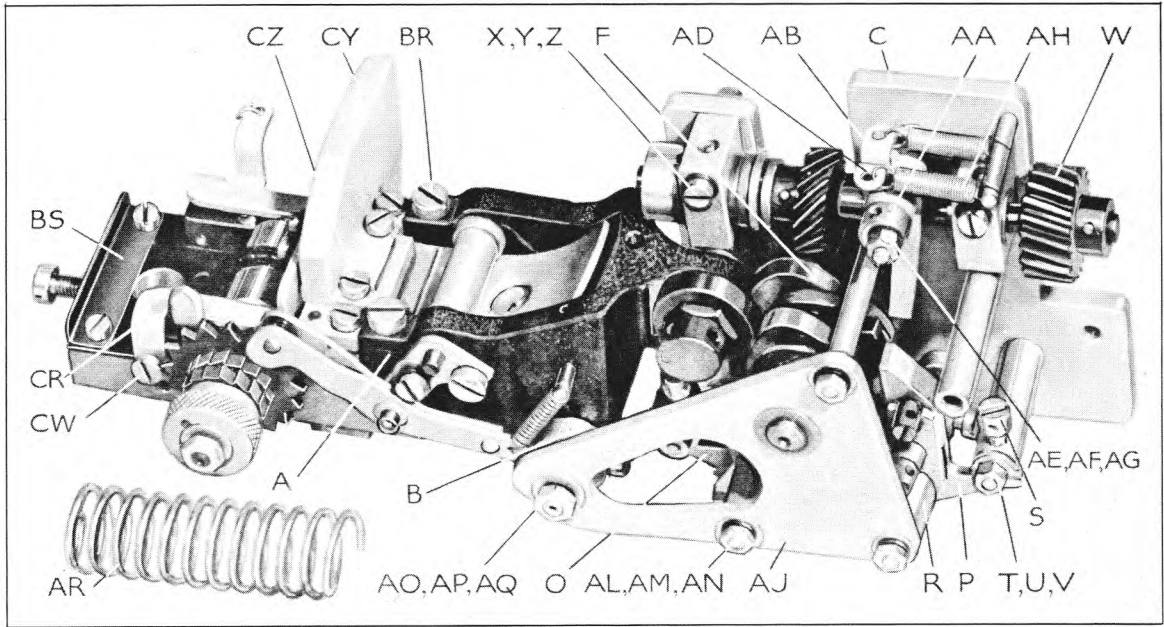


Fig. 39 PUNCH BLOCK UNIT 1947/10B

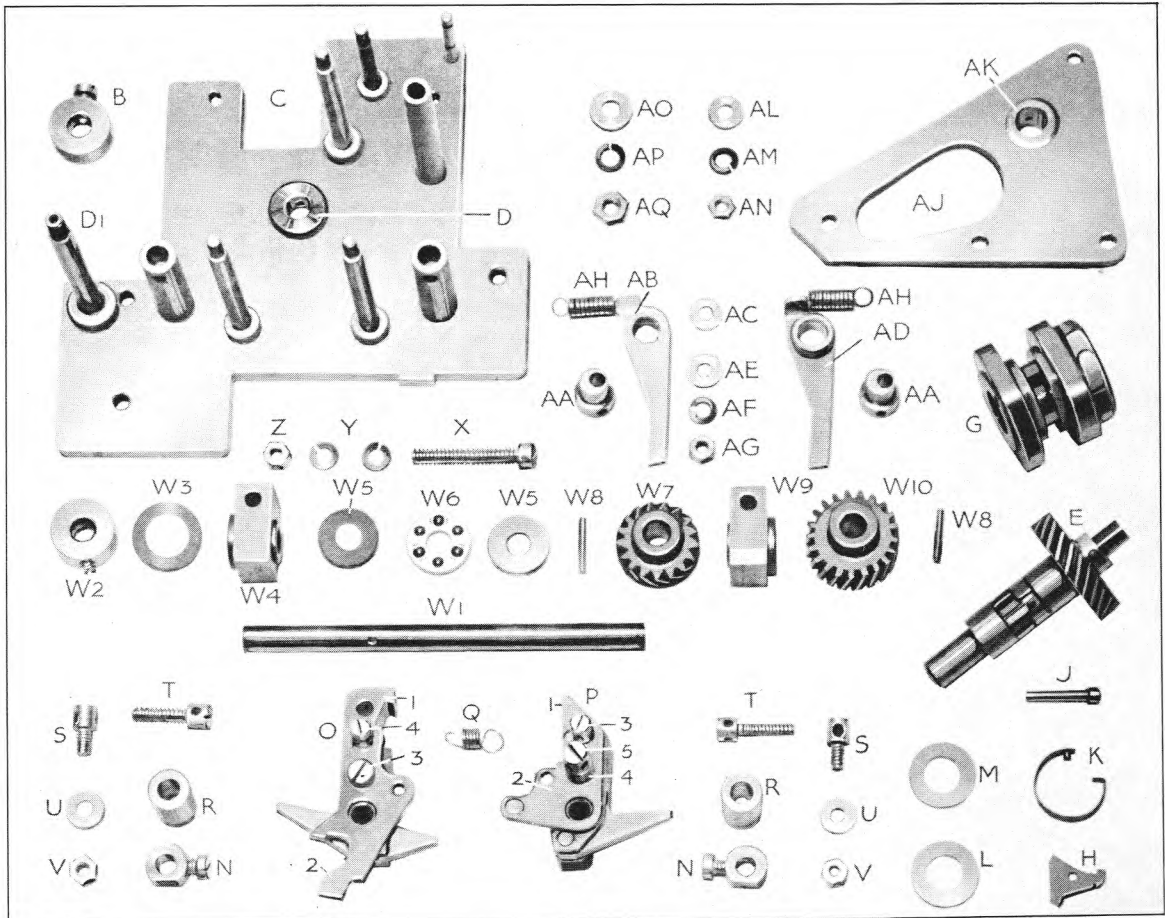


Fig. 40 PUNCH BLOCK UNIT COMPONENTS

PUNCH BLOCK UNIT 1947/10B (CONTD.)

Index Letter	Part No.	Part Name
<i>Front Plate</i>		
AG	PN.1013-1	Std. 6BA Nut
AH	PG.7100	Tension Spring (2 per set)
AJ	1947/41B	Front Plate C.P., includes:-
AK	PE.3158	Shouldered Bush
AL	PW.1013-1	Std. 6BA Washer (no longer used)
AM	PW.2037	Std. 6BA Spring Washer } 3 of each
AN	PN.1513-1	Std. 6BA Nut } per set
AO	PW.1009-1	Std. 4BA Washer (no longer used)
AP	PW.2026	Std. 4BA Spring Washer
AQ	PN.1509-1	Std. 4BA Locknut

<i>Punch Block Spring</i>		
AR	PG.5036	Compression spring (not part of Punch Block Unit 1947/10)

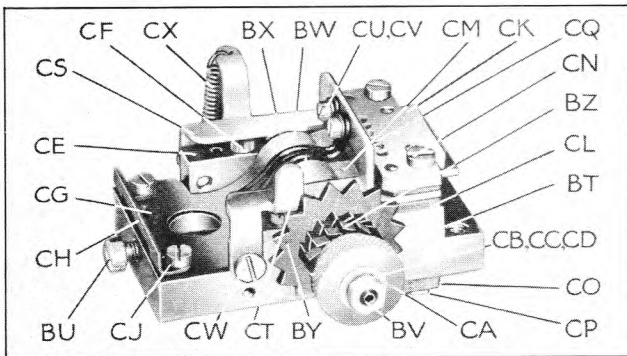


Fig. 41 PUNCH BLOCK HEAD C.P.
 1947/90A

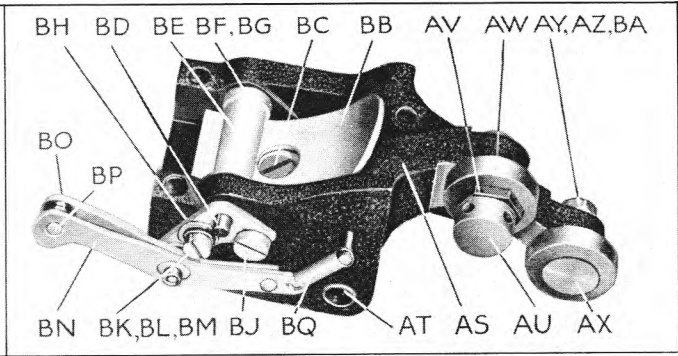


Fig. 42 PUNCH BLOCK FULCRUM C.P.
 1947/72

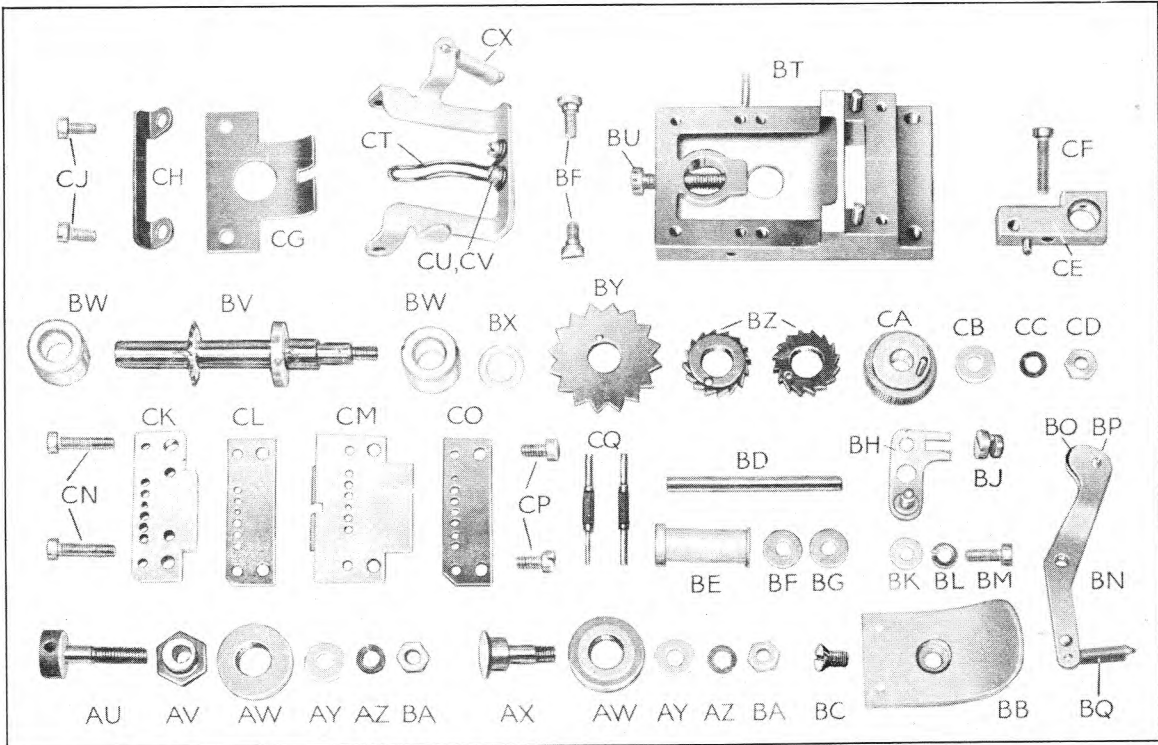


Fig. 43 PUNCH BLOCK HEAD C.P. AND PUNCH BLOCK FULCRUM C.P. COMPONENTS

SECTION 4 (contd.)
PERFORATING UNIT

PUNCH BLOCK HEAD AND FULCRUM C.P. 1947/70C (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>		
CN	PS.2125-1	Std. 6BA Screw (2 per set) for securing Items CK, CL and CM.		
CO	1947/275	Bottom Guide Plate (Centre Feed)	} 4 per set	
	1947/274	or Bottom Guide Plate (Advance Feed)		
CP	PS.2061-1	Std. 6BA Screw (2 per set) for securing Item CO.		
CQ	1947/272	Set of Punches		
CR	1947/243	Tape Guide Frame C.P., comprises:-	} No longer used, replaced by parts of later design. See below.	
CS	1947/245	Tape Guide Frame		
CT	1947/244	Tape Guide		
CU	PW.2050	Std. 8BA Spring Washer		} 2 of each per set for securing Item CT to Item CS
CV	PS.2430-1	Std. 8BA Screw		
CW	PS.5544A	Shouldered Screw (2 per set)		} 2 of each per set for securing Tape Guide to Tape Guide Frame C.P.
CX	PG.7204	Tension Spring (for Item CR)		
	1947/317A	Tape Guide Frame C.P.		} New parts, not illustrated, replacing Items CR-CX above.
	1947/323A	Tape Guide		
	PS.2477-1	Std. 8BA Screw		} 2 of each per set for securing Tape Guide to Tape Guide Frame C.P.
	PW.2050	Std. 8BA Spring Washer		
	PW.1017-1	Std. 8BA Washer	} 2 per set	
	PS.5640	Shouldered Screw		
	PW.5649	Special Washer	} Tension Spring (for Tape Guide Frame C.P.)	
	PG.7388A	Tension Spring (for Tape Guide Frame C.P.)		
	1947/321	Latch Support	} Secures Tape Guide Frame Latch C.P.	
	PS.2061-1	Std. 6BA Screw (2 per set) for securing Latch Support.		
	1947/318	Tape Guide Frame Latch C.P.	} Secures Tape Guide Frame Latch C.P.	
	PS.5637	Eccentric Screw (Pivot for Tape Guide Frame Latch C.P.)		
	PW.1013-1	Std. 6BA Washer	} Secures Tape Guide Frame Latch C.P.	
	PW.2037	Std. 6BA Spring Washer		
	PN.1013-1	Std. 6BA Nut	} Secures Tape Guide Frame Latch C.P.	
	PG.7078	Tension Spring (for Tape Guide Frame Latch C.P.)		
	3785/22A	Cuttings Chute C.P. (for Model 7P) not illustrated.	} Secures Tape Guide Frame Latch C.P.	
CY	1947/123A	or Cuttings Chute C.P. (for Model 67P) as illustrated.		
CZ	PS.2042-1	Std. 6BA Screw (2 per set) for securing Cuttings Chute.		

* These parts, although shown separately in Fig. 43, are line reamed on assembly in our factory. Customers unable to perform this operation should order either of the following two C.P.s, which comprise the above items marked * assembled:-

- 1947/259B Die Assembly (for Centre Feed)
- or 1947/258B Die Assembly (for Advance Feed)

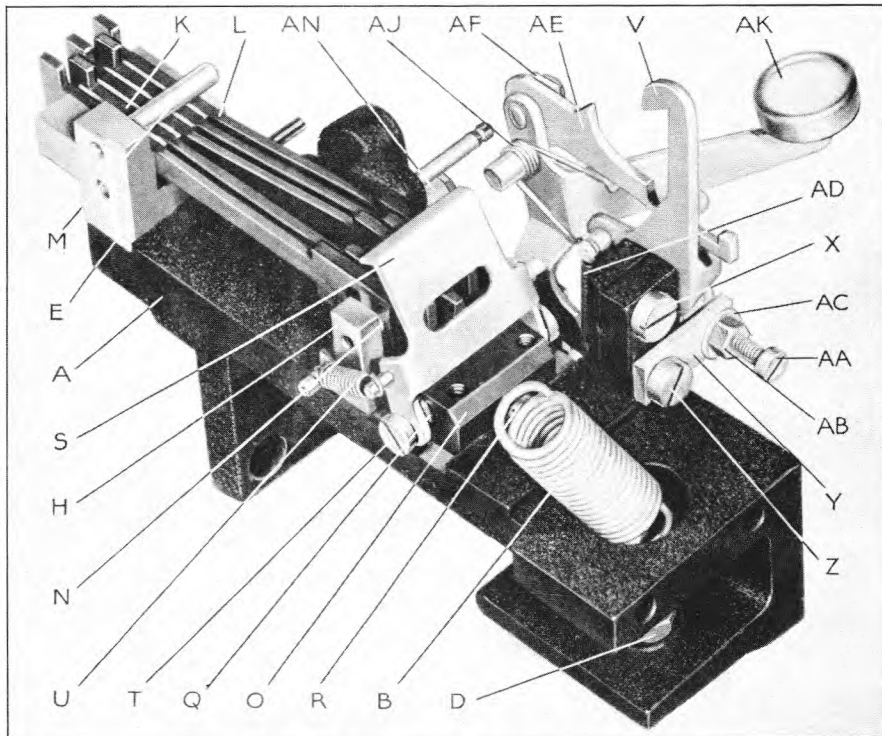


Fig. 44 ANVIL BRACKET C.P. 1947/130C

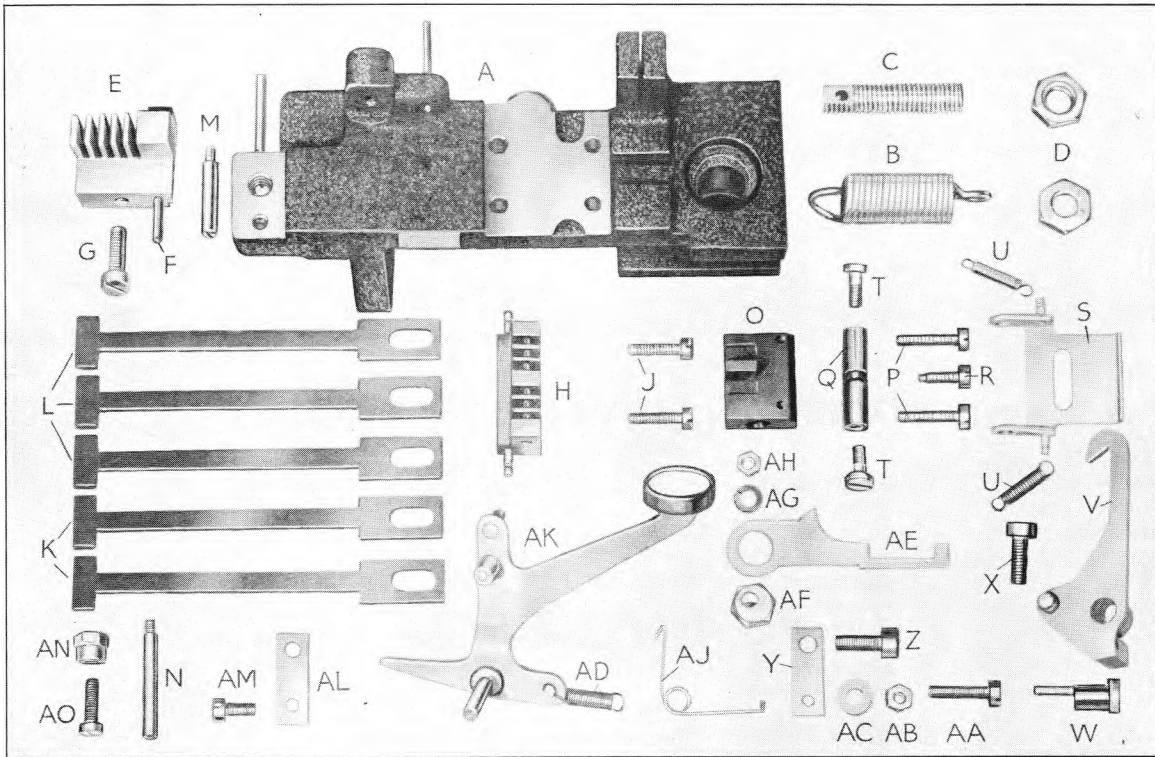


Fig. 45 ANVIL BRACKET C.P. COMPONENTS

ANVIL BRACKET C.P. 1947/130C, GROUP 2

(See Figs. 44 and 45)

ALL MODELS

Index Letter	Part No.	Part Name
<i>Bracket and Spring</i>		
A	1947/132B	Anvil bracket casting C.P.
B	PG.7152	Tension spring
C	1947/217	Spring adjuster
D	PN.1501-1	Std. OBA locknut (2 per set) for locking item C.
<i>Selector Bars and Racks</i>		
E	1947/234	Rack C.P.
F	PP.1098	Parallel pin (for positioning item E)
G	PS.1717-1	Std. 4BA screw (secure item E)
H	1947/137	Rack C.P. (anvil end)
J	PS.2109-1	Std. 6BA screw (2 per set) for securing item H.
K	1947/156	Selector bar, straight (2 per set)
L	1947/158	Selector bar, bent (3 per set)
M	PP.5522	Threaded pin (no longer used)
N	PP.5523	Threaded pin (2 per set) for retaining items K and L.
<i>Anvil</i>		
O	1947/141A	Anvil
P	PS.2125-1	Std. 6BA screw (2 per set) for securing item O.
<i>Punch Withdrawing Bracket</i>		
Q	EC.5032A	Eccentric threaded collar
R	PS.2093-1	Std. 6BA screw (for clamping item Q)
S	1947/143A	Punch withdrawing bracket C.P.
T	PS.5544A	Shouldered screw (2 per set) for securing item S.
U	PG.7186	Tension spring (2 per set) for item S.

**SECTION 4 (contd.)
PERFORATING UNIT**

ANVIL BRACKET C.P. 1947/130C, GROUP 2 (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
<i>Feed Pawl</i>		
V	1947/150	Feed Pawl C.P.
W	EC.1025	Eccentric (for adjusting item V)
X	PS.1694-1	Std. 4BA screw (for clamping item W)
	1947/305	Pivot adjusting plate C.P.
	PS.2061-1	Std. 6BA screw
	PW.2037	Std. 6BA spring washer
	PW.1013-1	Std. 6BA washer
		<i>no longer used - replaced by parts of new design. (See below)</i>
		<i>2 of each per set for securing Pivot adjusting plate C.P.</i>
		<i>New parts. Adjustments for item V not illustrated.</i>
<i>Feed Pawl Stop</i>		
Y	1947/152	Pawl adjustment plate (no longer used)
	1947/304	Pawl adjustment plate (replaces item Y)
Z	PS.1694-1	Std. 4BA screw (for securing item Y)
AA	PS.5301-1	Special screw
AB	PN.1013-1	Std. 6BA nut
AC	PW.1013-1	Std. 6BA washer
		<i>Adjustment for item V.</i>
<i>Back Space Mechanism</i>		
AD	PG.7322	Tension spring (for item V)
AE	1947/302	Feed pawl release bar
AF	EC.1561	Eccentric
	PW.5632	Spacing collar
	1947/303	Back space pawl
	PG.3145	Torsion spring (for Back space pawl)
AG	PW.2037	Std. 6BA spring washer
AH	PN.1513-1	Std. 6BA locknut
AJ	PG.3058	Torsion spring (for item AE)
AK	1947/160B	Back space lever C.P. comprises:-
	1947/161B	Back space lever sub C.P.
	860/184	Keybutton cap
	860/185	Keybutton glass
	PL.1401	Keylabel
AL	1830/115	Keep plate (no longer used, replaced by new parts)
	1947/298A	Pivot pin C.P. (new part - not illustrated)
AM	PS.2061-1	Std. 6BA screw (for securing item AL)
AN	EC.5034	Eccentric (stop for item AK)
AO	PS.2125-1	Std. 6BA screw (secures item AN)
		<i>new parts - not illustrated.</i>
		<i>for retaining item AE.</i>

SECTION 5

AUTO-TRANSMITTER

This section applies to the No. 67P only

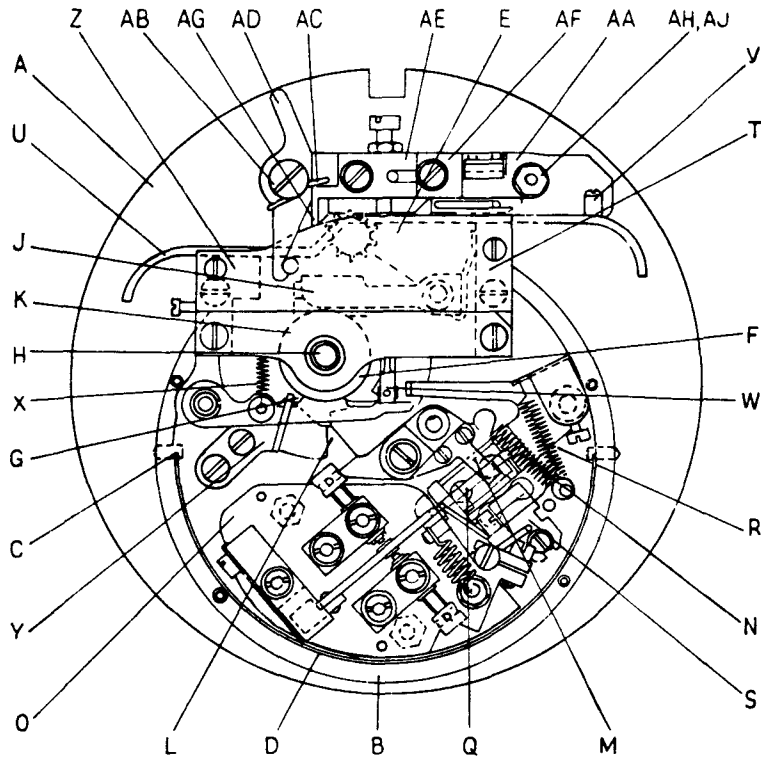


Fig. 46 TRANSMITTER HEAD C.P. (FRONT VIEW)

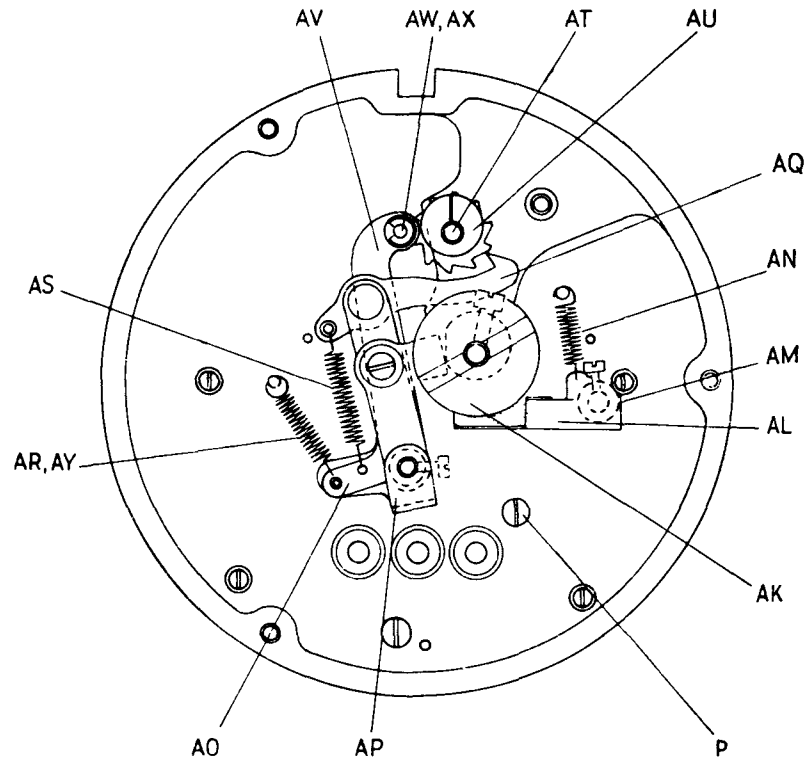


Fig. 47 TRANSMITTER HEAD C.P. (REAR VIEW)

TRANSMITTER HEAD C.P.S. 3797 GROUP 1

(See Figs. 46 and 47)

FOR ALL MODELS OF NO. 67P

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
MAIN FRAME AND COVERS			
A	1550/619	Main frame C.P., comprises machined and finished casting with the following replaceable items assembled:-	
	PB.4286(3/8")	Oil-impregnated bush, 3/8" long not visible. Rear bearing for item AT.	} State length required when ordering.
	PB.1466(1/4")	Oil-impregnated bush, 1/4" long not visible. Front bearing for item AT.	
	PB.4276	Oil-impregnated bush. (not visible. Bearing for item H) 2 per set.	
B	1550/40A	Cover guide	
	PS.2541-1	Std. 8BA screw (4 per set) for securing item B.	
C	1550/207	Cover retention stud (2 per set)	
D	PG.2124	Flat spring	
E	1550/388	Cover plate C.P.	
	PS.2447-1	Std. 8BA screw (2 per set) for securing item E.	
	1550/345C	Front cover (not shown)	
	1550/614	Rear cover (not shown)	
	PS.1676-1	Std. 4BA screw (3 per set) for securing rear cover plate.	
TRANSMITTER AND STRIKER CAM ASSEMBLY			
	1550/633 Gr.1	Transmitter and striker cam C.P., comprises:-	
F	1550/617	Transmitter cam	
G	1550/616	Striker cam	
	PS.6105	Special screw (for clamping item F to item H)	
	PS.2432-1	Std. 6BA screw (2 per set) for securing item G to item F.	
H	1550/604	Cam spindle	
J	1550/264	Lubricator C.P.	
	23956A	Locking ring (for securing item F)	
K	1550/355	Cam spindle bearing plate C.P., includes:-	
	30 10/6	Oil-impregnated bush	
	PS.2061-1	Std. 6BA screw (2 per set) for securing item K to item Z.	
STRIKER CAM FOLLOWER			
L	1550/635	Striker cam follower and arm C.P. comprises:-	
	1550/600	Striker cam follower C.P.	
	1550/586	Insulating block (supports item K)	
	PS.2122-1	Std. 6BA screw	} for securing item L to insulating block.
	PW.1013-1	Std. 6BA washer	
	PW.2037	Std. 6BA spring washer	
M	1550/585	Striker operating arm	
	1550/601	Shim .005" thick (under item M) 5 per set maximum.	
	PS.2847-1	Std. 10BA screw	} 2 of each per set for securing item M to insulating block.
	PW.1021-1	Std. 10BA washer	
	PN.1021-1	Std. 10BA nut	
	PW.5633	Special washer (not visible) spacing under striker cam follower and arm C.P.	
	CS.1021	Set collar and screw (for retaining striker cam follower and arm C.P.)	
N	PG.7374	Tension spring (for striker cam follower and arm C.P.)	

TRANSMITTER HEAD C.P.S. 3797 (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
CONTACT BLOCK AND OPERATING LEVER		
O	1550/625	Contact Block C.P.
P	PS.2173-1	Std. 6BA screw
	PW.1013-1	Std. 6BA washer
	PN.1013-1	Std. 6BA nut
		} 2 of each per set for securing item O to main frame item A.
Q	1550/634	Common lever and dart C.P., includes:-
	1550/583	Striker dart
	PB.4265	Spacing collar
R	PS.2430-1	Std. 8BA screw
	PF.1100	Lubricating washer
		} between the flanges of common lever and dart C.P.
R	PG.7374	Tension spring (for common lever and dart C.P.)
S	1550/587	Common lever stop
	PS.2462-1	Std. 8BA screw
	PW.1017-1	Std. 8BA washer
		} for securing item S.

PECKER GUIDE PLATE AND SUPPORT

T	1550/555	Guide plate support block R.H.
	PS.2253-1	Std. 6BA screw
U	1550/611	Pecker guide plate
	PS.2063-1	Std. 6BA screw (2 per set) for securing item U.
V	1550/503A	Guide pin
	PN.1517-1	Std. 8BA nut (for securing item V).

PECKERS AND ASSOCIATED PARTS

W	1550/330	Pecker C.P. (5 per set)
	1550/444	Start signal lever C.P. (not visible)
	PB.1944	Spacing collar (between first pecker lever and casting)
	23956A	Locking ring (for retaining item W and start signal lever C.P. on pivot)
X	PG.7376	Pecker tension spring (6 per set)
Y	1550/269A	Pecker lever guide
	PS.2061-1	Std. 6BA screw (2 per set) for securing item Y.
Z	1550/632 Gr.1	Pecker spring adjusting block C.P. comprises:-
	1550/605	Pecker spring mounting block
	1550/603	Spring anchor (6 per set)
	PP.1042	Parallel pin (pivot for spring anchors)
	PS.6106	Special screw (6 per set) for adjusting spring anchor.

TAPE RETAINING PLATE ASSEMBLY

	1550/387 Gr.1	Tape retaining assembly, comprises:-
AA	1550/376A	Tape retaining casting
	PS.2141-1	Std. 6BA screw
	PN.1513-1	Std. 6BA locknut
AB	1550/384	Eccentric pivot screw
AC	1550/382	Latch spring
AD	1550/379	Latch lever
	PS.2093-1	Std. 6BA screw (3/8" long)
	PW.1013-1	Std. 6BA washer
AE	1550/446	Latch lever stop

SECTION 5 (contd.)
AUTO-TRANSMITTER

TRANSMITTER HEAD C.P.S. 3797 (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
AF	1550/448	Pivot plate C.P.
	PS.2063-1	Std. 6BA screw ($\frac{1}{4}$ " long)
	PW.1013-1	Std. 6BA washer
	PN.1013-1	Std. 6BA nut
AG	1550/386	Tape guide
	PS.2443-1	Std. 8BA screw (2 per set) for securing item AG.
	1550/552	Stop bracket
	PS.2091-1	Std. 6BA screw
	PW.2037	Std. 6BA spring washer
	PN.1013-1	Std. 6BA nut
	PW.5227	Shim (4 per set)
AH	PW.1013-1	Std. 6BA washer
AJ	PN.1013-1	Std. 6BA nut

} 2 of each per set.

} for securing tape retaining assembly.

COUPLING AND FEED CAM

AK	1550/595	Coupling and feed cam
	PS.2075-1	Std. 6BA screw (for securing item Ak)
AL	1550/597	Feed cam lubricator C.P., includes:-
	PF.1099	Lubricator felt
AM	PB.4264	Lubricator spacing collar
AN	PG.7373	Tension spring (for item AL)

FEED CAM FOLLOWER AND PAWL

	1550/636	Feed cam follower and pawl C.P., comprises:-
AO	1550/589	Feed pawl lever C.P.
AP	1550/590	Feed cam follower
	PS.2057-1	Std. 6BA screw
	PW.2037	Std. 6BA spring washer
	PW.1013-1	Std. 6BA washer
AQ	1550/592	Feed ratchet pawl C.P.
	BO.3229	Clip (for retaining item AQ)
AR	PG.7196	Tension spring (for item AO)
AS	PG.7054	Tension spring (for item AQ)
	PB.4263	Set collar
	PS.2430-1	Std. 8BA screw

} for securing item AP to item AO.

} spacing between feed cam follower and pawl and retention lever.

TAPE FEED SPINDLE AND RATCHET

AT	1550/598	Tape feed spindle
AU	1550/573	Feed ratchet wheel C.P.
	PS.2477-1	Std. 8BA screw (for securing item AU)

RETENTION LEVER AND ROLLER

	1550/637	Retention Lever and Roller C.P., comprises
AV	1550/594	Retention lever sub C.P.
AW	RL.1154	Roller
AX	BO.3225	Roller clip
AY	PG.7226	Tension spring (for retention lever and roller C.P.)

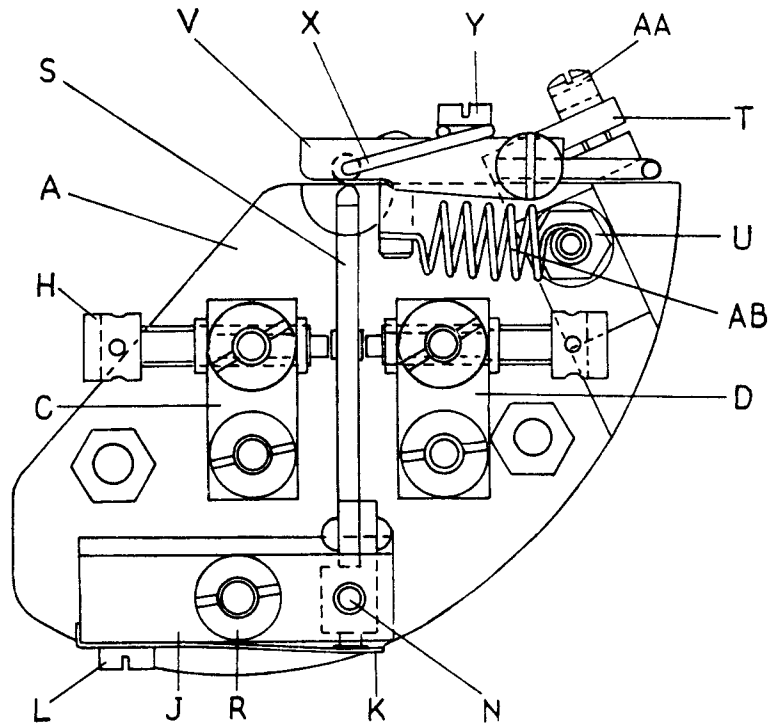


Fig. 48 CONTACT BLOCK C.P. (FRONT VIEW)

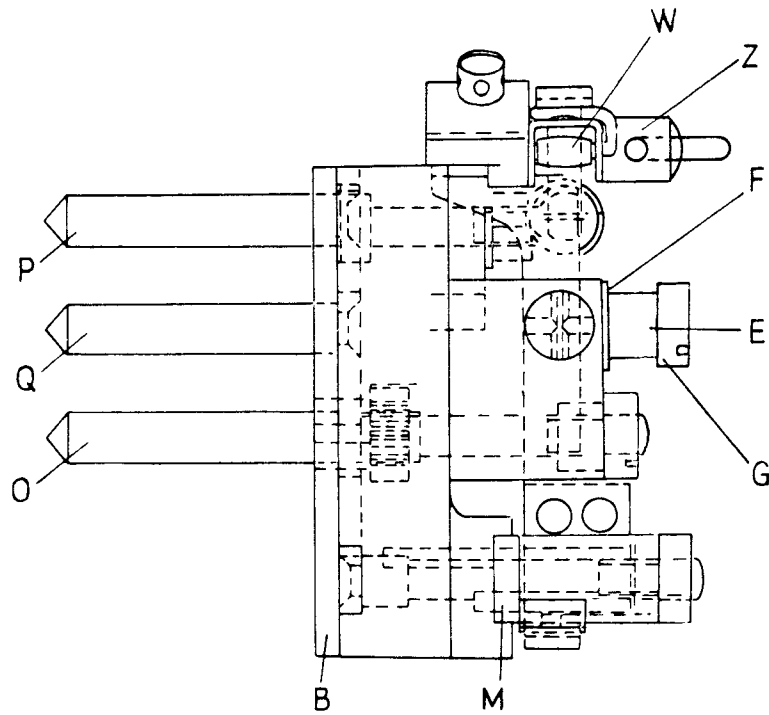


Fig. 49 CONTACT BLOCK C.P. (SIDE VIEW)

SECTION 5 (contd.)
AUTO-TRANSMITTER

CONTACT BLOCK C.P. 1550/625

(See Figs. 48 and 49)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	1550/607	Contact block moulding
B	1550/608	Insulation plate (<i>Does not form part of contact block C.P.</i>)
C	1550/627	Contact screw block C.P. (<i>mark</i>)
D	1550/628	Contact screw block C.P. (<i>space</i>)
	1821/27	Contact screw block
E	PS.5705	Special screw
F	PW.5005	Special washer
G	PN.6028	Special round nut
H	PC.3004A	Contact screw C.P.
J	1550/626	Transmitter tongue pivot block C.P. <i>comprises:-</i>
	2184/42	Pivot block
K	PC.2501	Contact spring
L	PS.2443-1	Std. 8BA screw (<i>for securing item K to pivot block</i>)
M	2184/45	Bearing plate
N	PP.1032	Parallel pin (<i>pivot for item S</i>)
O	1550/577	Contact stud (<i>mark</i>)
P	1550/631	Contact stud C.P. (<i>space</i>)
Q	1550/630	Contact stud C.P. (<i>tongue</i>)
R	PN.6028	Special round nut (<i>3 per set</i>) <i>for securing items O, P and Q.</i>
S	2184/28	Transmitting tongue C.P.
T	1550/579	Bias adjustment block
	PS.7073	Special screw
	PW.1013-1	Std. 6BA washer
	PN.1013-1	Std. 6BA nut
U	1550/629	Jockey roller and lever C.P. <i>comprises:-</i>
V	1550/639	Jockey roller lever C.P.
W	RL.1006A	Roller
X	1550/581	Roller pivot
Y	PS.2430-1	Std. 8BA screw
	PW.1017-1	Std. 8BA washer (<i>not shown</i>)
	PN.1017-1	Std. 8BA nut (<i>not visible</i>)
Z	1650/279	Bias adjusting stud C.P. (<i>pivot for item V</i>)
AA	PS.2476-1	Std. 8BA screw (<i>for securing item Z to item T</i>)
AB	PG.7377	Bias spring

Fig. 50 TAPE CONTROL UNIT (FRONT VIEW)

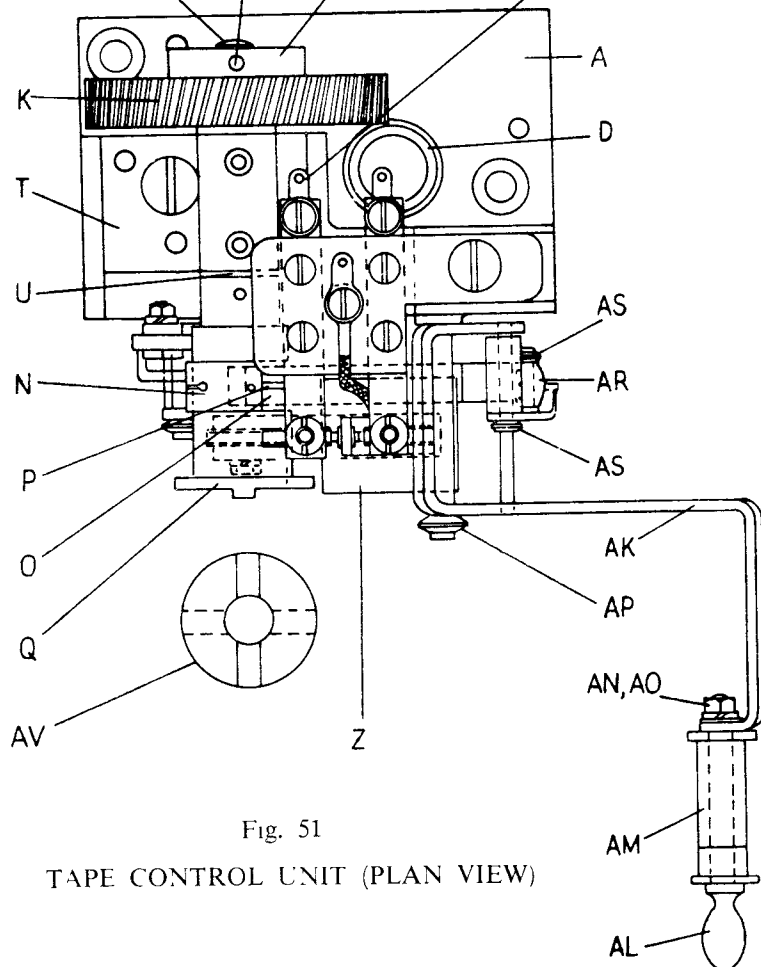
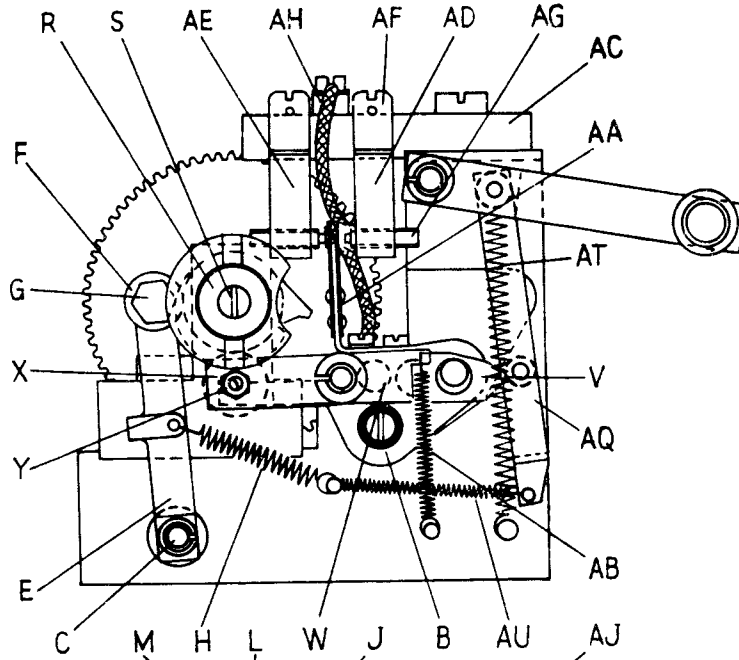


Fig. 51
TAPE CONTROL UNIT (PLAN VIEW)

TAPE CONTROL UNIT 1550/640

(See Figs. 50 and 51)

Index Letter	Part No.	Part Name
A	1550/641 Gr.1	Tape control unit casting C.P. <i>Comprises machined and enamelled casting together with the following replaceable items:</i>
B	1550/300	Detent adjustment plate C.P.
	PS.2093-1	Std. 6BA screw
	PW.1013-1	Std. 6BA washer
	PW.2037	Std. 6BA spring washer
C	EC.5052	Eccentric pin
	1550/368	Copper clamping pellet
	PS.1687-1	Std. 4BA screw
D	PE.1002	Insulating bush
		} for securing item B to casting.
		} for securing item C to casting.
CAMSHAFT RATCHET WHEEL AND DETENT		
	1550/621	Retention lever C.P., <i>comprises:-</i>
E	1550/644	Retention lever
F	RL.1155	Roller
G	PS.5629	Pivot screw
	PW.2049	Std. 8BA washer
	PN.1017-1	Std. 8BA nut
	23956A	Locking ring (for retaining retention lever C.P.)
H	PG.7019	Tension spring (for item E)
	1550/642 Gr.1	Driving wheel and clutch C.P. (7½ unit 50 bauds) <i>comprises:-</i>
	1550/417 Gr.1	Driving wheel C.P. (7½ unit 50 bauds), <i>comprises:-</i>
J	720/132	Gear boss
K	GR.4036	Helical gear (75 teeth) 50 bauds.
	PS.2127-1	Std. 6BA screw (3 per set) for securing item F to item K.
L	23940A	Taper pin
M	1550/211A	Ratchet shaft C.P. <i>includes:-</i>
	PB.4269	Shouldered bush
	23930A	Taper pin
		} not visible
		} these items should not be ordered unless the customer is prepared to drill and ream the taper pin holes. 1550/642 should be ordered instead.
N	PG.3022B	Pawl spring C.P.
O	860/115F	Pawl (1 pair)
P	1650/307	Pawl distance piece
	PP.1067	Pawl pin (not visible)
Q	1550/610	Clutch sleeve
R	PW.5060	Special washer
S	PS.2061-1	Std. 6BA screw
T	1550/309	Bearing block C.P. <i>includes:-</i>
	PB.2024	Oil impregnated flanged bush (2 per set)
U	PW.5008	Special washer (spacing between items T and M)
	PS.1200-1	Std. 1BA screw (for securing item T)
V	1550/103	Detent lever
	PW.5125	Special washer (not visible, behind item V)

SWITCH BLADE AND CONTACT BLOCKS

	1550/643	Switch lever and blade C.P. <i>comprises:-</i>
	1550/623	Switch lever C.P. <i>comprises:-</i>
W	1550/622	Switch lever
X	RL.1156	Roller (in end of item W)
Y	PS.7074	Roller pivot screw
	PW.1017-1	Std. 8BA washer
	PW.2050	Std. 8BA spring washer
	PN.1517-1	Std. 8BA locknut
		} not visible.
		} On end of item Y
		} for clamping item X.
Z	1550/487	Insulating strip
AA	1550/399A	Switch blade C.P.
	PW.1017-1	Std. 8BA washer
	PS.2494-1	Std. 8BA screw
	23957A	Locking ring (for retaining switch lever and blade C.P. on pivot)
AB	PG.7357	Tension spring (forms part of switch lever and blade C.P., 1550/643 above)
	1550/421	Contact block base
	PS.1374-1	Std. 2BA screw (for securing item AC to casting item A)
AD	1550/400	Contact block (R.H.) C.P.
AE	1550/401	Contact block (L.H.) C.P.
AF	1650/323	Friction plug adjusting cap
	PW.2037	Std. 6BA spring washer
	PW.5005	Special washer
	1550/396	Contact block
	1550/409	Contact locking screw (not visible)

SECTION 5 (contd.)
AUTO-TRANSMITTER

TAPE CONTROL UNIT 1550/640 (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
AG	PC.3011	Contact screw C.P.
	PS.2141-1	Std. 6BA screw (4 per set) for securing items AD and AE to item AC.
	CT.1046	Connection tag
	PS.2109-1	Std. 6BA screw } 2 per set. On items AD and AE.
AH	1550/408	Flexible connector C.P. (now forms part of 1550/643 switch lever and blade C.P.)
AJ	CT.1046	Connection tag
	PB.1974	Spacing collar (under item AF)
	PS.2125-1	Std. 6BA screw (for securing item AH)

TIGHT TAPE CONTROL LEVER

	1550/218	Tape control lever C.P. comprises:-
AK	1550/541	Control lever sub C.P.
AL	KN.1002B	Knob
AM	RL.1017	Roller
AN	PW.2038	Std. 6BA spring washer } for securing items AL and AM.
AO	PN.1013-1	Std. 6BA nut
AP	23955A	Locking ring (2 per set)
AQ	1550/136A	Striker lever C.P.
AR	RL.1071	Roller
AS	23955A	Locking ring
	1550/98	Striker lever pivot
	PW.5046	Special washer (between items AL and AM)
AT	PG.7066	Tension spring (for item AK)
AU	PG.7075	Tension spring (for item AQ)

COUPLING

AV	1841/11	Coupling disc (S.R.B.F.).
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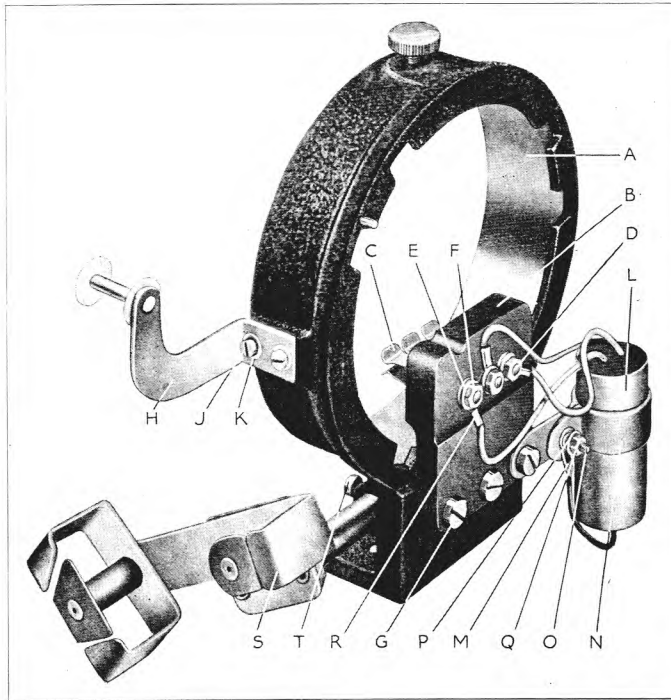


Fig. 52 TRANSMITTER STAND C.P.

TRANSMITTER STAND C.P. 1550/294

(See Fig. 52)

FOR ALL MODELS OF NO. 67P

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
STAND AND CONTACT BLOCK		
A	2060/106	Transmitter stand C.P. includes:-
B	1200/42A	Contact block C.P. comprises:-
C	850/37A	Contact block moulding
D	PG.2032A	Contact spring (3 per set)
E	PS.1740-1	Std. 4BA screw (3 per set)
F	PW.5045	Std. 4BA washer (6 per set)
G	PN.1509-1	Std. 4BA locknut (6 per set)
H	PS.1354-1	Std. 2BA screw (3 per set) secures contact block C.P.
J	2060/53	Tape guide bracket C.P.
K	PS.2061-1	Std. 6BA screw
	PW.1013-1	Std. 6BA washer
		} 2 of each per set for securing item H.
TRANSMITTER R.I.S.		
L	1550/293	Capacitor C.P. comprises:-
M	BO.1856A	Tubular capacitor
N	CT.1026	Terminal tag
O	PK.1086	Capacitor strap
P	PS.2141-1	Std. 6BA screw
Q	PW.5276	Spacing washer
R	PW.1014-15	Std. 6BA washer
	PN.1013-1	Std. 6BA nut
	CT.1022	Terminal tag (3 per set)
		} 2 of each per set
		} On latest design machines Item L forms part of the Transmitter R.I.S. Unit under the Main Base. See Item CD, page 17.
TAPE RUNWAY		
S	2060/50	Tape runway C.P.
T	PS.1676-1	Std. 4BA screw (for securing item S)
		} Not supplied as part of transmitter stand C.P.1550/294.

TOOLS

These Tool Kits, comprising the following Tools, are supplied if required and are no longer included in the price of a complete machine. When a number of Perforators are employed at one location, one Tool Kit per machine is not normally necessary, but a smaller number of kits than the number of Perforators, sufficient for the personnel who will maintain them. The quantity of kits should be specified when ordering the machines.

<i>Tool Kit No.18</i>		<i>Tool Kit No.19</i>		<i>Part No.</i>	<i>Part Name</i>
<i>7P/N</i>	<i>67P/N</i>	<i>7P/CTK</i>	<i>67P/CTK</i>		
1	1	1	1	TA.1008	Spring Hook
1	1	1	1	TA.1011	Tommy Pin (<i>Medium</i>)
1	1	1	1	TA.1020	Tommy Pin (<i>Small</i>)
1	1	1	1	TA.1038	Spanner 2BA and 3BA
2	2	2	2	TA.1022	Spanner 4BA and 6BA
—	—	1	1	TA.1047	Spanner "B" for Clutch Body
1	1	1	1	TA.1048	Spanner "A" for Camshaft
1	1	1	1	TA.1076	Spanner 1/4" Whit. and 5/16" Whit.
—	—	1	1	TA.1049	Packing strip
1	1	1	1	TA.1034	Punch Block Cleaner
1	1	1	1	TA.1056	Punch Lapping Block
1	1	1	1	TA.1110	Governor Adjusting Clamp
1	1	1	1	TA.1053	Screwdriver 3½" x 1/10"
1	1	—	—	TA.1052	Spanner 0.615" across flats, for Camshaft.
—	1	—	1	TA.1117	Fork Stroboscope (<i>Speed 125 v.p.s. for 50 Bauds.</i>)
—	1	—	1	TA.1027	Burnisher C.P.
—	1	—	1	TA.1023	Pair of Special Pliers (<i>for removing locking rings.</i>)
1	1	1	1	8199	Pair of Tweezers
1	1	1	1	8549	Screwdriver 5" x 1/8"
1	1	1	1	TA.1148	Screwdriver 5" x 1/4"
2	2	2	2	8620	Oil can (<i>Watch pattern</i>)

ACCESSORIES

These Accessory Lists, comprising the following Accessories, are supplied if required and are no longer included in the price of a complete machine.

<i>Accessory List No. 18</i>	<i>Accessory List No. 19</i>	<i>Part No.</i>	<i>Part Name</i>
67P	7P		
1	1	TA.1095	¼ Pint Can Lubricant No. 1
1	1	TA.1096	¼ Pint Can Lubricant No. 2
1	—	TA.1098	2 oz. tin Lubricant No. 5
1	1	8184	Paper Tape, 1 coil 8" diameter x 11/16" wide, Codeword "ABAST"
			Instruction Booklet No. CTK/78 (for Models 7P/CTK and 67P/CTK)
			Instruction Booklet No. 67N (for Models 7P/N3, 7P/N4, 67P/N3 and 67P/N4)
			Part List No.1067, 3rd Edition.
			Keyboard Chart (to which the machine is prepared).

NUMERICAL INDEX

Part No.	Part Name	Page	Index Letters	Part No.	Part Name	Page	Index Letters
720/				1550/ contd.			
720/132	Gear boss	69	J	1550/590	Feed cam follower	65	AP
740/				/592	Feed ratchet pawl C.P.	65	AQ
740/183	Tape wheel C.P.	19	C	/594	Retention lever sub C.P.	65	AV
850/				/595	Coupling and feed cam	65	AK
850/37A	Contact block moulding	71	B	/597	Feed cam lubricator C.P.	65	AL
860/				/598	Tape feed spindle	65	AT
860/115F	Pawl	{ 55	H	/600	Striker cam follower C.P.	63	L
		{ 69	O	/601	Shim (.005" thick)	63	M
860/184	Keybutton cap	{ 27	BC	/603	Spring anchor	64	Z
		{ 27	CJ	/604	Cam spindle	63	H
		{ 60	AK	/605	Pecker spring mounting		
860/185	Keybutton glass	{ 27	BC		block	64	Z
		{ 27	CH	/607	Contact block moulding	67	A
		{ 60	AK	/608	Insulation plate	67	B
1200/				/610	Clutch sleeve	69	Q
1200/42A	Contact block C.P.	71	A	/611	Pecker guide plate	64	U
1550/				/614	Rear cover	63	E
1550/40A	Cover guide	63	B	/616	Striker cam	63	G
/98	Striker lever pivot	70	AS	/617	Transmitter cam	63	F
/103	Detent lever	69	V	/619	Main frame C.P.	63	A
/136A	Striker lever	70	AQ	/621	Retention lever C.P.	69	D
/207	Cover retention stud	63	C	/622	Switch lever	69	W
/211A	Ratchet shaft C.P.	69	M	/623	Switch lever C.P.	69	V
/218	Tape control lever C.P.	70	AJ	/625	Contact block C.P.	64	O
/263	Packing shim (thick)	{ 7	K	/626	Transmitter tongue pivot		
		{ 9	K		block C.P.	67	J
/264	Lubricator C.P.	63	J	/627	Contact screw block		
/269A	Pecker lever guide	64	Y		C.P. (mark)	67	C
/277	Packing shim (thin)	{ 7	K	/628	Contact screw block		
		{ 9	K		C.P. (space)	67	D
/293	Capacitor C.P.	71	K	/629	Jockey roller and lever C.P.	67	V
/294	Transmitter stand C.P.	71	B	/630	Contact stud C.P. (tongue)	67	Q
/300	Detent adjustment plate C.P.	69	T	/631	Contact stud C.P. (space)	67	P
/309	Bearing block C.P.	69	W	/632	Pecker spring adjusting		
/330	Pecker C.P.	64	E		block C.P.	64	Z
/345C	Front cover	63		/633	Transmitter and striker		
/355	Cam spindle bearing				cam C.P.	63	E
	plate C.P.	63	K	/634	Common lever and dart C.P.	64	P
/368	Copper clamping pellet	69	C	/635	Striker cam follower and		
/376A	Tape retaining casing	64	AA		arm C.P.	63	K
/379	Latch lever	64	AD	/636	Feed cam follower and		
/382	Latch spring	64	AC		pawl C.P.	65	AN
/384	Eccentric pivot screw	64	AB	/637	Retention lever and		
/386	Tape guide	65	AG		roller C.P.	65	AU
/387	Tape retaining assembly	64	Z	/639	Jockey roller and lever C.P.	67	V
388	Cover plate C.P.	63	E	/640	Tape control unit	69	
/396	Contact block	69	AF	/641	Tape control unit		
/399A	Switch blade C.P.	69	AA		casting C.P.	69	A
/400	Contact block (R.H.) C.P.	69	AD	/642	Driving wheel and		
/401	Contact block (L.H.) C.P.	69	AE		clutch C.P.	69	H
/408	Flexible connector C.P.	70	AH	/643	Switch lever and		
/409	Contact locking screw	69	AF		blade C.P.	69	V
/417	Driving wheel C.P.	69	H	/644	Retention lever	69	E
/421	Contact block base	69	AB				
/444	Start signal lever C.P.	64	W	1650/			
/446	Latch lever stop	64	AE	1650/279	Bias adjusting stud C.P.	67	Z
/448	Pivot plate C.P.	65	AF	/307	Pawl distance piece	69	P
/487	Insulating strip	69	Z	/323	Friction plug adjusting cap	69	AF
/503A	Guide pin	64	V	1818/			
/541	Control lever sub C.P.	70	AK	1818/7	Terminal strip C.P.	16	BQ
/552	Stop bracket	65	AG	1821/			
/555	Guide plate support			1821/27	Contact screw block	67	D
	block R.H.	64	T	1822/			
/573	Feed ratchet wheel C.P.	65	AU	1822/30	Space bar pad C.P.	29	EA
/577	Contact stud (mark)	67	O	1824/			
/579	Bias adjustment block	67	T	1824/9A	Fixing plate	15	AY
/581	Roller pivot	67	X	/10	Clamping plate	15	AY
/583	Striker dart	64	Q	/31	Insulating block	15	AY
/585	Striker operating arm	63	M	1830/			
/586	Insulating block	63	L	1830/115	Keep plate	60	AL
/587	Common lever stop	64	S	1836/			
/589	Feed pawl lever	65	AO	1836/69	Rubber foot	13	H

Part No.	Part Name	Page	Index Letters	Part No.	Part Name	Page	Index Letters
1841/				1856/			
1841/11	Coupling disc	{ 7 9 43 70	E E BD AV	1856/4	Clutch pressure plate ..	43	AZ
1843/				/5	Clutch canvas	43	AY
1843/4	Paper clip C.P.	19	H	/6	Spiral gear C.P.	43	AW
1855/				/37	Reading shaft C.P.	45	AQ
1855/5B	Keyboard mask	29	CL	/38	Case shaft C.P.	45	CP
/18	Space bar extension C.P. (L.H.)	29	CZ	/46	Spacing plate with pin C.P. (No. 7)	45	BE
/19	Space bar extension C.P. (R.H.)	29	CY	/47	Spacing plate with pin C.P. (No. 9)	45	BE
/27A	Keybar sub C.P.	27	CB	/49	Spacing plate with pin C.P. (No. 11)	45	BE
/28B	Keybar sub C.P.	27	CC	/50A	Spacing plate with pin C.P. (No. 12)	45	BF
/29B	Keybar sub C.P.	27	CD	51	Spacing strip	45	BK
/30B	Keybar sub C.P.	27	CE	/52	Operating lever	45	CM
/31	Keybar sub C.P.	27	CA	/57	Selecting arm (without tooth)	45	CA
/36	Keybar C.P. (Top row) ..	27	BR	/60	Trip lever pivot arm C.P. ..	45	BS
/37	Keybar C.P. (Second row) ..	27	BS	/62	Case release	45	BJ
/38	Keybar C.P. (Third row) ..	27	BT	/63	Cam lever	45	CH
/39	Keybar C.P. (Fourth row) ..	27	BU	/64	Detent lever	45	CL
/40	Keybar C.P. (Top row Run out)	27	BQ	/66	Trip detent C.P.	45	CJ
/47	Space keybar connection C.P.	29	CT	/71	Trip lever C.P.	45	BP
/48	Space bar	29	CT	/72	Spring anchor tag	45	BR
/49	Space bar C.P.	29	CU	/74A	Front plate C.P.	41	F
/52B	Back rack	26	AY	/77	Transfer bar (second)	45	BW
/83A	Keybar pivot	27	BN	/80	Interlocking bar (long) ..	45	CB
/96	Keybutton cap	27	CJ	/81	Interlocking bar (short) ..	45	CC
/97	Keybutton glass	27	CH	/86	Adjusting clamp C.P.	45	CE
/105B	Keybar sub C.P.	27	CF	/87A	Second transfer bar bearing pin	45	BY
/106	Third row Keybar C.P.	27	BW	/96	First transfer bar comb spring C.P.	43	AA
/107B	Keybar sub C.P.	27	CF	/97	Second transfer bar comb spring C.P.	43	AB
/108	Fourth row keybar C.P.	27	BX	/98	Spring mounting plate	43	W
/111B	Keybar sub C.P.	27	CF	/99	Second transfer bar comb spring C.P.	43	AC
/112	Fourth row keybar C.P. (R.H.)	27	BY	/108	Trip lever stop plate C.P. ..	41	N
/113B	Keybar sub C.P.	27	CF	109	Bearing block C.P. (L.H.) ..	{ 37 43 51 55	V AK M W9
/114	Fourth row keybar C.P. (L.H.)	27	BZ	/111	Bearing block C.P. (R.H.) ..	{ 37 43 55	X AQ W4
/121B	Keyboard mask	29	CK	/113	Ball cage C.P.	{ 51 55	H W6
/127B	Keybar keep plate C.P.	27	BM	/115B	Transfer unit shaft	43	AG
/154A	Secondary shaft	{ 23 25	R L	/162A	Coupling sleeve	43	AH
/162A	Coupling sleeve	43	AH	/174A	Locking frame sub C.P.	41	Q5
/169B	Front rack C.P. ($\frac{3}{4}$ " pitch)	26	AV	/175A	Locking frame C.P.	41	Q
/190	Space keybar C.P.	29	DD	/176	Transfer bar (first)	45	BU
/194	Figure and letter shift bar stop C.P.	29	DF	/177	First transfer bar comb spring C.P.	43	AA
/195	Clamp plate	29	DG	/178	Selecting arm (with tooth) ..	45	BT
/209A	Keyboard mask	29	CM	/181	Lock release lever C.P.	27	BA
/212	Pad C.P.	{ 29 29	DN DS	/184	Pawl C.P.	27	BK
/213	Space frame C.P.	29	DL	/187	Lock release lever extension	27	BG
/214	Space and figures frame spindle	29	DK	/189	Stop plate	27	BC
/219	Space key lever C.P.	29	DO	/192	Keybutton sub C.P.	27	BC
/221	Letters frame sub C.P.	29	DR	/193	Stop bracket	27	BC
/222	Letters shift frame C.P.	29	DQ	/194A	Abutment bracket	41	K
/223	Space and figures frames and lever C.P.	29	DJ	/196	Lock release keybutton C.P.	27	BC
/227	Figure shift frame C.P.	29	DM	/201A	Trip lock lever sub C.P.	43	V
/228	Letters frame spindle	29	DT	/227B	Clutch ratchet	37	AK
/229	Shift spindle support (L.H.) ..	29	DV	/248B	Back plate C.P.	41	A
/230	Shift spindle support (R.H.) ..	29	DU	/248A	Clutch C.P.	43	AV
/325	Special stop screw C.P.	{ 25 23	AT AW	/292	Clutch nut	43	BC
/351	Pivot support plate	27	BN	/293	Code shaft C.P.	45	CO
/352A	Support bar	27	BN				
/372	Coupling sleeve	37	Y				
1856							
1856/3	Clutch body	43	AX				

Part No.	Part Name	Page	Index Letters	Part No.	Part Name	Page	Index Letters
1857/				1947/	contd.		
1857/43	Rack C.P.	51	B	1947/41B	Front plate C.P.	56	AJ
1910/				/44	Intermediate shaft C.P.	55	W
S1910	Series governor unit	18		/45A	Intermediate shaft	55	W1
1910/5A	Contact arm mounting block	18	B	/51B	Camshaft C.P.	55	E
/6	Contact arm keep plate	18	V	/52	Cam C.P.	55	F
/12	Contact arm sub C.P.	18	P	/53	Cam	55	G
/13	Contact block	18	F	/61A	Retention pawl C.P. (front)	55	AD
/17A	Governor spring plate	18	L	/64A	Retention pawl C.P. (rear)	55	AB
/19A	Governor spring C.P.	18	Y	/70C	Punch block head and fulcrum C.P.	57	—
/26	Contact arm saddle	18	X	/72A	Punch block fulcrum	57	AS
/27A	Contact arm sub C.P.	18	Q	/76	Retention lever C.P.	57	BN
/33	Governor base sub C.P. (1/8" bore)	18	A	/79	Adjusting arm C.P.	57	BH
/51	Contact blade clamp	18	S	/91D	Punch block head sub C.P.	57	BS
/52	Contact blade C.P.	18	R	/92D	Punch block head casting C.P.	57	BT
/76A	Governor cover	18	AB	/108C	Cover plate	57	CM
/87	Governor arm stop spring	18	Z	/109B	Die plate	57	CM
/88	Flanged bush	18	Y	/123A	Cuttings chute C.P.	58	CY
/89	Special washer	18	AA	/130C	GRP, 2 Anvil bracket C.P.	59	—
/96	Governor spring clamping plate	18	O	/132B	Anvil bracket casting C.P.	59	A
1939/				/137	Rack C.P.	59	H
S1939	Combination bar unit (12 bar)	33		/141A	Anvil	59	O
/5	Combination bar support plate C.P.	33	A	/143A	Punch withdrawing bracket	59	S
/11	Stop plate	34	C	/150	Feed pawl C.P.	60	V
/15A	Shift lever (L.H.) C.P.	33	R	/152	Pawl adjustment plate	60	Y
17A	Shift lever (R.H.) C.P.	33	S	/156	Selector bar (straight)	59	K
/21	Connecting lever C.P.	33	AB	/158	Selector bar (bent)	59	L
/22	Connecting lever C.P. (for case bar)	33	AC	/160B	Back space lever C.P.	60	AK
/25	Trip adjusting arm C.P.	33	AE	/161B	Back space lever nut C.P.	60	AK
/27	Adjusting bellcrank C.P.	33	J	/171	Perforation trip bar C.P.	51	Q
/28	Trip adjusting lever C.P.	33	AL	/174A	Gear C.P.	51	D
/44A	Shift lever frame sub C.P.	33	AC	/203	Transfer bar	51	O
/45A	Shift lever frame C.P.	33	H	/210C	Cover plate	57	CK
/47	Distance piece	33	AG	/211B	Die plate	57	CL
/51	Case bar "F"	33	AR	/217	Spring adjuster	59	C
/52	Combination bar "D"	33	L	/220A	Trip lever and link C.P.	51	P
/53	Combination bar "E"	33	N	/234	Rack C.P.	59	E
/54	Combination bar set	33	M	239B	Bearing block R.H. and L.H.	57	CE
/55	Keep plate	33	K	/240	Tape tear-off plate	57	CH
/56	Trip bar C.P.	33	G	/241	Stripper plate	57	CG
/58	Adjusting bellcrank	33	R	/243	Tape guide frame C.P.	58	CR
/61	Set of 5 shift couplings C.P. Nos. 1 - 5	33	M	/244	Tape guide	58	CT
/62	Combination bar rack (R.H.)	33	G	/245	Tape guide frame	58	CS
/63	Combination bar rack (L.H.)	33	R	/248	Perforator trip bar C.P.	51	N
/65	Stop plate	33	K	/249A	Trip lever and link C.P.	51	N
/85	Trip adjusting arm sub C.P.	35	AD	/258B	Die assembly (advance feed)	58	CZ
/86	Trip adjusting lever C.P.	35	K	/259B	Die assembly (centre feed)	58	CZ
1942/				/260	Tape entry guide C.P.	57	BB
S1942B	Transfer unit	41	W-AA	/263A	Tape feed spindle C.P.	57	BV
/41A	Transfer unit shaft C.P.	43	C	/267A	Feed wheel knob	57	CA
/54	Spacing plate without pin	45	E	/268	Feed ratchet	57	BZ
1946/				/269	Retention wheel	57	BY
1946/3	Combination bar rack C.P.	44	B	/270	Transfer bar C.P.	51	P
1947/				/272	Set of punches	58	CQ
1947/10B	Punch block unit	55	C	/273B	Tape guide plate	57	CM
/12B	Back plate C.P.	55	P	/274	Bottom guide plate (advance feed)	58	CO
/17A	Detent (R.H.) C.P.	55	P1	/275	Bottom guide plate (centre feed)	58	CO
/18A	Detent sub C.P.	55	O	/276B	Tape guide plate	57	CM
/19A	Detent (L.H.) C.P.	55	O1	/277	Shim (.005")	23	AF
/20A	Detent sub C.P.	55	O2	/278A	Abutment plate	23	AD
/25A	Trip lever	55	P2	/295	Cuttings box bracket C.P.	7	C
/28A	Trip adjusting arm	55	R	/298A	Pivot pin C.P.	60	AL
/33A	Trip link C.P.	51	N	/300	Shim (.020")	23	AE
				/302	Feed pawl release bar	60	AE
				/303	Back space pawl	60	AF
				/304	Pawl adjustment plate	60	Y
				/305	Pivot adjusting plate C.P.	60	X
				/317A	Tape guide frame C.P.	58	CX

Part No.	Part Name	Page	Index Letters	Part No.	Part Name	Page	Index Letters
1947/ contd.				2060/ contd.			
/318	Tape guide frame latch C.P.	58	CX	157	Governor brush block C.P.	15	AY
/319A	Stripper spring	57	CJ	/158	Transmitter shaft		
/321	Latch support	58	CX	160	(Model 7P)	13	AK
/323A	Tape guide	58	CX	/161	Driving shaft cover C.P.	14	AO
/326	Special die plate (centre feed)	57	CM	/163	Terminal block insulator	13	AE
/329	Special die plate (advance feed)	57	CM	/164	Terminal strip	16	BW
				/164	Capacitor clip	16	BV
1949/				/165	Suppressor bracket	16	BT
S1949	Combination bar unit	34	—	/166A	Mains suppressor unit C.P.	16	BS
/8	Spacing washer	35	O	/168	Resistor support block	15	BL
				/171	Capacitor C.P.	17	CD
1971/				/172	Transmitter suppressor unit C.P.	17	CB
1971/33A	Driving shaft	51	G	/173	Aperture cover	13	V
/79	Bearing block C.P. (R.H.)	51	H	/174	Governing resistor C.P.	17	CB
/84	Thrust collar	51	K	/176A	Perforator guard cover	7	E
/81	Coupling C.P.	51	N			9	E
				/178	Handwheel	15	AS
1976/				/179	Resistor C.P.	17	CF
S1976	Perforator link unit	51	—	/180	Resistor C.P.	17	CF
/1A	Back plate	51	A	/181	Capacitor C.P.	16	BU
				/184	Transmitter platform	13	B
2000/				/189	Governor shield C.P.	13	R
2000/280	Clamp plate	27	BC	/190	Hinge bracket	13	S
				/193	Hinge rod	13	T
2060/				/195	Terminal block and cable form C.P.	16	BP
2060/3A	Base casting (Model 7P)	13	A	/196	Terminal block C.P.	13	AF
/5	Main bearing block C.P.	13	AL				
/11	Transmitter shaft (Model 67P)	13	AK	2084/			
/13	Bearing block C.P.	14	AM	2084/8	Contact roller	49	AE
/14A	Transmitter driving shaft C.P.	13	AF	/20	Retention pawl pivot	49	H
/15	Compound gear C.P.	13	AF	/25	Ratchet wheel pivot	49	J
/16	Bracket	15	AY	/68	Ratchet wheel C.P.	47	D
/24	Tape guide bracket C.P.	13	N			49	N
/26	Message desk support	19	S	/74	Ratchet wheel stop plate	49	AG
/27	Cover support	13	K	/75A	Retention pawl pivot	47	F
/32	Tape box sub C.P.	19	A	/77	Feed pawl C.P.	49	L
/35	Desk C.P.	19	B	/79	Spring anchor pin	49	F
/39	Tape wheel brake C.P.	19	L			47	W
/40	Tape box and message desk unit	19	—	/124	Clamp plate	49	AL
/43	Hinge post	19	G	/125	Friction piece	47	X
/44	Cover support and switch bracket	13	L			49	AM
/47	Oil impregnated bush (parallel)	14	AM	/126	Damping buffer	47	Y
/48	Oil impregnated bush (parallel)	14	AM			49	AN
/50	Tape runway C.P.	71	AL	2085/			
/53	Tape guide bracket	71	S	2085/7	Release link	49	K
/63	Hinge ear	19	H	/8	Contact roller	47	Q
/66	Cover	7	D	/13	Stop plate pivot	49	D
		9	J	/23	Trip lever C.P.	49	R
/68A	Gear cover	19	J	/26	Feed lever C.P.	49	X
/70	Cover C.P.	7	T	/27	Counter back plate C.P.	49	A
/80	Special screw	19	F	/28	Contact operating lever C.P.	47	P
/81	Cuttings box screw	13	F	/35	Trip lever guide	49	AD
/83	Brake block	19	N	/40A	Counter camshaft C.P.	45	V
/102A	Lamp bracket support C.P.	13	C	/45	Cable cleat	25	CN
/106	Transmitter stand C.P.	71	W	/62	Counter unit	25	Q
/111	Terminal block insulation	15	M	/74	Ratchet wheel stop plate C.P.	47	AL
/113A	R.I.S. capacitor C.P.	15	A			47	N
/128	Terminal guard	16	BE	/81	Lamp insulating sleeve	13	S
/134A	Governor R.I.S. C.P.	15	BG				AA
/135	Insulating strip	15	BS	2088			
/136	Insulating plate	15	AZ	2088/2B	Back rack ($\frac{3}{8}$ " keypitch)	26	AY
/137	Mounting plate C.P.	15	BJ	/9A	Space keybar sub C.P.	29	DZ
/140	Base cover L.H.	17	BH	/13A	Space keybar guide	23	AT
/141	Base cover	15	AZ			29	EB
/142	Support block	23	CH	/25B	Front rack C.P. ($\frac{3}{8}$ " key pitch)	26	AV
/143	Mounting bar	13	BO	/41	Keyboard stop plate C.P.	29	CO
/150	Base casting C.P. (Model 67P)	13	F	/42	Keybar guide rack	26	AZ
			F	/43	Keybar guide rack	26	AZ
			A	/51	Keyboard mask	29	CN

Part No.	Part Name	Page	Index Letters	Part No.	Part Name	Page	Index Letters
2091/				2258/ contd.			
2091/13	Punch block lever pin ..	{ 31	AK	/3	Feed lever C.P. . . .	47	H
/16B	Punch block operating lever C.P. . . .	{ 31	AM	/6A	Resetting lever C.P. . .	47	AD
/26	Bias spring	31	AN	/29A	Contact bank C.P. . . .	47	AJ
/27B	Trip lever C.P.	35	F	/43	Feed pawl	47	B
/35A	Bar securing bracket . . .	31	O	2263/			
/37C	Trip lever sub C.P. . . .	35	T	2263/6	Inductor (500 μ H) . . .	17	CC
/38	Bias spring bracket . . .	31	O1	2266/			
/40	Connecting lever C.P. . .	35	F	2266/3	Inductor coil (1000 μ H) . .	15	BA
/43	Trip adjusting lever . . .	35	N	2288/			
2184/				2288/2	Counter resetting link . . .	23	P
2184/28	Transmitting tongue . . .	67	S	2303/			
/42	Pivot block	67	J	S2303B	Perforator operating unit . .	37	-
/45	Bearing plate	67	M	2303/27A	Camshaft C.P.	37	AE
2203/				/28A	Locking frame C.P. . . .	39	BO
2203/9	Packing piece	39	BP	2305/			
2246/				2305/3GR1.	Twin plug C.P.	{ 47	AK
2246/7	Keybar sub C.P.	27	CF	/4GR2.	Contact bank C.P.	{ 49	AV
/9	Keybar C.P.	27	BV			49	AS
2254/				2824/			
2254/16	Locking frame sub C.P. . .	39	BP	2824/1	Gear bracket C.P.	25	L
/17	Clamp plate C.P.	39	BP	2841/			
/18A	Locking lever C.P.	39	BQ	2841/52	6BA square nut	{ 15	BD
/36B	Detent release latch C.P. .	39	AQ	/53	Terminal base	{ 15	BL
/39A	Selector lever	39	BK			15	BD
/43	Holder	37	AO	2878/			
/52	Lubricator C.P.	37	AO	S2878	Transmitter suppressor unit C.P.	17	CC
/53	Oil pad	37	AO	2887/			
/54A	Abutment plate	37	P	2887/4C	Back plate C.P.	37	A
/55A	Spiral gear and ratchet . .	37	AF	/5D	Back plate sub C.P. . . .	37	A
/57A	Clutch dog	37	AH	/7A	Front plate C.P.	37	K
/60A	Transmitter driving shaft C.P.	37	S	/8A	Front plate sub C.P. . . .	37	K
/61	Transmitter driving shaft	37	AA	2902/			
/64	Retaining lever C.P. . . .	39	BW	2902/1A	Driving shaft C.P.	51	C
/65	Send/Receive lever operating bracket C.P. . .	39	BX	2912/			
/66	Retaining lever	39	BY	S2912B	Keyboard unit	23	-
/103E	Detent operating lever C.P. .	39	AY	2912/1	Gear bracket C.P.	23	R
/113B	Release lever C.P.	39	AX	2978/			
/138A	Detent control shaft C.P. .	39	AP	2978/1	Transmitter driving shaft C.P.	13	AF
/140	Spring retaining plate . . .	37	AM	3010/			
/148	Perforator trip Bar C.P. . .	39	BG	3010/6	Oil impregnated bush . . .	{ 37	A
/175	Selector lever casting C.P. .	39	BJ			{ 63	K
/176	Selecting lever base plate C.P.	39	BH	3013/			
/192	Selector rack	39	BN	3013/6	Oil impregnated bush . . .	37	K
/193	Transfer bar rack	39	BC	3707/			
/194	Transfer lever plate	39	BD	S3707C	Combination bar unit	31	-
/202	Transfer link C.P.	39	BB	3707/1A	Combination bar support plate	{ 31	A
2255/				/5A	Connecting lever frame . . .	{ 31	A
2255/1	Bearing bracket	31	BB			35	T
/6	Trip rod stop bracket . . .	31	AR	3768/			
/7	Combination bar support plate C.P.	34	A	S3768A	Combination bar bed C.P. . .	31	-
/8B	Trip rod	31	BF	3785/			
/9	Trip rod	31	AV	3785/22A	Cuttings chute C.P.	58	CX
/10	Trip rod cover plate	31	AW	/54	Cuttings box C.P.	{ 7	D
/26A	Connecting lever	{ 31	P			{ 9	D
/28A	Trip adjusting lever	30	N	3797/			
/31A	Rack bracket (centre) . . .	{ 31	O2	S3797	Transmitter head C.P. . . .	63	-
/55	Rack bracket (R.H.)	{ 31	U	3813/			
/56	Rack bracket (L.H.)	34	B	3813/3	Keyboard casting C.P. . . .	26	AU
/57	Bias spring bracket	31	B	3865/			
2258/				3865/1	Set of combination bars . . .	35	F
S2258 GR.4	Counter unit	47	-				
2258/1A	Back plate C.P.	47	A				

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12431	Ball Bearing EW $\frac{1}{16}$ "	14	AQ
239 26A	Taper pin	55	W8
239 30A	Taper pin	69	M
23940A	Taper pin	69	L
23955A	Locking ring	47	R
		69	AP
		69	AS
		63	J
		64	W
23956A	Locking ring	69	G
		69	AA
		14	AP
23957A	Locking ring	69	AA
AA1/2	Motor brush C.P.	14	AP
CT100	Oil impregnated parallel brush	57	AT
Ref. 125A	Induction type motor	14	AP
Ref. 150A	AC/DC governed motor	14	AP
Ref. 151A	DC governed motor	14	AP
Ref. 152A	AC governed motor	14	AP
Ref. 158	DC governed motor	14	AP
Ref. 160	AC/DC governed motor	14	AP
Ref. 161A	DC governed motor	14	AP
Ref. 162A	AC governed motor	14	AP
BL. Numbers (Blanks)			
BL. 1017	Spacing plate	45	BE
BO. NUMBERS			
BO. 1701	Insulating bead	15	BM
BO. 1808B	Capacitor (10 μ F)	17	BZ
BO. 1809B	Capacitor (2.5 μ F)	17	BZ
BO. 1840A	Capacitor (.25 μ F + 0.1 μ F + 0.1 μ F)	16	BU
BO. 1856A	Tubular capacitor	71	L
BO. 2002	Insulating sleeve	13	AC
BO. 2512	Lamp (6 volt)	13	Z
BO. 2649	R.I.S. Capacitor (0.5 μ F)	17	BX
BO. 2652	R.I.S. Capacitor (0.5 μ F 330 ohms)	17	BX
BO. 2659	Capacitor (0.1 μ F)	15	BG
BO. 2663	Motor switch	15	BP
BO. 2667	Resistor 300 + 3500 ohms	13	AD
BO. 2668	Resistor 500 + 1500 ohms	13	AD
BO. 2670	3 way socket (5 amp)	17	CK
BO. 2671	Socket	13	Y
BO. 2673	Lamp holder	13	X
BO. 2679	9 way socket	17	CJ
BO. 2694	12 way socket	17	CJ
BO. 2724	Vitreous resistor (5 ohms)	15	BM
BO. 2861	Rubber grommet	13	Q
BO. 2885/2	Resistor (2000 ohms)	17	CB
BO. 2885/3	Resistor (1000 ohms)	17	CB
BO. 3225	Roller clip	65	AX
BO. 3229	Anderton clip	31	T
		35	Q
		65	AQ
BO. 3230	Anderton clip	39	BM
CD. NUMBERS (CORDS)			
CD. 1267	9-way cord	17	CJ
CD. 1270 GR3	3-way plug and power cord assembly	17	CJ
CD. 1273	3-way cord	17	CK
CD. 1277	12-way cord	17	CJ
CD. 1281 GR3	9-way plug and power cord assembly	17	CH
CD. 1282 GR3	12-way plug and power cord assembly	17	CJ
CF. NUMBERS (CABLE FORMS)			
CF. 1383C	Cable form	16	BR
CF. 1386A	Cable form	16	BQ
CF. 1412	Cable form	17	CD
CF. 1452	Cable form	16	BW
CF. 1457A	Cable form	16	BR
CF. 1458	Cable form	17	CD

Part No.	Part Name	Page	Index Letters
CS. NUMBERS (SET COLLARS AND SCREWS)			
CS. 1011	$\frac{3}{32}$ " set collar and screw	23	Q
		31	BG
CS. 1015	$\frac{3}{32}$ " set collar and screw	51	N
		51	T
CS. 1021	$\frac{1}{8}$ " set collar and screw	49	AF
		63	M
CS. 1022	$\frac{1}{8}$ " set collar and screw	31	AL
		31	AQ
		34	Q
CS. 1023	$\frac{1}{8}$ " set collar and screw	33	AN
CS. 1026	$\frac{1}{8}$ " set collar and screw	47	N
CS. 1027	$\frac{1}{8}$ " set collar and screw	49	AB
CS. 1029	$\frac{1}{16}$ " set collar and screw	55	N
CS. 1032	$\frac{1}{16}$ " set collar and screw	13	U
CS. 1041	$\frac{3}{32}$ " set collar and screw	27	BB
CS. 1046	$\frac{3}{32}$ " set collar and screw	39	CE
CS. 1049	$\frac{3}{16}$ " set collar and screw	19	L
CS. 1056	$\frac{1}{16}$ " set collar and screw	47	AG
CS. 1061	$\frac{1}{16}$ " set collar and screw	39	BA
CS. 1062	$\frac{1}{16}$ " set collar and screw	39	BB
CS. 1064	$\frac{3}{16}$ " set collar and screw	29	DE
		29	DQ
CS. 1067	$\frac{3}{16}$ " set collar and screw	55	B
		37	W
		43	AP
CS. 1081	$\frac{1}{4}$ " set collar and screw	55	W2
		14	AM
CT. NUMBERS (CONNECTIONS)			
CT. 1017	Connector	16	BR
CT. 1022	Terminal tag	71	R
CT. 1026	Connection tag	15	BG
		71	M
		70	AG
CT. 1046	Connection tag	70	AJ
CT. 1068	Connection tag	15	BD
CT. 1095	Connecting wire	16	BR
CT. 1096	Connecting wire	16	BR
CT. 1098	Connection tag	15	AY
EC. NUMBERS (ECCENTRICS)			
EC. 1025	Eccentric pin	60	W
EC. 1511	Eccentric screw	41	Q1
EC. 1551	Eccentric	55	O4
		55	P3
EC. 1561	Eccentric	60	AF
EC. 5026	Eccentric	33	AH
EC. 5032A	Eccentric collar	35	L
		59	Q
EC. 5033A	Eccentric bush	55	AA
EC. 5034	Eccentric nut	60	AN
EC. 5040	Eccentric	57	BJ
EC. 5052	Eccentric pin	69	C
EC. 5055	Eccentric pin	23	Y
EC. 5063	Eccentric bush	57	AV
GR. NUMBERS (GEARS)			
GR. 2035	Helical gear (12 teeth)	43	AR
GR. 2043	Helical gear (17 teeth)	55	W7
GR. 2044A	Helical gear (21 teeth)	55	W10
GR. 2046	Worm	43	AO
GR. 2061	Helical gear (32 teeth)	14	AM
GR. 2063	Helical gear (24 teeth)	13	AG2
GR. 2064	Idler gear C.P.	13	AJ
GR. 2073	Helical gear (60 teeth)	13	AG1
GR. 2080	Motor pinion (32 teeth)	14	AR
GR. 2082	Helical gear (30 teeth)	14	AM
GR. 2101A	Driving gear	37	T
GR. 2138	Motor pinion (35 teeth)	14	AR
GR. 2164	Driving gear (39 teeth)	23	S
		25	L
GR. 4036	Helical gear (75 teeth)	69	K
GR. 4054	Helical gear (31 teeth)	14	AM
KN. NUMBERS (KNOBS)			
KN. 100 2B	Knob	70	AL

Part No.	Part Name	Page	Index Letters
PB. NUMBERS (COLLARS)			
PB.10 24	Spacing collar	47	O
PB.1030	Collar	49	AC
PB.1035	Set collar	55	P4
PB.1095	Collar	33	AQ
PB.1207	Shouldered bush	19	J
PB.1241	Shouldered bush	23	R
PB.1331	Locking frame collar	25	L
PB.1466	Oil-impregnated bush (1/4")	55	D
PB.1533	Oil-impregnated bush (parallel)	39	BU
PB.1944	Spacing collar	63	A
PB.1974	Spacing collar	41	A
PB.20 24	Oil impregnated flanged bush	64	W
PB.2095	Clamping bush	70	AJ
PB.30 13	Oil impregnated flanged bush	69	T
PB.3158	Shouldered bush	31	R
PB.4122	Special bush	35	Q
PB.4260	Spacing bush	37	K
PB.4263	Set collar	41	A
PB.4264	Lubricator spacing collar	41	G
PB.4265	Spacing collar	56	AK
PB.4269	Shouldered bush	25	E
PB.4276	Oil impregnated bush	55	R
PB.4286	Oil impregnated bush (3/8")	65	AS
PC. NUMBERS (CONTACTS)			
PC.2501	Contact spring	65	AM
PC.2504A	Governor Brush C.P.	64	Q
PC.3004A	Contact screw C.P.	69	M
PC.3006	Contact screw	63	A
PC.3011	Contact screw C.P.	63	A
PE. NUMBERS (INSULATORS)			
PE.1002	Insulating bush	69	D
PE.1135	Insulating sleeve	16	BR
PE.1136	Insulating sleeve	16	BR
PE.1139	Insulating sleeve	15	BM
PE.1140	Insulating sleeve	15	BM
PE.1165	Insulating sleeve	17	CL
PE.5031	Rubber grommet	13	P
PE.5068	Insulating flanged bush	15	BA
PE.5069	Insulating washer	15	BA
PF. NUMBERS (FELT PARTS)			
PF.1023	Felt plug	55	M
PF.1052	Felt plug	55	M
PF.1099	Lubricator felt	65	AL
PF.1100	Lubricating washer	64	Q
PG. NUMBERS (SPRINGS)			
PG.20 21A	Backing spring	15	AY
PG.2032A	Contact spring	71	C
PG.2123	Lift spring	57	CJ
PG.2124	Flat spring	63	D
PG.3015	Torsion spring	19	K
PG.3022B	Pawl spring C.P.	69	N
PG.3057	Pawl spring	55	K
PG.3058	Torsion spring	60	AJ
PG.3062	Torsion spring	19	P
PG.3074	Semi-elliptical spring	47	V
PG.3145	Torsion spring	49	AK
PG.5036	Compression spring	60	AF
PG.5085	Compression spring	55	AR
PG.5088	Clutch pressure spring	37	AL
PG.7003	Tension spring	43	BA
PG.7019	Tension spring	39	BW
PG.7020	Tension spring	41	U
PG.7020	Tension spring	33	V
PG.7020	Tension spring	69	H
PG.7020	Tension spring	51	U

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PG. NUMBERS (SPRINGS) contd.			
PG.7034	Tension spring	29	BL
PG.7039	Tension spring	39	AU
PG.7054	Tension spring	39	AW
PG.7054	Tension spring	65	AS
PG.7066	Tension spring	27	BO
PG.7066	Tension spring	33	U
PG.7066	Tension spring	35	G
PG.7066	Tension spring	39	AZ
PG.7066	Tension spring	70	AT
PG.7070	Tension spring	45	CD
PG.7070	Tension spring	45	CK
PG.7070	Tension spring	47	G
PG.7070	Tension spring	49	Q
PG.7074	Tension spring	57	BQ
PG.7075	Tension spring	70	AU
PG.7076	Tension spring	49	AA
PG.7077	Tension spring	27	BP
PG.7078	Tension spring	58	CX
PG.7080	Tension spring	45	BQ
PG.7080	Tension spring	49	M
PG.7100	Tension spring	56	AH
PG.7152	Tension spring	59	B
PG.7173	Tension spring	47	AH
PG.7176	Tension spring	47	Z
PG.7176	Tension spring	49	AO
PG.7186	Tension spring	59	U
PG.7196	Tension spring	65	AR
PG.7197	Tension spring	47	T
PG.7197	Tension spring	49	AH
PG.7198	Tension spring	47	E
PG.7198	Tension spring	49	O
PG.7204	Tension spring	48	CX
PG.7208	Tension spring	47	M
PG.7212	Tension spring	39	CF
PG.7213	Tension spring	51	N
PG.7213	Tension spring	51	S
PG.7219	Tension spring	37	AO
PG.7219	Tension spring	47	C
PG.7226	Tension spring	65	AY
PG.7322	Tension spring	60	AD
PG.7345	Tension spring	55	Q
PG.7357	Tension spring	69	AB
PG.7362	Tension spring	31	AJ
PG.7362	Tension spring	35	G
PG.7373	Tension spring	65	AN
PG.7374	Tension spring	63	N
PG.7374	Tension spring	64	R
PG.7376	Pecker tension spring	64	X
PG.7377	Bias spring	67	AB
PG.7388A	Tension spring	58	CX
PG.7393	Tension spring	43	VA
PK. NUMBERS (CLIPS)			
PK.1044	Capacitor strap	17	BY
PK.1086	Capacitor strap	71	N
PK.1097	Cable cleat	17	CL
PK.1110	Capacitor strap	15	BK
PK.2042	Cable cleat	13	AB
PK.2042	Cable cleat	17	CM
PK.2079	Capacitor terminal clip	15	BG
PL. NUMBERS (LABELS)			
PL.1401	Keylabel	27	BC
PL.1401	Keylabel	27	CG
PL.1403	Keylabel	60	AK
PL.1403	Keylabel	27	CG
PN. NUMBERS (NUTS)			
PN.1005-1	Std. 2BA hex. M.S.	13	AJ
PN.1005-1	Std. 2BA hex. M.S.	41	E

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PN. NUMBERS (NUTS) contd.				PN. NUMBERS (NUTS) contd.			
		17	CL	PN.6028	Special round nut . . .	67	G
		23	L			67	R
		23	P	PP. NUMBERS (PINS)			
		23	AO	PP.1032	Parallel pin . . .	67	N
PN.1009-1	Std. 4BA hex. M.S.	23	AW	PP.1042	Parallel pin . . .	64	Z
		23	AZ	PP.1067	Pawl pin . . .	69	P
		25	AO	PP.1092	Locating pin . . .	49	C
		25	AT	PP.1095	Parallel pin . . .	37	AJ
		41	T	PP.1098	Parallel pin . . .	59	F
		15	AY	PP.1100	Parallel pin . . .	45	BM
		15	BG	PP.1109	Parallel pin . . .	34	B
		16	BV	PP.1144	Parallel pin . . .	33	AP
		16	BW			35	P
		17	CD	PP.2003	Grooved pin . . .	43	AN
		19	O	PP.2042	Grooved pin . . .	29	DP
		19	R	PP.2043	Parallel pin . . .	51	L
		23	AW	PP.2044	Parallel pin . . .	37	U
		29	CX			51	E
		29	DC	PP.4022	Spring anchor pin . . .	49	G
		29	EC	PP.4023	Spring anchor pin . . .	49	E
		31	AD	PP.5017	Split pin . . .	47	BZ
		33	O	PP.5018	Split pin . . .	13	E
		37	AO	PP.5019	Split pin . . .	27	BN
		41	J	PP.5520	Threaded pin . . .	45	BV
PN.1013-1	Std. 6BA hex. M.S.	41	Q4			51	C
		45	BG	PP.5522	Threaded pin . . .	59	M
		45	BN	PP.5523	Threaded pin . . .	59	N
		47	AC	PP.5538	Threaded pin . . .	33	B
		49	AR	PP.5564	Resetting lever pivot . . .	47	AC
		55	V	PP.5576	Support pin . . .	39	BE
		55	Z	PP.5581	Spring anchor pin . . .	37	H
		56	AG	PP.6117	Spring anchor screw . . .	57	BU
		58	CX	PP.6534	Copper plug . . .	55	S
		60	AB	PP.6682	Parallel pin . . .	33	E
		64	P	PP.6758	Taper pin . . .	51	N
		65	AF	PP.6772	Spring anchor pin . . .	31	AD
		65	AG			35	T
		65	AJ	PP.6809	Special parallel pin . . .	57	BY
		67	U	PP.7609	Shouldered pin . . .	55	J
		70	AO	PP.7621	Shouldered pin (short) . . .	45	CG
		71	Q	PP.7682A	Lubricator pivot . . .	37	L
PN.1017-1	Std. 8BA hex. M.S.	39	AU	PP.7817	Special shouldered pin . . .	57	AX
		47	AC	PP.7876	Front plate support pillar . . .	37	F
		67	Y			31	Q
		69	G	PP.7883	Parallel pin . . .	35	P
PN.1021-1	Std. 10BA hex. M.S.	63	M	PP.7884	Parallel pin . . .	57	BD
PN.1501-1	Std. 0BA hex. lock. M.S.	59	D	PP.8600	Shouldered pin . . .	41	R
PN.1505-1	Std. 2BA hex. lock. M.S.	15	AV	PP.8612	Flanged pin . . .	55	D
		23	P	PP.8615	Flanged pin . . .	57	BP
		23	AN	PP.8697	Flanged pin . . .	41	B
		23	AQ	PP.8756	Locking frame pivot . . .	37	B
		25	AN	PP.8869	Front plate support pin . . .	37	E
		25	AQ	PP.8870	Support pillar . . .	23	M
PN.1509-1	Std. 4BA hex. lock M.S.	37	D	PP.8871	Retaining lever pivot . . .	39	CD
		37	E	PS. NUMBERS (SCREWS)			
		39	AN	PS.1037-1	Std. 0BA x 1/2" Ch. hd. M.S.	7	K
		39	CD			9	K
		56	AQ	PS.1066-1	Std. 0BA x 1/8" Ch. hd. M.S.	23	AS
		57	BA			25	AS
		57	CD	PS.1200-1	Std. 1BA x 1" Ch. hd. M.S.	69	U
		71	F	PS.1210-1	Std. 1BA x 1 1/4" Ch. hd. M.S.	15	AW
		31	Z	PS.1322-1	Std. 2BA x 3/16" Ch. hd. M.S.	13	M
		33	H	PS.1332-1	Std. 2BA x 1/2" Ch. hd. M.S.	25	M
		34	B	PS.1342-1	Std. 2BA x 3/8" Ch. hd. M.S.	13	E
		35	F			7	H
PN.1513	Std. 6BA hex. lock M.S.	35	T			9	H
		37	O	PS.1354-1	Std. 2BA x 3/8" Ch. hd. M.S.	19	T
		41	M			19	U
		56	AN			23	AH
		60	AH			25	AH
		64	AA			71	G
		31	AE	PS.1364-1	Std. 2BA x 1/2" Ch. hd. M.S.	23	T
PN.1517-1	Std. 8BA hex. lock M.S.	35	T	PS.1374-1	Std. 2BA x 3/4" Ch. hd. M.S.	69	AB
		64	V				
		69	Y				

Part No.	Part Name	Page	Index Letters
PS. NUMBERS (SCREWS) contd.			
PS. 1376-1	Std. 2BA x $\frac{3}{4}$ " C/sk. hd. M.S.	13	G
PS. 1416-1	Std. 2BA x 1" Grub M.S. . .	15	AT
PS. 1500-1	Std. 2BA x $1\frac{1}{8}$ " ch. hd. M.S.	14	AN
PS. 1645-1	Std. 4BA x $\frac{1}{8}$ " grub M.S. . .	37	Z
PS. 1659-1	Std. 4BA x $\frac{3}{16}$ " ch. hd. M.S.	13	AD
		14	AM
		14	AR
		17	CG
PS. 1670-1	Std. 4BA x $\frac{1}{16}$ " grub M.S. . .	43	AJ
		7	E
		9	E
		15	BK
PS. 1676-1	Std. 4BA x $\frac{1}{4}$ " ch. hd. M.S.	17	CM
		27	BM
		37	Q
		63	E
PS. 1678-1	Std. 4BA x $\frac{1}{4}$ " c/sk. hd. M.S.	71	T
		13	O
		13	S
		57	BC
PS. 1687-1	Std. 4BA x $\frac{5}{16}$ " ch. hd. M.S.	13	AC
		13	AG2
		15	BB
		17	CH
PS. 1693-1	Std. 4BA x $\frac{5}{16}$ " Inst. hd. M.S.	23	E
		25	E
		26	AZ
		69	C
PS. 1694-1	Std. 4BA x $\frac{3}{8}$ " ch. hd. M.S.	18	AB
		15	BN
		15	BO
		17	CA
		17	CB
		23	AG
		25	E
		25	O
		29	DH
		60	X
60	Z		
PS. 1696-1	Std. 4BA x $\frac{3}{8}$ " c/sk. hd. M.S.	7	C
		9	C
		39	G
PS. 1708-1	Std. 4BA x $\frac{7}{16}$ " ch. hd. M.S.	23	H
PS. 1714-1	Std. 4BA x $\frac{7}{16}$ " cap. hd. M.S.	7	J
PS. 1717-1	Std. 4BA x $\frac{1}{2}$ " ch. hd. M.S.	9	J
		15	AY
		15	BF
PS. 1729-1	Std. 4BA x $\frac{9}{16}$ " ch. hd. M.S.	49	AU
		59	G
PS. 1740-1	Std. 4BA x $\frac{5}{8}$ " ch. hd. M.S.	14	AR
PS. 1761-1	Std. 4BA x $\frac{3}{4}$ " ch. hd. M.S.	23	Y
		25	X
PS. 1771-1	Std. 4BA x $\frac{1}{8}$ " ch. hd. M.S.	25	X
		71	D
PS. 1793-15	Std. 4BA x 1" ch. hd. M.S.	16	BS
		25	S
PS. 1803-1	Std. 4BA x $1\frac{1}{16}$ " ch. hd. M.S.	25	Y
		23	V
PS. 1875-1	Std. 4BA x $1\frac{5}{8}$ " ch. hd. M.S.	23	Z
		25	BR
PS. 2029-1	Std. 6BA x $\frac{1}{8}$ " ch. hd. M.S.	23	CL
		25	AL
PS. 2042-1	Std. 6BA x $\frac{5}{16}$ " ch. hd. M.S.	25	AL
		33	L
		49	AK
		18	W
PS. 2043-1	Std. 6BA x $\frac{5}{16}$ " c/sk. hd. M.S.	33	U
		35	AF
		35	M
		39	BY
PS. 2045-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	41	O
		43	AD
		43	CZ
		58	

Part No.	Part Name	Page	Index Letters
PS. NUMBERS (SCREWS) contd.			
PS. 2043-1	Std. 6BA x $\frac{5}{16}$ " C/sk. hd. M.S.	47	AK
		49	AT
PS. 2045-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	13	V
		23	S
		27	BC
		27	BD
		27	BH
		29	DH
		29	DS
		31	O3
		35	F
		35	M
PS. 2047-1	Std. 6BA x $\frac{3}{16}$ " c/sk. hd. M.S.	43	X
		29	EA
		31	C
		31	G
		31	L
		31	AA
		31	AS
		31	BC
		34	B
		35	T
PS. 2057-1	Std. 6BA x $\frac{7}{32}$ " ch. hd. M.S.	65	AP
		15	BG
		18	W
		25	Q
		27	BC
		27	BN
		29	DW
		39	BZ
		47	J
		49	S
PS. 2061-1	Std. 6BA x $\frac{1}{4}$ " ch. hd. M.S.	49	Y
		55	S
		57	CJ
		58	CP
		58	CX
		60	X
		60	AM
		63	K
		64	Y
		69	S
PS. 2062-15	Std. 6BA x $\frac{1}{4}$ " ch. hd. Br.	71	J
		17	CD
		16	BW
		35	F
PS. 2063-1	Std. 6BA x $\frac{1}{4}$ " c/sk. hd. M.S.	39	BF
		39	BH
		51	B
		64	U
PS. 2072-1	Std. 6BA x $\frac{1}{4}$ " cap. hd. M.S.	65	AF
		47	AE
PS. 2074-1	Std. 6BA x $\frac{3}{8}$ " c/sk. hd. M.S.	39	BO
		35	S
PS. 2075-1	Std. 6BA x $\frac{3}{16}$ " ch. hd. M.S.	43	Y
		65	AK
		13	U
		16	BW
PS. 2077-1	Std. 6BA x $\frac{1}{8}$ " ch. hd. M.S.	17	CL
		27	BN
		29	DA
		33	D
PS. 2079-1	Std. 6BA x $\frac{1}{16}$ " c/sk. hd. M.S.	57	BM
		14	AO
		16	BV
		31	W
PS. 2091-1	Std. 6BA x $\frac{1}{16}$ " c/sk. hd. M.S.	33	H
		33	B
		34	J
		37	

Part No.	Part Name	Page	Index Letters
PS. NUMBERS (SCREWS) contd.			
PS. 2093-1	Std. 6BA x $\frac{3}{8}$ " ch. hd. M.S.	34	D
		39	BR
		59	R
		64	AD
		59	B
PS. 2095-1	Std. 6BA x $\frac{3}{8}$ " c/sk. hd. M.S.	15	AY
PS. 2097-1	Std. 6BA x $\frac{3}{8}$ " rd. hd. M.S.	19	E
PS. 2109-1	Std. 6BA x $\frac{7}{16}$ " ch. hd. M.S.	13	AG2
		29	CV
		49	AP
		59	J
PS. 2122-1	Std. 6BA x $\frac{11}{32}$ " ch. hd. M.S.	70	AG
		63	L
		47	AA
PS. 2125-1	Std. 6BA x $\frac{1}{2}$ " ch. hd. M.S.	57	CF
		58	CN
		59	P
		60	AO
		70	AJ
PS. 2126-15	Std. 6BA x $\frac{1}{2}$ " ch. hd. Br.	15	BE
PS. 2127-1	Std. 6BA x $\frac{1}{2}$ " c/sk. hd. M.S.	69	K
		64	AA
PS. 2141-1	Std. 6BA x $\frac{5}{16}$ " ch. hd. M.S.	70	AG
		71	O
		23	AU
PS. 2143-1	Std. 6BA x $\frac{5}{16}$ " c/sk. hd. M.S.	29	EB
		39	BD
		13	AF
PS. 2157-1	Std. 6BA x $\frac{5}{8}$ " ch. hd. M.S.	15	AY
PS. 2159-1	Std. 6BA x $\frac{5}{8}$ " c/sk. hd. M.S.	18	P
		18	AB
PS. 2173-1	Std. 6BA x $\frac{11}{16}$ " ch. hd. M.S.	37	AB
		43	AS
		51	N
		64	P
		15	BL
PS. 2189-1	Std. 6BA x $\frac{3}{4}$ " ch. hd. M.S.	18	C
PS. 2205-1	Std. 6BA x $\frac{11}{16}$ " ch. hd. M.S.	55	X
PS. 2221-1	Std. 6BA x $\frac{3}{4}$ " ch. hd. M.S.	17	CD
PS. 2253-1	Std. 6BA x 1" ch. hd. M.S.	55	X
		64	T
		58	CV
		64	Q
		65	AS
PS. 2430-1	Std. 8BA x $\frac{1}{8}$ " ch. hd. M.S.	67	Y
		63	G
		33	AO
PS. 2440-1	Std. 8BA x $\frac{1}{8}$ " grub M.S.	31	S
		31	AX
PS. 2443-1	Std. 8BA x $\frac{3}{32}$ " ch. hd. M.S.	35	Q
		65	AG
		67	L
		45	CF
		57	CJ
PS. 2445-1	Std. 8BA x $\frac{3}{16}$ " ch. hd. M.S.	63	E
PS. 2447-1	Std. 8BA x $\frac{3}{16}$ " c/sk. hd. M.S.	64	S
		67	AA
PS. 2462-1	Std. 8BA x $\frac{1}{4}$ " ch. hd. M.S.	67	AA
PS. 2476-1	Std. 8BA x $\frac{1}{4}$ " cap. hd. N.S.	58	CX
PS. 2477-1	Std. 8BA x $\frac{3}{16}$ " c/sk. hd. M.S.	65	AU
		69	AA
PS. 2494-1	Std. 8BA x $\frac{1}{8}$ " ch. hd. M.S.	63	B
PS. 2541-1	Std. 8BA x $\frac{1}{16}$ " ch. hd. M.S.	63	M
PS. 2847-1	Std. 10BA x $\frac{1}{4}$ " ch. hd. M.S.	63	B
PS. 4583-1	Std. $\frac{1}{8}$ " 22 T.P.I. B.S.F. x $\frac{3}{4}$ " ch. hd. M.S.	7	C
		7	B
		9	C
		9	C
PS. 5234	Special 2BA x $\frac{1}{2}$ " ch. hd. M.S.	23	K
		25	K

Part No.	Part Name	Page	Index Letters
PS. NUMBERS (SCREWS) contd.			
PS. 5264A	Special 4BA x $\frac{1}{2}$ " ch. hd. M.S.	26	AV
PS. 5301	Special 6BA x $\frac{1}{2}$ " Fil. hd. M.S.	29	CR
		60	AA
PS. 5357	Std. 4BA x $2\frac{5}{16}$ " ch. hd. M.S.	17	BY
PS. 5541	Special 6BA x $\frac{1}{8}$ " rd. hd. M.S.	33	AM
PS. 5544A	Special 6BA x $\frac{1}{8}$ " S.S. shouldered screw	58	CW
		59	T
PS. 5550	Special 2BA x $1\frac{11}{16}$ " M.S. Shouldered screw	13	AH
PS. 5552	Special 2BA x $\frac{3}{4}$ " M.S. Shouldered screw	13	J
PS. 5591	Latch pivot screw	39	AS
PS. 5594	Shouldered screw 4BA x $\frac{1}{4}$ " M.S.	26	AZ
PS. 5629	Shouldered screw 8BA x $\frac{5}{16}$ " M.S.	69	G
PS. 5636A	Shouldered screw 6BA x $\frac{11}{16}$ " M.S.	57	CJ
		58	CX
PS. 5637	Eccentric screw 6BA x $\frac{1}{8}$ " M.S.	58	CX
PS. 5640	Special screw 6BA x $\frac{1}{4}$ " M.S.	58	E
PS. 5705	Special screw 6BA x $\frac{3}{8}$ " cap. rd. screw M.S.	55	P5
PS. 5710	Special screw 6BA x $\frac{3}{4}$ " cap. rd. screw M.S.	55	S
PS. 5716	Special screw 6BA x $\frac{13}{32}$ " cap. hd. screw M.S.	55	T
PS. 5718	Special screw 6BA x $\frac{1}{8}$ " cap. hd. screw M.S.	55	T
		55	O3
PS. 5721A	Special screw 6BA x $\frac{1}{8}$ " ch. hd. S.S.	55	P3
		55	G
PS. 6097	Special screw 6BA x $\frac{25}{32}$ " ch. hd. M.S.	18	G
PS. 6105	Special screw 6BA x $\frac{11}{16}$ " ch. hd. M.S.	63	G
PS. 6106	Special screw 10BA x $\frac{1}{16}$ " ch. hd. M.S.	64	Z
PS. 6207	Special screw 4BA x $\frac{1}{16}$ " knurled hd. Br.	7	G
		9	G
PS. 6898	Shouldered screw 6BA x $\frac{3}{16}$ " ch. hd. M.S.	33	T
PS. 7022	Shouldered screw 4BA cap. hd. M.S.	57	AU
PS. 7034	Shouldered screw 6BA x $\frac{5}{8}$ " M.S.	18	N
		31	AE
PS. 7047	Special 8BA x $\frac{1}{2}$ " ch. hd. M.S.	35	T
		67	T
PS. 7073	Special 6BA x $\frac{11}{16}$ " ch. hd. M.S.	67	T
PS. 7074	Special 8BA x $\frac{1}{32}$ " ch. hd. M.S.	69	Y
PW. NUMBERS (WASHERS)			
PW. 1003-1	Std. 1BA M.S.	15	AY
PW. 1005-1	Std. 2BA M.S.	25	AK
		15	BC
PW. 1009-1	Std. 4BA M.S. (Contd. on next page)	15	BN
		15	BO
		17	CA
		17	CB
		17	CH
		17	CM
		23	L
		23	N
		23	AM
		25	E
		25	P
		25	AM
		26	AV
		26	AY
		29	CS
37	S		
39	CD		
41	S		
49	AV		

Part No.	Part Name	Page	Index Letters	Part No.	Part Name	Page	Index Letters
PW. NUMBERS (WASHERS) contd.				PW. NUMBERS (WASHERS) contd.			
PW.1009-1	Std. 4BA M.S. (contd.)	56	AO	PW.1017-1	Std 8BA M.S.	31	AE
		57	AY			35	T
		57	CB			47	AC
		15	BG			58	CX
		16	BV			64	S
		16	BW			67	Y
		17	CD			69	Y
		17	CL			69	AA
		18	E			63	M
		18	J			19	P
		19	Q	PW.1021-1	Std 10BA M.S.	41	C
		27	BC				
		27	BE	PW.1033-1	Std. 4BA M.S.	29	DN
		27	BH				
		29	CW	35	F		
		29	DX	39	CA		
		31	E	PW.1533	Oil impregnated bush	37	A
		31	J	PW.2002	Std. 0BA Spring washer	7	K
		31	M			9	K
		31	O5	PW.2009	Std. 1BA Spring washer	15	AX
		31	X			15	AU
		31	AB	PW.2013	Std. 2BA Spring washer	23	AJ
		31	AD			25	AJ
		31	AU	PW.2013	Std. 2BA Spring washer	41	D
		31	BA			23	AP
		31	BE	PW.2025	Std. 4BA Spring washer	23	AW
		33	D			25	AP
		33	H	PW.2025	Std. 4BA Spring washer	25	AT
		33	P			26	AY
		34	B	PW.2025	Std. 4BA Spring washer	27	BM
		34	D			29	DJ
		35	M	PW.2025	Std. 4BA Spring washer	15	BN
		35	T			15	BO
		37	N	PW.2025	Std. 4BA Spring washer	17	CH
		37	AD			17	CL
		37	AO	PW.2026	Std. 4BA spring washer	23	G
		39	BS			23	L
PW.1013-1	Std. 6BA M.S.	41	H	PW.2026	Std. 4BA spring washer	23	O
		41	L			23	W
		41	P	PW.2026	Std. 4BA spring washer	23	AA
		41	Q3			25	E
		43	Y	PW.2026	Std. 4BA spring washer	25	T
		43	AE			25	Z
		43	AU	PW.2026	Std. 4BA spring washer	37	C
		45	BH			37	E
		45	BO	PW.2026	Std. 4BA spring washer	37	L
		47	K			37	R
		47	AB	PW.2026	Std. 4BA spring washer	39	CD
		47	AF			56	AP
		49	T	PW.2026	Std. 4BA spring washer	57	AZ
		49	Z			57	CC
		49	AQ	PW.2027	Std. 4BA spring washer	7	E
		51	N			9	E
		55	O3	PW.2027	Std. 4BA spring washer	16	BV
		55	P3			17	CD
		55	U	PW.2027	Std. 4BA spring washer	18	T
		55	AE			23	AV
		56	AL	PW.2027	Std. 4BA spring washer	27	BC
		57	BK			27	BF
		58	CX	PW.2027	Std. 4BA spring washer	27	BJ
		60	X			27	BN
		60	AC	PW.2037	Std. 6BA spring washer (contd. on next page)	29	DB
		63	L			29	DN
		64	P	PW.2037	Std. 6BA spring washer (contd. on next page)	29	DS
		64	AD			29	DY
		65	AF	PW.2037	Std. 6BA spring washer (contd. on next page)	29	EA
		65	AH			29	EC
		65	AP	PW.2037	Std. 6BA spring washer (contd. on next page)	31	D
		67	T			31	H
		69	B	PW.2037	Std. 6BA spring washer (contd. on next page)	31	N
		71	K			31	O4
		71	K	PW.2037	Std. 6BA spring washer (contd. on next page)	31	Y
		71	K			31	AC
PW.1014-15	Std. 6BA Br.	17	CD	PW.2037	Std. 6BA spring washer (contd. on next page)	31	AD
		71	P			31	AD

Part No.	Part Name	Page	Index Letters		
PW. NUMBERS (WASHERS) contd.					
PW. 2037	Std. 6BA spring washer . . . (contd).	31	AT		
		31	AZ		
		31	BD		
				33	F
				33	H
				34	B
				34	D
				35	F
				35	T
				35	M
				37	M
				37	AC
				37	AO
				39	BT
				39	CB
				43	AT
				47	L
				47	AB
				47	AG
				49	AQ
				51	N
				55	O3
				55	P3
				55	Y
				55	AF
				56	AM
				58	CX
				60	X
				60	AG
				63	L
				65	AG
				65	AP
				69	B
		69	AF		
		33	D		
PW. 2038	Std. 6BA spring washer . . .	57	BL		
PW. 2049	Std. 8BA spring washer . . .	70	AN		
		69	G		
		31	AE		
		35	T		
		39	AT		
PW. 2050	Std. 8BA spring washer . . .	47	AC		
		58	CU		
		58	CX		
		69	Y		
PW. 3061	Std. $\frac{5}{16}$ " M.S. . . .	7	C		
PW. 4002	Std. $\frac{1}{8}$ " Ph. Br. Spring washer . . .	9	C		
PW. 4016	Std. $\frac{1}{16}$ " M.S. double coil spring washer . . .	18	D		
PW. 4031	Std. $\frac{1}{16}$ " M.S. single coil spring washer . . .	18	H		
		13	AJ		
		7	B		
		9	B		
PW. 5005	Special washer $\frac{3}{4}$ " I.D. Br.	67	F		
PW. 5008	Special washer $\frac{1}{4}$ " I.D. M.S. . . .	69	AF		
PW. 5042	Special washer $\frac{1}{2}$ " I.D. spring steel . . .	69	U		
PW. 5045	Special washer $\frac{1}{2}$ " I.D. M.S. . . .	33	AN		
PW. 5046	Special washer $\frac{3}{32}$ " I.D. C.S. . . .	71	E		
PW. 5053	Special washer $\frac{1}{16}$ " I.D. M.S. . . .	70	AS		
PW. 5060	Special washer $\cdot 113$ I.D. C.S. . . .	23	AK		
		69	R		
		23	X		
PW. 5092	Special washer $\frac{1}{2}$ " I.D. M.S. . . .	23	AB		
		25	U		
		25	AA		
PW. 5114	Special washer $\frac{3}{16}$ " I.D. M.S. . . .	33	Q		
PW. 5125	Special washer $\frac{3}{32}$ " I.D. M.S.	69	V		

Part No.	Part Name	Page	Index Letters
PW. NUMBERS (WASHERS) contd.			
PW. 5143	Special washer $\frac{1}{8}$ " I.D. C.S. . . .	47	U
		49	AJ
PW. 5190	Special washer $\frac{7}{64}$ " I.D. M.S.	35	T
PW. 5199	Special washer $\frac{1}{16}$ " I.D. spring steel . . .	55	L
PW. 5213	Special washer $\frac{1}{8}$ " I.D. M.S.	55	AC
PW. 5216	Special washer $\frac{1}{4}$ " I.D. Paper	27	BC
		19	F
PW. 5224	Special washer $\frac{15}{32}$ " O.D. M.S.	43	BB
		51	J
		55	W5
PW. 5226	Special washer $\frac{1}{4}$ " I.D. M.S.	45	CR
		55	M
PW. 5227	Clutch shim $\frac{13}{64}$ " I.D. spring steel	39	AY
		43	BB
		65	AG
PW. 5232	Special washer $\frac{5}{16}$ " O.D. S.S.	45	BX
PW. 5241	Special washer $\frac{11}{32}$ " I.D. M.S.	55	W3
PW. 5256	Special washer $\frac{1}{4}$ " I.D. M.S.	57	BX
PW. 5262	Special washer $\frac{3}{16}$ " I.D. M.S.	51	F
PW. 5276	Special washer $\cdot 113$ I.D. M.S.	71	O
PW. 5277	Special washer $\frac{13}{32}$ " O.D. S.S.	37	AG
PW. 5327	Friction washer $\frac{3}{4}$ " O.D. piano wire	31	AO
PW. 5403	Special washer $\frac{1}{4}$ " I.D. M.S.	31	AP
PW. 5480	Special washer $\frac{3}{32}$ " O.D. (oil impregnated) . . .	37	A
		41	A
PW. 5491	Shim washer $\frac{3}{32}$ " I.D. spring steel	39	BL
PW. 5506	Special washer $\frac{5}{16}$ " I.D. M.S.	14	AQ
PW. 5507	Special washer $\frac{1}{8}$ " I.D. spring steel	57	BF
PW. 5508	Special washer $\frac{1}{8}$ " I.D. spring steel	57	BG
PW. 5529	Spacing washer $\cdot 113$ I.D. M.S.	27	BN
PW. 5547	Special spring washer $\frac{1}{8}$ " I.D. C.S.	18	M
PW. 5556	Special washer $\frac{3}{32}$ " I.D. spring steel	39	AR
PW. 5557	Special washer $\frac{3}{32}$ " I.D. M.S.	23	C
		25	C
PW. 5573	Special washer $\frac{3}{16}$ " I.D. M.S.	18	K
PW. 5617	Selector lever spacer $\frac{1}{2}$ " I.D. M.S.	39	BK
PW. 5619	Connecting lever spacer $\frac{1}{2}$ " I.D. spring steel	31	P
		35	N
PW. 5620	Eccentric abutment washer $\frac{3}{4}$ " I.D. M.S.	23	D
		25	D
PW. 5632	Spacing collar $\frac{3}{32}$ " I.D. M.S.	60	AF
PW. 5633	Special washer $\frac{1}{8}$ " I.D. M.S.	63	M
PW. 5649	Special washer $\frac{3}{32}$ " I.D. M.S.	58	CX
PW. 5654	Special washer $\frac{1}{2}$ " I.D. M.S.	45	BL
RL. NUMBERS (ROLLERS)			
RL. 1006A	Roller	67	W
RL. 1017	Roller	70	AM
RL. 1048	Roller	34	B
RL. 1049	Roller	57	BO
RL. 1051A	Roller	57	BW
RL. 1052A	Roller	57	AW
RL. 1060	Roller	41	Q2
RL. 1071	Roller	70	AR
RL. 1098	Roller	33	E
RL. 1099	Roller	33	E
RL. 1118	Roller (flanged)	57	BE
RL. 1154	Roller	65	AW
RL. 1155	Roller	69	F
RL. 1156	Roller	69	X