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It is my hope that you find the file of use to you personally – I know that I would have liked to have found some of these files years ago – they would have saved me a lot of time !

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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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

Telex: 28836

Telephone:
MUNICIPAL 2424



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 }	
67CP/N3	7 Unit }	3-row
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
67CP/CTK	7 Unit }	and, if required, code-change "Shift" key.

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

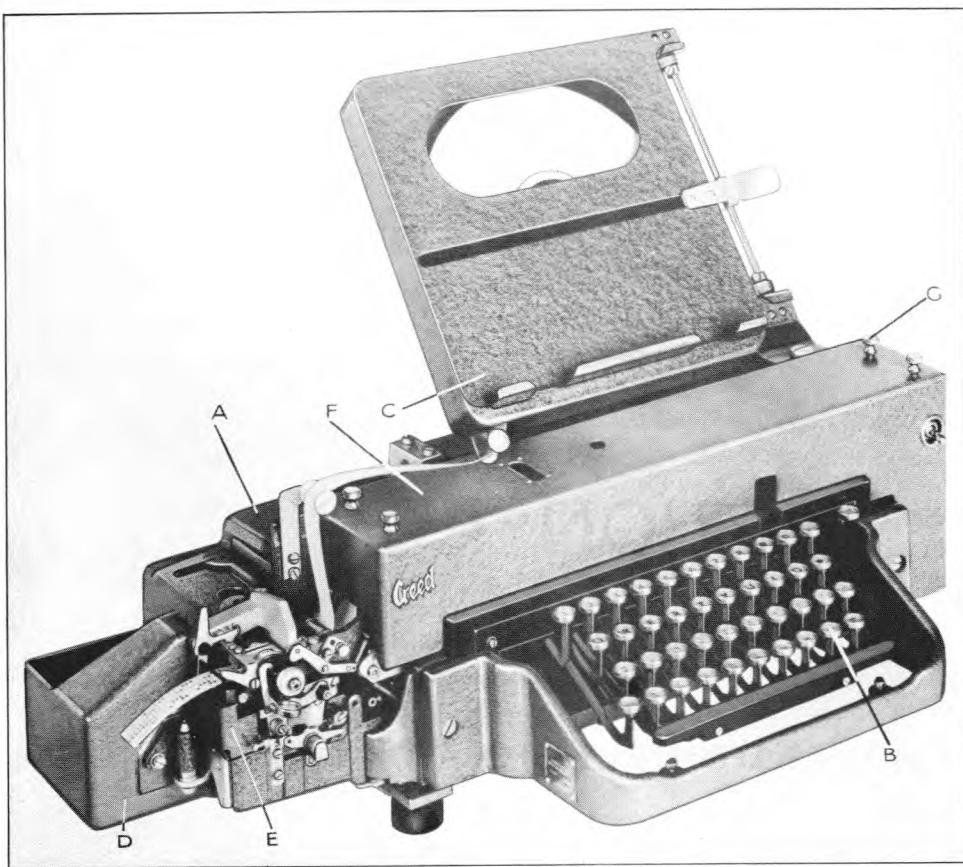


Fig. 1 TELEPRINTER
PERFORATOR MODEL 7P/N4

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 PS.4583-1 PW.4031	KEYBOARD UNIT Std. 5/16" BSF Screw Std. 5/16" Spring Washer	{ 2 of each per set for securing item B (not visible)
C	2060/40 PS.4583-1 PW.3061-1 1947/295 PS.1696-1	TAPE BOX AND MESSAGE DESK UNIT Std. 5/16" BSF Screw Std. 5/16" Washer	{ 3 of each per set for securing item C (not visible)
D	3785/54	Cuttings Box Bracket C.P.	
E	2060/176A PS.1676-1 PW.2027 1841/11	Std. 4BA Screw (3 per set) Cuttings Box C.P. Perforator Guard Cover Std. 4BA Screw Std. 4BA Spring Washer	{ 3 of each per set for securing item E
F	2060/70	Coupling Disc	
G	PS.6207	Cover C.P. 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 PS.4583-1 PW.4031	KEYBOARD UNIT Std. 5/16" Screw Std. 5/16" Spring Washer	{ 2 of each per set for securing item B (not visible)
C	2060/40 PS.4583-1 PW.3061-1	TAPE BOX AND MESSAGE DESK UNIT Std. 5/16" BSF Screw Std. 5/16" Washer	{ 3 of each per set for securing item C (not visible)
D	2060/76	Cuttings Box C.P.	
E	2060/176A PS.1676-1 PW.2027 1841/11	Perforator Guard Cover Std. 4BA Screw Std. 4BA Spring Washer	{ 3 of each per set for securing item E
F	2060/70	Coupling Disc	
G	PS.6207	Cover C.P. Knurled Head Screw (4 per set)	
H	1550/640	TAPE CONTROL UNIT	
J	PS.1354-1 2060/66	Std. 2BA Screw (2 per set for securing item J) Cover	
K	PS.1714-1 1550/294 1550/263 1550/277 PS.1037-1 PW.2002 S.3797	Std. 4BA Screw (3 per set for securing item K) TRANSMITTER STAND C.P. Packing shim (thick) Packing shim (thin) Std. OBA Screw Std. OBA Spring Washer	{ fitted as required below item L for aligning driving spindle 2 of each per set for securing item L
L		TRANSMITTER HEAD C.P.	

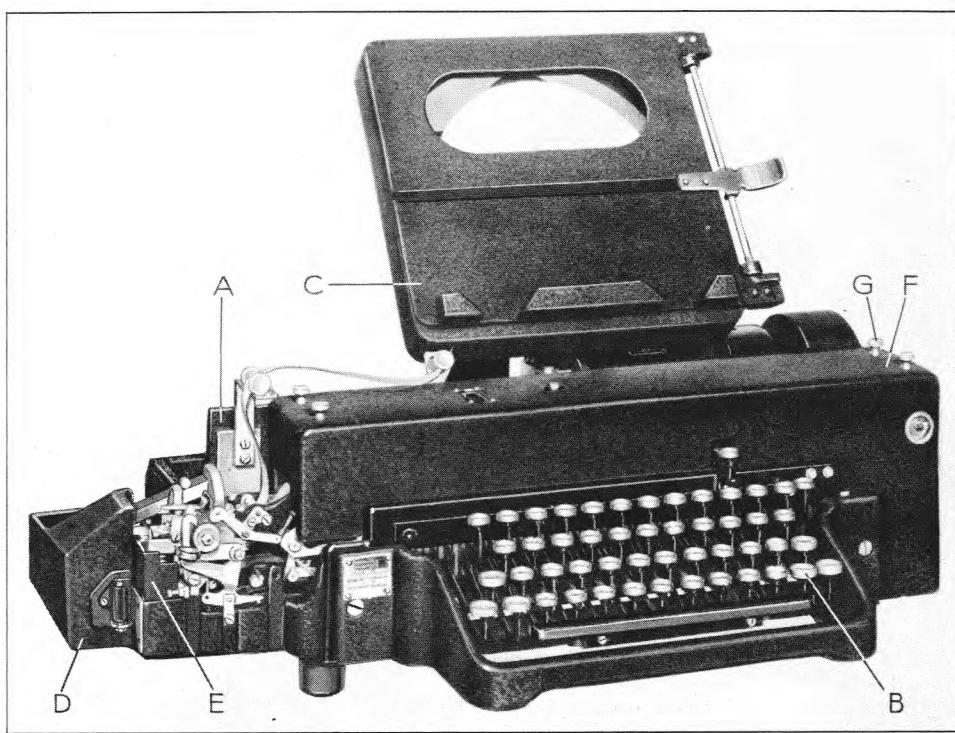


Fig. 3
TELEPRINTER
PERFORATOR
MODEL 7P/CTK

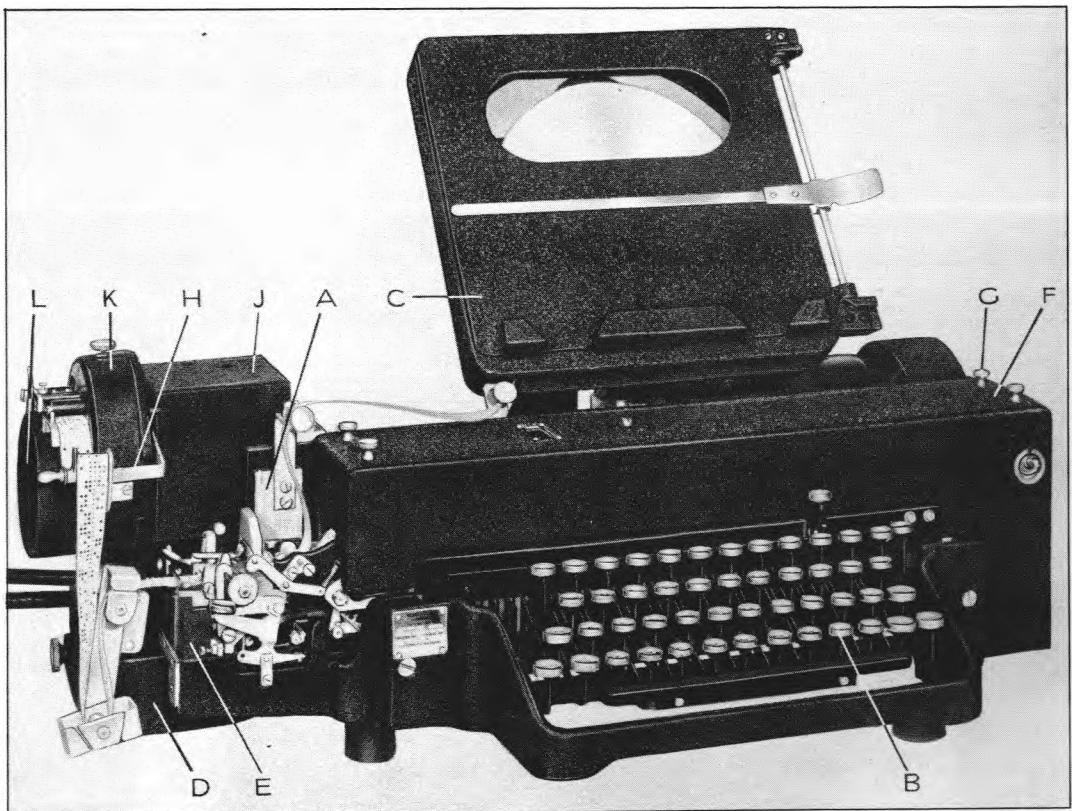


Fig. 4
TELEPRINTER
PERFORATOR AUTO-
TRANSMITTER
MODEL 67P CTK

SECTION 1 (contd.)
MODELS

MODEL 7P/CTK TELEPRINTER PERFORATOR

(See Fig. 3)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
A		MAIN BASE ASSEMBLY	
B	S.2824D	KEYBOARD UNIT	<i>See page 13</i>
	PS.4583-1	Std. 5/16" BSF Screw } (for securing item B, PW.4031 Std. 5/16" Spring } not visible)	<i>See page 25</i>
		Washer } 2 per set	
C	2060/40	TAPE BOX AND MESSAGE DESK UNIT	<i>See page 19</i>
	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.	
D	PS.1696-1	Std. 4BA Screw (3 per set)	
	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		MAIN BASE ASSEMBLY	<i>See page 13</i>
B	S.2824D	KEYBOARD UNIT	<i>See page 25</i>
	PS.4583-1	Std. 5/16" BSF Screw } (for securing item B, PW.4031 Std. 5/16" Spring } not visible)	
		Washer } 2 per set	
C	2060/40	TAPE BOX AND MESSAGE DESK UNIT	<i>See page 19</i>
	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	<i>See page 69</i>
	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.	<i>See page 71</i>
	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.	<i>See page 63</i>

SECTION 2

MAIN BASE

(ALL MODELS)

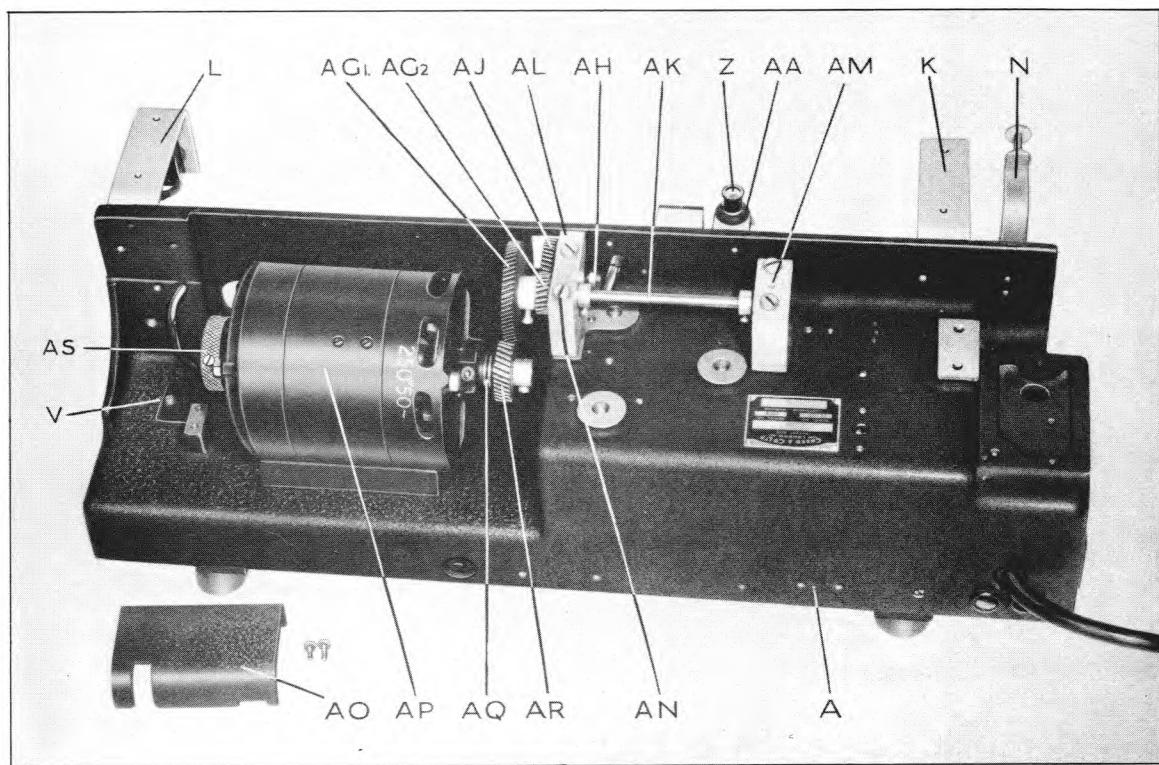


Fig. 5 No. 7P MAIN BASE ASSEMBLY (FRONT VIEW)

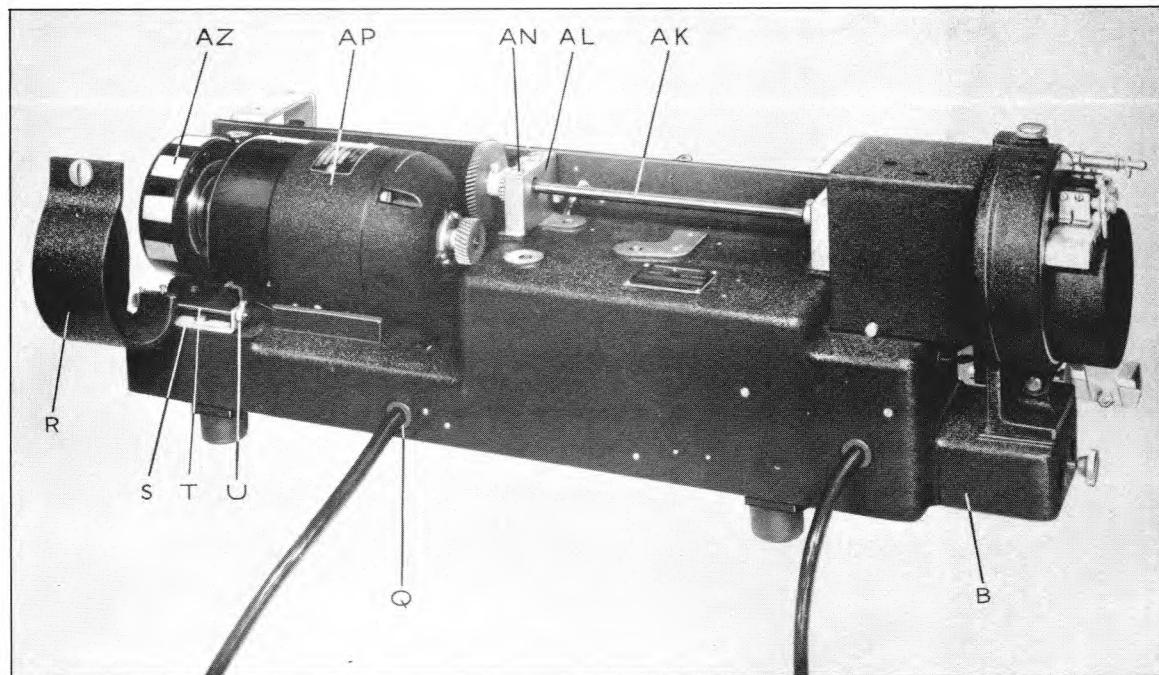


Fig. 6. No. 67P MAIN BASE ASSEMBLY (REAR VIEW)

SECTION 2
MAIN BASE

MAIN BASE ASSEMBLY

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

ALL MODELS

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
<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
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.
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)
	PS.2077-1	Std. 6BA Screw
V	2060/173	Aperture Cover (for machines with ungoverned motors only)
	PS.2045-1	Std. 6BA Screw (2 per set) for securing item V.

End of Line Indicator Parts

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
	BO.2668	or Resistor 500 + 1500 ohms (for 100/120 volt) } Resistor
AE	PS.1659-1	Std. 4BA Screw (2 per set) for securing item AD
AF	2060/161	Terminal Block Insulator
	2060/196	Terminal Block C.P. (4-way)
	PS.2157-1	Std. 6BA Screw (2 per set) for securing item AF

Shafts and Gearing

2978/1	Transmitter driving shaft C.P. (for Model 7P only)	For Model 67P } comprises
2060/14A Gr.1 or	Transmitter driving shaft C.P. (7½ unit 50 baud)	
2060/14A Gr.2 or	Transmitter driving shaft C.P. (7 unit 50 baud)	
2060/14A Gr.4 or	Transmitter driving shaft C.P. (7½ unit 45.5 baud)	
2060/15	Compound Gear C.P. 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.
AH	PS.1687-1	Std. 4BA Screw (for securing Compound Gear C.P.).
AJ	PS.5550	Special Screw (spindle for item 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

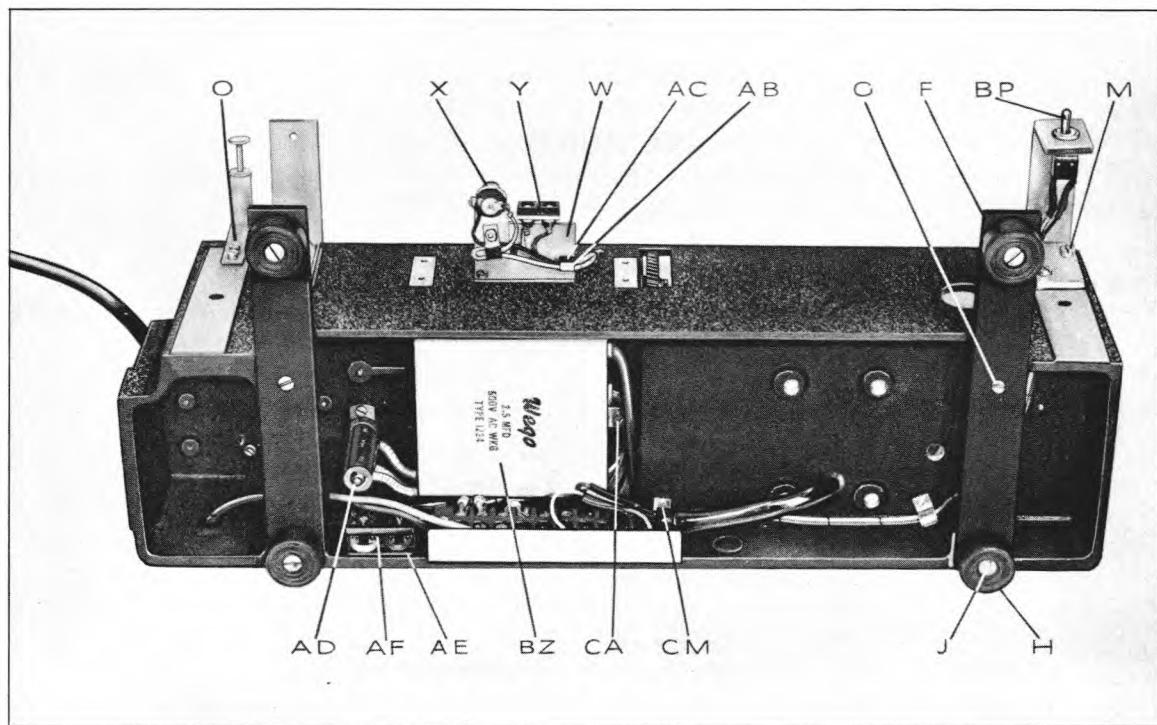


Fig. 7 No. 7P MAIN BASE ASSEMBLY (UNDERSIDE)

MAIN BASE ASSEMBLY (CONTD.)

Index Letter	Part No.	Part Name
AM	2060/13 2060/47 CS.1081 GR.2061 GR.2082 GR.4054 PS.1659-1	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 } For Model 67P only. or Helical Gear (30 teeth) 7 unit 50 bauds } Not visible. or Helical Gear (31 teeth) 7½ unit 45.52 bauds } Drives Tape Std. 4BA Screw (for securing Helical Gear) Control Unit.
AN	PS.1500-1	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 GR.2138 GR.2080 PS.1729-1 PS.1659-1	Motor Brush C.P. (for all governed motors) Ball Bearing Thrust Washer } for use with Ref.125A Motor Pinion (35 teeth) } Induction type Motor only. 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)
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MAIN BASE ASSEMBLY (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
AS	2060/178 PS.1339-1	Handwheel Std. 2BA Grub Screw } for use with Ref.125A Induction Type Motor only.
AT	PS.1416-1	Std. 2BA Grub Screw }
AU	PW.2013	Std. 2BA Spring Washer } 4 of each per set, for adjusting height of motor.
AV	PN.1505-1	Std. 2BA Locknut }
AW	PS.1210-1	Std. 1BA Screw }
AX	PW.2009	Std. 1BA Spring Washer } 2 of each per set, for securing motor.
AY	PW.1003-1 2060/157 1824/31 1824/9A PS.2095-1 PN.1013-1 CT.1098 PC.2504A PG.2021A 1824/10 PS.2157-1 2060/16 PS.2157-1 PS.1717-1 S.1910	Std. 1BA Washer Governor Brush Block C.P. comprises:- Insulating Block Fixing Plate (2 per set) Std. 6BA Screw Std. 6BA Nut } for securing fixing plates, 1 per plate. Connection Tag Governor Brush C.P. } 2 of each per set. Backing Spring Clamping Plate Std. 6BA Screw (for securing clamping plates) 2 per plate Bracket Std. 6BA Screw (2 per set) for securing 2060/16 Std. 4BA Screw (2 per set) for securing Governor Brush Block C.P. Governor Unit
AZ		See page 18

Motor Circuit Components

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

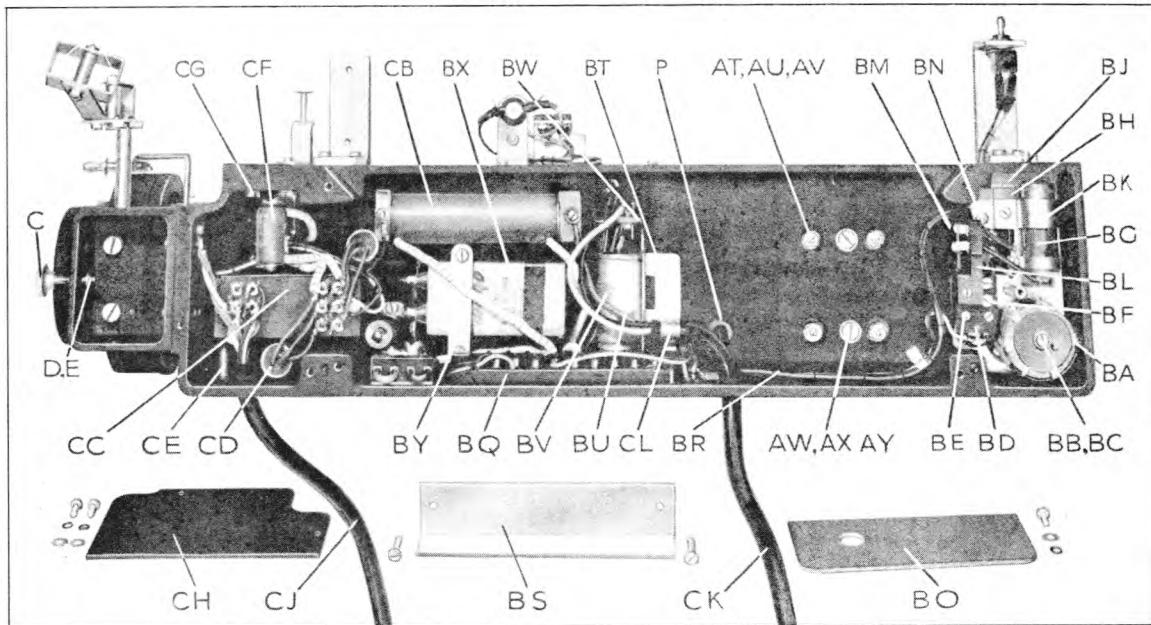


Fig. 8 No. 67P MAIN BASE ASSEMBLY (UNDERSIDE VIEW)

MAIN BASE ASSEMBLY (CONTD.)

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

SECTION 2 (*contd.*)
MAIN BASE

MAIN BASE ASSEMBLY (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
BX	BO.2649	R.I.S. Capacitor ($0.5 \mu F$)
	BO.2652	R.I.S. Capacitor ($0.5 \mu F + 330 \text{ ohms}$)
BY	PK.1044	Capacitor Strap } for retaining Capacitors
	PS.5357	Std. 4BA Screw }
BZ	BO.1808B	Capacitor ($10 \mu F$) for 110 volt induction motor } Model
	BO.1809B	or Capacitor ($2.5 \mu F$) 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 }
	PW.1009-1	Std. 4BA Washer } 2 of each per set for securing item CB.

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 μH (6 per set)
CD	2060/171	Capacitor C.P. (.005 + .005 + .005 μF) 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 }
	PS.2253-1	(not visible)
	PS.1013-1	Std. 6BA Screw }
	PW.2037	Std. 6BA Washer }
	PN.1013-1	2 of each per set } for securing Transmitter
	Std. 6BA Nut	Suppressor Unit C.P.
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 }
	PW.1009-1	Std. 4BA Washer }
	PW.2026	2 of each per set, for securing item CH.

Plugs, Cords and Sockets

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

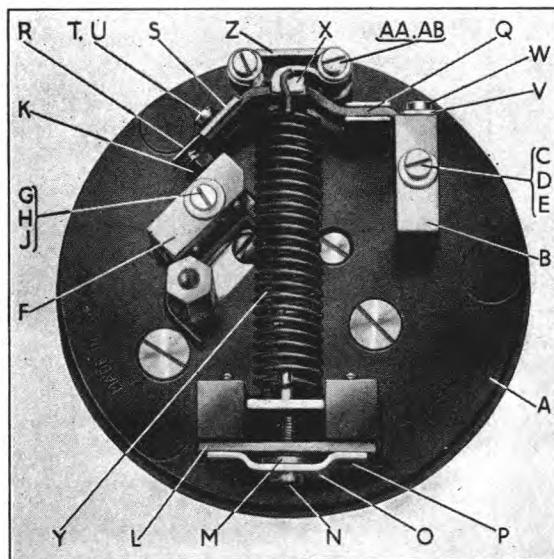


Fig. 9

**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.

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	19 10/33	Governor base sub. C.P. 5/16" bore, comprises base moulding assembled with slip rings, governor boss and the following replaceable parts:-
B	19 10/5A	Contact arm mounting block
C	PS.2205-1	Std. 6BA screw } for securing Item B.
D	PW.4002	6BA spring washer }
E	PW.1013-1	Std. 6BA washer }
F	19 10/13	Contact block
G	PS.6097	Special screw
H	PW.4002	6BA spring washer } for securing Item F.
J	PW.1013-1	Std. 6BA washer }
K	PC.3006	Contact screw
	PW.5573	Special washer (under Item L) not visible.
L	19 10/17A	Governor spring plate
M	PW.5547	Special washer
N	PS.7034	Special screw
O	19 10/96	Governor spring clamping plate
P	PS.2159-1	Std. 6BA screw (2 per set) for securing Item O.
	19 10/12	Contact arm C.P. comprises:-
Q	19 10/27A	Contact arm sub C.P.
R	19 10/52	Contact blade C.P.
S	19 10/51	Contact blade clamp
T	PW.2037	Std. 6BA spring washer
U	PS.2042-1	Std. 6BA screw
V	19 10/6	Contact arm keep plate
W	PS.2061-1	Std. 6BA screw
X	19 10/26	Contact arm saddle
Y	19 10/19A	Governor spring C.P. - standard speed 1,500 r.p.m. Colour code: Yellow-Green.
	19 10/88	Flanged bush (not visible, under Item Z)
Z	19 10/87	Governor arm stop spring
AA	19 10/89	Special washer } for securing Item Z.
AB	PS.2173-1	Std. 6BA screw }
	19 10/76A	Governor Cover (not shown)
	PS.1693-1	Std. 4BA screw (for securing cover)

SECTION 2 (contd.)
MAIN BASE

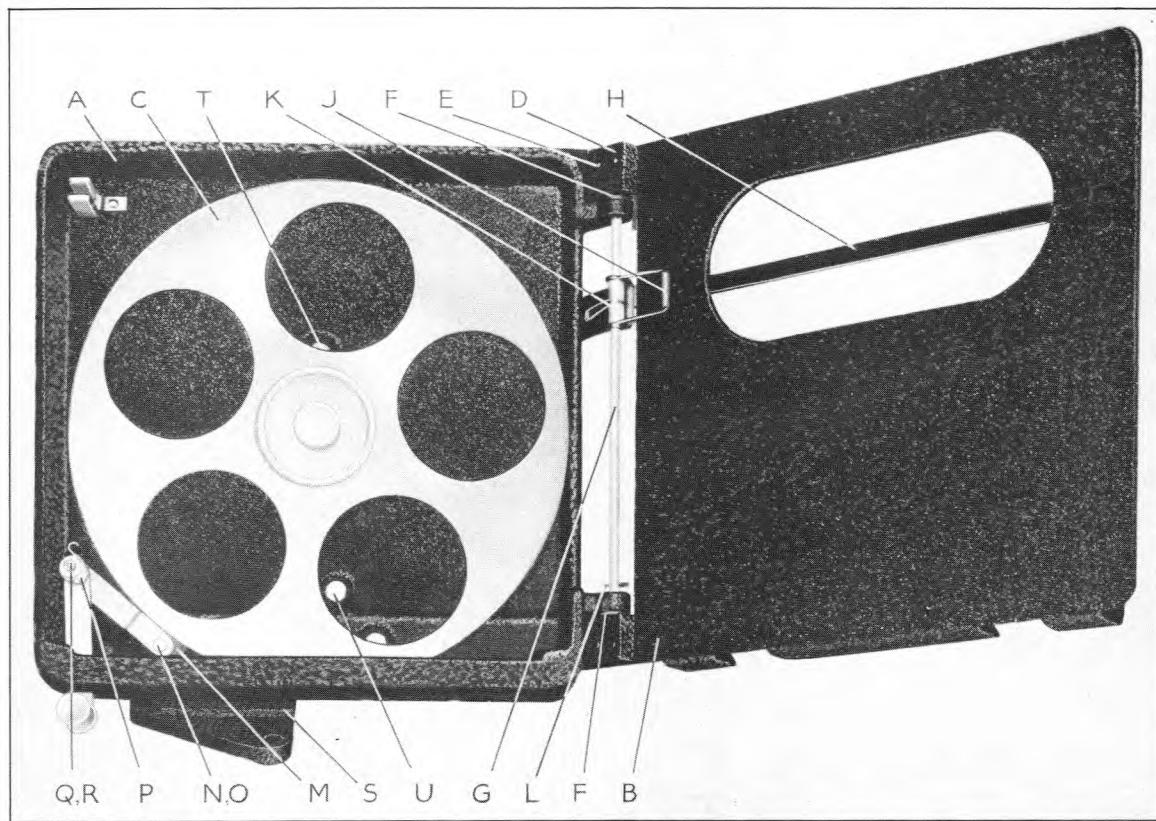


Fig. 10 TAPE BOX AND MESSAGE DESK UNIT 2060/40

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. (<i>not supplied as part of tape box and desk unit 2060/40</i>).
D	2060/63	Hinge ear
E	PS.2097-1	Std. 6BA screw (<i>2 per set</i>) for securing item D to item B.
F	PW.5224	Washer (<i>2 per set</i>)
G	2060/43	Hinge post
H	1847/4	Paper clip C.P.
J	PB.1095	Collar
K	PG.3015	Torsion spring (<i>for item H</i>)
L	CS.1049	Set collar and screw (<i>2 per set</i>) Stop for item H. (<i>not shown</i>)
	2060/39	Tape wheel brake C.P. includes:-
M	2060/83	Brake block (<i>leather</i>)
N	2060/80	Special screw } for securing item M.
O	PN.1013-1	Std. 6BA nut }
P	PG.3062	Torsion spring
	PW.1029-1	Std. 2BA washer (<i>under tape wheel brake C.P.</i>)
Q	PW.1013-1	Std. 6BA washer }
R	PN.1013-1	Std. 6BA nut } for securing tape wheel brake C.P.
S	2060/26	Message desk support
T	PS.1354-1	Std. 2BA screw (<i>3 per set</i>) for securing item B to item S } Not supplied as
	2060/68	Gear cover (<i>not shown</i>) } part of tape box and
U	PS.1354-1	Std. 2BA screw (<i>2 per set</i>) for securing gear cover } desk unit 2060/40.

SECTION 3

KEYBOARD'S

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.

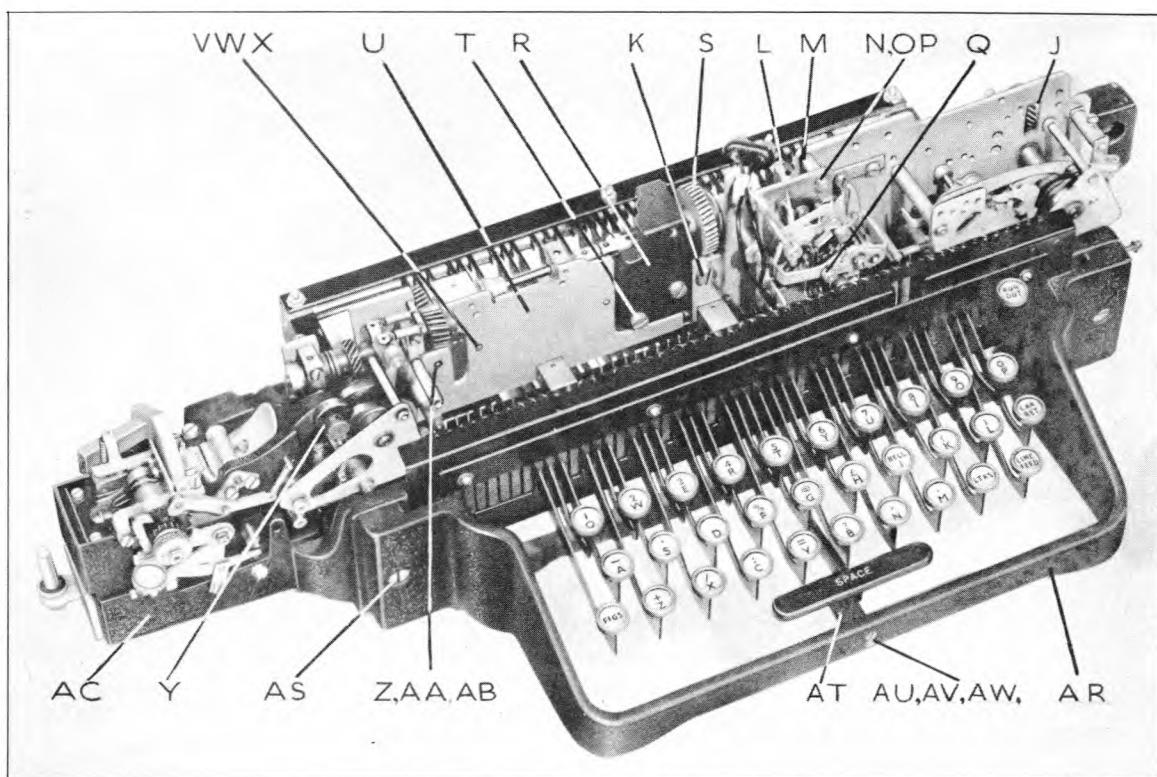


Fig. 11 TYPE N3 KEYBOARD UNIT S2912B

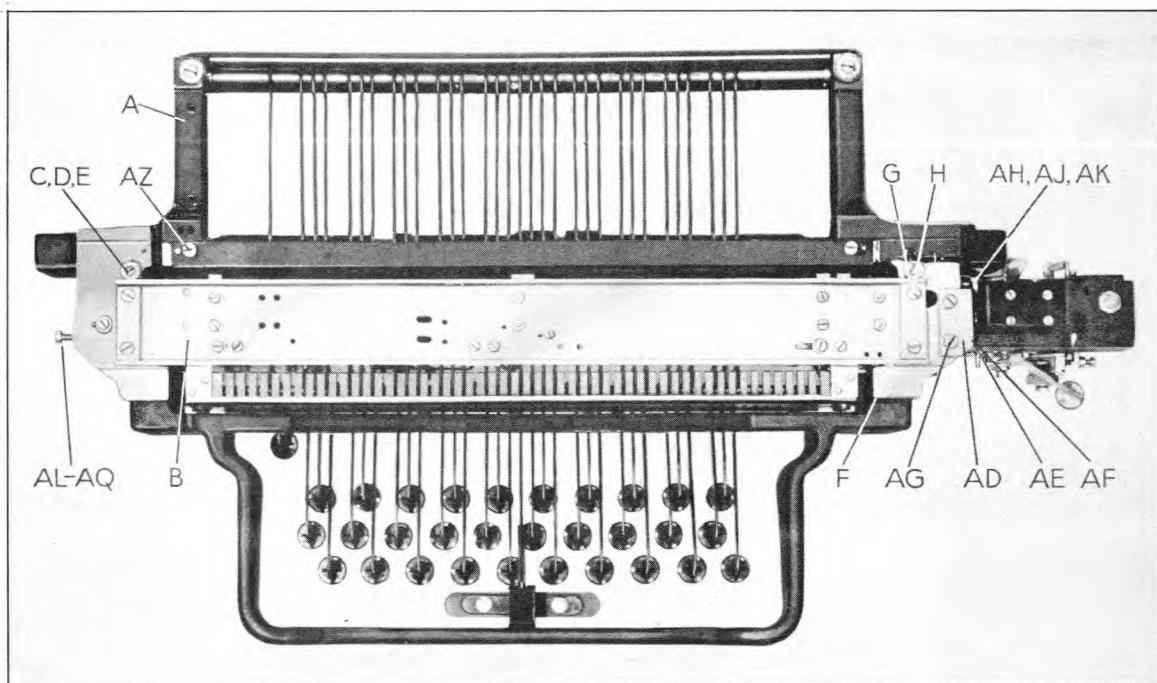


Fig. 12 TYPE N3 KEYBOARD UNIT S2912B (UNDERSIDE VIEW)

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	S.3707C	KEYBOARD PARTIAL ASSEMBLY	
B	PW.5557	COMBINATION BAR UNIT	
C	PW.5620	Special Washer (2 per set)	
D	PS.1687-1	Abutment Washer } 3 of each } For	
E	F 2060/142	Std. 4BA Screw } per set } positioning	
G	PW.2026	Support Block (2 per set)	
H	PS.1708-1	Std. 4BA Spring Washer } 2 of each } For	
J	S.2303B	Std. 4BA Screw } per block } securing	
K	PS.5234	PERFORATOR OPERATING UNIT	
L	S.2258 Gr.4	Special Screw (3 per set) for securing Item J	
M	PW.1009-1	COUNTER UNIT	
N	PW.2026	Std. 4BA Washer } 3 of each per set	
O	PN.1009-1	Std. 4BA Spring Washer } for securing	
P	PP.8870	Std. 4BA Nut Item L	
Q	PW.1009-1	Support Pillar (3 per set)	
R	PW.2026	Std. 4BA Washer } 3 of each	
U	PN.1009-1	Std. 4BA Spring Washer } per set } for securing	
V	PN.1509-1	Std. 4BA Nut (2 per set)	
W	2288/2	Std. 4BA Locknut	
X	CS.1011	Counter Resetting Link (not visible)	
Y	2912/1	Set Collar and Screw } For machines fitted with	
	PB.1207	Gear Bracket C.P. includes:-	
	1855/154A	Shouldered Bush	
S	GR.2164	Secondary Shaft	
T	PS.2045-1	Perforator Driving Gear (39 teeth)	
U	PS.1364-1	Std. 6BA Screw (for securing Driving Gear)	
V	S.1976, Gr.3	PERFORATOR LINK UNIT	
W	PS.1771-1	Std. 2BA Screw (3 per set) for securing Item R	
X	PW.2026	2 of each per set	
Y	PW.5092	Std. 4BA Spring Washer } for securing	
	1947/10B Gr.1	Special 4BA Washer Item U	
	1947/10B Gr.2	PUNCH BLOCK UNIT (centre feed only)	
Z	or		
AA	EC.5055	PUNCH BLOCK UNIT (advance feed only)	
AB	PS.1740-1	Eccentric (for positioning Item Y)	
AC	PS.1771-1	Std. 4BA Screw (for securing eccentric)	
AD	PS.2026	3 of each per set See Items W and X,	
AE	AB PW.5092	Std. 4BA Screw (for securing eccentric) Fig. 14.	
AF	1947/277	Std. 4BA Screw } 3 of each per set	
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	PS.5053	Special 2BA Washer Item AC	
AL	PS.1875-1	Std. 4BA Screw	
AM	PW.1009-1	Std. 4BA Washer } for securing	
AN	PN.1509-1	Std. 4BA Locknut } Adjustable Stop	
AO	PN.1009-1	Std. 4BA Nut for trip bar.	
AP	PW.2025	Std. 4BA Spring Washer }	
AQ	PN.1509-1	Std. 4BA Locknut for keyboard layout)	
AR		KEYBOARD MASK (These vary according to keyboard layout)	
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	3 of each per set	
	PW.2025	Special Stop Screw C.P. } Stops for space pads	
	PN.1009-1	Std. 4BA Spring Washer Model N/4 only.	

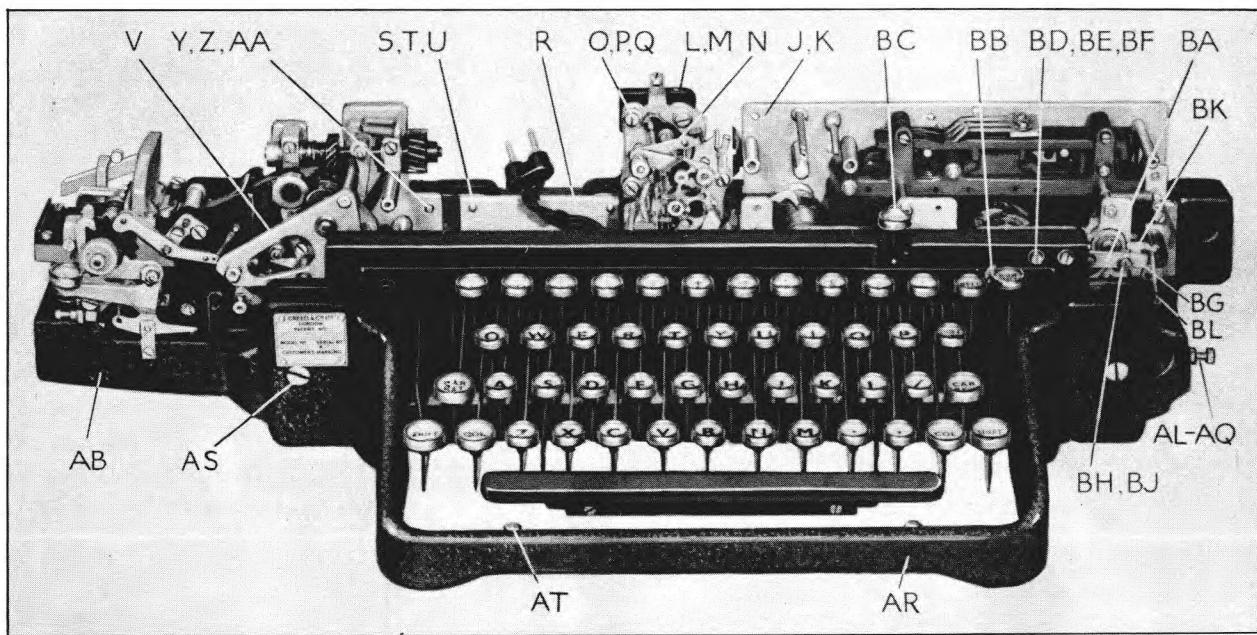


Fig. 13 COMMERCIAL TYPEWRITER KEYBOARD UNIT S2824A

SECTION 3 (contd.)
KEYBOARDS

COMMERCIAL TYPEWRITER KEYBOARD S.2824D

(See Figs. 12 and 13)

FOR MODELS 7P/CTK AND 67P/CTK

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
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 }	
T	PW.2026	2 of each per set 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)	See page 55
W	EC.5055	Eccentric (for positioning Item V)	
X	PS.1740-1	Std. 4BA Screw (for securing eccentric, not visible)	See Items W and X,
Y	PS.1761-1	Std. 4BA Screw }	Fig. 14
Z	PW.2026	3 of each per set for securing	
AA	PW.5092-1	Std. 4BA Spring Washer } for securing	
AB	1947/130C, Gr.2	Special 4BA Washer } Item V	
AD	1947/278A	ANVIL BRACKET C.P.	See page 59
AE	1947/300	Abutment Plate	
AF	1947/277	Shim (.020" thick) 4 off max.	
AG	PS.1694-1	Shim (.005" thick) 3 off max.	
AH	PS.1354-1	Std. 4BA Screw (2 per set) for securing Item AD and shims.	
AJ	PW.2013	Std. 2BA Screw }	
AK	PW.1005-1	2 of each per set for securing	
AL	PS.1875-1	Std. 2BA Spring Washer } Item AB	
AM	PW.1009-1	Std. 2BA Washer }	
AN	PN.1509-1	Std. 4BA Screw }	
AO	PN.1009-1	Std. 4BA Washer }	
AP	PW.2025	Std. 4BA Locknut }	Adjustable Stop for
AQ	PN.1509-1	Std. 4BA Nut }	Trip Bar
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.

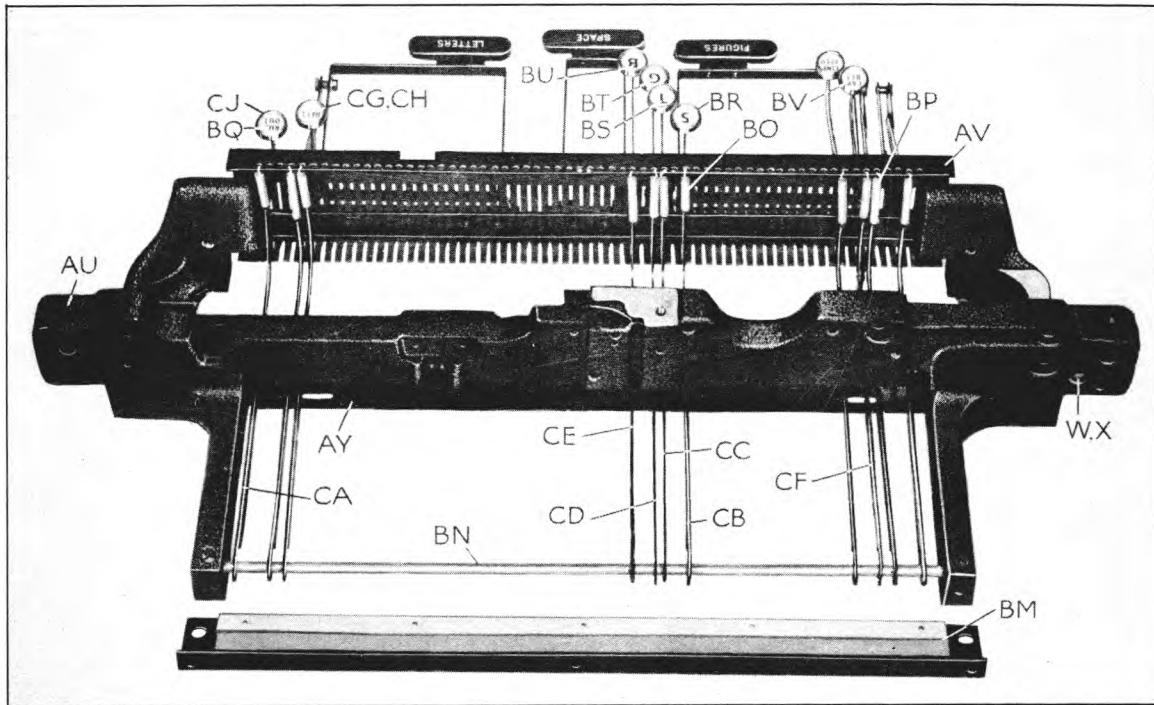


Fig. 14 KEYBOARD PARTIAL ASSEMBLY (ALL MODELS)

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 2088/25B	Front rack C.P. ($3/4''$ key pitch) for 4-row keyboards 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 2088/2B	Back Rack ($3/4''$ key pitch) for 4-row keyboards or Back Rack ($7/8''$ key pitch) for 3-row keyboards
AZ	PS.1687-1 2088/43 2088/42	Std. 4BA Screw (2 per set) for securing item AY. See Fig. 12. Keyboard guide rack ($3/16''$ pitch) for 4-row keyboard or Keyboard guide rack ($7/32''$ pitch) for 3-row keyboard
	PS.5594	Special screw }
PW.1009-1	Std. 4BA Washer	2 of each per set
PW.2025	Std. 4BA Spring Washer	for securing keyboard
PN.1009-1	Std. 4BA Nut	guide rack. } Not illustrated.

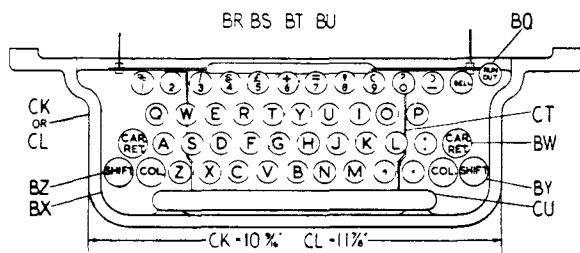
SECTION 3 (contd.)
KEYBOARDS

KEYBOARD PARTIAL ASSEMBLY (CONTD.)

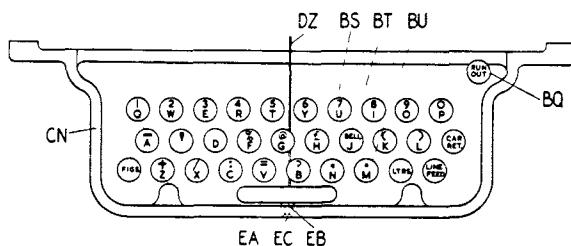
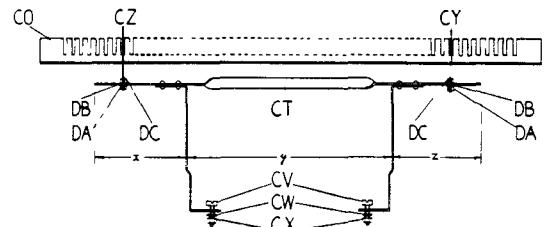
<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>								
<i>Lock Release Key Parts (For Commercial Typeewriter Keyboards only)</i>										
BA	1856/181	Lock Release Lever C.P.								
BB	CS.1041	Set collar and screw								
BC	1856/196	Lock release Keybutton C.P. comprises:-								
	1856/192	Keybutton sub C.P.								
	860/184	Keybutton cap								
	PL.1401	Keylabel (<i>state inscription</i>)								
	860/185	Keybutton glass								
	PW.5216	Paper packing washer								
	PS.2045-1	Std. 6BA Screw								
	PW.1013-1	Std. 6BA Washer } 2 of each per set for securing item BC to item BA.								
	PW.2037	Std. 6BA Spring washer }								
	1856/189	Stop plate } Stop for lock release lever C.P. item BA.								
	2000/280	Clamp plate }								
	PS.2061-1	Std. 6BA Screw } 2 of each per set for securing stop plate								
	PW.2037	Std. 6BA spring washer } and clamp plate to stop bracket								
	1856/193	Stop bracket								
BD	PS.2045-1	Std. 6BA Screw } 2 of each per set for								
BE	PW.1013-1	Std. 6BA Washer } securing stop bracket								
BF	PW.2037	Std. 6BA spring washer } to item AV.								
BG	1856/187	Lock release lever extension								
BH	PS.2045-1	Std. 6BA Screw } 2 of each per set for								
	PW.1013-1	Std. 6BA washer } securing stop bracket								
BJ	PW.2037	Std. 6BA spring washer } to item AV.								
BK	1856/184	Pawl C.P.								
BL	PG.7034	Tension spring (for item BK)								
<i>Keybars, Keep Plate and Keybar Pivot</i>										
BM	1855/127B	Keybar Keep Plate C.P.								
	PS.1676-1	Std. 4BA Screw } 2 of each per set for								
	PW.2025	Std. 4BA Spring Washer } securing item BM								
BN	1855/83A	Keybar pivot								
	BO.3228	Anderdon Clip (2 per set) for retaining item BN								
	1855/352A	Support bar								
	PS.2061-1	Std. 6BA Screw } 2 of each per set								
	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								
	PW.2037	Std. 6BA spring washer } securing pivot support bar.								
BO	PG.7066	Tension spring (for keybars) 54 per set								
BP	PG.7077	Tension spring (for space keybars) 3 per set.								
<i>Keybar C.P. (See Note 1)</i>										
<i>Index Letter Keybar C.P. (See Note 1)</i>										
<i>Index Letter Keybar C.P. Index Letter Keylabel Index Letter Keybutton Index Letter Keybutton 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	1855/37	CC	1855/28B	CG	PL.1401	CH	860/185	CJ	860/184
BT	3rd row	See 1855/38	CD	1855/29B	CG	PL.1401	CH	860/185	CJ	860/184
BU	4th row	Note 1855/39	CE	1855/30B	CG	PL.1401	CH	860/185	CJ	860/184
BV	3rd row (Special Car. Ret. only for 'N' Keyboards)	2 2246/9	CF	2246/7	CG	PL.1401	CH	860/185	CJ	860/184
BW	3rd row (Large Head)	1855/106	not shown	1855/105B	not shown	PL.1403	not shown	1855/97	not shown	1855/96
BX	4th row (Large Head)	1855/108	not shown	1855/107B	not shown	PL.1403	not shown	1855/97	not shown	1855/96
BY	4th row (Large Head) SHIFT (R.H.)	1855/112	shown	1855/111B	shown	PL.1403	shown	1855/97	shown	1855/96
BZ	4th row (Large Head) SHIFT (L.H.)	1855/114		1855/113B		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.

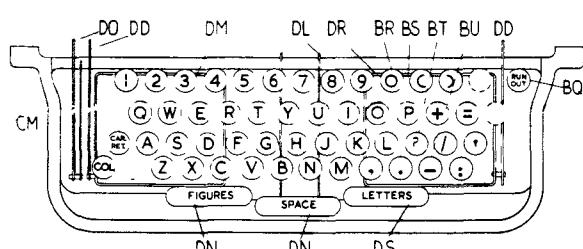
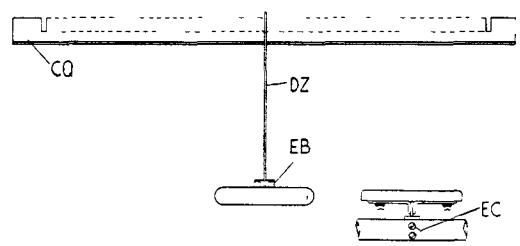
NOTE 2: 2nd, 3rd and 4th row keys BS, BT, BU and BV are used in the top, middle and bottom rows respectively of 3-row keyboards.



GRP. 2



GRP. 1



GRP. 3

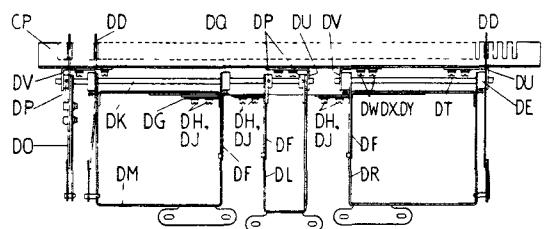


Fig. 15 KEYBOARD MASKS AND SPACE BAR ARRANGEMENTS (ALL MODELS)

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	2088/41Gr.1	1	—	—	Keyboard stop plate C.P.
CP	2088/41Gr.4	—	—	1	or Keyboard stop plate C.P.
CQ	2088/41Gr.2	—	1	—	or Keyboard stop plate C.P.
CR	PS.5264A	2	2	2	Special screw } for securing keybar stop
CS	PW.1009-1	2	2	2	Std. 4BA washer } plate.
CU	1855/49Gr.1	1	—	—	Space bar C.P. comprises:-
CT	1855/47	1	—	—	Space keybar connection CP.ARRGMENT.A.
	1855/48	1	—	—	Space bar
CV	PS.2109-1	2	—	—	Std. 6BA screw } 2 of each per set for
CW	PW.1013-1	2	—	—	Std. 6BA washer } securing space bar to
CX	PN.1013-1	2	—	—	Std. 6BA Nut item CT.
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 } 2 of each per set for
DB	PW.2037	2	—	—	Std. 6BA spring washer } securing item CU to
DC	PN.1013-1	2	—	—	Std. 6BA nut } items CY and CZ.
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 } for securing
DJ	PW.2025	—	—	6	Std. 4BA spring washer } item DG.
	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. } includes:-
DM	1855/227	—	—	1	Figure shift frame C.P. }
DN	1855/212	—	—	2	Pad C.P.
	PS.2045-1	—	—	2	Std. 6BA screw } for securing
	PW.2037	—	—	2	Std. 6BA spring washer } item DN.
	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 } for securing
	PW.2037	—	—	2	Std. 6BA spring washer } item DS.
	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 } for securing
DX	PW.1013-1	—	—	8	Std. 6BA washer } items DU and DV.
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 } for securing item EA.
	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 } for securing item EB.
	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)

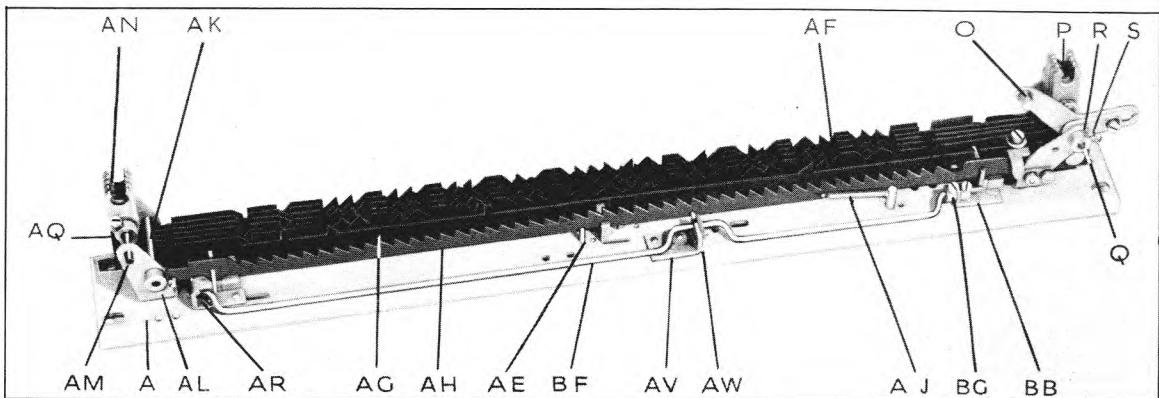


Fig 17

COMBINATION
BAR UNIT
COMPONENTS

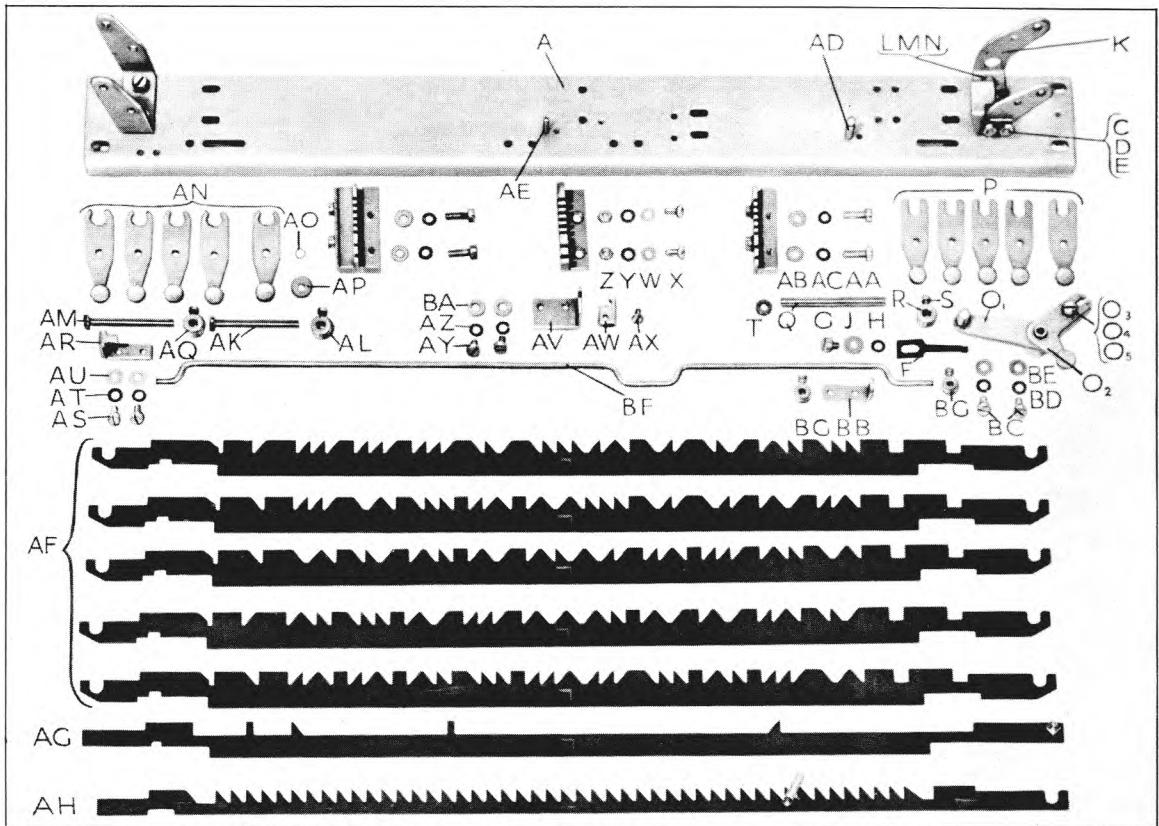
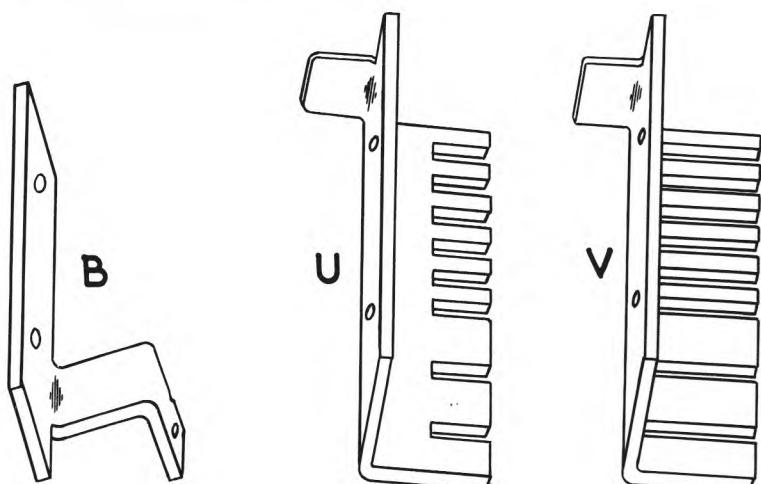


Fig. 18



COMBINATION BAR UNIT S.3707C

(See Figs. 16, 17 and 18)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	S.3768A	Combination Bar Bed C.P. <i>comprises:-</i>
	3707/1A	Combination Bar Support Plate
B	2255/57	Bias spring bracket (<i>New part replacing Bias Spring Bracket illustrated in 2nd Edition</i>). See Fig. 18.
C	PS.2057-1	Std. 6BA screw } 2 of each per set for
D	PW.2037	Std. 6BA spring washer } securing item B.
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 } for securing item F.
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 } 2 of each per set for securing item K.
N	PW.2037	Std. 6BA Spring Washer }
O	2091/27B	Trip Lever C.P. <i>comprises:-</i>
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 } For securing item O2 to item O1.
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 (<i>centre</i>)
V	2255/55	Rack bracket (<i>R.H.</i>)
W	PS.2079-1	Std. 6BA screw }
X	PW.1013-1	Std. 6BA washer } 2 of each per set for securing item U.
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 } 2 of each per set for securing item V.
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 } For securing item AD.
	PN.1013-1	Std. 6BA Nut } Not visible.
AE	PS.7047	Special screw }
	PW.1017-1	Std. 8BA washer }
	PW.2050	Std. 8BA spring washer } Support for Trip Bar.
	PN.1517-1	Std. 8BA locknut }
AF	Part Nos. vary according to Keyboard Chart	Combination Bar C.P. (Nos. 1-5)
AG		Locking Bar C.P.
AH		Trip Bar C.P.
AJ	PG.7362	Tension spring (<i>for item AH</i>)
AK	2091/13	Punch Block Lever Pin (<i>for retaining comb. bars</i>)
AL	CS.1022	Set collar and screw
AM	2091/13	Punch Block Lever Pin (<i>pivot for Operating Levers</i>)
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 (<i>for retaining item AM</i>)
AR	2255/6	Trip rod stop bracket
AS	PS.2057-1	Std. 6BA screw }
AT	PW.2037	Std. 6BA spring washer } 2 of each per set for securing item AR.
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 (<i>for securing item AW to item AV</i>)
AY	PS.2057-1	Std. 6BA screw }
AZ	PW.2037	Std. 6BA spring washer } 2 of each per set for securing item AV.
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 } 2 of each per set for securing item BB.
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.

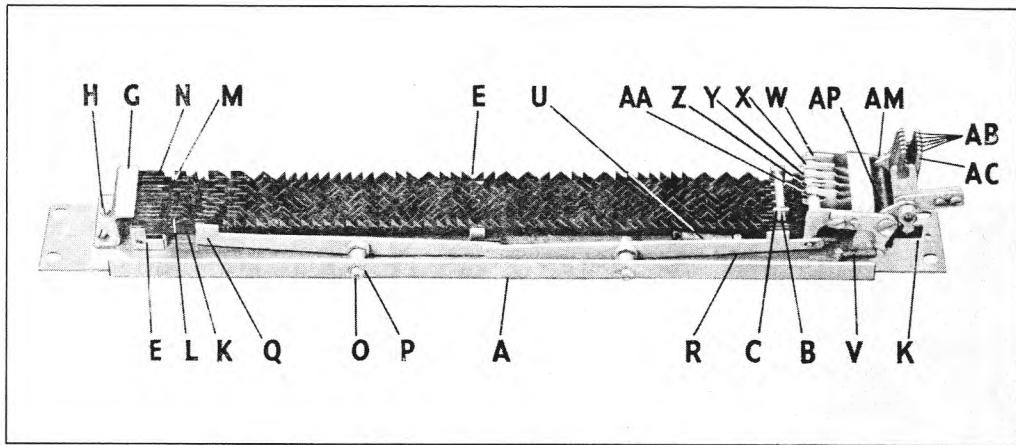


Fig. 19 COMBINATION UNIT, 12 BAR, S1939
(For C.T. Keyboards with 'Shift Lock')

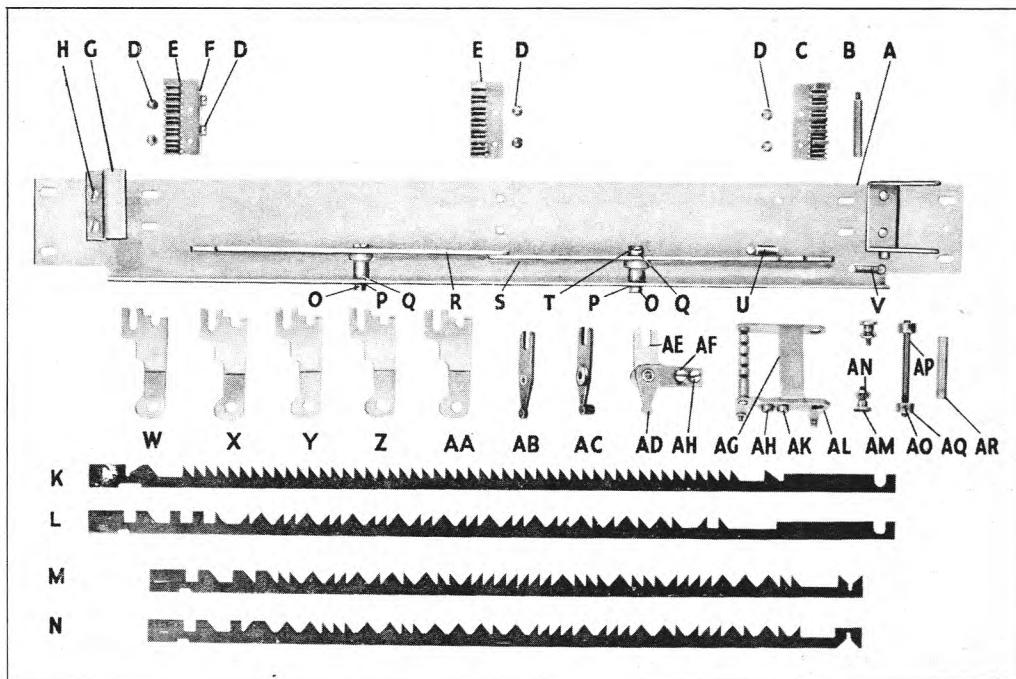


Fig. 20 COMBINATION UNIT, 12 BAR, COMPONENTS

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 } (6 per set) for securing
	PW.1013-1	Std. 6BA washer } items C and E.
	PW.2038	Std. 6BA spring washer }
E	1939/63	Combination bar rack (L.H.) (2 per set)
	RL.1099	Roller (9 per set)
	RL.1098	Roller (30 per set) } For items C and E.
	PP.6682	Parallel pin (3 per set)
F	1939/65	Stop plate
	PW.2037	Std. 6BA spring washer } 2 of each per set for securing item F.
D	PS.2077-1	Std. 6BA screw }
G	1939/55	Keep Plate
H	PS.2075-1	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
K	1939/56	Trip bar C.P.
	1939/54	Combination bar set, comprises:- }
L	1939/51	Case bar "F" } State chart number
M	1939/53	Combination bar "E" (5 per set) } or marking stamped
N	1939/52	Combination bar "D" (5 per set) } on comb. bars when ordering.
O	PN.1013-1	Std. 6BA nut } 2 of each per set
P	PW.1013-1	Std. 6BA washer } 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 } 2 of each per set for securing
AN	PW.5042	Special washer } 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

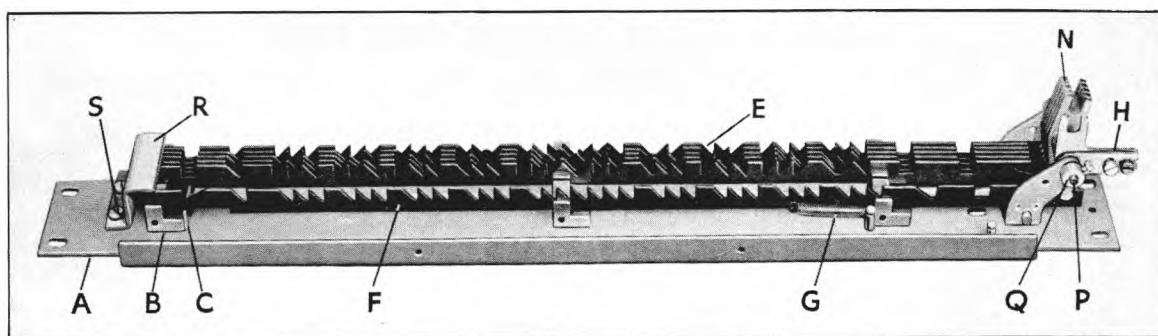


Fig. 21 COMBINATION UNIT 6, 7 or 8 BAR S1949

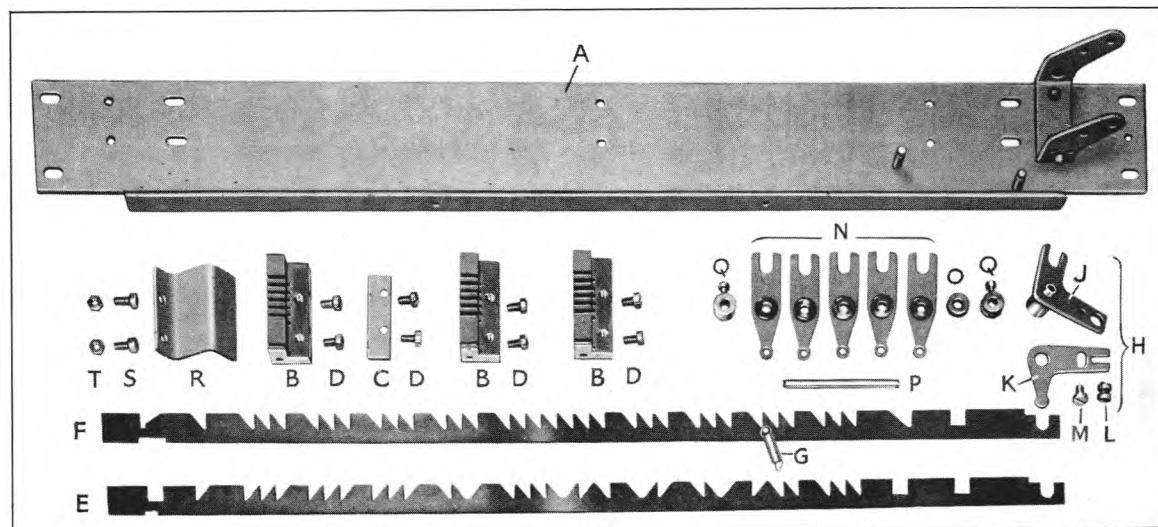


Fig. 22 COMBINATION UNIT 6, 7 or 8 BAR COMPONENTS

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 PP.1109 RL.1048 2255/55 2255/31A 2255/56 PS.2057-1 PW.2037 PW.1013-1 PS.2079-1 PW.2037 PW.1013-1 PN.1513-1	Combination bar rack C.P. (3 per set) includes:- Parallel Pin Roller (7 per rack) Rack bracket (R.H.) Rack bracket (middle) Rack bracket (L.H.) Std. 6BA screw Std. 6BA spring washer Std. 6BA washer Std. 6BA screw Std. 6BA spring washer Std. 6BA washer Std. 6BA locknut
C	1939/11 PS.2093-1 PW.2037 PW.1013-1 PS.2093-1 PW.2037	Stop plate Std. 6BA screw Std. 6BA spring washer Std. 6BA washer Std. 6BA screw Std. 6BA spring washer
D		{ 4 of each per set for securing 2255/55 and 2255/56 { 2 of each per set for securing item B. { 2 of each per set for securing item C.

SECTION 3 (contd.)
KEYBOARDS

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

* 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.

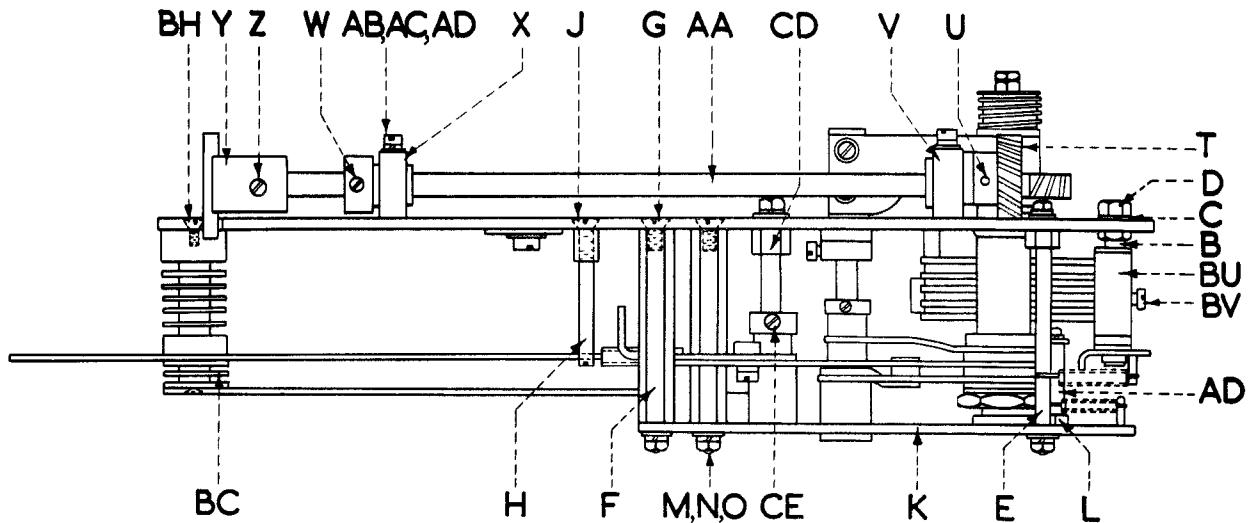


Fig. 23 PERFORATOR OPERATING UNIT S2303B
(For Types N3 or N4 Keyboards)

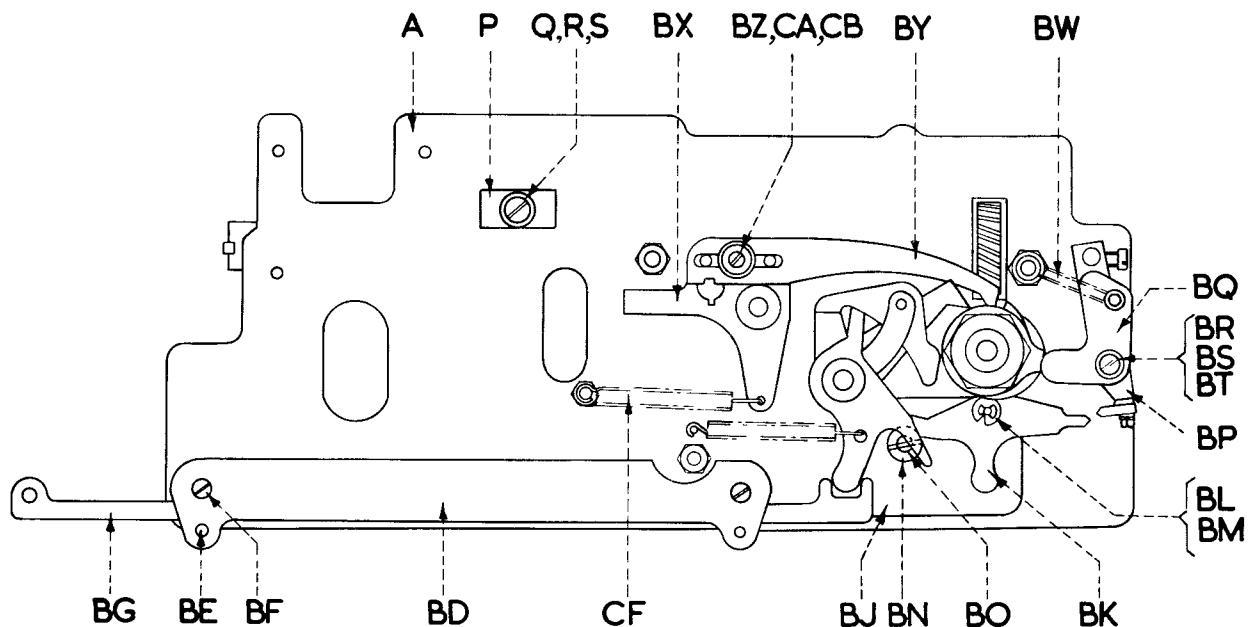


Fig. 24 PERFORATOR OPERATING UNIT (PARTIAL ASSEMBLY)
(For Types N3 or N4 Keyboard)

PERFORATOR OPERATING UNIT S.2303B

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

FOR TYPE N3 AND N4 KEYBOARD

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
---------------------	-----------------	------------------

Back plate, Front plate and Abutment

A	2887/4C 2887/5D PW.5480 PW.1533 3010/6	Back plate C.P. comprises:- Back plate sub C.P. Oil impregnated thrust washer } Oil impregnated bush } bearings for item AE. Oil impregnated bush (bearing for item AP)
B	PP.8756	Locking frame pivot
C	PW.2026	Std. 4BA spring washer }
D	PN.1509-1	Std. 4BA locknut } for securing item B.
E	PP.8869 PW.2026 PN.1509-1	Front plate support pin Std. 4BA spring washer } for securing item E. 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 2887/8A PB.3013 3013/6	Front plate C.P. includes:- Front plate sub C.P. Oil impregnated flanged bush (bearing for item AE) Oil impregnated bush (bearing for item AP)
L	PP.7682A PW.2026	Lubricator pivot Std. 4BA spring washer (for retaining item L)
M	PW.2037	Std. 6BA spring washer }
N	PW.1013-1	3 of each per set
O	PN.1513-1	Std. 6BA washer }
P	2254/54A	Std. 6BA locknut } for securing item K.
Q	PS.1676-1	Abutment plate (for counter unit S.2258 when fitted)
R	PW.2026	Std. 4BA screw }
S	PW.1009-1	Std. 4BA spring washer } for securing item P. Std. 4BA washer }

Operating Driving Shaft

T	2254/60A GR.2101A	Transmitter driving shaft C.P. comprises:- 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 2254/43 2254/53 PW.1013-1 PW.2037 PN.1013-1 PG.7219	Lubricator C.P. comprises:- Holder Oil Pad (felt) Std. 6BA washer } Std. 6BA spring washer } for securing item AO. Std. 6BA nut } Tension spring (not visible) for item AO.

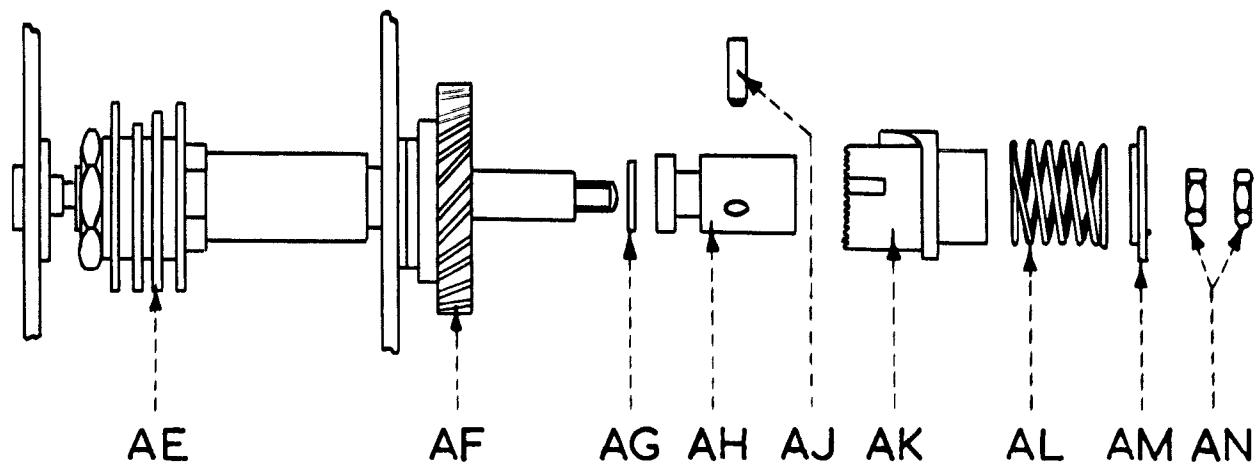


Fig. 25 CAMSHAFT ASSEMBLY (EXPLODED VIEW)

ASATAU AR AQ AP BB

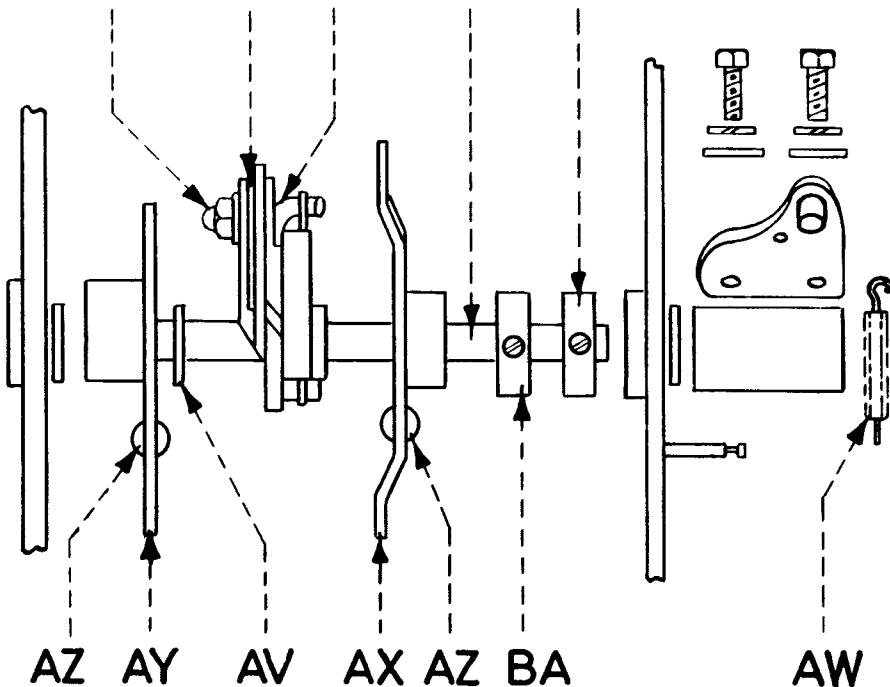


Fig. 26 DETENT CONTROL SHAFT (EXPLODED VIEW)

PERFORATOR OPERATING UNIT S.2303B (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
---------------------	-----------------	------------------

Operating Cam, Clutch, Detent and Transfer Link (contd.)

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 } For securing item AQ.
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 } for positioning item AP.
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.

Operating Levers, Retaining Lever and Locking Frame

	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 } for securing item BQ.
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 } for securing item BX to item BY.
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 } for securing item CD.
	PN.1509-1	Std. 4BA nut
CE	CS.1046	Set collar and screw
CF	PG.7212	Tension spring (for item BX)

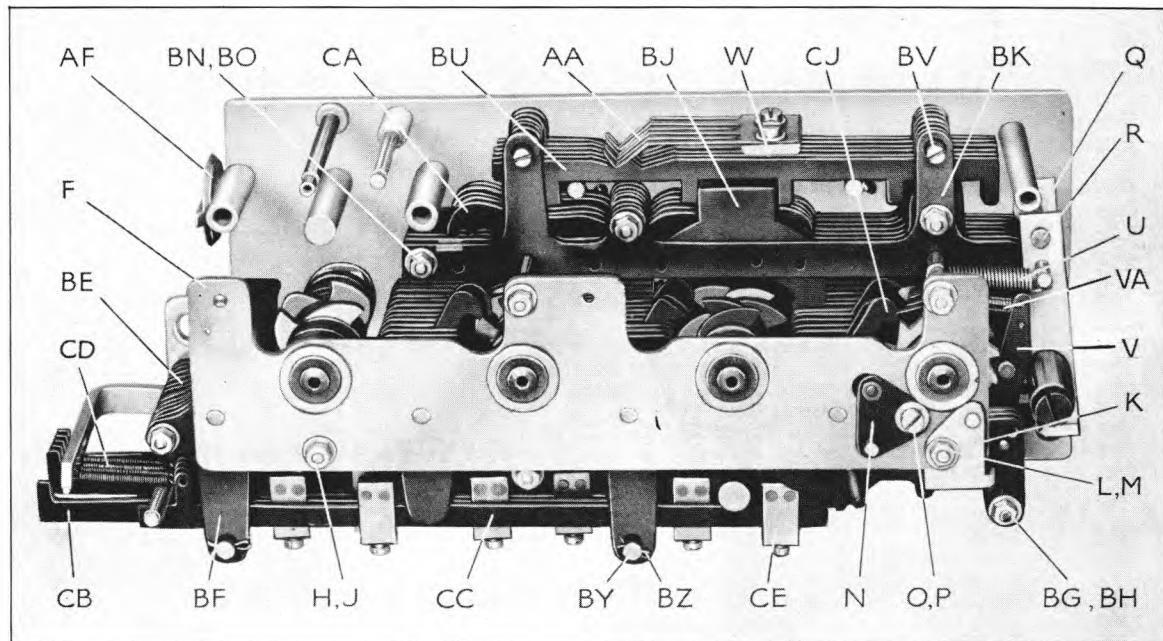


Fig. 27 TRANSFER UNIT S1942 (*For C.T. Keyboards*)

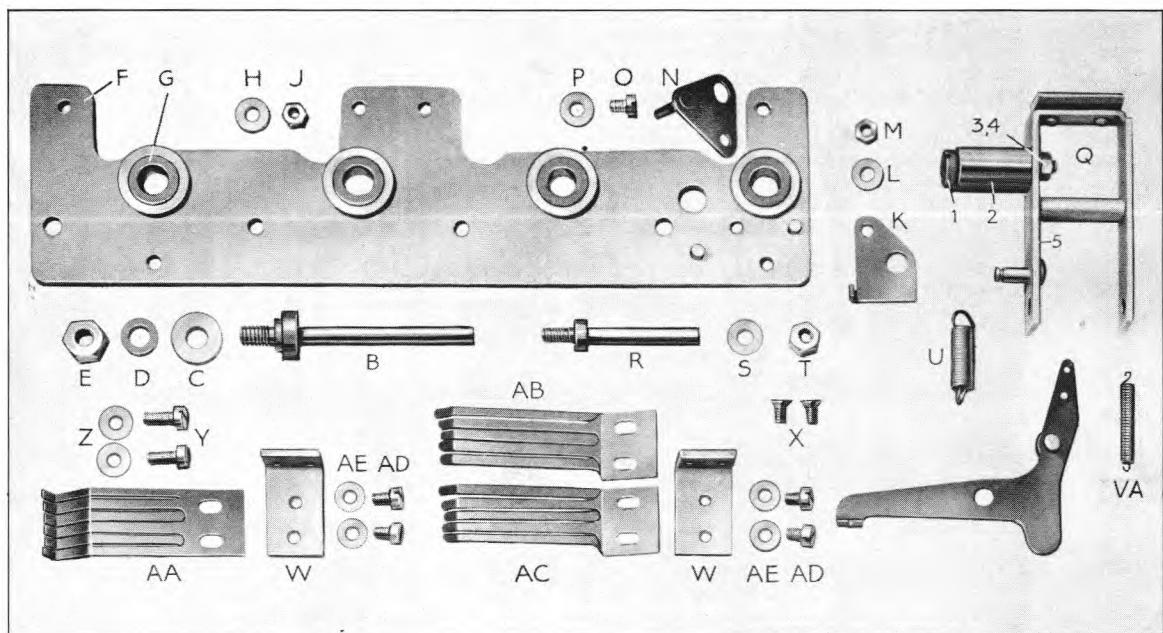


Fig. 28 TRANSFER UNIT COMPONENTS (*For C.T. Keyboards*)

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>
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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 } Not visible
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 } 3 of each per set
J	PN.1013-1	Std. 6BA Nut } for securing Item F.
K	1856/194A	Abutment Bracket
L	PW.1013-1	Std. 6BA Washer } for securing Item K.
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 } for securing Item N.

LOCKING FRAME AND TRIP LOCK LEVER

Q	1856/175A	Locking Frame C.P. comprises:-
Q1	EC.1511	Eccentric Screw
Q2	RL.1060	Roller
Q3	PW.1013-1	Std. 6BA Washer }
Q4	PN.1013-1	Std. 6BA Nut } for securing Item Q1.
Q5	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 } for securing Item R.
U	PG.7003	Tension Spring (for Item Q)

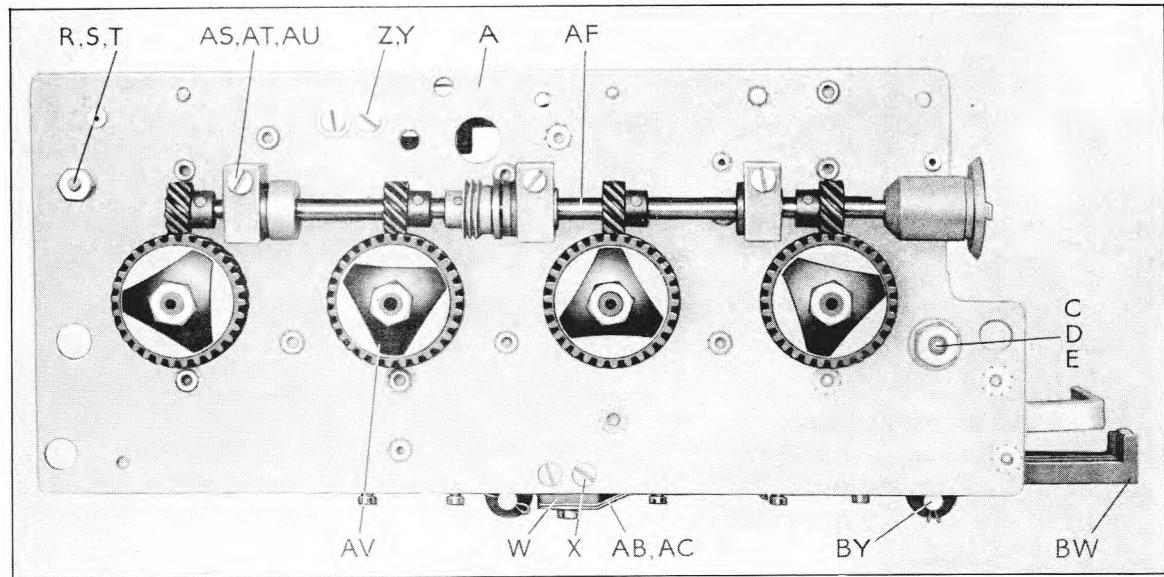


Fig. 29 TRANSFER UNIT (REAR VIEW)
(For C.T. Keyboards)

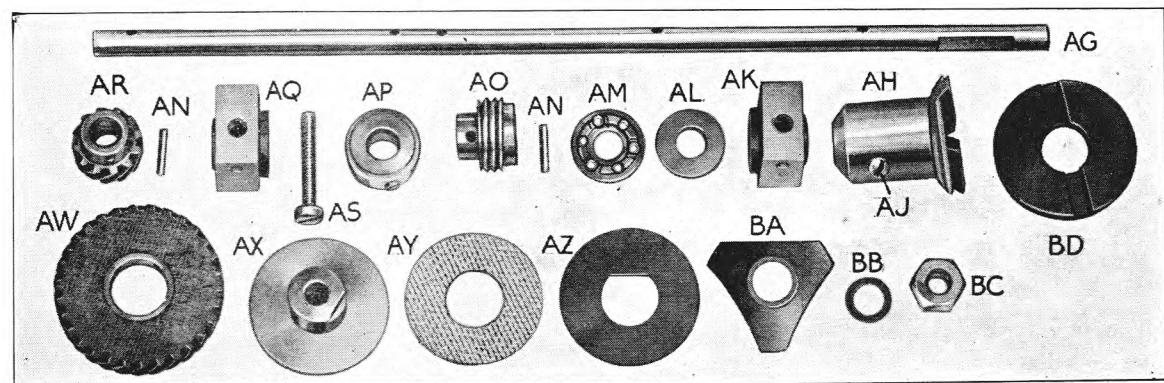


Fig. 30 TRANSFER UNIT COMPONENTS
(For C.T. Keyboards)

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	<i>or</i> 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 }
AE	PW.1013-1	<i>4 of each per set</i> 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>)

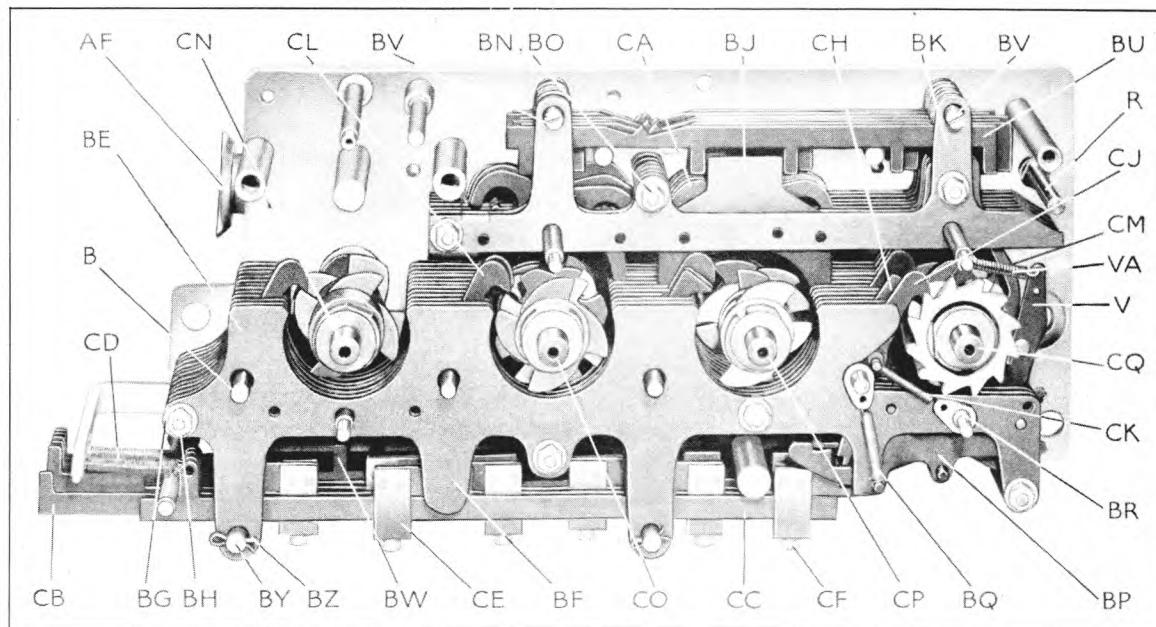


Fig. 31 TRANSFER UNIT PARTIAL ASSEMBLY (For C.T. Keyboards)

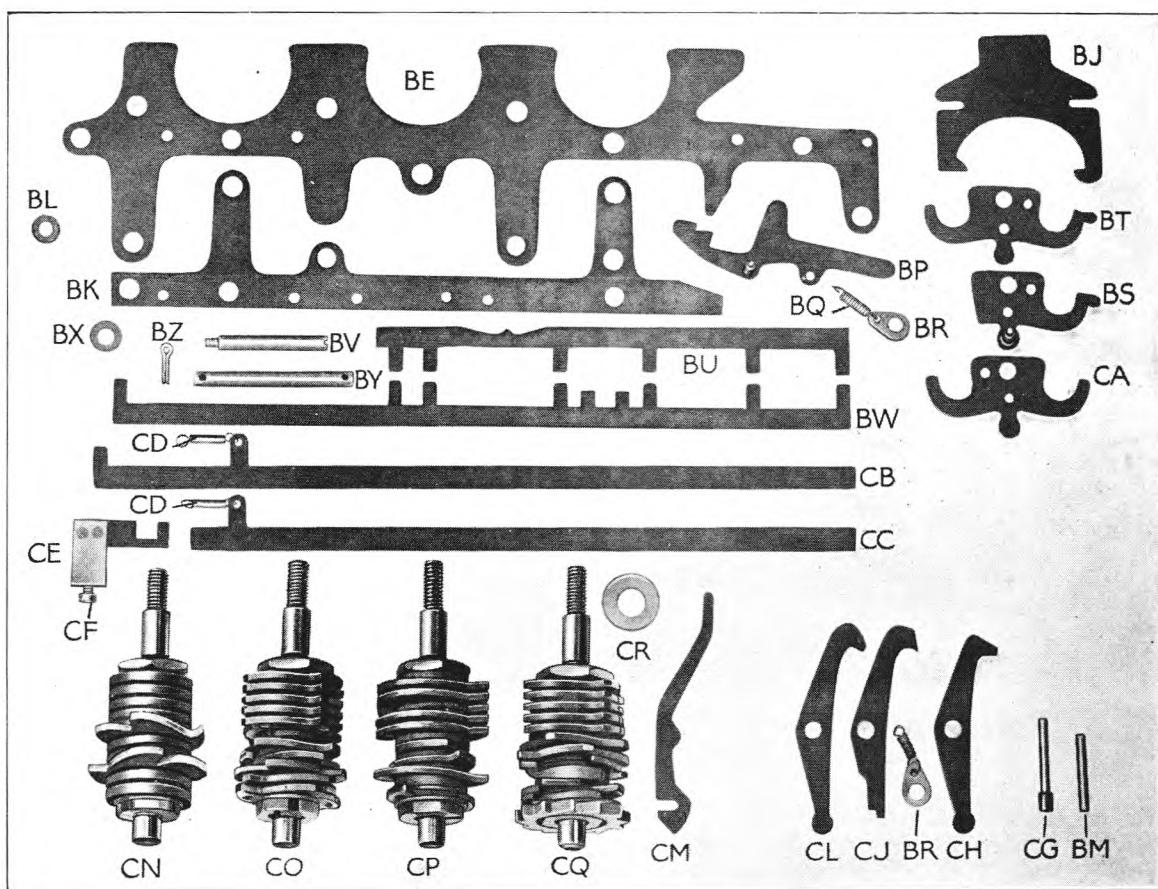


Fig. 32 TRANSFER UNIT COMPONENTS (For C.T. Keyboards)

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
BF	1856/50A	Spacing Plate with Pin C.P. (A), Plate No. 12
BG	PN.1013-1	Std. 6BA Nut } 4 of each per set
BH	PW.1013-1	Std. 6BA Washer } for securing spacing plates.
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 }
BO	PW.1013-1	Std. 6BA Washer } 3 of each per set - retains Item BK.
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), includes:-
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.

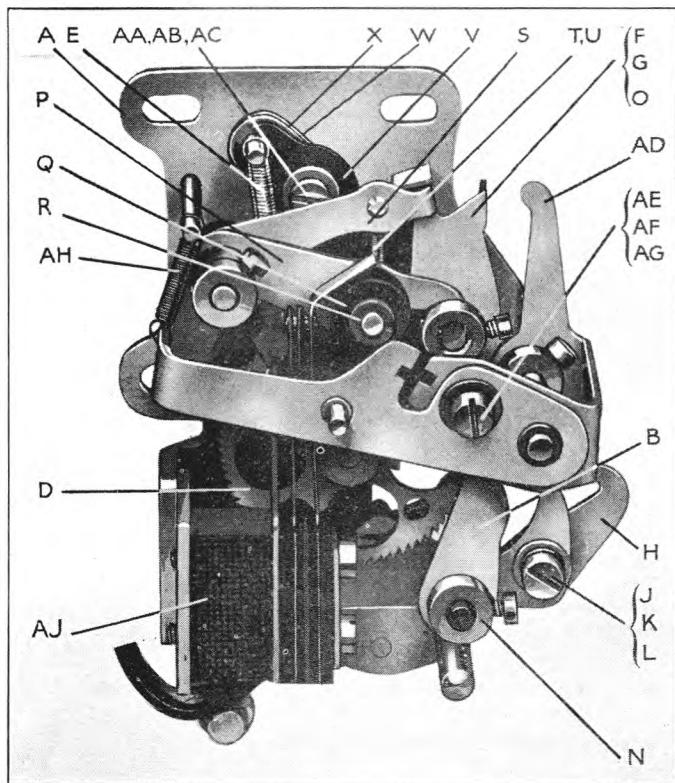


Fig. 33 COUNTER UNIT S2258
(GRP 4)
(FRONT VIEW) For Types N3 or N4 Keyboards

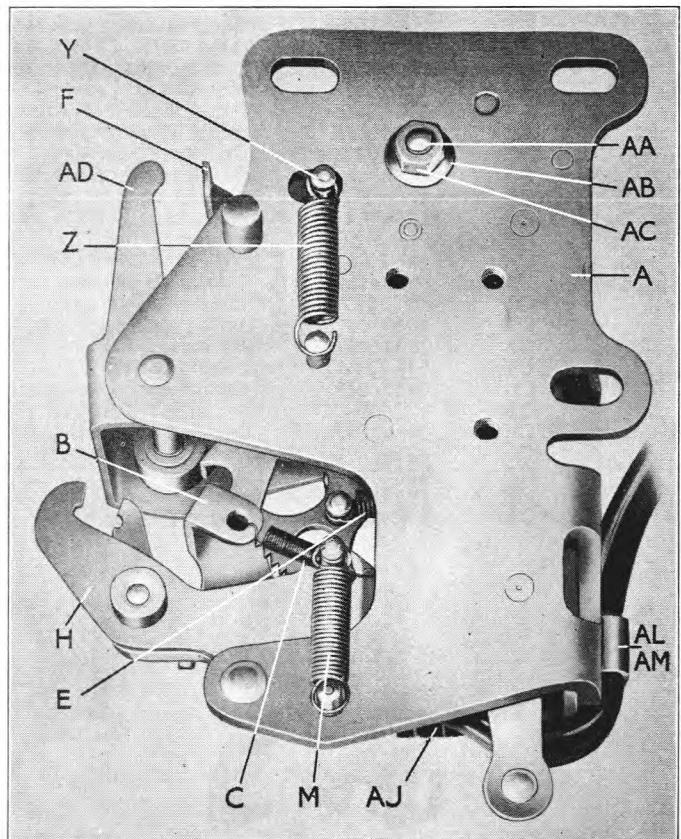


Fig. 34 COUNTER UNIT S2258 (GRP 4)
(REAR VIEW) For Types N3 or N4 Keyboards

SECTION 3 (*contd.*)
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 <i>(for item B)</i>
D	2084/68	Ratchet wheel C.P.
E	PG.7198	Tension spring <i>(return spring for item D)</i>
F	2084/75A	Retention pawl C.P.
G	PG.7070	Tension spring <i>(for item F, not visible)</i>
H	2258/3	Feed lever C.P. <i>includes:-</i>
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 <i>(for item H)</i>
N	CS.1026	Set collar and screw <i>(for securing items B, D, F, H, P and S) 6 per set.</i>
O	PB.1024	Spacing collar <i>(between item F and item N)</i>
P	2085/28	Contact operating lever C.P.
Q	2085/8	Contact roller
R	23955A	Locking ring <i>(retains item Q)</i>
S	2085/74	Ratchet wheel stop plate C.P.
T	PG.7197	Tension spring <i>(for item S)</i>
U	PW.5143	Special washer
V	PG.3074	Semi-elliptic spring
W	2084/124	Clamp plate
X	2084/125	Friction piece <i>(canvas) 2 per set</i>
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 } <i>for securing resetting lever</i>
	PW.2050	Std. 8BA spring washer } <i>pivot (not visible)</i>
	PN.1017-1	Std. 8BA nut
AD	2258/6A	Resetting lever C.P. <i>includes:-</i>
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 <i>(for retaining item AD)</i>
AH	PG.7173	Tension spring <i>(for item AD)</i>
AJ	2258/29A	Contact Bank C.P.
AK	PS.2043-1	Std. 6BA screw <i>(2 per set) for securing item AJ to item A.</i>
	2305/3 Gr.1	Twin plug C.P.
AL	2085/45	Wire clip

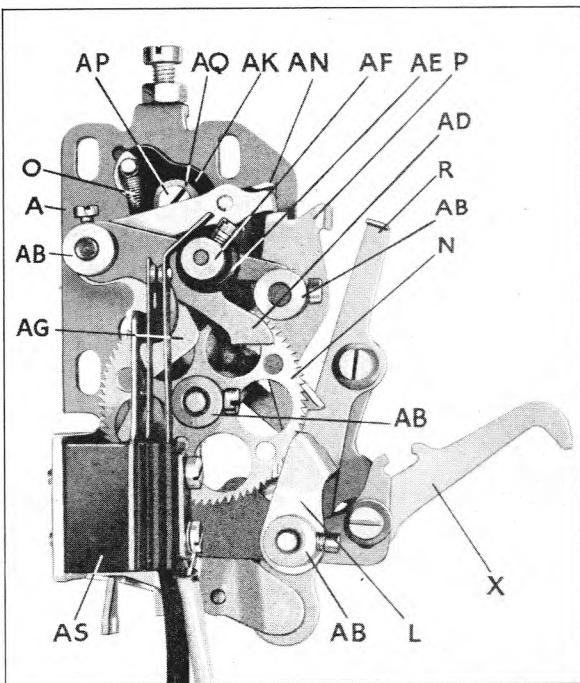


Fig. 35 COUNTER UNIT
2085/62 GRP2 (FRONT VIEW)

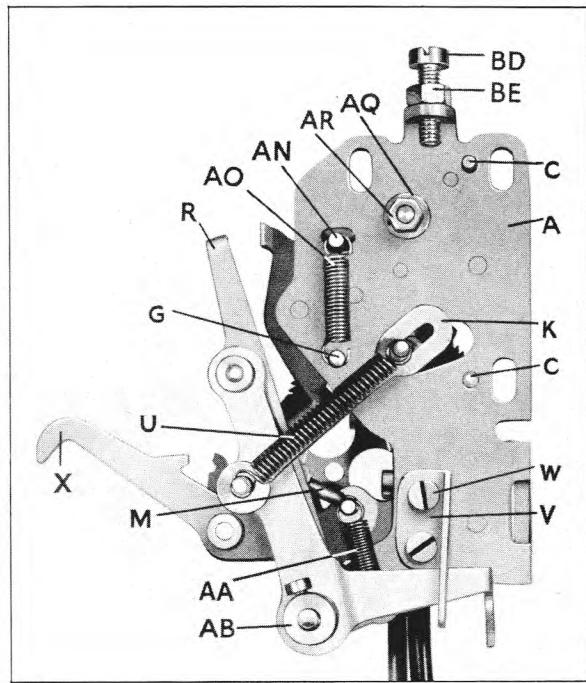


Fig. 36 COUNTER UNIT
2085/62 GRP2 (REAR VIEW)

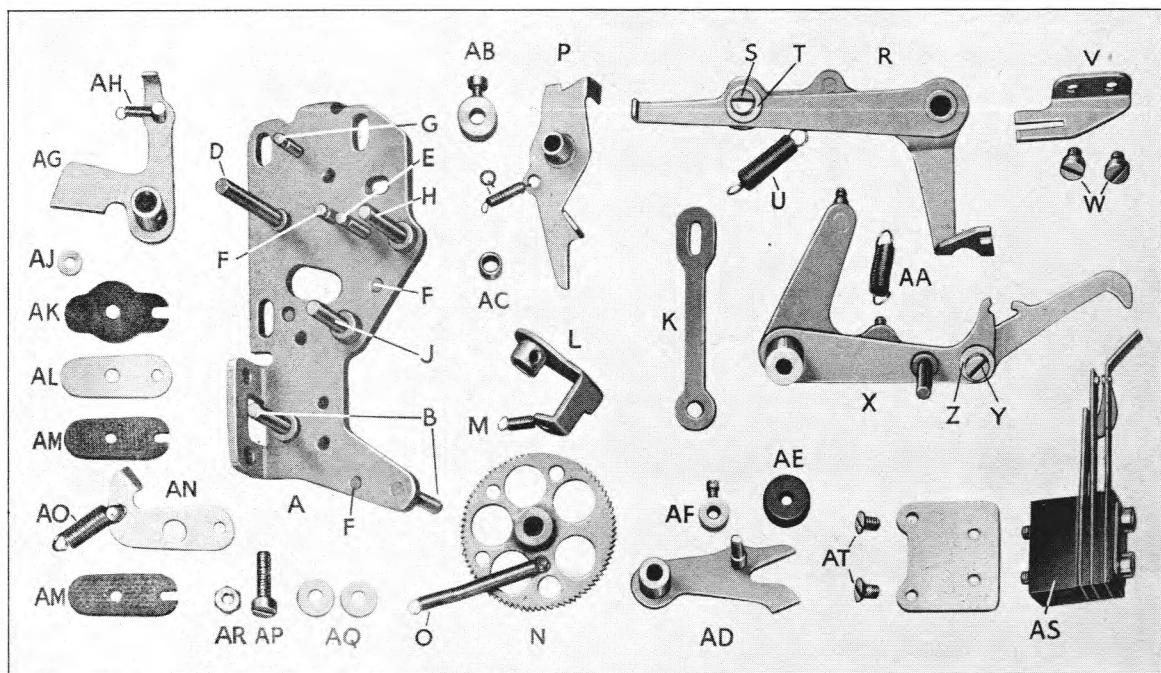


Fig. 37 COUNTER UNIT COMPONENTS (*For C.T. Keyboards*)

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.

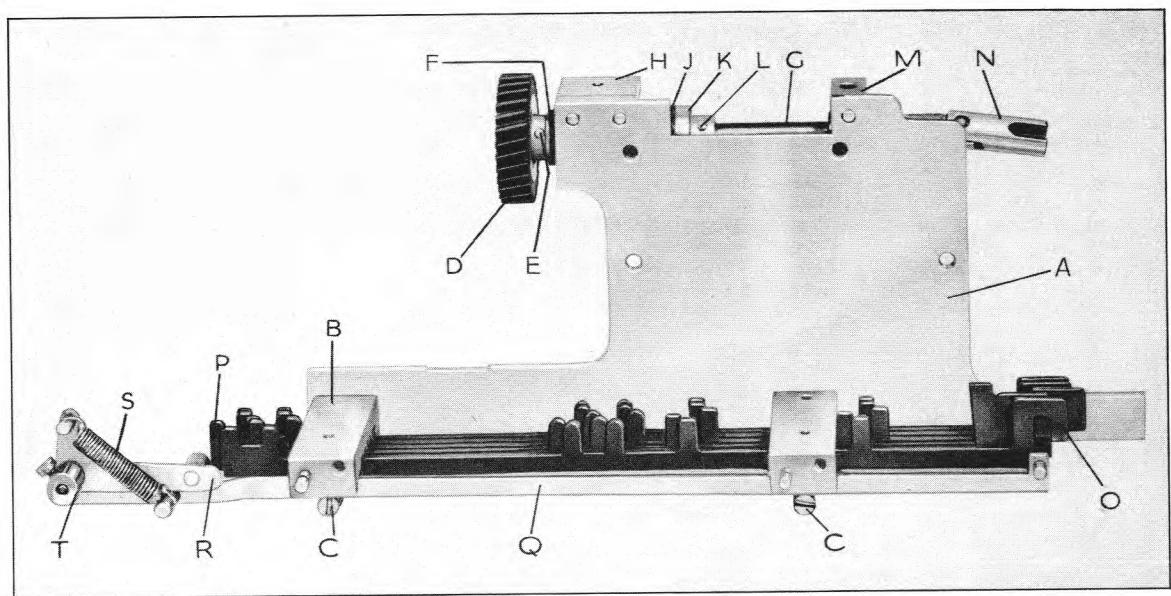


Fig. 38 LINK UNIT S1976

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 } 3 of each per set for
	PW.1013-1	Std. 6BA Washer } securing Driving Shaft C.P.
	PW.2037	Std. 6BA Spring Washer } 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**

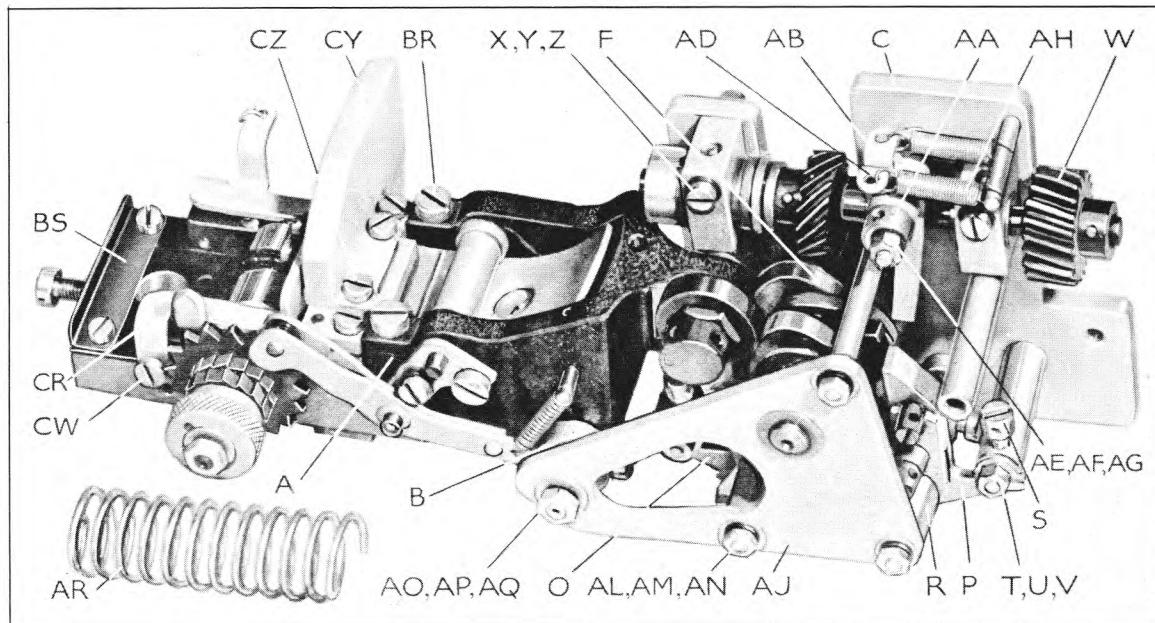


Fig. 39 PUNCH BLOCK UNIT 1947/10B

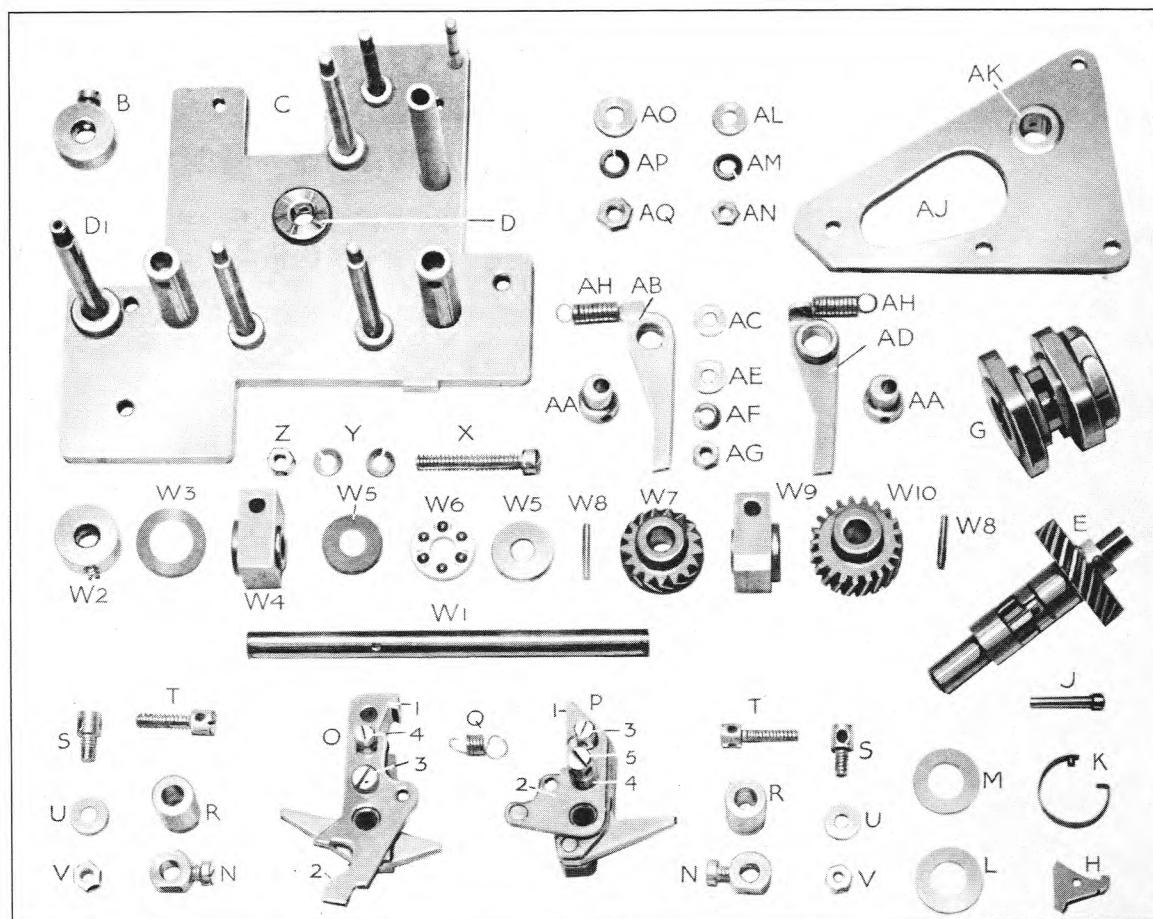


Fig. 40 PUNCH BLOCK UNIT COMPONENTS

SECTION 4 (*contd.*)
PERFORATING UNIT

PUNCH BLOCK UNIT 1947/10B { GROUP 1 for Centre feed hole
GROUP 2 for Advance feed hole

(See Figs. 39 and 40)

ALL MODELS

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	<i>See page 57</i>
A	1947/70C	PUNCH BLOCK HEAD AND FULCRUM C.P.	
B	CS.1064	Set Collar and Screw (<i>for securing Item A to Item C</i>)	

Back Plate and Cam Mechanism

C	1947/12B	Back Plate C.P., <i>includes:-</i>	
D	PB.1241	Shouldered Bush	
D ₁	PP.8612	Flanged Pin	
E	1947/51B	Camshaft C.P.	
F	1947/52	Cam C.P., <i>comprises:-</i>	
G	1947/53	Cam	
H	860/115F	Pawl	
J	PP.7609	Shouldered Pin	
K	PG.3057	Pawl Spring	
L	PW.5199	Shim (<i>6 per set</i>) } <i>for positioning</i>	
M	PW.5226	Shim (<i>5 per set</i>) } <i>Item F.</i>	
	PF.1023	Felt Plug (<i>for camshaft front bearing</i>)	
	PF.1052	Felt Plug (<i>for camshaft rear bearing</i>) } <i>Not Visible.</i>	

Detent Mechanism

N	CS.1029	Set Collar and Screw (<i>2 per set</i>)	
O	1947/19A	Detent (L.H.) C.P., <i>comprises:-</i>	
O ₁	1947/20A	Detent Sub C.P.	
O ₂	1947/25A	Trip Lever	
O ₃	PS.5721A	Special Screw	
	PW.1013-1	Std. 6BA Washer } <i>for securing Item O₂.</i>	
	PW.2037	Std. 6BA Spring Washer }	
O ₄	EC.1551	Eccentric (<i>for adjusting Item O₂</i>)	
P	1947/17A	Detent (R.H.) C.P., <i>comprises:-</i>	
P ₁	1947/18A	Detent Sub C.P.	
P ₂	1947/28A	Trip Adjusting Arm	
P ₃	EC.1551	Eccentric (<i>for adjusting Item P₂</i>)	
	PS.5721A	Special Screw	
	PW.1013-1	Std. 6BA Washer } <i>for securing Item P₂.</i>	
	PW.2037	Std. 6BA Spring Washer }	
P ₄	PB.1030	Collar } <i>No longer required.</i>	
P ₅	PS.5710	Clamp Screw }	
Q	PG.7345	Tension Spring (<i>for Items O and P</i>)	
R	PB.4260	Spacing Bush (<i>2 per set</i>)	
S	PS.5716	Special Screw }	
	PP.6534	Copper Plug } <i>2 of each per set for adjusting</i>	
	PS.2061-1	Std. 6BA Screw } <i>Items O and P.</i>	
T	PS.5718	Special Screw }	
U	PW.1013-1	Std. 6BA Washer } <i>No longer used.</i>	
V	PN.1013-1	Std. 6BA Nut }	

Intermediate Shaft

W	1947/44 Gp.1	Intermediate Shaft C.P., <i>comprises:-</i>	
W ₁	1947/45A	Intermediate Shaft	
W ₂	CS.1067	Set Collar and Screw	
W ₃	PW.5241	Thrust Washer	
W ₄	1856/111	Bearing Block (R.H.) C.P.	
W ₅	PW.5224	Thrust Washer (<i>2 per set</i>)	
W ₆	1856/113	Ballrace	
W ₇	GR.2043	Helical Gear (<i>17 teeth</i>)	
W ₈	23926A	Taper Pin (<i>2 per set</i>)	
W ₉	1856/109	Bearing Block (L.H.) C.P.	
W ₁₀	GR.2044A	Helical Gear (<i>21 teeth</i>)	
X	PS.2221-1	Std. 6BA Screw	
	PS.2253-1	Std. 6BA Screw }	
Y	PW.2037	Std. 6BA Spring Washer (<i>4 per set</i>) }	<i>For securing Item W.</i>
Z	PN.1013-1	Std. 6BA Nut (<i>2 per set</i>) }	

Retention Pawls

AA	EC.5033A	Eccentric (<i>2 per set</i>)	
AB	1947/64A	Retention Pawl C.P. (<i>rear</i>)	
AC	PW.5213	Special Washer (<i>no longer used</i>)	
AD	1947/61A	Retention Pawl C.P. (<i>front</i>)	
AE	PW.1013-1	Std. 6BA Washer	
AF	PW.2037	Std. 6BA Spring Washer	

SECTION 4 (contd.)
PERFORATING UNIT

PUNCH BLOCK UNIT 1947/10B (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
<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	PB.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

Punch Block Spring

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

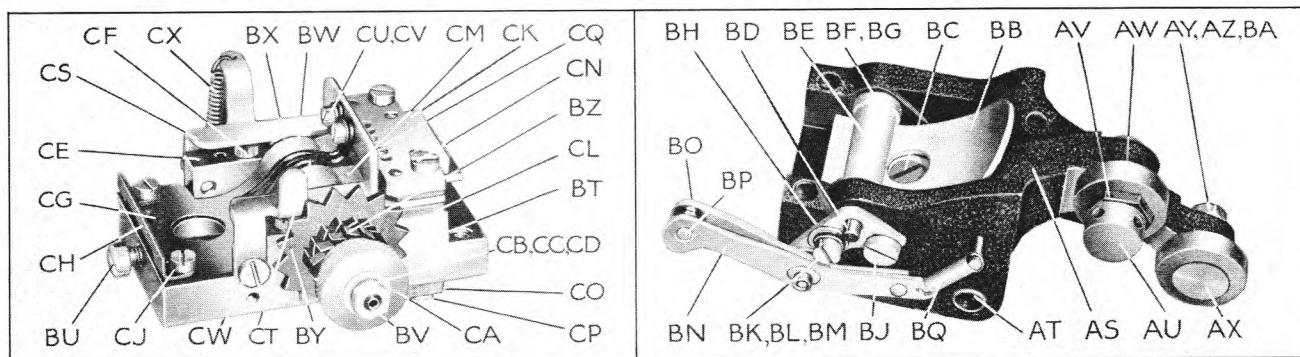


Fig 41 PUNCH BLOCK HEAD C.P.
1947/90A

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

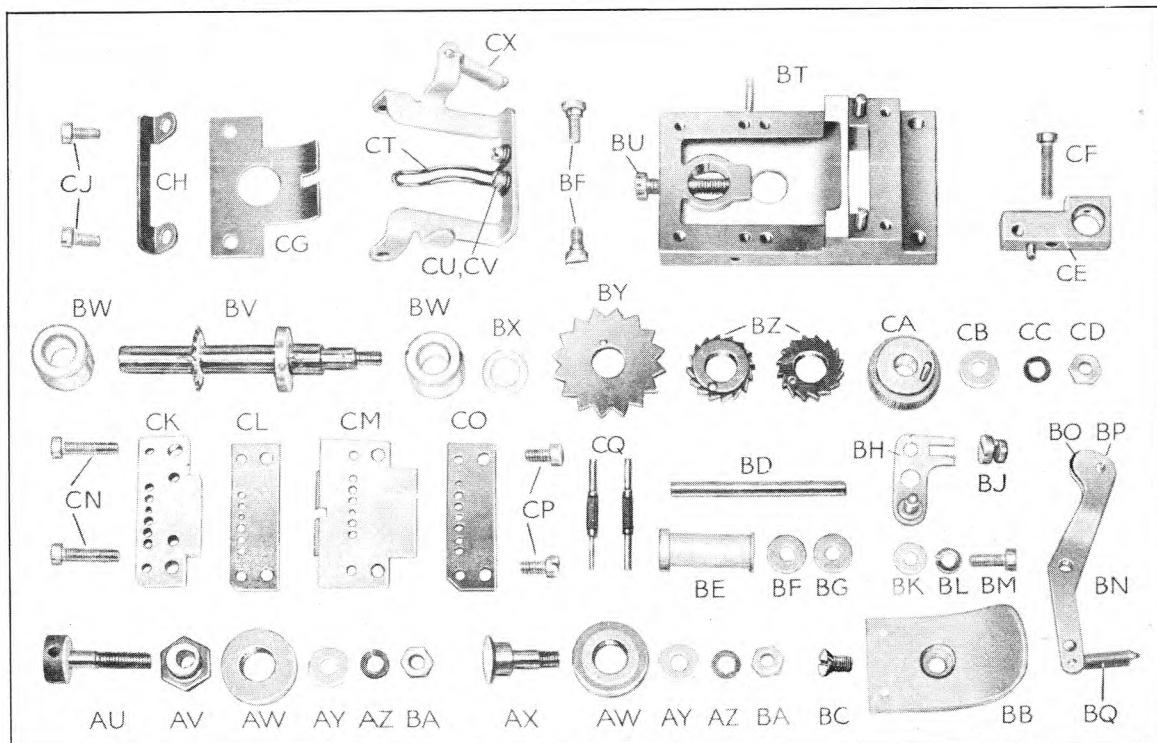


Fig. 43 PUNCH BLOCK HEAD C.P. AND PUNCH BLOCK FULCRUM C.P. COMPONENTS

SECTION 4 (*contd.*)
PERFORATING UNIT

**PUNCH BLOCK HEAD AND { GROUP 1 for Centre feed hole
FULCRUM C.P. 1947/70C { GROUP 2 for Advance feed hole**

(See Figs. 39 41, 42 and 43)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
<i>PUNCH BLOCK FULCRUM</i>		
AS	1947/72A Gr.1	Punch Block Fulcrum C.P., comprises machined and enamelled casting with pin driven in and the following replaceable parts:-
AT	CT.100	Oil impregnated Parallel Bush (2 per set)
AU	PS.7022	Special Screw
AV	EC.5063	Eccentric
AW	RL.1052A	Roller (2 per set)
AX	PP.7817	Special Shouldered Pin
AY	PW.1009-1	Std. 4BA Washer } 2 of each per set
AZ	PW.2026	Std. 4BA Spring Washer } for securing
BA	PN.1509-1	Std. 4BA Locknut Item AX.
BB	1947/260	Tape Entry Guide C.P.
BC	PS.1678-1	Std. 4BA Screw (for securing Item BB)
BD	PP.7884	Parallel Pin
BE	RL.1118	Flanged Roller
BF	PW.5507	Shim (.015" thick) 2 per set } for positioning
BG	PW.5508	Shim (.005" thick) 4 per set } Item BE.
BH	1947/79	Adjusting Arm C.P.
BJ	EC.5040	Eccentric (for Item BH)
BK	PW.1013-1	Std. 6BA Washer }
BL	PW.2038	Std. 6BA Spring Washer } for securing Item BH.
BM	PS.2077-1	Std. 6BA Screw }
BN	1947/76	Retention Lever C.P., includes:-
BO	RL.1049	Roller
BP	PP.8615	Flanged Pin (pivot for Item BO)
BQ	PG.7074	Tension Spring (for Item BN)
BR	PS.1793-15	Std. 4BA Screw (2 per set) for securing Item AS to Item BS.

PUNCH BLOCK HEAD

BS	1947/91D Gr.1 or Gr.2	Punch Block Head Sub C.P. (centre) Punch Block Head Sub C.P. (advance) } comprises:-
BT	1947/92D	Punch Block Head Casting C.P.
BU	PP.6117	Spring Anchor Screw
BV	1947/263A	Tape Feed Spindle C.P.
BW	RL.1051A	Roller (2 per set) }
BX	PW.5256	Shim (6 per set) for positioning Item BV } no longer used
BY	1947/269	Retention Wheel
BZ	PP.6809	Special Parallel Pin (for Ratchet Drive)
CA	1947/267A	Feed Ratchet (2 per set)
CB	PW.1009-1	Feed Wheel Knob
CC	PW.2026	Std. 4BA Washer } no longer
CD	PN.1509-1	Std. 4BA Spring Washer } used.
CE	1947/239B	Std. 4BA Locknut (for securing Items BY, BZ and CA)
CF	PS.2125-1	Bearing Block R.H. and L.H.
CG	1947/241	Std. 6BA Screw (4 per set) secures Item CE.
CH	1947/240	Stripper Plate
CJ	PS.2061-1	Tape Tear-Off Plate }
	1947/319A	Std. 6BA Screw (2 per set) for securing Item CH to Item CG. } Replaced by parts of later design. See below.
	PS.5636A	Stripper Spring }
	PG.2123	Pivot Screw (2 per set) }
	PS.2445-1	Lift Spring (for stripper spring) }
CK	1947/210C*	Std. 8BA Screw (secures lift spring) } (not illustrated)
CL	1947/211B*	Cover Plate }
CM	1947/273B*	Die Plate }
	1947/326 *	Tape Guide Plate }
		Special Die Plate (new part, not illustrated) } Centre Feed

Alternatively:

1947/108C*	Cover Plate	}
1947/109B*	Die Plate	
1947/276B*	Tape Guide Plate	
1947/329 *	Special Die Plate (new part, not illustrated)	

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)	
	1947/274	or Bottom Guide Plate (Advance Feed) } 4 per set	
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:-	
CS	1947/245	Tape Guide Frame	
CT	1947/244	Tape Guide	
CU	PW.2050	Std. 8BA Spring Washer } 2 of each per set for	
CV	PS.2430-1	Std. 8BA Screw } securing Item CT to Item CS	
CW	PS.5544A	Shouldered Screw (2 per set)	
CX	PG.7204	Tension Spring (for Item CR)	
	1947/317A	Tape Guide Frame C.P.	
	1947/323A	Tape Guide	
	PS.2477-1	Std. 8BA Screw } 2 of each per set for securing	
	PW.2050	Std. 8BA Spring Washer } Tape Guide to Tape Guide	
	PW.1017-1	Std. 8BA Washer Frame C.P.	
	PS.5640	Shouldered Screw } 2 per set	
	PS.5649	Special Washer	
	PG.7388A	Tension Spring (for Tape Guide Frame C.P.)	
	1947/321	Latch Support	
	PS.2061-1	Std. 6BA Screw (2 per set) for securing Latch Support.	
	1947/318	Tape Guide Frame Latch C.P.	
	PS.5637	Eccentric Screw (Pivot for Tape Guide Frame Latch C.P.)	
	PW.1013-1	Std. 6BA Washer	
	PW.2037	Std. 6BA Spring Washer	
	PN.1013-1	Std. 6BA Nut	
	PG.7078	Tension Spring (for Tape Guide Frame Latch C.P.)	
	3785/22A	Cuttings Chute C.P. (for Model 7P) not illustrated.	
	1947/123A	or Cuttings Chute C.P. (for Model 67P) as illustrated.	
CY	PS.2042-1	Std. 6BA Screw (2 per set) for securing Cuttings Chute.	
CZ			

* 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)

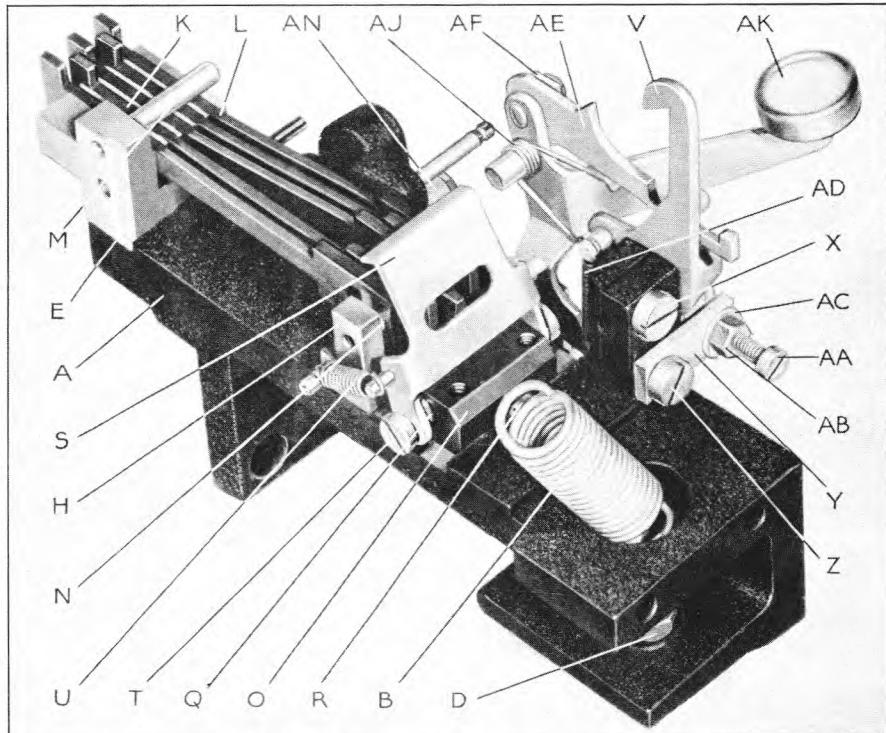


Fig. 44 ANVIL BRACKET C.P. 1947/130C

SECTION 4 (contd.)
PERFORATING UNIT

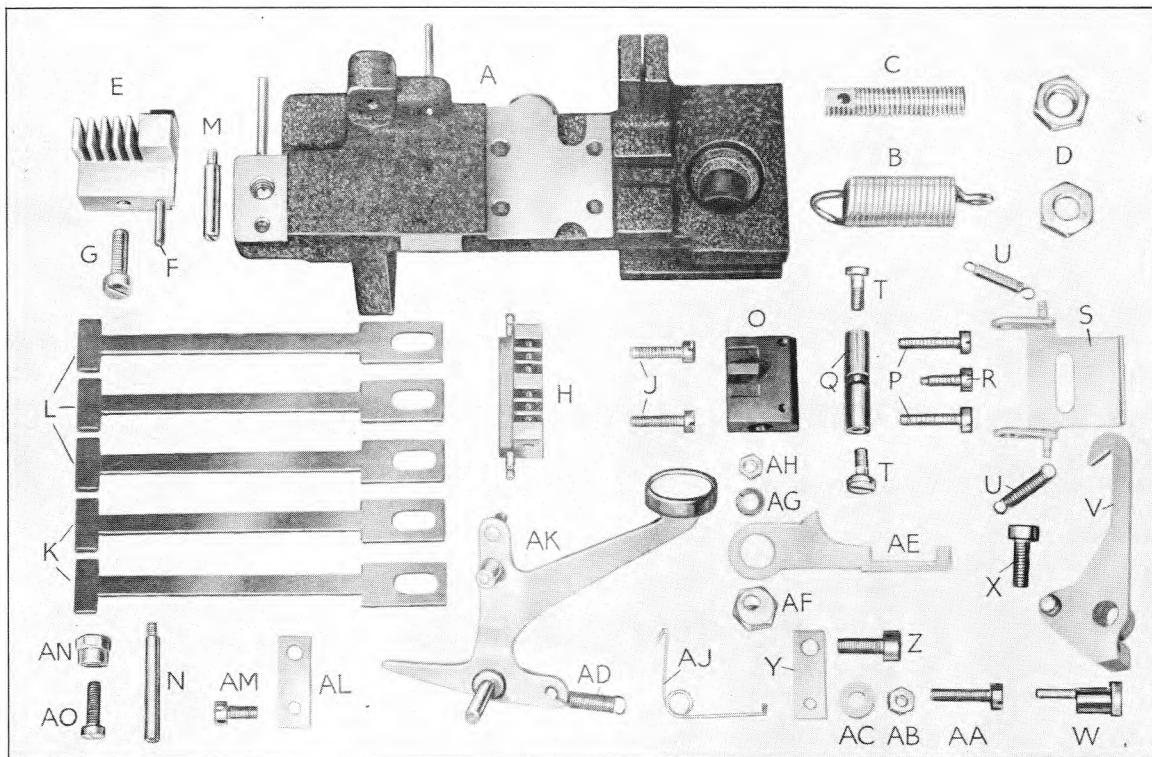


Fig. 45 ANVIL BRACKET C.P. COMPONENTS

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

(See Figs. 44 and 45)

ALL MODELS

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
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Bracket and Spring

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.

Selector Bars and Racks

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.

Anvil

O	1947/141A	Anvil
P	PS.2125-1	Std. 6BA screw (2 per set) for securing item O.

Punch Withdrawing Bracket

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

SECTION 5

AUTO-TRANSMITTER

This section applies to the No. 67P only

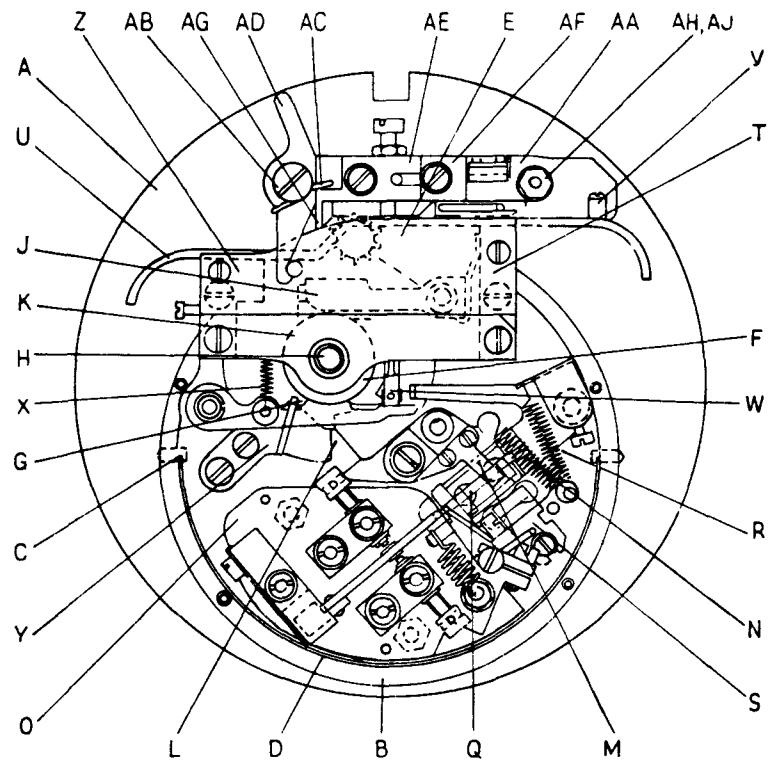


Fig. 46 TRANSMITTER HEAD C.P. (FRONT VIEW)

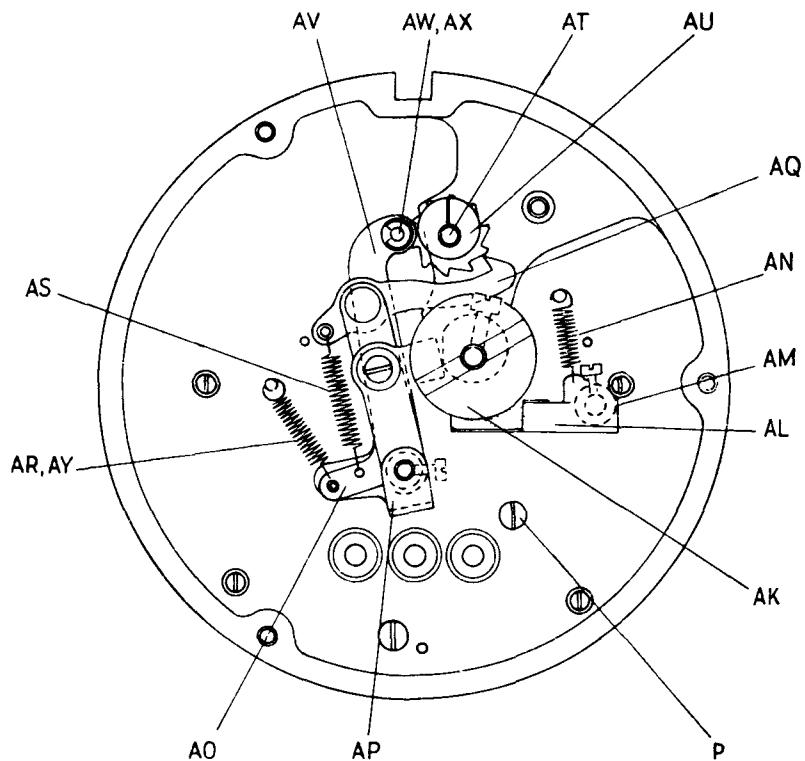


Fig. 47 TRANSMITTER HEAD C.P. (REAR VIEW)

SECTION 5
AUTO-TRANSMITTER

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 A.
	PB.1466(1/4")	Oil-impregnated bush, 1/4" long not visible. Front bearing for item A.
	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		
F	1550/633 Gr.1	Transmitter and striker cam C.P., comprises:-
	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:-
	3010/6	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
	PW.1013-1	Std. 6BA washer } insulating block.
	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
	PW.1021-1	Std. 10BA washer } securing item M to
	PN.1021-1	Std. 10BA nut } insulating block.
	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.)

SECTION 5 (contd.)
AUTO-TRANSMITTER

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

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
<i>CONTACT BLOCK AND OPERATING LEVER</i>		
O	1550/625	Contact Block C.P.
P	PS.2173-1 PW.1013-1 PN.1013-1	Std. 6BA screw Std. 6BA washer } 2 of each per set for securing Std. 6BA nut item O to main frame item A.
Q	1550/634 1550/583 PB.4265 PS.2430-1 PF.1100	Common lever and dart C.P., includes:- Striker dart Spacing collar } between the flanges of common lever Std. 8BA screw } and dart C.P. Lubricating washer
R	PG.7374	Tension spring (for common lever and dart C.P.)
S	1550/587 PS.2462-1 PW.1017-1	Common lever stop Std. 8BA screw } for securing item S. Std. 8BA washer
<i>PECKER GUIDE PLATE AND SUPPORT</i>		
T	1550/555 PS.2253-1	Guide plate support block R.H. Std. 6BA screw
U	1550/611 PS.2063-1	Pecker guide plate Std. 6BA screw (2 per set) for securing item U.
V	1550/503A PN.1517-1	Guide pin Std. 8BA nut (for securing item V).
<i>PECKERS AND ASSOCIATED PARTS</i>		
W	1550/330 1550/444 PB.1944 23956A	Pecker C.P. (5 per set) Start signal lever C.P. (not visible) Spacing collar (between first pecker lever and casting) 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 PS.2061-1	Pecker lever guide Std. 6BA screw (2 per set) for securing item Y.
Z	1550/632 Gr.1 1550/605 1550/603 PP.1042 PS.6106	Pecker spring adjusting block C.P. comprises:- Pecker spring mounting block Spring anchor (6 per set) Parallel pin (pivot for spring anchors) Special screw (6 per set) for adjusting spring anchor.
<i>TAPE RETAINING PLATE ASSEMBLY</i>		
AA	1550/387 Gr.1 1550/376A PS.2141-1 PN.1513-1	Tape retaining assembly, comprises:- Tape retaining casting Std. 6BA screw Std. 6BA locknut
AB	1550/384	Eccentric pivot screw
AC	1550/382	Latch spring
AD	1550/379 PS.2093-1 PW.1013-1	Latch lever Std. 6BA screw (3/8" long) Std. 6BA washer
AE	1550/446	Latch lever stop

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

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

COUPLING AND FEED CAM

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

FEED CAM FOLLOWER AND PAWL

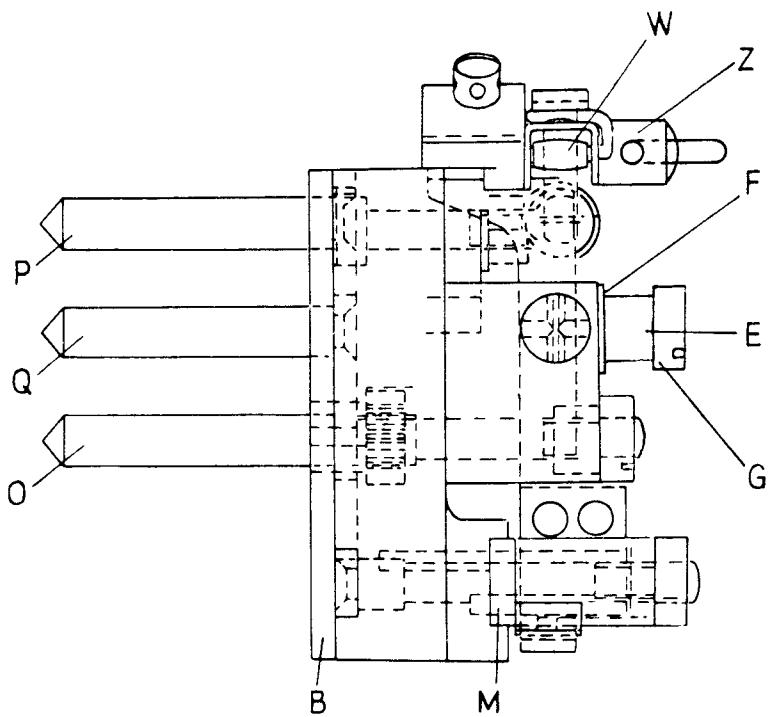
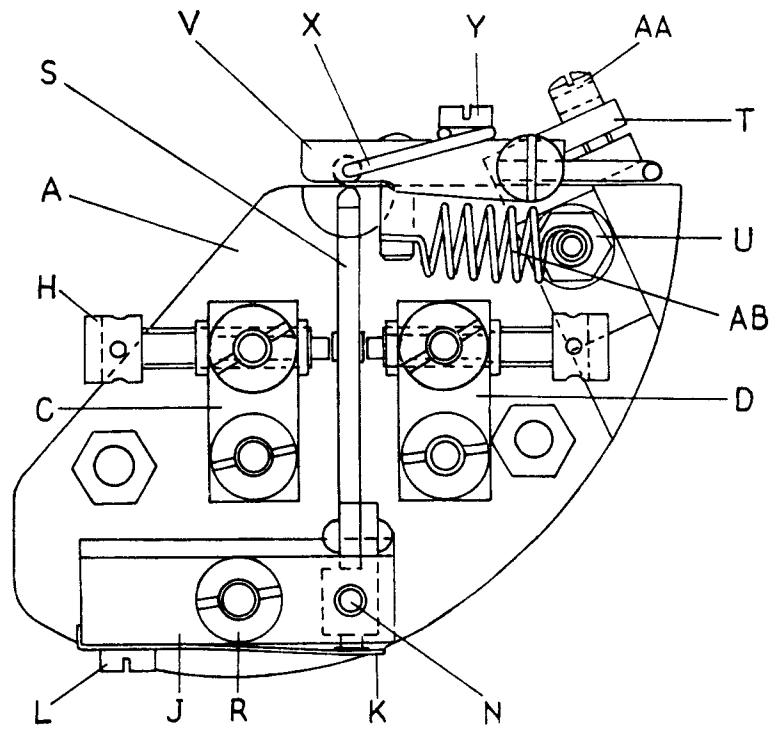
AO	1550/636 1550/589	Feed cam follower and pawl C.P., comprises:- Feed pawl lever C.P.
AP	1550/590 PS. 2057-1 PW. 2037 PW. 1013-1	Feed cam follower Std. 6BA screw Std. 6BA spring washer } for securing item AP to item AO. Std. 6BA washer
AQ	1550/592 BO.3229	Feed ratchet pawl C.P. Clip (for retaining item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

TAPE FEED SPINDLE AND RATCHET

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

RETENTION LEVER AND ROLLER

AV	1550/637 1550/594	Retention Lever and Roller C.P., comprises 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.)



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>) } each comprises:-
	1821/27	Contact screw block
E	PS.5705	Special screw
F	PW.5005	Special washer } for clamping contact screw.
G	PN.6028	Special round nut
H	PC.3004A	Contact screw C.P.
J	1550/626	Transmitter tongue pivot block C.P. comprises:-
	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>) for securing items O, P and Q.
S	2184/28	Transmitting tongue C.P.
T	1550/579	Bias adjustment block
	PS.7073	Special screw }
	PW.1013-1	Std. 6BA washer } for securing item T to moulding item A.
U	PN.1013-1	Std. 6BA nut
V	1550/629	Jockey roller and lever C.P. comprises:-
	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>) } for clamping item X to
	PN.1017-1	Std. 8BA nut (<i>not visible</i>) } jockey roller lever C.P.
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)

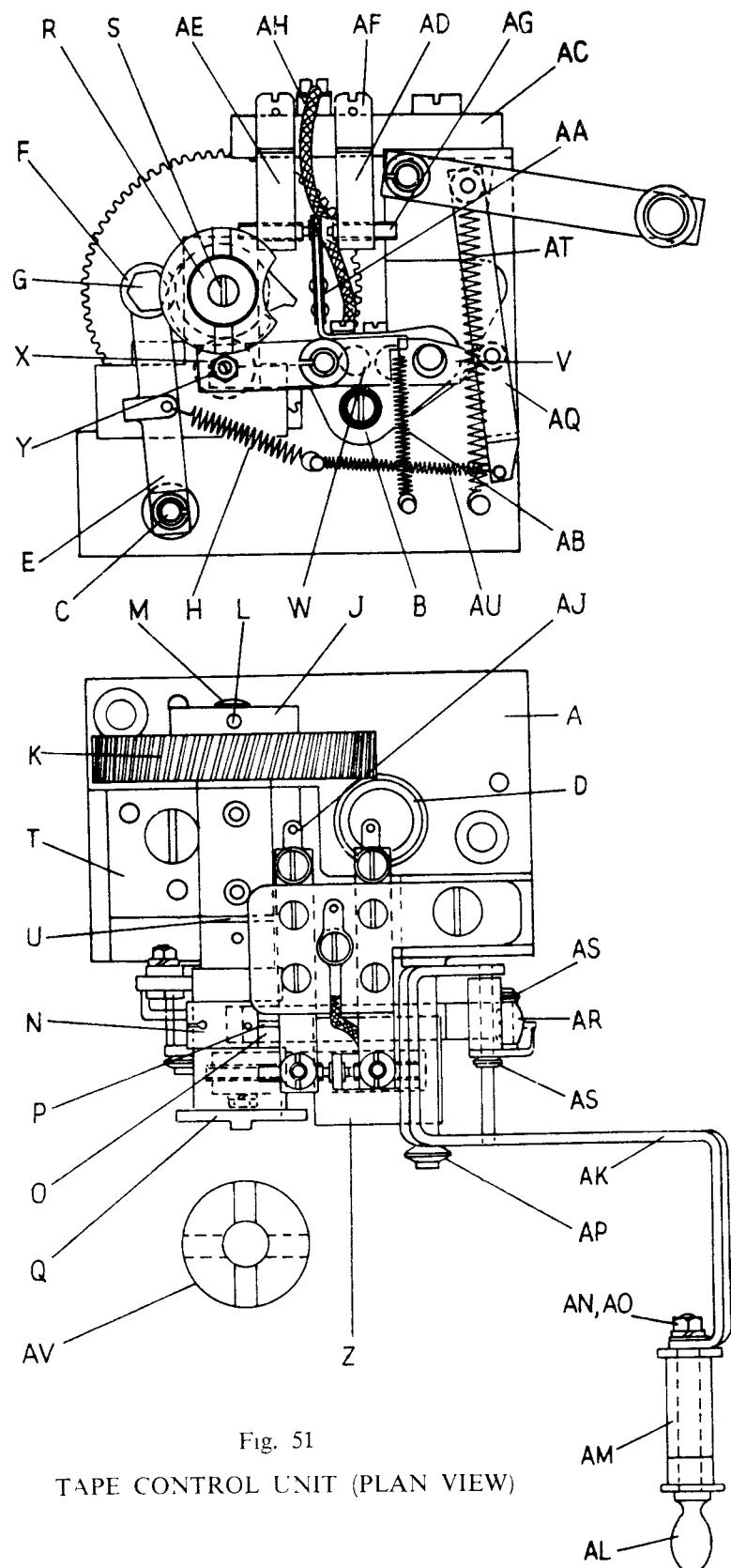


Fig. 51
TAPE CONTROL UNIT (PLAN VIEW)

SECTION 5 (*contd.*)
AUTO-TRANSMITTER

TAPE CONTROL UNIT 1550/640

(See Figs. 50 and 51)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
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 PS.2093-1 PW.1013-1 PW.2037	Detent adjustment plate C.P. Std. 6BA screw Std. 6BA washer } for securing item B Std. 6BA spring washer } to casting.
C	EC.5052 1550/368 PS.1687-1	Eccentric pin Copper clamping pellet } for securing item C Std. 4BA screw } to casting.
D	PE.1002	Insulating bush

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 PW.2049 PN.1017-1	Pivot screw Std. 8BA washer } for clamping item F on item G. Std. 8BA nut }
H	23956A PG.7019 1550/642 Gr.1	Locking ring (<i>for retaining retention lever C.P.</i>) Tension spring (<i>for item E</i>) <i>Driving wheel and clutch C.P. (7½ unit 50 bauds)</i> <i>comprises:-</i>
J	1550/417 Gr.1	Driving wheel C.P. (7½ unit 50 bauds), <i>comprises:-</i>
K	720/132	Gear boss
L	GR.4036	Helical gear (75 teeth) 50 bauds.
M	PS.2127-1 23940A 1550/211A PB.4269 23930A	Std. 6BA screw (3 per set) for securing item F to item K. Taper pin Ratchet shaft C.P. <i>includes:-</i> Shouldered bush } 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. Taper pin }
N	PG.3022B	Pawl spring C.P.
O	860/115F	Pawl (1 pair)
P	1650/307	Pawl distance piece
Q	PP.1067	Pawl pin (<i>not visible</i>)
R	1550/610	Clutch sleeve
S	PW.5060	Special washer
T	PS.2061-1 1550/309	Std. 6BA screw Bearing block C.P. <i>includes:-</i>
U	PB.2024 PW.5008 PS.1200-1	Oil impregnated flanged bush (2 per set) Special washer (<i>spacing between items T and M</i>) Std. 1BA screw (<i>for securing item T</i>)
V	1550/103 PW.5125	Detent lever Special washer (<i>not visible, behind item V</i>)

SWITCH BLADE AND CONTACT BLOCKS

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

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 PS.2141-1 CT.1046 PS.2109-1	Contact screw C.P. Std. 6BA screw (<i>4 per set</i>) for securing items AD and AE to item AC. Connection tag } 2 per set. On items AD and AE. Std. 6BA screw }
AH	1550/408	Flexible connector C.P. (<i>now forms part of 1550/643 switch lever and blade C.P.</i>)
AJ	CT.1046 PB.1974 PS.2125--1	Connection tag Spacing collar (<i>under item AF</i>) Std. 6BA screw (<i>for securing item AH</i>)

TIGHT TAPE CONTROL LEVER

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

COUPLING

AV	1841/11	Coupling disc (<i>S.R.B.F.</i>).
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SECTION 5 (contd.)
AUTO-TRANSMITTER

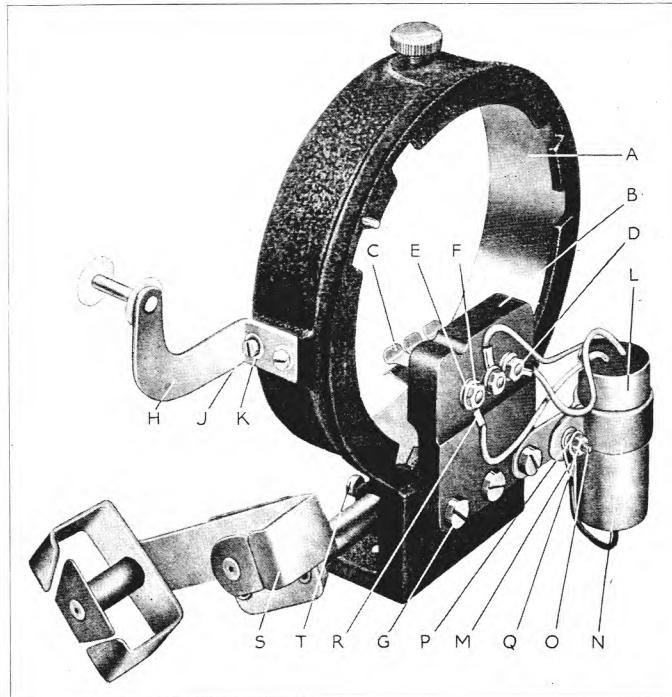


Fig. 52 TRANSMITTER STAND C.P.

TRANSMITTER STAND C.P. 1550/294

(See Fig. 52)

FOR ALL MODELS OF NO. 67P

*Index
Letter*

Part No.

Part Name

STAND AND CONTACT BLOCK

A	2060/106 1200/42A	Transmitter stand C.P. includes:- Contact block C.P. comprises:-
B	850/37A	Contact block moulding
C	PG.2032A	Contact spring (3 per set)
D	PS.1740-1	Std. 4BA screw (3 per set)
E	PW.5045	Std. 4BA washer (6 per set)
F	PN.1509-1	Std. 4BA locknut (6 per set)
G	PS.1354-1	Std. 2BA screw (3 per set) secures contact block C.P.
H	2060/53	Tape guide bracket C.P.
J	PS.2061-1	Std. 6BA screw } 2 of each per set for securing item H.
K	PW.1013-1	Std. 6BA washer }

TRANSMITTER R.I.S.

L	1550/293 BO.1856A	Capacitor C.P. comprises:- Tubular capacitor
M	CT.1026	Terminal tag
N	PK.1086	Capacitor strap
O	PS.2141-1	Std. 6BA screw
P	PW.5276 PW.1014-15	Spacing washer } 2 of each per set
Q	PN.1013-1	Std. 6BA washer }
R	CT.1022	Std. 6BA nut }
		Terminal tag (3 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	TA.1008 Spring Hook
1	1	1	TA.1011 Tommy Pin (<i>Medium</i>)
1	1	1	TA.1020 Tommy Pin (<i>Small</i>)
1	1	1	TA.1038 Spanner 2BA and 3BA
2	2	2	TA.1022 Spanner 4BA and 6BA
—	—	1	TA.1047 Spanner "B" for Clutch Body
1	1	1	TA.1048 Spanner "A" for Camshaft
1	1	1	TA.1076 Spanner 1/4" Whit. and 5/16" Whit.
—	—	1	TA.1049 Packing strip
1	1	1	TA.1034 Punch Block Cleaner
1	1	1	TA.1056 Punch Lapping Block
1	1	1	TA.1110 Governor Adjusting Clamp
1	1	1	TA.1053 Screwdriver 3½" x 1/10"
1	1	—	TA.1052 Spanner 0.615" across flats, for Camshaft.
—	1	—	TA.1117 Fork Stroboscope (Speed 125 v.p.s. for 50 Bauds).
—	1	—	TA.1027 Burnisher C.P.
—	1	—	TA.1023 Pair of Special Pliers (<i>for removing locking rings</i>).
1	1	1	8199 Pair of Tweezers
1	1	1	8549 Screwdriver 5" x 1/8"
1	1	1	TA.1148 Screwdriver 5" x 1/4"
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

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

Part No.	Part Name	Page	Index Letters	Part No.	Part Name	Page	Index Letters
1841/				1856/	contd.		
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	Keybutton 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			{ 37	V
/114	Fourth row keybar C.P. (L.H.)	27	BZ			{ 43	AK
	Keyboard mask	29	CK			{ 51	M
/121B	Keybar keep plate C.P. . . .	27	BM	109	Bearing block C.P. (L.H.)	55	W9
/127B						{ 37	X
/154A	Secondary shaft	{ 23 25	R L			{ 43	AQ
/162A	Coupling sleeve	43	AH	111	Bearing block C.P. (R.H.)	55	W4
/169B	Front rack C.P. ($\frac{3}{4}$ " pitch)	26	AV			{ 43	AM
/190	Space keybar C.P. . . .	29	DD			{ 55	H
/194	Figure and letter shift bar stop C.P. . . .	29	DF	113	Ball cage C.P. . . .	55	W6
/195	Clamp plate	29	DG	/115B	Transfer unit shaft	43	AG
/209A	Keyboard mask	29	CM	/162A	Coupling sleeve	43	AH
/212	Pad C.P. . . .	{ 29	DN	/174A	Locking frame sub C.P. . . .	41	Q5
/213	Space frame C.P. . . .	29	DS	/175A	Locking frame C.P. . . .	41	Q
/214	Space and figures frame spindle	29	DL	/176	Transfer bar (first)	45	BU
/219	Space key lever C.P. . . .	29	DK	/177	First transfer bar comb spring C.P. . . .	43	AA
/221	Letters frame sub C.P. . . .	29	DO	/178	Selecting arm (with tooth)	45	BT
/222	Letters shift frame C.P. . . .	29	DR	/181	Lock release lever C.P. . . .	27	BA
/223	Space and figures frames and lever C.P. . . .	29	DQ	/184	Pawl C.P. . . .	27	BK
/227	Figure shift frame C.P. . . .	29	DJ	/187	Lock release lever extension	27	BG
/228	Letters frame spindle	29	DM	/189	Stop plate	27	BC
/229	Shift spindle support (L.H.)	29	DT	/192	Keybutton sub C.P. . . .	27	BC
/230	Shift spindle support (R.H.)	29	DV	/193	Stop bracket	27	BC
/325	Special stop screw C.P. . . .	{ 25 23	DU	/194A	Abutment bracket	41	K
			AT	/196	Lock release keybutton C.P. . . .		
/351	Pivot support plate	27	AW				
/352A	Support bar	27	BN	/201A	Trip lock lever sub C.P. . . .	43	V
/372	Coupling sleeve	37	BN	/227B	Clutch ratchet	37	AK
1856	Clutch body	43	AX	/248B	Back plate C.P. . . .	41	A
1856/3				/248A	Clutch C.P. . . .	43	AV
				/292	Clutch nut	43	BC
				/293	Code shaft C.P. . . .	45	CO

<i>Part No.</i>	<i>Part Name</i>	<i>Page</i>	<i>Index Letters</i>	<i>Part No.</i>	<i>Part Name</i>	<i>Page</i>	<i>Index Letters</i>
1857/ 1857/43	Rack C.P. . . .	51	B	1947/ contd. 1947/41B	Front plate C.P. . . .	56	AJ
1910/ S1910	Series governor unit	18		/44	Intermediate shaft C.P. . . .	55	W
1910/5A /6	Contact arm mounting block	18	B	/45A	Intermediate shaft	55	W1
/12	Contact arm keep plate	18	V	/51B	Camshaft C.P. . . .	55	E
/13	Contact arm sub C.P. . . .	18	P	/52	Cam C.P. . . .	55	F
/17A	Contact block	18	F	/53	Cam	55	G
/19A	Governor spring plate	18	L	/61A	Retention pawl C.P. (front)	55	AD
/26	Governor spring C.P. . . .	18	Y	/64A	Retention pawl C.P. (rear)	55	AB
/27A	Contact arm saddle	18	X	/70C	Punch block head and fulcrum C.P. . . .	57	-
/33	Contact arm sub C.P. . . .	18	Q	/72A	Punch block fulcrum	57	AS
/51	Governor base sub C.P. (. ¹⁶ " bore)	18	A	/76	Retention lever C.P. . . .	57	BN
/52	Contact blade clamp	18	S	/79	Adjusting arm C.P. . . .	57	BH
/76A	Contact blade C.P. . . .	18	R	/91D	Punch block head sub C.P. . . .	57	BS
/87	Governor cover	18	AB	/92D	Punch block head casting C.P. . . .	57	-
/88	Governor arm stop spring	18	Z	/108C	Cover plate	57	BT
/89	Flanged bush	18	Y	/109B	Die plate	57	CM
/96	Special washer	18	AA	/123A	Cuttings chute C.P. . . .	58	CY
	Governor spring clamping plate	18	O	/130C	GRP. 2 Anvil bracket C.P. . . .	59	-
				/132B	Anvil bracket casting C.P. . . .	59	A
1939/ S1939	Combination bar unit (12 bar)	33		/137	Rack C.P. . . .	59	H
/5	Combination bar support plate C.P. . . .	33		/141A	Anvil	59	O
/11	Stop plate	34	A	/143A	Punch withdrawing bracket	59	S
/15A	Shift lever (L.H.) C.P. . . .	33	C	/150	Feed pawl C.P. . . .	60	V
17A	Shift lever (R.H.) C.P. . . .	33	R	/152	Pawl adjustment plate	60	Y
/21	Connecting lever C.P. . . .	33	S	/156	Selector bar (straight)	59	K
/22	Connecting lever C.P. (for case bar)	33	AB	/158	Selector bar (bent)	59	L
/25	Trip adjusting arm C.P. . . .	{ 33	AC	/160B	Back space lever C.P. . . .	60	AK
/27	Adjusting bellcrank C.P. . . .	{ 33	AE	/161B	Back space lever nut C.P. . . .	60	AK
/28	Trip adjusting lever C.P. . . .	{ 33	J	/171	Perforation trip bar C.P. . . .	51	Q
/44A	Shift lever frame sub C.P. . . .	{ 33	AL	/174A	Gear C.P. . . .	51	D
/45A	Shift lever frame C.P. . . .	{ 33	AC	/203	Transfer bar	51	O
/47	Distance piece	33	H	/210C	Cover plate	57	CK
/51	Case bar "F"	33	AG	/211B	Die plate	57	CL
/52	Combination bar "D"	33	AH	/217	Spring adjuster	59	C
/53	Combination bar "E"	33	AR	/220A	Trip lever and link C.P. . . .	51	P
/54	Combination bar set	33	L	/234	Rack C.P. . . .	59	E
/55	Keep plate	{ 33	N	239B	Bearing block R.H. and L.H. . . .	57	CE
/56	Trip bar C.P. . . .	{ 33	M	/240	Tape tear-off plate	57	CH
/58	Adjusting bellcrank	{ 33	K	/241	Stripper plate	57	CG
/61	Set of 5 shift couplings C.P. Nos. 1 - 5	33	AD	/243	Tape guide frame C.P. . . .	58	CR
/62	Combination bar rack (R.H.)	33	K	/244	Tape guide	58	CT
/63	Combination bar rack (L.H.)	33	AE	/245	Tape guide frame	58	CS
/65	Stop plate	33	C	/248	Perforator trip bar C.P. . . .	51	N
/85	Trip adjusting arm sub C.P. . . .	35	E	/249A	Trip lever and link C.P. . . .	51	N
/86	Trip adjusting lever C.P. . . .	35	F	/258B	Die assembly (advance feed)	58	CZ
				/259B	Die assembly (centre feed)	58	CZ
1942/ S1942B	Transfer unit	41		/260	Tape entry guide C.P. . . .	57	BB
/41A	Transfer unit shaft C.P. . . .	43	AF	/263A	Tape feed spindle C.P. . . .	57	BV
/54	Spacing plate without pin	45	BE	/267A	Feed wheel knob	57	CA
1946/ 1946/3	Combination bar rack C.P. . . .	44	B	/268	Feed ratchet	57	BZ
1947/ 1947/10B	Punch block unit	56		/269	Retention wheel	57	BY
/12B	Back plate C.P. . . .	55	C	/270	Transfer bar C.P. . . .	51	P
/17A	Detent (R.H.) C.P. . . .	55	P	/272	Set of punches	58	CQ
/18A	Detent sub C.P. . . .	55	P1	/273B	Tape guide plate	57	CM
/19A	Detent (L.H.) C.P. . . .	55	O	/274	Bottom guide plate (advance feed)	58	CO
/20A	Detent sub C.P. . . .	55	O1	/275	Bottom guide plate (centre feed)	58	CO
/25A	Trip lever	55	O2	/276B	Tape guide plate	58	CM
/28A	Trip adjusting arm	55	P2	/277	Shim (-005")	23	AF
/33A	Trip link C.P. . . .	{ 51	R	/278A	Abutment plate	23	AD
		{ 51	N	/295	Cuttings box bracket C.P. . . .	{ 7	C
				/298A	Pivot pin C.P. . . .	{ 9	C
				/300	Shim (-020")	23	AL
				/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 (Model 7P) . . .	13	AK
/321	Latch support . . .	58	CX	160	Driving shaft cover C.P.	14	AO
/323A	Tape guide . . .	58	CX	/161	Terminal block insulator . . .	13	AE
/326	Special die plate (centre feed) . . .	57	CM	/163	Terminal strip . . .	16	BW
/329	Special die plate (advance feed) . . .	57	CM	/164	Capacitor clip . . .	16	BV
				/165	Suppressor bracket . . .	16	BT
				/166A	Mains suppressor unit C.P.	16	BS
1949/				/168	Resistor support block . . .	15	BL
S1949	Combination bar unit . . .	34	—	/171	Capacitor C.P. . .	17	CD
/8	Spacing washer . . .	35	O	/172	Transmitter suppressor unit C.P. . .	17	CB
1971/				/173	Aperture cover . . .	13	V
1971/33A	Driving shaft . . .	51	G	/174	Governing resistor C.P. . .	17	CB
/79	Bearing block C.P. (R.H.) . . .	51	H	/176A	Perforator guard cover . . .	7	E
/84	Thrust collar . . .	51	K	/178	Handwheel . . .	15	AS
/81	Coupling C.P. . .	51	N	/179	Resistor C.P. . .	17	CF
1976/				/180	Resistor C.P. . .	17	CF
S1976	Perforator link unit . . .	51	—	/181	Capacitor C.P. . .	16	BU
/1A	Back plate . . .	51	A	/184	Transmitter platform . . .	13	B
2000/				/189	Governor shield C.P. . .	13	R
2000/280	Clamp plate . . .	27	BC	/190	Hinge bracket . . .	13	S
2060/				/193	Hinge rod . . .	13	T
2060/3A	Base casting (Model 7P) . . .	13	A	/195	Terminal block and cable form C.P. . .	16	BP
/5	Main bearing block C.P. . .	13	AL	/196	Terminal block C.P. . .	13	AF
/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. . .	49	D
/24	Tape guide bracket C.P. . .	13	N	/74	Ratchet wheel stop plate . . .	49	N
/26	Message desk support . . .	19	S	/75A	Retention pawl pivot . . .	49	AG
/27	Cover support . . .	13	K	/77	Feed pawl C.P. . .	49	F
/32	Tape box sub C.P. . .	19	A	/79	Spring anchor pin . . .	49	P
/35	Desk C.P. . .	19	B	/124	Clamp plate . . .	49	L
/39	Tape wheel brake C.P. . .	19	L	/125	Friction piece . . .	49	F
/40	Tape box and message desk unit . . .	19	—	/126	Damping buffer . . .	49	W
/43	Hinge post . . .	19	G				X
/44	Cover support and switch bracket . . .	13	L				AM
/47	Oil impregnated bush (parallel) . . .	14	AM				Y
/48	Oil impregnated bush (parallel) . . .	13	AL	2085/			AN
/50	Tape runway C.P. . .	71	S	2085/7	Release link . . .	49	K
/53	Tape guide bracket . . .	71	H	/8	Contact roller . . .	47	Q
/63	Hinge ear . . .	19	D	/13	Stop plate pivot . . .	49	D
/66	Cover . . .	{ 7	J	/23	Trip lever C.P. . .	49	R
/68A	Gear cover . . .	19	T	/26	Feed lever C.P. . .	49	X
/70	Cover C.P. . .	{ 9	F	/27	Counter back plate C.P. . .	49	A
/80	Special screw . . .	19	N	/28	Contact operating lever C.P. . .	49	P
/81	Cuttings box screw . . .	13	C	/35	Trip lever guide . . .	49	AD
/83	Brake block . . .	19	M	/40A	Counter camshaft C.P. . .	45	V
/102A	Lamp bracket support C.P. . .	13	W	/45	Cable cleat . . .	47	CN
/106	Transmitter stand C.P. . .	71	A	/62	Counter unit . . .	25	Q
/111	Terminal block insulation . . .	15	BE	/74	Ratchet wheel stop plate C.P. . .	47	AL
/113A	R.I.S. capacitor C.P. . .	15	BG	/81	Lamp insulating sleeve . . .	13	N
/128	Terminal guard . . .	16	BS	2088			S
/134A	Governor R.I.S. C.P. . .	15	AZ	2088/2B	Back rack ($\frac{1}{8}$ " keypitch) . . .	26	AA
/135	Insulating strip . . .	15	BJ	/9A	Space keybar sub C.P. . .	29	AY
/136	Insulating plate . . .	15	BH	/13A	Space keybar guide . . .	23	DZ
/137	Mounting plate C.P. . .	15	AZ	/25B	Front rack C.P. ($\frac{1}{8}$ " key pitch) . . .	26	AT
/140	Base cover L.H. . .	17	CH	/41	Keyboard stop plate C.P. . .	29	EB
/141	Base cover . . .	15	BO	/42	Keybar guide rack . . .	26	AV
/142	Support block . . .	23	F	/43	Keybar guide rack . . .	26	CO
/143	Mounting bar . . .	13	F	/51	Keyboard mask . . .	29	AZ
/150	Base casting C.P. (Model 67P) . . .	13	A				AZ
							CN

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

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12431	Ball Bearing EW $\frac{5}{16}$ "	14	AQ	CS. 1011	$\frac{3}{32}$ " set collar and screw ..	23	Q
23926A	Taper pin ..	55	W8	CS. 1015	$\frac{3}{32}$ " set collar and screw ..	31	BG
23930A	Taper pin ..	69	M	CS. 1021	$\frac{1}{8}$ " set collar and screw ..	51	N
23940A	Taper pin ..	69	L	CS. 1022	$\frac{1}{8}$ " set collar and screw ..	51	T
23955A	Locking ring ..	69	AP	CS. 1023	$\frac{1}{8}$ " set collar and screw ..	49	AF
		69	AS	CS. 1026	$\frac{1}{8}$ " set collar and screw ..	63	M
23956A	Locking ring ..	64	J	CS. 1027	$\frac{1}{16}$ " set collar and screw ..	31	AL
		69	W	CS. 1029	$\frac{1}{16}$ " set collar and screw ..	31	AQ
23957A	Locking ring ..	69	G	CS. 1032	$\frac{1}{16}$ " set collar and screw ..	34	Q
AA1/2	Motor brush C.P. ..	14	AA	CS. 1041	$\frac{1}{16}$ " set collar and screw ..	33	AN
CT100	Oil impregnated parallel brush ..	57	AP	CS. 1046	$\frac{1}{32}$ " set collar and screw ..	13	N
Ref.125A	Induction type motor ..	14	AT	CS. 1049	$\frac{1}{32}$ " set collar and screw ..	47	AB
Ref.150A	AC/DC governed motor ..	14	AP	CS. 1056	$\frac{1}{16}$ " set collar and screw ..	27	BB
Ref.151A	DC governed motor ..	14	AP	CS. 1061	$\frac{1}{16}$ " set collar and screw ..	39	CE
Ref.152A	AC governed motor ..	14	AP	CS. 1062	$\frac{1}{16}$ " set collar and screw ..	39	L
Ref.158	DC governed motor ..	14	AP	CS. 1064	$\frac{1}{16}$ " set collar and screw ..	47	AG
Ref.160	AC/DC governed motor ..	14	AP			29	AG
Ref.161A	DC governed motor ..	14	AP			39	BA
Ref.162A	AC governed motor ..	14	AP			39	BB
						29	DE
BL Numbers (Blanks)						29	DQ
BL.1017	Spacing plate ..	45	BE			55	B
						37	W
BO. NUMBERS				CS. 1067	$\frac{1}{16}$ " set collar and screw ..	43	AP
BO.1701	Insulating bead ..	15	BM	CS. 1081	$\frac{1}{4}$ " set collar and screw ..	55	W2
BO.1808B	Capacitor (10 μ F) ..	17	BZ	CT. NUMBERS (CONNECTIONS)		14	AM
BO.1809B	Capacitor (2.5 μ F) ..	17	BZ	CT. 1017	Connector ..	16	BR
BO.1840A	Capacitor (.25 μ F + 0.1 μ F + 0.1 μ F) ..	16	BU	CT. 1022	Terminal tag ..	71	R
BO.1856A	Tubular capacitor ..	71	L	CT. 1026	Connection tag ..	71	BG
BO.2002	Insulating sleeve ..	13	AC	CT. 1046	Connection tag ..	70	M
BO.2512	Lamp (6 volt) ..	13	Z	CT. 1068	Connection tag ..	70	AG
BO.2649	R.I.S. Capacitor (0.5 μ F) ..	17	BX	CT. 1095	Connecting wire ..	15	AJ
BO.2652	R.I.S. Capacitor (0.5 μ F 330 ohms) ..	17	BX	CT. 1096	Connecting wire ..	16	BD
				CT. 1098	Connection tag ..	16	BR
BO.2659	Capacitor (0.1 μ F) ..	15	BG	EC. NUMBERS (ECCENTRICS)		15	AY
BO.2663	Motor switch ..	15	BP	EC. 1025	Eccentric pin ..	55	W
BO.2667	Resistor 300 + 3500 ohms ..	13	AD	EC. 1511	Eccentric screw ..	41	Q1
BO.2668	Resistor 500 + 1500 ohms ..	13	AD	EC. 1551	Eccentric ..	55	O4
BO.2670	3 way socket (5 amp) ..	17	CK	EC. 1561	Eccentric ..	55	P3
BO.2671	Socket ..	13	Y	EC. 5026	Eccentric ..	60	AF
BO.2673	Lamp holder ..	13	X	EC. 5032A	Eccentric collar ..	33	AH
BO.2679	9 way socket ..	17	CJ	EC. 5033A	Eccentric bush ..	35	L
BO.2694	12 way socket ..	17	CJ	EC. 5034	Eccentric nut ..	59	Q
BO.2724	Vitreous resistor (5 ohms) ..	15	BM	EC. 5040	Eccentric ..	55	AA
BO.2861	Rubber grommet ..	13	Q	EC. 5052	Eccentric pin ..	60	AN
BO.2885/2	Resistor (2000 ohms) ..	17	CB	EC. 5055	Eccentric pin ..	57	BJ
BO.2885/3	Resistor (1000 ohms) ..	17	CB	EC. 5063	Eccentric bush ..	23	C
BO.3225	Roller clip ..	65	AX	GR. NUMBERS (GEARS)		23	Y
BO.3229	Anderton clip ..	31	T	GR. 2035	Helical gear (12 teeth) ..	14	AR
		35	Q	GR. 2043	Helical gear (17 teeth) ..	55	W7
		65	AQ	GR. 2044A	Helical gear (21 teeth) ..	55	W10
BO.3230	Anderton clip ..	39	BM	GR. 2046	Worm ..	43	AO
CD. NUMBERS (CORDS)				GR. 2061	Helical gear (32 teeth) ..	14	AM
CD.1267	9-way cord ..	17	CJ	GR. 2063	Helical gear (24 teeth) ..	13	AG2
CD.1270 GR3	3-way plug and power cord assembly ..	17	CJ	GR. 2064	Idler gear C.P. ..	13	AJ
CD.1273	3-way cord ..	17	CK	GR. 2073	Helical gear (60 teeth) ..	13	AG1
CD.1277	12-way cord ..	17	CJ	GR. 2080	Motor pinion (32 teeth) ..	14	AR
CD.1281 GR3	9-way plug and power cord assembly ..	17	CH	GR. 2082	Helical gear (30 teeth) ..	14	AM
CD.1282 GR3	12-way plug and power cord assembly ..	17	CJ	GR. 2101A	Driving gear ..	37	T
				GR. 2138	Motor pinion (35 teeth) ..	14	AR
CF. NUMBERS (CABLE FORMS)				GR. 2164	Driving gear (39 teeth) ..	25	S
CF.1383C	Cable form ..	16	BR	GR. 4036	Helical gear (75 teeth) ..	69	L
CF.1386A	Cable form ..	16	BQ	GR. 4054	Helical gear (31 teeth) ..	14	K
CF.1412	Cable form ..	17	CD	KN. NUMBERS (KNOBS)		14	AM
CF.1452	Cable form ..	16	BW	KN. 100 2B	Knob ..	70	AL
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PB. NUMBERS (COLLARS)											
PB.1024	Spacing collar . . .	{ 47 49	O AC	PG.7034	Tension spring . . .	{ 29 39	BL AU				
PB.1030	Collar . . .	55	P4	PG.7039	Tension spring . . .	{ 39	AW				
PB.1035	Set collar . . .	33	AQ	PG.7054	Tension spring . . .	{ 65	AS				
PB.1095	Collar . . .	19	J			{ 27	BO				
PB.1207	Shouldered bush . . .	{ 23 25	R L	PG.7066	Tension spring . . .	{ 33 35	U G				
PB.1241	Shouldered bush . . .	55	D			{ 39	AZ				
PB.1331	Locking frame collar . . .	39	BU			{ 70	AT				
PB.1466	Oil-impregnated bush (1/4")	63	A			{ 45	CD				
PB.1533	Oil-impregnated bush (parallel) . . .	41	A	PG.7070	Tension spring . . .	{ 45 47	CK G				
PB.1944	Spacing collar . . .	64	W			{ 49	Q				
PB.1974	Spacing collar . . .	70	AJ	PG.7074	Tension spring . . .	{ 57	BQ				
PB.2024	Oil impregnated flanged bush . . .	69	T	PG.7075	Tension spring . . .	{ 70	AU				
PB.2095	Clamping bush . . .	{ 31 35	R Q	PG.7076	Tension spring . . .	{ 49	AA				
PB.3013	Oil impregnated flanged bush . . .	{ 37 41	K	PG.7077	Tension spring . . .	{ 27	BP				
		{ 41	A	PG.7078	Tension spring . . .	{ 58	CX				
		{ 41	G			{ 45	BQ				
PB.3158	Shouldered bush . . .	56	AK	PG.7080	Tension spring . . .	{ 49	M				
PB.4122	Special bush . . .	25	E	PG.7100	Tension spring . . .	{ 56	AH				
PB.4260	Spacing bush . . .	55	R	PG.7152	Tension spring . . .	{ 59	B				
PB.4263	Set collar . . .	65	AS	PG.7173	Tension spring . . .	{ 47	AH				
PB.4264	Lubricator spacing collar . . .	65	AM	PG.7176	Tension spring . . .	{ 47	Z				
PB.4265	Spacing collar . . .	64	Q	PG.7186	Tension spring . . .	{ 49	AO				
PB.4269	Shouldered bush . . .	69	M	PG.7196	Tension spring . . .	{ 59	U				
PB.4276	Oil impregnated bush . . .	63	A	PG.7197	Tension spring . . .	{ 65	AR				
PB.4286	Oil impregnated bush (1/4")	63	A			{ 47	T				
						{ 49	AH				
				PG.7198	Tension spring . . .	{ 47	E				
PC. NUMBERS (CONTACTS)											
PC.2501	Contact spring . . .	67	K	PG.7204	Tension spring . . .	{ 48	CX				
PC.2504A	Governor Brush C.P. . .	15	AY	PG.7208	Tension spring . . .	{ 47	M				
PC.3004A	Contact screw C.P. . .	67	H	PG.7212	Tension spring . . .	{ 39	CF				
PC.3006	Contact screw . . .	18	K	PG.7213	Tension spring . . .	{ 51	N				
PC.3011	Contact screw C.P. . .	70	AG			{ 51	S				
				PG.7219	Tension spring . . .	{ 37	AO				
						{ 47	C				
PE. NUMBERS (INSULATORS)											
PE.1002	Insulating bush . . .	69	D	PG.7226	Tension spring . . .	{ 65	AY				
PE.1135	Insulating sleeve . . .	16	BR	PG.7322	Tension spring . . .	{ 60	AD				
PE.1136	Insulating sleeve . . .	16	BR	PG.7345	Tension spring . . .	{ 55	Q				
PE.1139	Insulating sleeve . . .	15	BM	PG.7357	Tension spring . . .	{ 69	AB				
PE.1140	Insulating sleeve . . .	15	BM	PG.7362	Tension spring . . .	{ 31	AJ				
PE.1165	Insulating sleeve . . .	17	CL			{ 35	G				
PE.5031	Rubber grommet . . .	13	P	PG.7373	Tension spring . . .	{ 65	AN				
PE.5068	Insulating flanged bush . . .	15	BA	PG.7374	Tension spring . . .	{ 63	N				
PE.5069	Insulating washer . . .	15	BA			{ 64	R				
				PG.7376	Pecker tension spring . . .	{ 64	X				
PF. NUMBERS (FELT PARTS)											
PF.1023	Felt plug . . .	55	M	PG.7377	Bias spring . . .	{ 67	AB				
PF.1052	Felt plug . . .	55	M	PG.7388A	Tension spring . . .	{ 58	CX				
PF.1099	Lubricator felt . . .	65	AL	PG.7393	Tension spring . . .	{ 43	VA				
PF.1100	Lubricating washer . . .	64	Q			{ 27					
						{ 27					
PG. NUMBERS (SPRINGS)											
PG.2021A	Backing spring . . .	15	AY	PK. NUMBERS (CLIPS)							
PG.2032A	Contact spring . . .	71	C	PK.1044	Capacitor strap . . .	{ 17	BY				
PG.2123	Lift spring . . .	57	CJ	PK.1086	Capacitor strap . . .	{ 71	N				
PG.2124	Flat spring . . .	63	D	PK.1097	Cable cleat . . .	{ 17	CL				
PG.3015	Torsion spring . . .	19	K	PK.1110	Capacitor strap . . .	{ 15	BK				
PG.3022B	Pawl spring C.P. . .	69	N	PK.2042	Cable cleat . . .	{ 13	AB				
PG.3057	Pawl spring . . .	55	K			{ 17	CM				
PG.3058	Torsion spring . . .	60	AJ	PK.2079	Capacitor terminal clip . . .	{ 15	BG				
PG.3062	Torsion spring . . .	19	P			{ 27					
			V			{ 27					
PG.3074	Semi-elliptical spring . . .	{ 47 49	AK	PL. NUMBERS (LABELS)							
		{ 49		PL.1401	Keylabel . . .	{ 27	BC				
PG.3145	Torsion spring . . .	60	AF			{ 60	CG				
PG.5036	Compression spring . . .	55	AR	PL.1403	Keylabel . . .	{ 27	AK				
PG.5085	Compression spring . . .	37	AL			{ 27	CG				
PG.5088	Clutch pressure spring . . .	43	BA			{ 13					
PG.7003	Tension spring . . .	{ 39 41	BW			{ 13					
		{ 41				{ 41					
PG.7019	Tension spring . . .	{ 33 69	V H	PN.1005-1	Std. 2BA hex. M.S. . .	{ 13	AJ				
PG.7020	Tension spring . . .	51	U			{ 41	E				

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PS. NUMBERS (SCREWS) contd.							
PS. 1376-1	Std. 2BA x $\frac{3}{16}$ " C/sk. hd. M.S.	13	G	PS. 2043-1	Std. 6BA x $\frac{1}{2}$ " C/sk. hd. M.S.	47	AK
PS. 1416-1	Std. 2BA x 1" Grub M.S. . .	15	AT		49	AT
PS. 1500-1	Std. 2BA x $1\frac{1}{16}$ " ch. hd. M.S.	14	AN			13	V
PS. 1645-1	Std. 4BA x $\frac{1}{8}$ " grub M.S. . .	37	Z			23	S
		13	AD			27	BC
PS. 1659-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	14	AM			27	BD
		14	AR	PS. 2045-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	27	BH
PS. 1670-1	Std. 4BA x $\frac{1}{16}$ " grub M.S. . .	43	CG			29	DH
		7	AJ			31	DS
		9	E			31	O3
PS. 1676-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	15	E	PS. 2047-1	Std. 6BA x $\frac{1}{16}$ " c/sk. hd. M.S.	35	F
		17	BK			35	M
		27	CM			43	X
		37	BM			29	EA
PS. 1678-1	Std. 4BA x $\frac{1}{16}$ " c/sk. hd. M.S.	63	Q			31	C
		71	E	PS. 2057-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	31	G
		13	T			31	L
PS. 1687-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	13	O			31	AA
		13	S			31	AS
		57	BC			31	BC
		13	AC			34	B
		15	AG2			35	T
PS. 1693-1	Std. 4BA x $\frac{1}{16}$ " Inst. hd. M.S. . . .	17	BB			65	AP
		23	CH			15	BG
		25	E			18	W
PS. 1694-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	26	E			25	Q
		69	AZ	PS. 2061-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	27	BC
		18	C			27	BN
		15	AB			29	DW
		15	BN			39	BZ
		17	BO			47	J
		17	CA			49	S
		23	CB	PS. 2062-15	Std. 6BA x $\frac{1}{16}$ " ch. hd. Br.	49	Y
PS. 1696-1	Std. 4BA x $\frac{1}{16}$ " c/sk. hd. M.S. . . .	9	AG			55	S
		9	C			57	CJ
		39	G			58	CP
PS. 1708-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	23	H			58	CX
PS. 1714-1	Std. 4BA x $\frac{1}{16}$ " cap. hd. M.S.	7	J			60	X
		9	J			60	AM
		15	AY			63	K
PS. 1717-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	15	BF			64	Y
		49	AU			69	S
		59	G	PS. 2063-1	Std. 6BA x $\frac{1}{16}$ " c/sk. hd. M.S.	71	J
PS. 1729-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	14	AR			17	CD
PS. 1740-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	23	Y			16	BW
		25	X			35	F
		71	D	PS. 2063-1	Std. 6BA x $\frac{1}{16}$ " cap. hd. M.S.	39	BF
PS. 1761-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	16	BS			51	BH
		25	S			64	B
		25	V	PS. 2072-1	Std. 6BA x $\frac{1}{16}$ " cap. hd. M.S.	65	U
PS. 1717-1	Std. 4BA x $\frac{1}{16}$ " ch. hd. M.S.	23	Z			65	AF
		23	Z	PS. 2074-1	Std. 6BA x $\frac{1}{16}$ " c/sk. hd. M.S.	47	AE
PS. 1793-15	Std. 4BA x 1" ch. hd. M.S.	57	BR			39	BO
PS. 1803-1	Std. 4BA x $1\frac{1}{16}$ " ch. hd. M.S.	17	CL			43	S
PS. 1875-1	Std. 4BA x $1\frac{1}{8}$ " ch. hd. M.S.	23	AL	PS. 2075-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	65	Y
		25	AL			13	AK
PS. 2029-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	25	L			16	U
		33	AK			16	BW
		49	W	PS. 2077-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	17	CL
		18	U			27	BN
		33	AF			29	DA
PS. 2042-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	35	M			33	D
		39	BY			57	BM
		41	O	PS. 2079-1	Std. 6BA x $\frac{1}{16}$ " c/sk. hd. M.S.	14	AO
		43	AD			16	BV
		58	CZ	PS. 2091-1	Std. 6BA x $\frac{1}{16}$ " c/sk. hd. M.S.	31	W
						33	H
						34	B
						37	J
						65	AG

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PS. NUMBERS (SCREWS) contd.											
PS. 2093-1	Std. 6BA x $\frac{1}{8}$ " ch. hd. M.S.	{ 34 39 59 64 59	D BR R AD B	PS. 5264A	Special 4BA x $\frac{9}{32}$ " ch. hd. M.S.	{ 26 29	AV CR				
PS. 2095-1	Std. 6BA x $\frac{1}{8}$ " c/sk. hd. M.S.	15	AY	PS. 5301	Special 6BA x $\frac{1}{2}$ " Fil. hd. M.S.	{ 60	AA				
PS. 2097-1	Std. 6BA x $\frac{1}{8}$ " rd. hd. M.S.	19	E	PS. 5357	Std. 4BA x $2\frac{5}{16}$ " ch. hd. M.S.	{ 17	BY				
PS. 2109-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	{ 29 49 59	AG2 CV AP	PS. 5541	Special 6BA x $\frac{7}{16}$ " rd. hd. M.S.	{ 33	AM				
PS. 2122-1	Std. 6BA x $\frac{15}{32}$ " ch. hd. M.S.	{ 63 47 57	AG L AA CF	PS. 5544A	Special 6BA x $\frac{5}{16}$ " S.S. shouldered screw	{ 58 59	CW T				
PS. 2125-1	Std. 6BA x $\frac{1}{2}$ " ch. hd. M.S.	{ 58 59 60 70	CN P AO AJ	PS. 5550	Special 2BA x $1\frac{1}{2}$ " M.S. Shouldered screw	{ 13	AH				
PS. 2126-15	Std. 6BA x $\frac{1}{2}$ " ch. hd. Br.	15	BE	PS. 5552	Special 2BA x $\frac{3}{4}$ " M.S. Shouldered screw	{ 13	J				
PS. 2127-1	Std. 6BA x $\frac{1}{2}$ " c/sk. hd. M.S.	{ 69	K	PS. 5591	Latch pivot screw	{ 39	AS				
PS. 2141-1	Std. 6BA x $\frac{1}{16}$ " ch. hd. M.S.	{ 64 70 71	AA AG O	PS. 5594	Shouldered screw 4BA x $\frac{1}{4}$ " M.S.	{ 26	AZ				
PS. 2143-1	Std. 6BA x $\frac{1}{16}$ " c/sk. hd. M.S.	{ 23 29 39	AU EB BD	PS. 5629	Shouldered screw 8BA x $\frac{3}{32}$ " M.S.	{ 69	G				
PS. 2157-1	Std. 6BA x $\frac{5}{16}$ " ch. hd. M.S.	{ 13	AF	PS. 5636A	Shouldered screw 6BA x $\frac{11}{32}$ " M.S.	{ 57	CJ				
PS. 2159-1	Std. 6BA x $\frac{5}{16}$ " c/sk. hd. M.S.	{ 15 18	AY P	PS. 5637	Eccentric screw 6BA x $\frac{1}{16}$ " M.S.	{ 58	CX				
PS. 2173-1	Std. 6BA x $\frac{11}{32}$ " ch. hd. M.S.	{ 43 51 64	AB AB AS	PS. 5640	Special screw 6BA x $\frac{1}{4}$ " M.S.	{ 58	CX				
PS. 2189-1	Std. 6BA x $\frac{3}{4}$ " ch. hd. M.S.	15	BL	PS. 5705	Special screw 6BA x $\frac{1}{16}$ " M.S.	{ 67	E				
PS. 2205-1	Std. 6BA x $\frac{13}{32}$ " ch. hd. M.S.	18	C	PS. 5710	Special screw 6BA x $\frac{3}{4}$ " cap. rd. screw M.S.	{ 55	P5				
PS. 2221-1	Std. 6BA x $\frac{7}{16}$ " ch. hd. M.S.	55	X	PS. 5716	Special screw 6BA x $\frac{13}{32}$ " cap. rd. screw M.S.	{ 55	S				
PS. 2253-1	Std. 6BA x 1" ch. hd. M.S.	{ 17 55 64	CD X T	PS. 5718	Special screw 6BA x $\frac{1}{16}$ " cap. hd. screw M.S.	{ 55	T				
PS. 2430-1	Std. 8BA x $\frac{1}{8}$ " ch. hd. M.S.	{ 58 64 65	CV Q AS	PS. 5721A	Special screw 6BA x $\frac{5}{16}$ " ch. hd. S.S.	{ 55	O3				
PS. 2432-1	Std. 8BA x $\frac{1}{8}$ " c/sk. hd. M.S.	67	Y	PS. 6097	Special screw 6BA x $\frac{35}{32}$ " ch. hd. M.S.	{ 55	P3				
PS. 2440-1	Std. 8BA x $\frac{1}{8}$ " grub M.S.	63	G	PS. 6105	Special screw 6BA x $\frac{11}{32}$ " ch. hd. M.S.	{ 18	G				
PS. 2443-1	Std. 8BA x $\frac{3}{32}$ " ch. hd. M.S.	{ 31 31 35 65 67	AO AX Q AG L	PS. 6106	Special screw 10BA x $\frac{1}{16}$ " ch. hd. M.S.	{ 63	G				
PS. 2445-1	Std. 8BA x $\frac{1}{16}$ " ch. hd. M.S.	{ 45 57	CF CJ	PS. 6207	Special screw 4BA x $\frac{7}{16}$ " knurled hd. Br.	{ 64	Z				
PS. 2447-1	Std. 8BA x $\frac{1}{16}$ " c/sk. hd. M.S.	63	E	PS. 6898	Shouldered screw 6BA x $\frac{1}{16}$ " ch. hd. M.S.	{ 9	G				
PS. 2462-1	Std. 8BA x $\frac{1}{4}$ " ch. hd. M.S.	64	S	PS. 7022	Shouldered screw 4BA cap. hd. M.S.	{ 33	T				
PS. 2476-1	Std. 8BA x $\frac{1}{4}$ " cap. hd. N.S.	67	AA	PS. 7034	Shouldered screw 6BA x $\frac{1}{16}$ " ch. hd. M.S.	{ 57	AU				
PS. 2477-1	Std. 8BA x $\frac{3}{16}$ " c/sk. hd. M.S.	{ 58 65	CX AU	PS. 7047	Special 8BA x $\frac{1}{2}$ " ch. hd. M.S.	{ 18	N				
PS. 2494-1	Std. 8BA x $\frac{3}{8}$ " ch. hd. M.S.	69	AA	PS. 7073	M.S.	{ 31	AE				
PS. 2541-1	Std. 8BA x $\frac{1}{16}$ " ch. hd. M.S.	63	B	PS. 7074	Special 6BA x $\frac{13}{32}$ " ch. hd. M.S.	{ 35	T				
PS. 2847-1	Std. 10BA x $\frac{1}{4}$ " ch. hd. M.S.	63	M	PW. NUMBERS (WASHERS)							
PS. 4583-1	Std. $\frac{1}{8}$ " 22 T.P.I. B.S.F. x $\frac{3}{4}$ " ch. hd. M.S.	{ 7 9	B C B C	PW. 1003-1	Std. 1BA M.S.	{ 15	AY				
PS. 5234	Special 2BA x $\frac{1}{2}$ " ch. hd. M.S.	{ 23 25	K K	PW. 1005-1	Std. 2BA M.S.	{ 25	AK				
				PW. 1009-1	Std. 4BA M.S.	{ 15	BC				
					(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				

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PW. NUMBERS (WASHERS) contd.											
PW.2037	Std. 6BA spring washer . . . (contd.)	47	L	PW.5143	Special washer $\frac{1}{8}$ " I.D. C.S. . . .	{ 47 49	U AJ				
		47	AB	PW.5190	Special washer $\frac{7}{16}$ " I.D. M.S. . . .	35	T				
		47	AG	PW.5199	Special washer $\frac{3}{16}$ " I.D. spring steel	55	L				
		49	AQ	PW.5213	Special washer $\frac{1}{8}$ " I.D. M.S. . . .	55	AC				
		51	N	PW.5216	Special washer $\frac{1}{4}$ " I.D. Paper	27	BC				
		55	O3		C.S.	19	F				
		55	P3	PW.5224	Special washer $\frac{15}{32}$ " O.D. M.S. . . .	{ 43 51	BB J				
		55	Y	PW.5226	Special washer $\frac{1}{4}$ " I.D. M.S. . . .	{ 55 45	W5 CR				
		55	AF	PW.5227	Clutch shim $\frac{13}{64}$ " I.D. spring steel	{ 39 43	M AY BB				
		56	AM	PW.5232	Special washer $\frac{5}{16}$ " O.D. S.S. . . .	65	AG				
		58	CX	PW.5241	Special washer $\frac{11}{32}$ " I.D. M.S. . . .	45	BX W3				
		60	X	PW.5256	Special washer $\frac{1}{4}$ " I.D. M.S. . . .	55	BX F				
		60	AG	PW.5262	Special washer $\frac{1}{8}$ " I.D. M.S. . . .	51					
		63	L	PW.5276	Special washer .113 I.D. M.S. . . .	71	O				
		65	AG	PW.5277	Special washer $\frac{13}{32}$ " O.D. S.S. . . .	37	AG				
		65	AP	PW.5327	Friction washer $\frac{5}{32}$ " O.D. piano wire	31	AO AP				
		69	B	PW.5403	Special washer $\frac{1}{4}$ " I.D. M.S. . . .	31					
		69	AF	PW.5480	Special washer $\frac{5}{32}$ " O.D. (oil impregnated)	{ 37 41	A A				
PW.2038	Std. 6BA spring washer . . .	57	D	PW.5491	Shim washer $\frac{3}{32}$ " I.D. spring steel	39	BL				
PW.2049	Std. 8BA spring washer . . .	69	BL	PW.5506	Special washer $\frac{9}{32}$ " I.D. M.S. . . .	14	AQ				
PW.2050	Std. 8BA spring washer . . .	47	AN	PW.5507	Special washer $\frac{1}{8}$ " I.D. spring steel	57	BF				
		58	G	PW.5508	Special washer $\frac{1}{8}$ " I.D. spring steel	57	BG				
		58	AE	PW.5529	Spacing washer .113 I.D. M.S. . . .	27	BN				
		69	T	PW.5547	Special spring washer $\frac{1}{8}$ " I.D. C.S. . . .	18	M				
		69	AT	PW.5556	Special washer $\frac{3}{32}$ " I.D. spring steel	39	AR				
PW.3061	Std. $\frac{5}{16}$ " M.S. . . .	7	C	PW.5557	Special washer $\frac{5}{32}$ " I.D. M.S. . . .	{ 23 25	C C				
PW.4002	Std. $\frac{1}{8}$ " Ph. Br. Spring washer . . .	9	C	PW.5573	Special washer $\frac{7}{16}$ " I.D. M.S. . . .	18	K				
PW.4016	Std. $\frac{5}{16}$ " M.S. double coil spring washer . . .	13	D	PW.5617	Selector lever spacer $\frac{3}{32}$ " I.D. M.S. . . .	39	BK				
PW.4031	Std. $\frac{5}{16}$ " M.S. single coil spring washer . . .	7	H	PW.5619	Connecting lever spacer $\frac{1}{8}$ " I.D. spring steel	{ 31 35	P N				
PW.5005	Special washer $\frac{1}{4}$ " I.D. Br. . .	67	AJ	PW.5620	Eccentric abutment washer $\frac{3}{16}$ " I.D. M.S. . . .	{ 23 25	D D				
PW.5008	Special washer $\frac{1}{4}$ " I.D. M.S. . . .	69	AF	PW.5632	Spacing collar $\frac{3}{8}$ " I.D. M.S. . . .	60	AF				
PW.5042	Special washer $\frac{1}{8}$ " I.D. spring steel . . .	69	U	PW.5633	Special washer $\frac{1}{8}$ " I.D. M.S. . . .	63	M				
PW.5045	Special washer $\frac{1}{32}$ " I.D. M.S. . . .	33	AN	PW.5649	Special washer $\frac{5}{32}$ " I.D. M.S. . . .	58	CX				
PW.5046	Special washer $\frac{1}{32}$ " I.D. C.S. . . .	71	E	PW.5654	Special washer $\frac{1}{16}$ " I.D. M.S. . . .	45	BL				
PW.5053	Special washer $\frac{1}{16}$ " I.D. M.S. . . .	70	AS	RL. NUMBERS (ROLLERS)							
PW.5060	Special washer .113 I.D. C.S. . . .	23	AK	RL.1006A	Roller	67	W				
PW.5092	Special washer $\frac{1}{16}$ " I.D. M.S. . . .	23	R	RL.1017	Roller	70	AM				
		25	X	RL.1048	Roller	34	B				
		25	AB	RL.1049	Roller	57	BO				
PW.5114	Special washer $\frac{1}{16}$ " I.D. M.S. . . .	33	U	RL.1051A	Roller	57	BW				
PW.5125	Special washer $\frac{1}{16}$ " I.D. M.S. . . .	69	AA	RL.1052A	Roller	57	AW				
		23	Q	RL.1060	Roller	41	Q2				
		25	V	RL.1071	Roller	70	AR				
		25		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				