

PART LIST No. 1016
(Reprint of 3rd Edition)



THE MORSE KEYBOARD PERFORATOR

MODEL 9

Printing Telegraph Apparatus

1st Edition Printed Feb., 1941
2nd Edition Printed Sept., 1944
3rd Edition Printed Feb., 1948
Reprint of 3rd Edition Printed Aug., 1951

THE MORSE KEYBOARD PERFORATOR

MODEL 9

Creed & Company Limited

TELEGRAPH HOUSE
CROYDON

Telegrams: "CREDO, TELEX, CROYDON"

Cables: "CREDO, CROYDON"

Telephone: CROYDON 2121 (10 lines)

Telex: CROYDON, TELEX 1082

CONTENTS

	<i>PAGE</i>
INTRODUCTION AND ORDERING INSTRUCTIONS	3
MORSE KEYBOARD PERFORATOR, MODEL 9	5
PERFORATOR SUB-ASSEMBLY, 860/200B	7
MAIN FRAME C.P., 860/49B	8
OPERATING HEAD C.P., 860/171J	11
SPACE STOP BRACKET C.P., 860/91F	12
PUNCHING HEAD C.P., 860/149E	13
FRONT BRACKET C.P., 860/78A	14
BASE FOOT (L.H.) C.P., 860/410B	15
TAPE WHEEL AND MESSAGE RACK C.P., 860/421B ...	17
END-OF-LINE INDICATOR, V.289	19
TOOLS AND ACCESSORIES	21
NUMERICAL INDEX	22

INTRODUCTION AND ORDERING INSTRUCTIONS

THIS Part List has been compiled to assist our customers in identifying and ordering spare parts for the Creed Morse Keyboard Perforator Model 9.

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.*
-

INTRODUCTION ET INSTRUCTIONS POUR COMMANDES

CETTE liste a été complétée pour aider nos clients à identifier les différentes pièces concernant une commande des pièces de rechange. Elle comprend toutes les parties pour le Creed Morse Perforateur à Clavier Modèle 9.

En ce qui concerne ce catalogue il faut noter que les lettres "C.P." suivant la désignation d'une pièce, indiquent un ensemble composé de 2 ou plusieurs pièces plus petites. L'expression "unit" signifie une section bien définie, de l'appareil, montée séparément et pouvant facilement en être retirée.

Remarque :—Pour commander une pièce de rechange, les informations suivantes doivent être données :—

1. La désignation de la pièce de rechange.
 2. Le numéro correspondant.
 3. Le modèle de la machine
 4. Le numéro de série } comme indiqué sur la plaquette de la machine.
-

EINLEITUNG UND BESTELLUNGS —BEDINGUNGEN

DIESE Liste wurde hergestellt um unseren Kunden die Feststellung der Ersatzteile bei Bestellungen zu erleichtern. Sie enthält vollständigen Ausweis aller Apparateile, die in der Herstellung von Creed Morse Handlocher Type 9 Vorkommen.

In Hinwies auf diese Liste ist es zu beachten, dass die Buchstaben "C.P." einen gesamten Bestandteil des Apparates bezeichnen, der aus zwei oder mehreren kleineren Einzelteilen zusammengesetzt ist.

Die Bezeichnung "unit" entspricht einem selbstständigen Organ des Apparates, der auf einer besonderen Grundplatte montiert ist und als Ganzes aus der Maschine herausgenommen werden kann.

Anweisung :—Bei Bestellung der Ersatzteile sollen nachstehende Angaben gegeben werden :—

1. Die Bezeichnung des Ersatzteiles.
2. Die Betreffende Nummer.
3. Die Maschinen-Type
4. Die Serien-Nummer der Maschine } wie auf der Namenplatte angegeben.

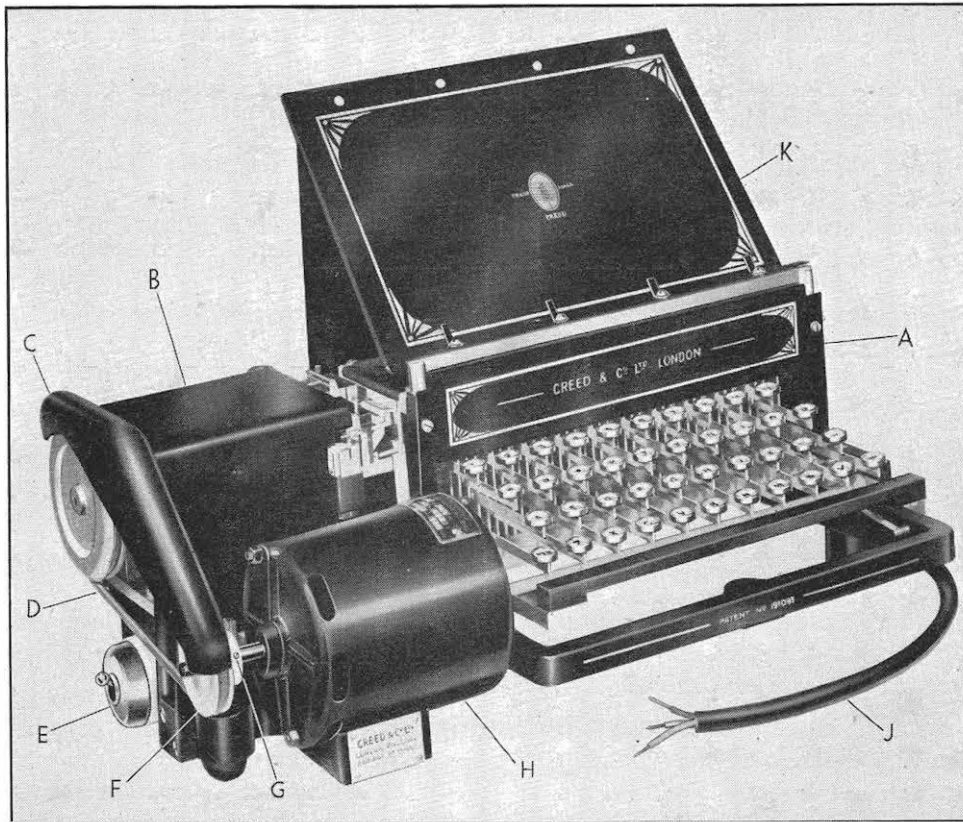


FIG. 1. MORSE KEYBOARD PERFORATOR MODEL 9

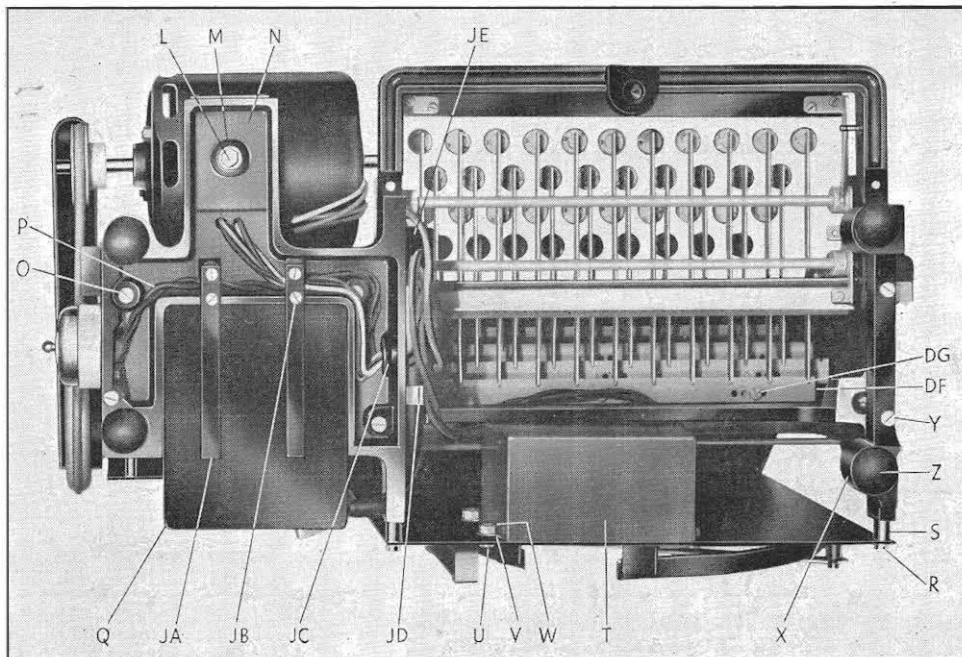


FIG. 2. MORSE KEYBOARD PERFORATOR MODEL 9 (UNDERSIDE VIEW)

Design Changes not shown in Fig. 2.

1. Capacitor (T) has been secured to the Main frame casting instead of to the Tape plate.
2. The mounting and wiring of the Terminal Strip (JE) has been modified.
3. The Rubber Feet (Z) have been secured by screws.
4. Tumbler Switch (E) replaced by Toggle Switch.

MORSE KEYBOARD PERFORATOR MODEL 9

(See Figs. 1 and 2)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
A	860/200B	PERFORATOR SUB-ASSEMBLY.	<i>See Page 7.</i>
B	860/402A	Operating Head Cover.	
C	860/415A	Belt guard.	
	PS.1332-1	Std. 2BA screw (2 per set) for securing belt guard.	
D	860/583A	Motor belt and fastener C.P.	
E		TOGGLE SWITCH.	<i>See Page 15.</i>
F	860/592	Motor pulley ($1\frac{33}{64}$ " outside dia.) for 60 cycle A.C. motor.	
	860/590	Motor pulley ($1\frac{13}{16}$ " outside dia.) for 50 cycle A.C. motor.	
	860/591	Motor pulley ($2\frac{15}{64}$ " outside dia.) for 40 cycle A.C. motor.	
		*Motor pulley for D.C. motor.	
G	PS.1307-1	Std. 2BA grub screw (for motor pulley).	
H	860/557A	*Motor, D.C. (state voltage).	
	860/587	or Motor, A.C. (state voltage and frequency).	
J		MOTOR CABLE.	<i>See Page 15.</i>
K	860/421B	TAPE WHEEL AND MESSAGE RACK C.P.	<i>See Page 17.</i>
L	PS.1052-1	Std. 0BA screw	} for securing motor.
M	PW.1001-1	Std. 0BA washer	
N	860/410B	BASE FOOT (L.H.) C.P.	<i>See Page 15.</i>
O	PS.1374-1	Std. 2BA screw (4 per set) for securing base foot L.H.	
P		SWITCH CONNECTOR.	<i>See Page 15.</i>
Q	860/387	Cuttings drawer.	
R	PS.1310-1	Std. 2BA screw (2 per set).	
S	PB.1244	Spacing collar (replaced by longer lug on casting on 1944 design machines).	
T	BO.1808A	Capacitor 10 μ F for 110v. ranges	} For A.C. motors only. N.B. Capacitors are now secured to main frame casting and not to tape plate as shown in Fig. 2.
	BO.1809A	Capacitor 2.5 μ F for 220v. ranges	
U	PS.1310-1	Std. 2BA screw (2 per set)	
V	PW.1005-1	Std. 2BA washer	
W		This nut is not used. <i>See Note 1, Page 4</i>	
X	860/728	Base foot (R.H.) C.P. (includes screwed-on pattern rubber feet).	
Y	PS.1374-1	Std. 2BA screw (2 per set).	
Z	RB.1020	Rubber foot (screwed on pattern).	
	PS.1332-1	Std. 2BA screw	} For securing screwed-on pattern rubber foot.
	PW.1005-1	Std. 2BA washer	
	PB.1007	Collar	
	V.289	END OF LINE INDICATOR AND ASSOCIATED PARTS FOR PERFORATORS OPERATING IN CONJUNCTION WITH MORSE PAGE PRINTERS.	<i>See Page 19.</i>

*On account of slight differences of speed between D.C. motors, their nameplates are stamped Ref. 3A, 3B, or 3C and a choice of three sizes of pulley, correspondingly marked A, B, or C are available in order to obtain the standard camshaft speed. Spare motors are therefore normally supplied with a suitable pulley and grub screw.

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

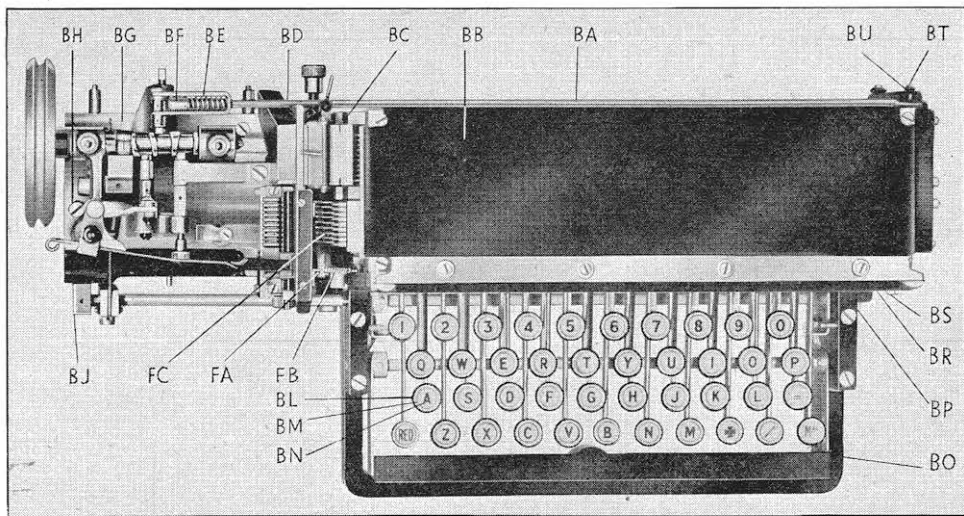


FIG. 3. PERFORATOR SUB-ASSEMBLY 860/200B

PERFORATOR SUB-ASSEMBLY 860/200B

(See Fig. 3)

NOTE: Perforator sub-assembly 860/200B is not normally supplied as a spare part, but only its components.

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
BA	860/49B	MAIN FRAME C.P.	<i>See Page 8.</i>
BB	860/174B	Top cover (<i>for machines without counter</i>).	
	2084/156	Top cover (<i>for machines with counter</i>).	
BC	860/177	Punch withdrawing plate (<i>this forms part of punching head C.P., item EA, see page 11</i>).	
BD	860/178	Returning bar link.	
BE	PG.5017	Compression spring.	
BF	860/181	Returning bar adjustment nut.	
BG	860/171J	OPERATING HEAD C.P.	<i>See Page 11.</i>
BH	PS.1354-1	Std. 2BA screw	} <i>for securing item BG.</i>
	PW.4016	Std. $\frac{3}{16}$ " double coil spring washer	
	PW.5029	Special washer	
BJ	860/187A	Trip rod bearing (L.H.).	
	PS.1374-1	Std. 2BA screw	} <i>for securing item BJ.</i>
BK	KY.1008	Key, $\frac{3}{8}$ " long	
BL	860/184	Key button cap	} <i>41 to 43 of each per set. State key characters when ordering key labels.</i>
BM	860/185	Key button glass	
BN	PL.1402	Key label	
	PW.5216	Special paper washer	
BO	860/78A	FRONT BRACKET C.P.	<i>See Page 14.</i>
BP	PS.1074-1	Std. 0BA screw (<i>2 per set</i>)	} <i>for securing item BO.</i>
BQ	KY.1007	Key, 1" long (<i>2 per set</i>) <i>See Fig. 4</i>	
BR	860/176	Selector bar spring guard.	
BS	PS.1659-1	Std. 4BA screw (<i>2 per set</i>) <i>for securing item BR.</i>	
BT	860/741	Pivot pin ($\frac{1}{8}$ " dia., $1\frac{1}{2}$ " long)	} <i>for item BD.</i>
BU	CS.1023	Set collar and screw	

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

Design Changes not shown in Fig. 4.

1. The Key (BI) has been replaced by two steady pins fitted on assembly.
2. In order to give increased bearing width, the Returning bar and its Bracket have been modified thus :
 Pivot (CD) and Locking rings (CE) have been replaced by two Parallel pins (PP1201) projecting from the two outer faces of the Returning bar (CCA),
 Part CB has been replaced by two separate Bearing blocks (860/697) screwed to a Bracket (860/694) which, in turn, is screwed to the Main Frame.

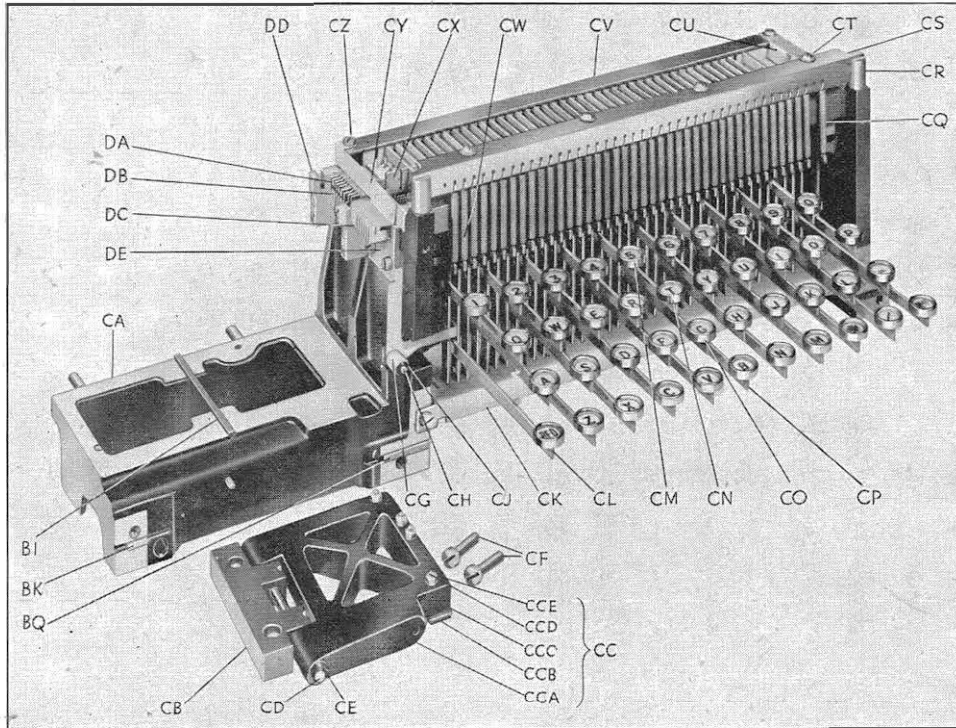


FIG. 4. MAIN FRAME C.P. 860/49B

MAIN FRAME C.P. 860/49B

(See Fig. 4)

NOTE : Main frame C.P. 860/49B is not normally supplied as a spare part but only its components.

Index Letter	Part No.	Part Name
CA	860/727	Main frame casting C.P. (comprises machined casting and all pins driven in).
CB	860/697	Returning bar bearing block C.P. (2 per set) replaces part illustrated.
	860/694	Returning bar bracket
CC	PS.1332-1	Std. 2BA screw (2 per set) for securing item CB to 860/694 } Not illustrated.
	860/25F	
CCA	860/23F	Returning bar C.P. comprises :-
	PP.1201	Returning bar.
CCB	860/24C	Parallel pin (2 per set) driven into item CCA and replaces item CD.
	860/370B	Returning bar face plate (long).
CCC	860/506	Returning bar buffer (long).
	860/507	Returning bar face plate (short).
	860/507	Returning bar buffer (short).
	860/698	Shim, 0.005" thick (fitted when required below 860/506 Returning bar face-plate, short)
CCD	PS.6824	Special 6BA screw (4 per set) } for securing face plates and buffers.
CCE	PN.1013-1		Std. 6BA nut (4 per set)

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
CD		See PP.1201 following <i>Item CCA</i> .
CE		Not used with new method of pivoting CB and CC.
CF	PS.1374-1	Std. 2BA screw (2 per set) for securing 860 /694 to main frame (see item CB).
CG	860 /28	Combination lever C.P.
CH	860 /41A	Combination lever pivot.
CJ	23956A	Locking ring ($\frac{1}{8}$ " bore).
CK	860 /4B	Bottom selector bar guide.
	PS.1687-1	Std. 4BA screw (2 per set) for securing item CK.
CL	860 /22D or 860 /528A or 860 /529A	Combination selector bar C.P. (<i>Specify Machine Serial No.</i>).
CM	860 /17B	
CN	860 /18B	Selector bar (top row) C.P. } Normally 10 of each
CO	860 /19B	Selector bar (second row) C.P. } per row.
CP	860 /20B	Selector bar (third row) C.P. } In some cases 9 or 11
	2084 /142	Selector bar (fourth row) C.P. } per row are used.
	2084 /140	Car. ret. selector bar (top row) C.P. } Only required
	860 /712	or Car. ret. selector bar (third row) C.P. } when counter is fitted.
		Set of selector bars C.P. (<i>complete set including key button caps, glasses and labels.—Specify serial number of machine.</i>)
CQ	PG.7077	Tension spring (43 per set).
CR	860 /38B	Selector bar spring pillar (2 per set).
CS	860 /37E	Selector bar spring support.
CT	PS.5367	Special 4BA screw (2 per set) for fixing item LJ.
CU	860 /428	Comb bar stop plate.
	PS.1694-1	Std. 4BA screw (2 per set) for securing item CU.
CV	860 /39B	Selector bar guide plate (2 per set).
CW	PG.7079	Tension spring (<i>for item CL only</i>).
CX	860 /36A	Selector bar rack (3 per set).
CY	860 /354	Comb retaining plate C.P.
CZ	PS.1694-1	Std. 4BA screw (2 per set).
DA	860 /30B	Comb bar (<i>odd numbers 1 to 19 for upper punches</i>)
DB	860 /31B	Comb bar (<i>even numbers 2 to 20 for lower punches</i>)
DC	860 /32B	Space stop bar (9 or 10 per set as required)
	PG.7051	Tension spring (9 or 10 per set as required) for space stop bars.
	PP.6515	Parallel pin (<i>spring anchor pin for space stop bars</i>).
	860 /566	Comb bar support (R.H.) C.P.
	860 /42B	Comb bar support (L.H.).
	PS.1710-1	Std. 4BA screw (4 per set) for securing comb bar supports.
DD	860 /44B	Withdrawing bar bracket (2 per set).
	PS.1795-1	Std. 4BA screw (4 per set) for securing item DD.
DE	860 /40	Space and comb bar rack (2 per set).
	PS.1694-1	Std. 4BA screw (4 per set) for securing item DE.
DF	860 /46A	Keybar rack (4 per set) standard
	860 /514	or Keybar rack
	860 /515	or Keybar rack
	860 /516	or Keybar rack
DG	PS.1687-1	Std. 4BA screw (12 per set) for securing item DF

Order keybutton caps, glasses, and labels separately (see index BL, BM, BN. Fig. 3)

State markings stamped on bars or serial No. of machine.

See Fig. 2

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

OPERATING HEAD C.P. 860/171J

(See Figs. 5 and 6)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
EA	860/149E	PUNCHING HEAD C.P.	<i>See Page 13.</i>
EB	860/91F	SPACE STOP BRACKET C.P.	<i>See Page 12.</i>
EC	860/668	Operating head base C.P., includes items EP, EQ, ER and :—	
ECA	860/119B	Spacing lever pivot.	
ECB	860/120A	Pawl abutment pivot.	
ECC	PP.6005	Spring anchor pin (2 per set) spring anchor and stop pin for item FO.	
ECD	860/35	Spring anchor pin (for item KL).	
ECE	PF.1066	Felt plug (2 per set).	
ECF	PB.1115A	Parallel bush (for punch block end of item EDC).	
ED	860/130B	Driving spindle C.P., comprises :—	
EDA	860/128B	Fly-wheel.	
EDB	PB.1253	Shouldered bush.	
EDC	860/127B	Driving spindle.	
EE	PW.5140	Special washer, 0-316" I.D.	} for retaining item EDC.
EF	23916	Split ring (for $\frac{5}{16}$ " dia. pin)	
EG	860/342A	Cuttings guide C.P.	
EH	PS.1717-1	Std. 4BA screw (for securing item EG).	
EI	23956A	Locking ring, ($\frac{1}{8}$ " bore) for item ECB.	
EJ	23958A	Locking ring, ($\frac{3}{16}$ " bore) for item ECA.	
EK	PN.1013-1	Std. 6BA nut (3 per set)	} For horizontal adjustment of space stop bracket C.P., item EB.
EL	PW.1037-1	Std. 6BA washer	
EM	PG.5016	Compression spring	
EN	PW.1013-1	Std. 6BA washer	
EO	PS.2274-1	Std. 6BA screw.	} For endways adjustment of space stop bracket C.P., item EB.
EP	PN.1509-1	Std. 4BA nut	
EQ	PW.2026	Std. 4BA spring washer	
ER	PS.1736-1	Std. 4BA screw	
ES	RL.1020	Cam roller (for punch block).	
ET	860/312B	Punch block link "B".	
EU	860/677A	Punch block pivot pin "B".	
EV	860/100B	Spacing cam lever C.P., includes :—	
EVA	860/99A	Cam roller pin.	
EW	RL.1020	Cam roller	} for item EV.
EX	PP.1159	Parallel pin ($\frac{5}{8}$ " long)	
EY	860/677A	Parallel pin ($2\frac{13}{16}$ " long)	
EZ	23957A	Locking ring, ($\frac{5}{32}$ " bore) 2 per set	
FA	860/90B	Combination stop	} These items form part of Perforator sub-Assembly, item A.
FB	PG.7051	Tension spring (for combination stop)	
FC	860/89A	Space stop (9 or 10 per set as required)	} for space stop bracket, item EB. (See Note 3.)
FD	860/675A	Hinge pin, ($\frac{3}{16}$ " dia.)	
FE	860/735	Adjustment spring (space stop)	
FF	860/676A	Hinge pin ($\frac{7}{32}$ " dia.) for punch block	
FG	860/106C	Returning bar cam lever C.P., comprises :—	
FGA	860/104C	Returning bar cam lever.	
FGB	860/103B	Returning bar shackle C.P.	
FGC	PS.6411	Special pip end screw.	
FGD	PN.6006	Special nut (2 per set).	
FH	860/108C	Returning bar cam lever pivot.	
FI	RL.1020	Cam roller (for item FG).	
FJ	860/547	Spacing lever link and bellcrank C.P., comprises :—	
FJA	860/155A	Spacing lever bellcrank.	
FJB	PP.7516	Shouldered pin.	
FJC	PW.5092	Special washer.	
FJD	860/159A	Spacing lever link.	
FJE	PB.1116	Collar.	
FJF	23957A	Locking ring ($\frac{5}{32}$ " bore).	
FK	860/361A	Spacing lever blade C.P.	
FL	PG.3034	Torsion spring (for spacing lever blade).	

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
FM	PW.5180	Special washer (2 per set) cam thrust washer.
FN	860/117	Cam C.P., comprises :—
FNA	860/114A	Cam.
FNB	PG.3022B	Pawl spring C.P.
FNC	860/115F	Pawl (2 per set).
FND	1650/307	Pawl distance piece.
FNE	PP.6669	Pawl pin.
FO	860/94A	NOTE :—860/750 Cam Sub C.P. comprises items FNA and FNE. Pawl abutment C.P.
FP	PG.7078	Tension spring (for item FO).
FQ	860/153F	Feed rake.
FR	860/154C	Trunnion.

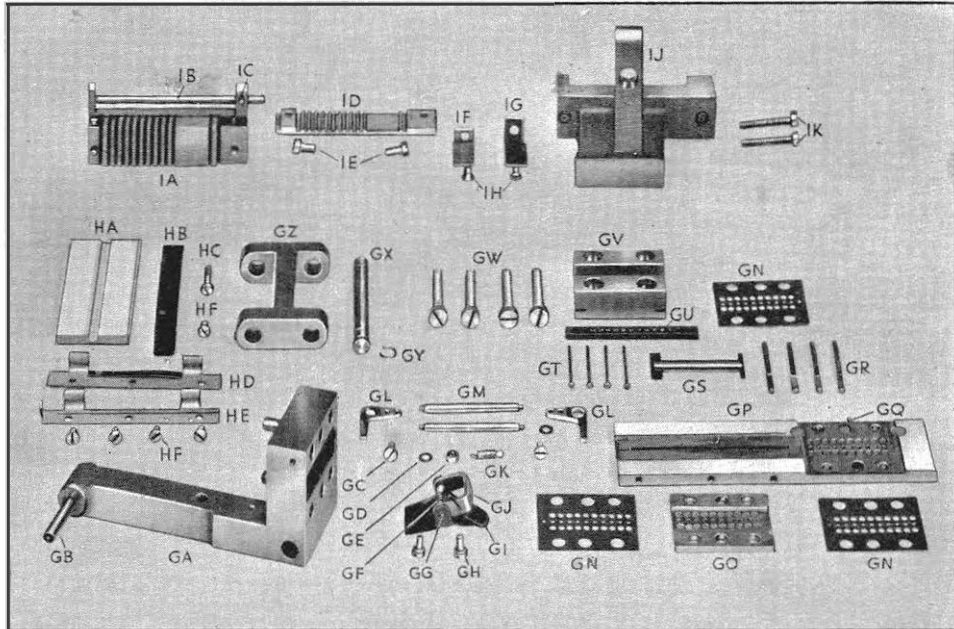


FIG. 7. SPACE STOP BRACKET C.P. 860/91F and PUNCHING HEAD C.P. 860/149E COMPONENTS.

SPACE STOP BRACKET C.P. 860/91F

(See Fig. 7)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name.</i>
		Space stop rack C.P., comprises :—
IA	860/433B	Space stop rack.
IB	860/81D	Trunnion block guide pin.
IC	860/345A	Trunnion block guide pin cotter.
ID	860/510	Space stop rack plate.
IE	860/429	Std. 6BA screw (2 per set) to secure item ID.
IF	PS.2061-1	Spacing rack stop (rear).
IG	860/678	Spacing rack stop (front).
IH	860/679	Std. 6BA screw (2 per set) to secure items IF and IG.
IJ	PS.2047-1	Space stop bracket sub. C.P. (comprises bracket, assembled with four steady pins).
IK	860/686	Std. 6BA screw (2 per set) to secure item IA.
	860/680	Shim 'A' (0.002" thick)
	860/681	Shim 'B' (0.003" thick)
	860/682	Shim 'C' (0.005" thick)
		} Not illustrated—fitted as required between IA and IJ.

Design Changes not shown in Fig. 7.

- Spacing rack stops (IF) and (IG) have been made as self locating flat plates, interchangeable with the former design. They are not bent at right-angles nor secured by screws (IH) as shown in Fig. 7.
- Space stop rack (IA) has been steady-pinned to space stop bracket (IJ).

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

PUNCHING HEAD C.P. 860/149E

(See Fig. 7)

N.B.—The punching head C.P. or its components are normally supplied for use with 0.475" (12mm.) wide tape. If specially required for use with 0.375" (9.5mm.) wide tape, please specify this when ordering.

Index

Letter	Part No.	Part Name
GA	860/669	Punch block sub. C.P., includes steady pins and :—
GB	PP.1169	Parallel pin (punch block cam roller pin).
GC	PS.2445-1	Std. 8BA screw (2 per set)
GD	PW.1018-1	Std. 8BA washer (2 per set)
GE	PB.1005	Collar (2 per set)
GF	PG.3032	Torsion spring (for item GI).
GG	860/372	Tape retention pawl pin.
GH	PS.2430-1	Std. 8BA screw (2 per set) to secure item GJ.
GI	860/131B	Tape retention pawl.
GJ	860/314	Tape retention pawl bracket.
GK	PG.7080	Tension spring (for item GL).
GL	860/313	Tape bellcrank (2 per set).
GM	PP.8566	Flanged pin (2 per set).
GN	860/141A	† Dies, 3 per set (two 0.010", one 0.015" thick).
GO	860/143C	Punch block distance piece (standard).
	860/574	or Punch block distance piece (for 0.375" wide tape).
GP, GQ	860/714	Die back plate and stud C.P. (standard).
	860/573	or Die back plate (for 0.375" wide tape)
	860/93	Tape bellcrank spring stud } fitted.
GR	860/138A	† Message hole punch (20 per set).
GS	860/73	Punch retaining plate.
GT	860/139	† Centre hole punch (11 per set).
GU	860/140	Centre hole punch holder.
GV	2501/5	Punch support (top).
	860/144A	Punch support (bottom).
GW	PS.1793-1	Std. 4BA screw (4 per set).
GX	860/311C	Punch block link pin.
GY	23912	Split ring (for $\frac{3}{16}$ " dia. pin) 2 per set.
GZ	860/310A	Punch block link "A".
	860/690	Die back-plate C.P. (state whether for 0.475" or 0.375" wide tape) comprises GP, GQ assembled with the following :—
HA	860/148C	Paperguide (plastic).
HB	860/367A	Paper guide retaining clip.
HC	PS.2536-1	Std. 8BA screw (stop screw for item HB).
HD	860/366	Paper guide clip C.P. (top).
HE	860/147B	Paper guide clip (bottom).
HF	PS.2430-1	Std. 8BA screw (5 per set) for securing items HB, HD, HE.

†NOTE.

860/667 Set of punches and dies (comprises GN, GR and GT).

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

Design Changes not shown in Fig. 8.

1. The space-bar (KBF) has been moulded and is secured by a single screw at each end. The two packing pieces (KBG) become unnecessary.
2. To facilitate adjustment, the Trip lever (KHB) has been modified and a new part, which is not shown in Fig. 8, has been added. The new part is coded "Trip lever adjusting block C.P.860/705" and is clamped on the Trip bar to the right of the Trip lever.

Orders for old type Trip lever (KHB) or old type Trip lever and link C.P. 860/53B (KH) will be satisfied by Trip lever, link and adjusting block C.P. 860/729.

This comprises :-

Trip lever and link C.P. (new design)	860/53C	} Wired together.
Trip lever adjusting block C.P. (new part)	860/705	

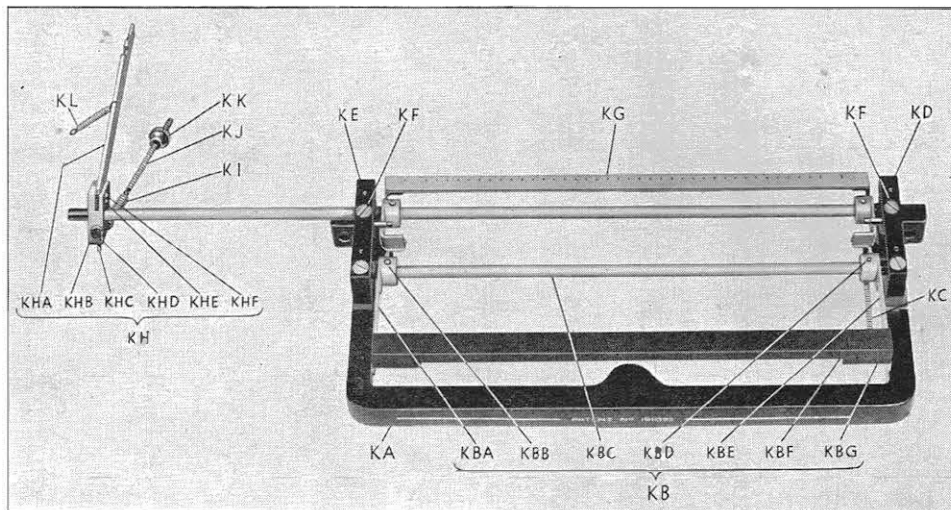


FIG. 8. FRONT BRACKET C.P. 860/78A.

FRONT BRACKET C.P. 860/78A

(See Fig. 8)

Index Letter	Part No.	Part Name	
KA	860/670	Front bracket sub C.P.	
See Note 1 above.	KB	860/63B	Space bar C.P., comprises :-
	KBA	860/58B	Space bar lever (L.H.) C.P.
	KBB	23931A	Taper pin ($\frac{5}{8}$ " \times 0.105").
	KBC	860/60	Space bar lever spindle.
	KBD	860/62	Tapered spring anchor pin.
	KBE	860/56B	Space bar lever (R.H.) C.P.
	KBF	860/693	Space bar (moulded pattern).
		Not used with moulded space-bar.	
	PS.2077-1	Std. 6BA screw	
	PW.1013-1	Std. 6BA washer	
		} 2 each per set for securing moulded space-bar to levers.	
KC	PG.7014	Tension spring.	
KD	860/672	Trip rod bearing (R.H.) C.P.	
KE	860/673	Trip rod bearing (L.H.) C.P.	
KF	PS.1424-1	Std. 2BA screw (4 per set).	
KG	860/71A	Trip bar C.P.	
	2003/277	Spacing washer, 0.005" thick (Qty. as required) fitted between inner faces of KD, KE and KBA, KBE also between KD, KE and KG.	

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
See Note 2 Page 14	KH	860/53C	Trip lever and link C.P., comprises :— Trip lever link. Trip lever. <i>N.B.—This spring anchor pin is replaced by a similar pin which forms part of Trip Lever Adjustment Block C.P. 860/705.</i> Std. 2BA screw. Locking ring ($\frac{3}{32}$ " bore) 2 per set. Trip lever link pin. Trip lever adjustment block C.P. (not illustrated) includes :— Std. 2BA screw (clamping screw). Tension spring (for trip bar) Trip bar adjustment rod Special 4BA round knurled nut Tension spring (for trip lever link)
	KHA	860/51C	
	KHB	860/50D	
	KHC		
	KHD	PS.1350-1	
	KHE	23955A	
	KHF	860/52A	
		860/705	
		PS.1310-1	
	KI	PG.7014	
	KJ	860/183	
KK	PN.6005	} <i>These items form part of Perforator sub-assembly, item A.</i>	
KL	PG.7078		

BASE FOOT (L.H.) C.P. 860/410B

(See Figs. 1 and 2)

This is similar to the Base foot (LH) shown in Fig. 2 but with screwed on pattern rubber feet and an improved terminal block arrangement. A support plate, screwed to the side of the base foot casting, is used to mount a 6 way terminal block, wiring bush, cable clips and a diagram of connections.

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
	860/386B	Base foot L.H. (machined and enamelled casting only).
	RB.1020	Rubber (foot screwed on pattern) 2 per set.
	PB.1007	Collar
	PW.1005-1	Std. 2BA washer
	PS.1332-1	Std. 2BA screw
JA	PG.2052	Flat spring (2 per set).
JB	PS.1659-1	Std. 4BA screw (4 per set).
JC	PB.1355	Wiring bush (2 per set).
J	CD.1040	Motor Cable.
JD	PK.1069	Cable clip (two hole fixing).
	PK.2040	Cable clip (one hole fixing) 2 per set for A.C., 1 for D.C.
	PS.2045-1	Std. 6BA screw (3 per set) for securing cable clips.
	PE.5038	Insulation sleeve (for one hole fixing cable clip).
	860/701	Wiring support plate.
	PS.1694-1	Std. 4BA screw (2 per set) for securing support plate.
JE	CB.1027	6 way terminal block C.P.
	PS.2125-1	Std. 6BA screw (2 per set) for securing item JE.
	CF.1259	Terminal strap C.P. (2 per set for A.C., 3 for D.C.).
	PL.1499	Adhesive label (diagram of connections).
	860/751	Switch and cable form C.P. comprises :—
E	BO.2631	Toggle switch
	860/749	Mounting Plate
P	CF.1011A	Switch connector
	PS.2063-1	Std. 6BA screw (4 per set) for securing item E

} *This replaces the Tumbler switch E and switch connector P illustrated in Fig. 1.*

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

Design Changes not shown in Fig. 9.

1. A removable circular plate $2\frac{3}{4}$ " dia., is placed between bar LG and the wheel LA to lightly press on the coil of tape to ensure that the latter does not wobble, but rotates *uniformly* with the wheel.

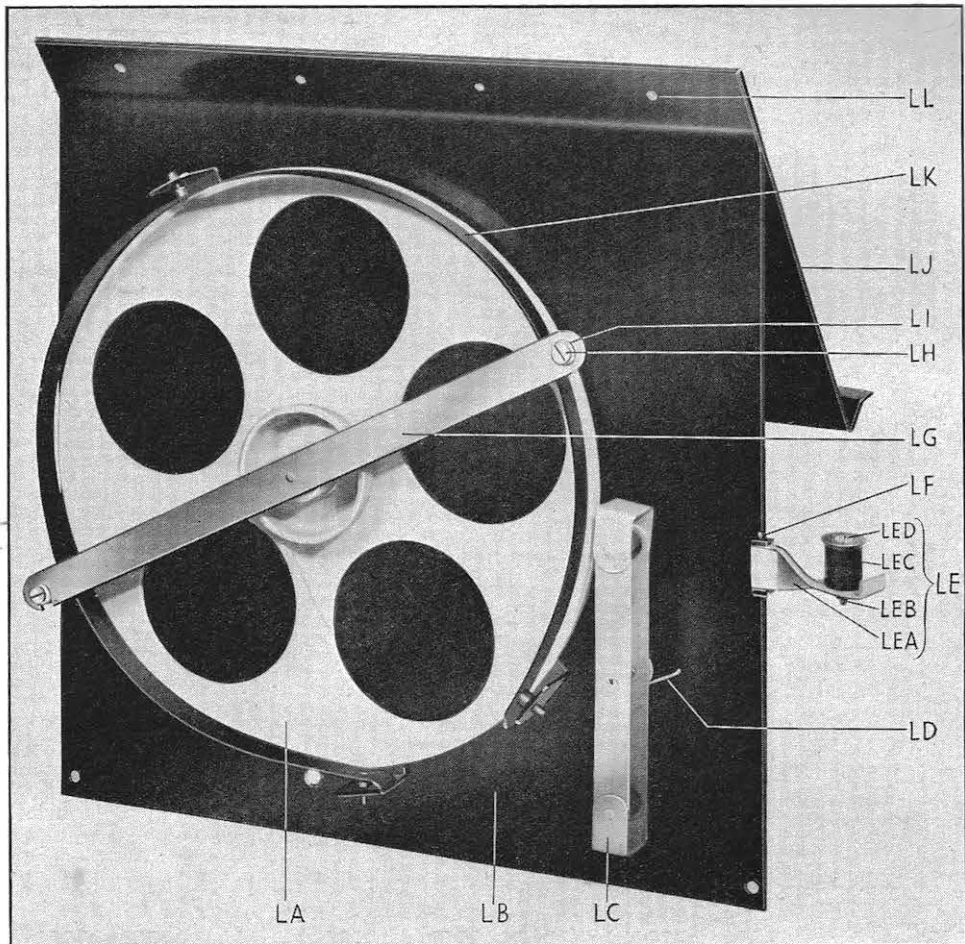


FIG. 9. TAPE WHEEL AND MESSAGE RACK C.P. 860/421B.

TAPE WHEEL AND MESSAGE RACK C.P. 860/421B

(See Fig. 9)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
LA	740/183B	Tape wheel C.P.
LB	860/671	Tape wheel plate and spring C.P., <i>includes</i> :—
	PG.2045	Flat spring.
LC	860/417B	Brake arm C.P.
LD	PG.3035	Torsion spring (<i>for brake arm</i>).
LE	860/400A	Tape guide bracket C.P., <i>comprises</i> :—
LEA	860/399A	Tape guide bracket.
LEB	PN.1013-1	Std. 6BA nut.
LEC	RL.1024	Tape roller.
LED	PS.5519	Special 6BA shouldered screw.
LF	860/413	Tape guide pivot pin.
	23957A	Split ring (<i>for $\frac{5}{32}$" dia. pin</i>) <i>not shown—retains item LC.</i>
LG	860/396	Tape wheel locking bar C.P.
LH	PS.1676-1	Std. 4BA screw (<i>2 per set</i>)
LI	PW.1010-1	Std. 4BA washer (<i>2 per set</i>) } <i>for securing item LG.</i>
LJ	860/404	Message desk.
LK	860/321A	Tape reel guard C.P.
LL	PS.1678-1	Std. 4BA screw
	PN.1009-1	Std. 4BA hex. nut
	PW.1009-1	Std. 4BA washer
	860/744	Tape reel retaining plate. <i>See Note 1.</i>

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

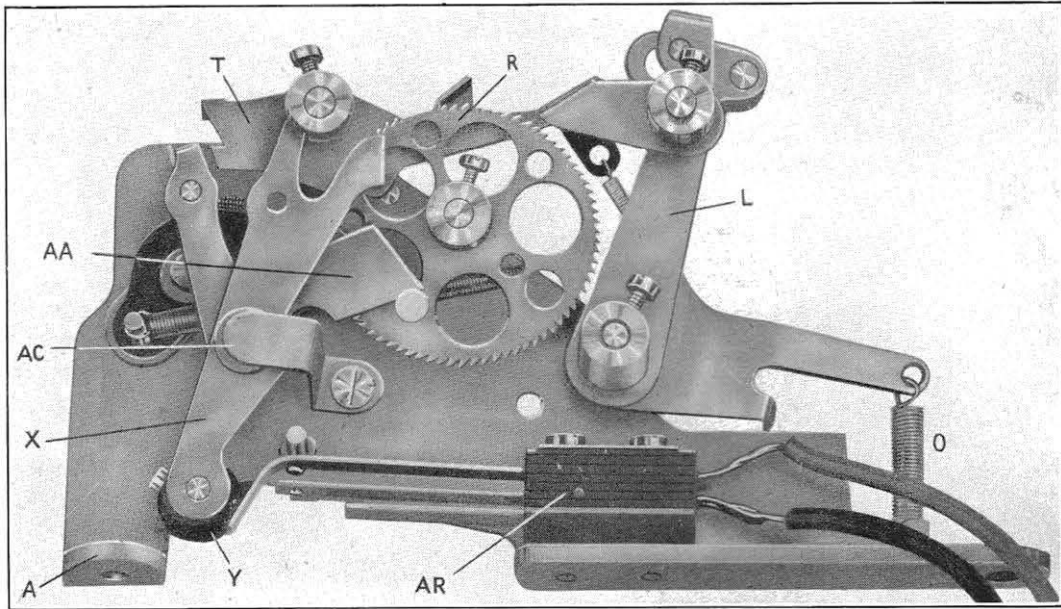


FIG. 10. COUNTER UNIT S.2084 (APPROX. 1 1/4 TIMES FULL SIZE).

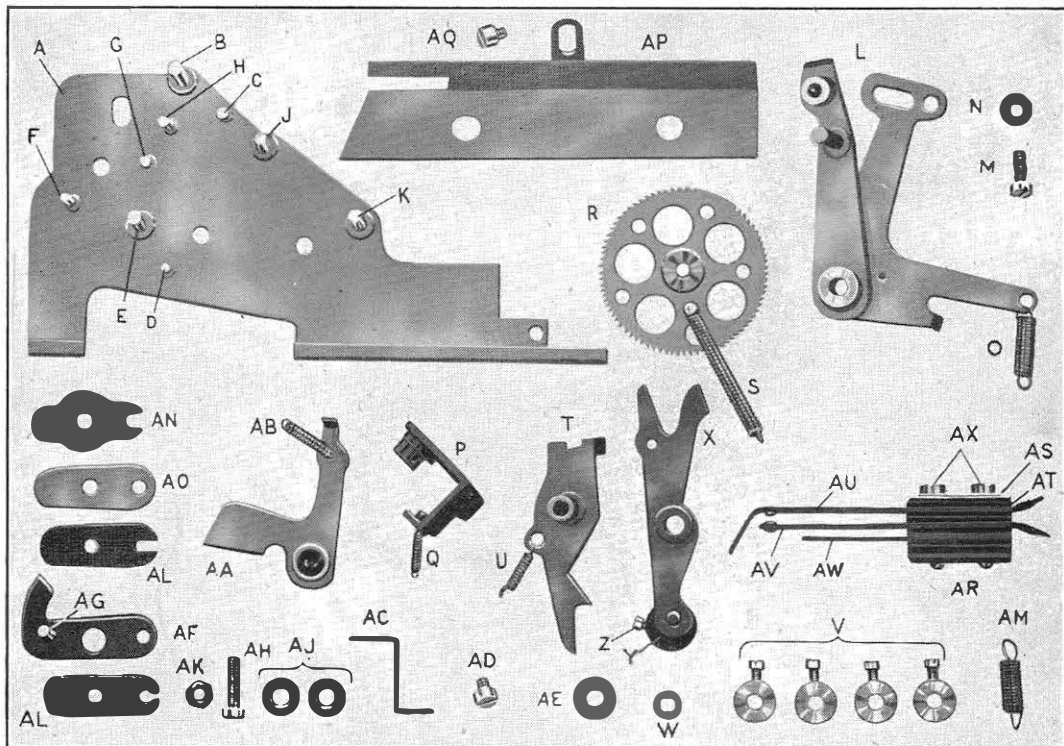


FIG. 11. COUNTER UNIT COMPONENTS.

END-OF-LINE INDICATOR V.289

NOTE :—This is fitted to a Morse Keyboard Perforator when it is required to inter-operate with a Morse Page Printer. It warns the keyboard operator, by the lighting of a red lamp, that the carriage return key must be depressed to punch the "carriage return signal" in the tape, in order to return the carriage of the distant page printer and feed up to the next line of printing.

It comprises :—

- (a) A counter mechanism (Fig. 10), which is secured underneath the message desk to the back of the main frame casting, and consists essentially of a ratchet wheel controlling a pair of contacts.
- (b) A feed link, between the counting mechanism and the punching head, which advances the ratchet wheel one tooth every revolution of the cam on the operating head.
- (c) A lamp unit, located at the right of the message desk, which is lit when the ratchet wheel has almost completed one revolution, thereby warning the operator that the end of the line is being approached.
- (d) An extension piece, secured to the carriage return key, which trips the ratchet wheel when the key is depressed, so that the wheel returns to zero position under the action of a spring and extinguishes the warning lamp ready for the next line to be commenced.
- (e) A transformer for A.C. supplies, or a resistance unit for D.C. supplies, secured to the back of the main frame casting for providing current to light the 6 volt warning lamp.

COUNTER UNIT S2084 (See Figs. 10 and 11)

Index Letter	Part No.	Part Name
A	2084/65	Counter back plate C.P. includes :—
B	2084/20	Retention pawl pivot.
C	PP.3082	Mills grooved pin.
D	PP.2101	Mills grooved pin.
E	2084/90	Stop plate pivot.
F	PP.4025	Spring anchor pin.
G	2084/79	Retention pawl spring anchor.
H	PP.3083	Mills pin.
J	2084/25	Ratchet wheel pivot.
K	2084/15	Trip lever pivot.
L	2084/71	Operating lever C.P. includes :—
M	PS.2072-1	Std. 6BA screw
N	PW.1013-1	Std. 6BA washer
O	PG.7196	Tension spring (for Item L).
P	2084/77	Feed pawl C.P.
Q	PG.7070	Tension spring (for Item P).
R	2084/68	Ratchet wheel C.P.
S	PG.7198	Tension spring (for Item R).
T	2084/75	Retention pawl C.P.
U	PG.7070	Tension spring (for Item T).
V	CS.1028	Set collar and screw (for securing Items P, T, R and X), 4 per set
W	PB.1024	Distance collar (between Items T and V).
X	2084/76	Contact operating lever C.P.
Y	2084/8	Contact roller.
AA	CS.1013	Set collar and screw (for securing Items Y to X).
AB	2084/74	Ratchet wheel stop plate C.P.
AC	PG.7197	Tension spring (for Item AA).
AD	2084/24	Keep plate (for securing Items AA to X).
AE	PS.2029-1	Std. 6BA screw.
AF	PW.5143	Special washer (used between Items AA and X).
AG	2084/126	Damping buffer C.P. includes :—
AH	PP.6067	Spring anchor pin.
AJ	PS.2109-1	Std. 6BA screw.
AK	PW.1013-1	Std. 6BA washer (2 per set).
AL	PN.1513-1	Std. 6BA hex. lock-nut.
AM	2084/125	Canvas friction plate (2 per set).
AN	PG.7221	Tension spring (for Item AF).
AO	PG.3074	Semi-elliptic spring.
AP	2084/124	Clamp plate.
AQ	2084/32	Contact cover.
AR	PS.2029-1	Std. 6BA screw (for Item AP).
AS	2084/28A	Contact pile up comprising :—
AT	1835/28	Contact mounting block.
AU	PE.5081	Switch clamping plate.
AV	PE.5004A	Insulating block.
AW	2084/66	Insulating piece (7 per set).
AX	2084/67	Contact blade C.P. (moving).
	2084/31	Contact blade C.P. (fixed).
	PE.1063A	Contact stop blade.
	PS.2157-1	Insulating collet (2 per set).
	PK.2045	Std. 6BA screw (2 per set).
	PS.1659-1	Cable Cleat.
	2084/165	Std. 4BA screw (for securing cable cleat).
	CB.1026	Insulating plate.
	PS.2125-1	Terminal block C.P. (2 way).
	2501/82	Std. 6BA screw (for securing terminal block C.P.).
	PE.5045	Wire Connector (for Contact blades) 2 per set
	PE.5046	Insulating sleeve (2½ mm. I.D. × ¾" long) 2 per set
		Insulating sleeve (6 mm. I.D. × 2¾" long)

} Not shown.

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

ASSOCIATED PARTS

(Not illustrated)

Counter feed link parts :—

Part No.	Part Name
2084/145	Counter feed link.
CS.1028	Set collar and screw (for retaining counter feed link to counter C.P.).
2084/144	Counter feed bracket C.P.
PS.2061-1	Std. 6BA screw } for securing counter feed bracket C.P. to item GV
PW.1013-1		Std. 6BA washer } (page 13) of punching head C.P.
CS.1011	Set collar and screw (for retaining counter feed link to counter feed bracket C.P.).

N.B.—A punch support (top) with two 6BA tapped holes, 2501/5, item GV, page 13, is required when fitting this pattern of counter to existing machines.

Counter lamp parts :—

Part No.	Part Name
BO.2512	Bulb, 6v., 0.06A, M.E.S. (Army J type).
Code 13120	Lampholder (with red cover).
2084/153	Lampholder bracket C.P. (includes item CV, page 9).
PS.2125-1	Std. 6BA screw (2 per set) Std. 6BA washer (4 per set) Std. 6BA spring washer (2 per set) Std. 6BA nut (2 per set) } for securing lampholder to lampholder bracket C.P.
PW.1013-1	
PW.2037	
PN.1013-1	
CF.1286	Cable form (for connecting lampholder and counter to transformer or resistance unit).
BO.2002	Insulating sleeve (2 per set).
PK.1012	Cable clip.
PS.2061-1	Std. 6BA screw } for securing cable retaining clip to main frame casting.
PW.1013-1		Std. 6BA washer }

Carriage return key parts :—

Part No.	Part Name
2084/33	Car. ret. trip extension.
PS.2061-1	Std. 6BA screw Std. 6BA washer Std. 6BA spring washer } 2 of each per set for securing car. ret. trip extension to car. ret. selector bar C.P.
PW.1013-1	
PW.2037	

N.B.—A car. ret. selector bar C.P. (top row or third as required) item C.P., page 9. to which the car. ret. trip extension is secured, is necessary when fitting this pattern of counter to existing machines.

Transformer or Resistance unit and Mounting plate :—

Part No.	Part Name
BO.2573	Transformer, 200/250v. input
2084/148	Mounting plate C.P.
PS.1827-1	Std. 4BA screw (4 per set) for securing transformer to mounting plate C.P. } For A.C. supplies only
2084/149		Resistance and mounting plate unit, 100/160 v. or 200/260 v. input For D.C. supplies only.
PS.1694-1	Std. 4BA screw } (2 of each per set) for securing either of the above
PW.1009-1		Std. 4BA washer } A.C. or D.C. units to the main frame casting.
CF.1247A	Cable form (for connecting mains to transformer or resistance unit).
PK.2040	Cable clip (1 hole fixing) } for cleating cable form to main frame casting.
PS.2061-1		Std. 6BA screw }
PS.1676-1	Std. 4BA screw } (2 of each per set) for securing counter to mounting plate.
PW.1009-1		Std. 4BA washer }

N.B.—A top cover 2084/156, item BB, page 7, is required when fitting this pattern of counter to existing machines.

Kindly state Model of Machine and Serial Number when ordering Spare Parts.

TOOLS

Tool Kit No. 9 for the Model 9 Perforator comprising the following Tools, are supplied if ordered, being no longer included in the price of a complete machine. When a number of Morse 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 Morse Perforators, sufficient for the personnel who will maintain them. The quantity of Kits should be specified when ordering the machines.

1 Spring hook	TA.1008
2 Spanners 4BA and 6BA	TA.1022
1 Punch lapping block C.P.	TA.1028
1 Punch block cleaner (<i>double edge</i>)	TA.1034
1 Punch block cleaner (<i>single edge</i>)	TA.1035
1 pair pliers for removing locking rings	TA.1023
1 Screwdriver, 5" × $\frac{1}{8}$ "	8549
1 Screwdriver, 5" × $\frac{1}{4}$ "	8550
2 Oil cans (<i>watch pattern</i>)	8620
1 pair tweezers	8199

ACCESSORIES

Accessory List No. 9 for the Model 9 Perforator comprising the following Accessories, are supplied if ordered, being no longer included in the price of a complete machine.

1 coil tape, plain parchment (<i>standard</i>)	ABARL
<i>or</i> 1 coil tape, plain parchment ($\frac{3}{8}$ " <i>wide</i>)	ABACK
1 $\frac{1}{4}$ pint can Lubricant No. 1 (<i>thin oil</i>)	TA.1095
1 $\frac{1}{4}$ pint can Lubricant No. 2 (<i>medium oil</i>)	TA.1096
1 Instruction Booklet No. 16.	
1 Part List No. 1016.	
1 Keyboard Chart.	

NUMERICAL INDEX

<i>Part No.</i>	<i>Part Name</i>	<i>Index Letters</i>	<i>Part No.</i>	<i>Part Name</i>	<i>Index Letters</i>
740/183B	Tape Wheel C.P.	LA	860/153F	Feed Rake	FQ
860/4B	Bottom Selector Bar Guide	CK	/154C	Trunnion	FR
/17B	Selector Bar (top row) C.P.	CM	/155A	Spacing Lever Bellcrank	FJA
/18B	Selector Bar (second row) C.P.	CN	/159A	Spacing Lever Link	FJD
/19B	Selector Bar (third row) C.P.	CO	/171J	Operating Head C.P.	BG
/20B	Selector Bar (fourth row) C.P.	CP	/174B	Top Cover (for machines without counter).	BB
/22D	Combination Selector Bar C.P.	CL	/176	Selector Bar Spring Guard	BR
/23F	Returning Bar	CCA	/177	Punch Withdrawing Plate	BC
/24C	Returning Bar Face Plate (long)	CCB	/178	Returning Bar Link	BD
/25F	Returning Bar C.P.	CC	/181	Returning Bar Adjustment Nut	BF
/28	Combination Lever C.P.	CG	/183	Trip Bar Adjustment Rod	KJ
/30B	Comb Bar (odd numbers 1-19)	DA	/184	Key Button Cap	BL
/31B	Comb Bar (even numbers 2-20)	DB	/185	Key Button Glass	BM
/32B	Space Stop Bar	DC	/187A	Trip Rod Bearing (L.H.)	BJ
/35	Spring Anchor Pin	ECD	/200B	Perforator Sub Assembly	A
/36A	Selector Bar Rack	CX	/310A	Punch Block Link "A"	GZ
/37E	Selector Bar Spring Support	CS	/311C	Punch Block Link Pin	GX
/38B	Selector Bar Spring Pillar	CR	/312B	Punch Block Link "B"	ET
/39B	Selector Bar Guide Plate	CV	/313	Tape Bellcrank	GL
/40	Space Bar and Comb Bar Rack	DE	/314	Tape Retention Pawl Bracket	GJ
/41A	Combination Lever Pivot	CH	/321A	Tape Reel Guard C.P.	LK
/42B	Comb Bar Support (L.H.)	DC	/342A	Cuttings Guide C.P.	EG
/44B	Withdrawing Bar Bracket	DD	/345A	Trunnion Block Guide Pin	IB
/46A	Keybar Rack (standard)	DF	/354	Comb Retaining Plate C.P.	CY
/49B	Main Frame C.P.	BA	/361A	Spacing Lever Blade C.P.	FK
/50D	Trip Lever	KHB	/366	Paper Guide Clip C.P. (top)	HD
/51C	Trip Lever Link	KHA	/367A	Paper Guide Retaining Clip	HB
/52A	Trip Lever Link Pin	KHF	/370B	Returning Bar Buffer (long)	CCC
/53C	Trip Lever and Link C.P.	KH	/372	Tape Retention Pawl Pin	GG
/56B	Space Bar Lever (R.H.) C.P.	KBE	/386B	Base Foot (L.H.)	Page 15
/58B	Space Bar Lever (L.H.) C.P.	KBA	/387	Cuttings Drawer	Q
/60	Space Bar Lever Spindle	KBC	/396	Tape Wheel Locking Bar C.P.	LG
/62	Tapered Spring Anchor Pin	KBD	/399A	Tape Guide Bracket	LEA
/63B	Space Bar C.P.	KB	/400A	Tape Guide Bracket C.P.	LE
/71A	Trip Bar C.P.	KG	/402A	Operating Head Cover	B
/73	Punch Retaining Plate	GS	/404	Message Desk (standard)	LJ
/78A	Front Bracket C.P.	BO	/410B	Base Foot (L.H.) C.P.	N
/81D	Space Stop Rack	IA	/413	Tape Guide Pivot Pin	LF
/89A	Space Stop	FC	/415A	Belt Guard	C
/90B	Combination Stop	FA	/417B	Brake Arm C.P.	LC
/91F	Space Stop Bracket C.P.	EB	/421B	Tape Wheel and Message Rack C.P.	K
/93	Tape Bellcrank Spring Stud	GQ	/428	Comb Bar Stop Plate	CU
/94A	Pawl Abutment C.P.	FO	/429	Space Stop Rack Plate	ID
/99A	Cam Roller Pin	EVA	/433B	Space Stop Rack C.P.	IA to IH
/100B	Spacing Cam Lever C.P.	EV	/506	Returning Bar Face Plate (short)	CCC
/103B	Returning Bar Shackle C.P.	FGB	/507	Returning Bar Buffer (short)	CCC
/104C	Returning Bar Cam Lever	FGA	/510	Trunnion Block Guide Pin Cotter	IC
/106C	Returning Bar Cam Lever C.P.	FG	/514	Keybar Rack	DF
/108C	Returning Bar Cam Lever Pivot	FH	/515	Keybar Rack } Alternatives to {	DF
/114A	Cam	FNA	/516	Keybar Rack } 860/46A {	DF
/115F	Pawl	FNC	/528A	Combination Selector Bar C.P.	CL
/117	Cam C.P.	FN	/529A	Combination Selector Bar C.P.	CL
/119B	Spacing Lever Pivot	ECA	/547	Spacing Lever Link and Bellcrank C.P.	FJ
/120A	Pawl Abutment Pivot	ECB	/557A	Motor, D.C. (state voltage)	H
/127B	Driving Spindle	EDC	/566	Comb Bar Support (R.H.) C.P.	DC
/128B	Fly-wheel	EDA	/573	Die Back Plate (for 0.375" tape)	GP
/130B	Driving Spindle C.P.	ED	/574	Punch Block Distance Piece (for 0.375" tape)	GO
/131B	Tape Retention Pawl	GI	/583A	Motor Belt and Fastener C.P.	D
/138A	Message Hole Punch	GR	/587	Motor, A.C. (state voltage and frequency)	H
/139	Centre Hole Punch	GT	/590	Motor Pulley (1- $\frac{11}{16}$ " diameter)	F
/140	Centre Hole Punch Holder	GU	/591	Motor Pulley (2- $\frac{11}{16}$ " diameter)	F
/141A	Dies (3 per set)	GN	/592	Motor Pulley (1- $\frac{31}{64}$ " diameter)	F
/143C	Punch Block Distance Piece (standard)	GO	/667	Set of Punches and Dies, fitted GN,GR,GT	
/144A	Punch Support (bottom)	GV			
/147B	Paper Guide Clip (bottom)	HE			
/148C	Paper Guide (plastic)	HA			
/149E	Punching Head C.P.	EA			

Part No.	Part Name	Index Letters
860 /668	Operating Head Base C.P.	EC
/669	Punch Block Sub C.P.	GA
/670	Front Bracket Sub C.P.	KA
/671	Tape Wheel Plate and Spring C.P.	LB
/672	Trip Rod Bearing (R.H.) C.P.	KD
/673	Trip Rod Bearing (L.H.) C.P.	KE
/675A	Hinge Pin ($\frac{3}{16}$ " dia.)	FD
/676A	Hinge Pin ($\frac{3}{16}$ " dia.)	FF
/677A	Punch Block Pivot Pin "B"	EY, EU
/678	Spacing Rack Stop, rear	IF
/679	Spacing Rack Stop, front	IG
/680	Shim 'A' (0.002" thick)	Following IK
/681	Shim 'B' (0.003" thick)	
/682	Shim 'C' (0.005" thick)	
/686	Space Stop Bracket sub. C.P.	IJ
/690	Die Back-plate C.P.	Following GZ
/693	Space Bar (moulded pattern)	KBF
/694	Returning Bar Bracket	CB
/697	Returning Bar Bearing Block C.P.	CB
/698	Shim, 0.005" thick	CCC
/701	Wiring Support Plate	Following JD
/705	Trip Lever Adjustment Block C.P.	Following KHF
/712	Set of Selector Bars C.P.	Following CP
/714	Die Back Plate and Stud C.P. (std.)	GP, GQ
/727	Main Frame Casting C.P.	CA
/728	Base Foot (R.H.) C.P.	X
/729	Trip Lever, Link and Adjusting Block C.P.	Page 14
/735	Adjustment Spring (Space Stop)	FE
/741	Pivot Pin	BT
/744	Tape Reel Retaining Plate C.P.	Page 17
/749	Mounting Plate	Following E
/750	Cam Sub C.P.	Page 12
/751	Switch and Cable Form C.P.	E
1650 /307	Pawl Distance Piece	FND
1835 /28	Switch Clamping Plate	Page 19
2003 /277	Spacing Washer, 0.005" thick	Following KG
S.2084 Group 2.	Counter C.P.	Page 18
2084 /8	Contact Roller	" 19
/15	Trip Lever Pivot	" 19
/20	Retention Pawl Pivot	" 19
/24	Keep Plate	" 19
/25	Ratchet Wheel Pivot	" 19
/28A	Contact Mounting Block	" 19
/31	Contact Stop Blade	" 19
/32	Contact Cover	" 19
/33	Car. Ret. Trip Extension	" 20
/65	Counter Back Plate C.P.	" 19
/66	Contact Blade C.P. (moving)	" 19
/67	Contact Blade C.P. (fixed)	" 19
/68	Ratchet Wheel C.P.	" 19
/71	Operating Lever C.P.	" 19
/74	Ratchet Wheel Stop Plate C.P.	" 19
/75	Retention Pawl C.P.	" 18
/76	Contact Operating Lever C.P.	" 19
/77	Feed Pawl C.P.	" 19
/79	Retention Pawl Spring Anchor	" 19
/90	Stop Plate Pivot	" 19
/124	Clamp Plate	" 19
/125	Canvas Friction Plate	" 19
/126	Damping Buffer C.P.	" 19
/140	Car. Ret. Selector Bar (third row) C.P.	CP
/142	Car. Ret. Selector Bar (top row) C.P.	CP
/144	Counter Feed Bracket C.P.	Page 20
/145	Counter Feed Link	" 20
/148	Mounting Plate C.P.	" 20
/149	Resistance and Mounting Plate Unit	" 20
/153	Lampholder Bracket C.P.	" 20
/156	Top Cover (for machines with counter)	BB
/165	Insulating Plate	Page 19
2501 /5	Punch Support (top)	GV
/82	Wire Connector	Page 19

Part No.	Part Name	Index Letters
Code 13120	Lampholder, with red cover	Page 20
23912	Split Ring (for $\frac{3}{16}$ " dia. pin)	GY
23916	Split Ring (for $\frac{1}{16}$ " dia. pin)	EF
23931A	Taper Pin ($\frac{5}{8}$ " \times 0.105")	KBB
23955A	Locking Ring ($\frac{3}{32}$ " bore)	KHE
23956A	Locking Ring ($\frac{1}{8}$ " bore)	CJ, EI
23957A	Locking Ring ($\frac{5}{32}$ " bore)	EZ, LF, FJF
23958A	Locking Ring ($\frac{3}{16}$ " bore)	EJ

BO NUMBERS

BO.1808A	Capacitor, 10 μ F.	T
BO.1809A	Capacitor, 2.5 μ F.	T
BO.2002	Insulating Sleeve	Page 20
BO.2512	Bulb, 6v., 0.06A, M.E.S.	" 20
BO.2573	Transformer, 200/250v. input	" 20
BO.2631	Toggle Switch	Following E

CB NUMBERS (TERMINAL BLOCKS).

CB.1026	Terminal Block C.P. (2 way)	Page 19
CB.1027	Terminal Block C.P. (6 way)	JE

CD NUMBERS (CORDS).

CD.1040	Motor Cable	J
---------	-------------	---

CF NUMBERS (CABLE FORMS).

CF.1011A	Switch Connector	P
CF.1247A	Cable Form	Page 20
CF.1259	Terminal Strap C.P.	JE
CF.1286	Cable Form	Page 20

CS NUMBERS (COLLARS AND SCREWS).

CS.1011	$\frac{3}{32}$ " Set Collar and Screw	Page 20
CS.1013	$\frac{3}{32}$ " Set Collar and Screw	" 19
CS.1023	$\frac{1}{8}$ " Set Collar and Screw	BU
CS.1026	$\frac{1}{8}$ " Set Collar and Screw	Page 20
CS.1028	$\frac{1}{8}$ " Set Collar and Screw	" 19

KY NUMBERS (KEYS).

KY.1007	Key (1" long)	BQ
KY.1008	Key ($\frac{3}{8}$ " long)	BK

PB NUMBERS (BUSHES).

PB.1005	Collar	GE
PB.1007	Collar	Z and Page 15
PB.1024	Distance Collar	Page 19
PB.1115A	Parallel Bush	ECF
PB.1116	Collar	FJE
PB.1244	Spacing Collar (obsolete)	S
PB.1253	Shouldered Bush	EDB
PB.1355	Wiring Bush	JC

PE NUMBERS (INSULATORS)

PE.1063	Insulating Collet	Page 19
PE.5004A	Insulating Piece	" 19
PE.5038	Insulation Sleeve	Following JD
PE.5045	Insulating Sleeve (2 $\frac{1}{2}$ mm. \times $\frac{3}{4}$ " long)	I.D. Page 19
PE.5046	Insulation Sleeve (6mm. \times 2 $\frac{3}{4}$ " long)	I.D. " 19
PE.5081	Insulating Block	" 19

PF. NUMBERS (FELT PARTS).

PF.1066	Felt Plug	ECE
---------	-----------	-----

PG NUMBERS (SPRINGS).

PG.2045	Flat Spring	LB
PG.2052	Flat Spring	JA
PG.3022B	Pawl Spring C.P.	FNB
PG.3032	Torsion Spring	GF
PG.3034	Torsion Spring	FL
PG.3035	Torsion Spring	LD
PG.3074	Semi-elliptic Spring	Page 19
PG.5016	Compression Spring	EM

Part No.	Part Name	Index Letters
PG NUMBERS (SPRINGS)—continued.		
PG.5017	Compression Spring	BE
PG.7014	Tension Spring	.. .. KC, KI
PG.7051	Tension Spring	.. .. DC, FB
PG.7070	Tension Spring	.. .. Page 19
PG.7077	Tension Spring	.. .. CQ
PG.7078	Tension Spring	.. .. FP, KL
PG.7079	Tension Spring	.. .. CW
PG.7080	Tension Spring	.. .. GK
PG.7196	Tension Spring	.. .. Page 19
PG.7197	Tension Spring	.. .. " 19
PG.7198	Tension Spring	.. .. " 19
PG.7221	Tension Spring	.. .. " 19

PK NUMBERS (CLIPS).		
PK.1012	Cable Clip (1 Hole Fixing)	.. Page 20
PK.1069	Cable Clip (2 hole fixing)	.. JD
PK.2040	Cable Clip (1 hole fixing)	JD and page 20
PK.2045	Cable Clip (1 hole fixing)	.. Page 19

PL NUMBERS (LABELS).		
PL.1402	Key Label (state characters)	.. BN
PL.1499	Adhesive Label (diagram of connections)	JE

PN NUMBERS (NUTS).		
PN.1009-1	Std. 4BA Hex. M.S.	.. LL
PN.1013-1	Std. 6BA Hex. M.S.	{ CCE, EK, LEB and page 20
PN.1509-1	Std. 4BA Hex. Lock M.S.	.. EP
PN.1513-1	Std. 6BA Hex. Lock M.S.	.. Page 19
PN.6005	Special 4BA Round Knurled Nut	.. KK
PN.6006	Special $\frac{1}{16}$ " 60 T.P.I. Round Nut with two flats M.S.	.. FGD

PP NUMBERS (PINS).		
PP.1159	Parallel Pin ($\frac{5}{32}$ " dia. \times $\frac{5}{8}$ " long)	.. EX
PP.1169	Parallel Pin ($\frac{3}{32}$ " dia. \times $1\frac{1}{4}$ " long)	.. GB
PP.1201	Parallel Pin ($\frac{1}{16}$ " dia. \times $1\frac{3}{8}$ " long)	.. CCA
PP.2101	Grooved Pin ($\frac{3}{32}$ " dia. \times $\frac{1}{4}$ " long)	.. Page 19
PP.3082	Grooved Pin ($\frac{3}{32}$ " long \times $\frac{1}{16}$ " dia.)	.. " 19
PP.3083	Grooved Pin ($\frac{3}{32}$ " dia. \times $\frac{3}{8}$ " long)	.. " 19
PP.4025	Spring Anchor Pin ($\frac{3}{32}$ " dia. \times $\frac{1}{2}$ " long)	.. " 19
PP.6005	Spring Anchor Pin ($\frac{1}{8}$ " dia. \times $\frac{3}{4}$ " long)	.. ECC
PP.6515	Parallel Pin ($\frac{1}{16}$ " dia. \times $1\frac{1}{2}$ " long)	.. DC
PP.6669	Pawl Pin ($\frac{3}{16}$ " dia. \times $\frac{9}{16}$ " long)	.. FNE
PP.7516	Shouldered Pin ($\frac{3}{32}$ " dia. \times $\frac{3}{16}$ " long)	.. FJB
PP.8566	Flanged Pin ($\frac{1}{16}$ " dia. \times $1\frac{3}{4}$ " long)	.. GM

PS NUMBERS (SCREWS).		
PS.1052-1	Std. 0BA \times $\frac{3}{8}$ " Hex. Hd. M.S.	.. L
PS.1074-1	Std. 0BA \times 1 " Ch. Hd. M.S.	.. BP
PS.1307-1	Std. 2BA \times $\frac{1}{16}$ " Grub M.S.	.. G
PS.1310-1	Std. 2BA \times $\frac{3}{8}$ " Ch. Hd. M.S.	{ Following KHF
	Hd. M.S.	.. R
PS.1332-1	Std. 2BA \times $\frac{1}{2}$ " Ch. Hd. M.S.	{ C, CB, Z and page 15
PS.1350-1	Std. 2BA \times $\frac{9}{16}$ " Cap. Hd. M.S.	.. KHD
PS.1354-1	Std. 2BA \times $\frac{3}{8}$ " Ch. Hd. M.S.	.. BH
PS.1374-1	Std. 2BA \times $\frac{3}{4}$ " Ch. Hd. M.S.	{ BJ, CF, O, Y
PS.1424-1	Std. 2BA \times $1\frac{1}{8}$ " Ch. Hd. M.S.	.. KF
PS.1659-1	Std. 4BA \times $\frac{1}{8}$ " Ch. Hd. M.S.	{ JB, BS and page 19
PS.1676-1	Std. 4BA \times $\frac{1}{4}$ " Ch. Hd. M.S.	LH and page 20
PS.1678-1	Std. 4BA \times $\frac{1}{4}$ " C/sk. Hd. M.S.	.. LL
PS.1687-1	Std. 4BA \times $\frac{1}{16}$ " Ch. Hd. M.S.	.. CK, DG

Part No.	Part Name	Index Letters
PS NUMBERS (SCREWS)—continued.		
PS.1694-1	Std. 4BA \times $\frac{3}{8}$ " Ch. Hd. M.S.	{ CU, CZ, DE, Following JD and page 20
PS.1710-1	Std. 4BA \times $\frac{7}{16}$ " C/sk. Hd. M.S.	.. DC
PS.1717-1	Std. 4BA \times $\frac{1}{2}$ " Ch. Hd. M.S.	.. EH
PS.1736-1	Std. 4BA \times $\frac{9}{16}$ " Hex. Hd. M.S.	.. ER
PS.1793-1	Std. 4BA \times 1 " Ch. Hd. M.S.	.. GW
PS.1795-1	Std. 4BA \times 1 " C/sk. Hd. M.S.	.. DD
PS.1827-1	Std. 4BA \times $1\frac{1}{4}$ " C/sk. Hd. M.S.	.. Page 20
PS.2029-1	Std. 6BA \times $\frac{1}{8}$ " Ch. Hd. M.S.	.. " 19
PS.2045-1	Std. 6BA \times $\frac{3}{16}$ " Ch. Hd. M.S.	.. " JD
PS.2047-1	Std. 6BA \times $\frac{3}{16}$ " C/sk. Hd. M.S.	.. IH
PS.2061-1	Std. 6BA \times $\frac{1}{4}$ " Ch. Hd. M.S.	.. IE & page 19, 20
PS.2063-1	Std. 6BA \times $\frac{1}{4}$ " C/sk. Hd. M.S.	.. Following E
PS.2072-1	Std. 6BA \times $\frac{1}{4}$ " Cap. Hd. M.S.	.. Page 19
PS.2077-1	Std. 6BA \times $\frac{3}{16}$ " Ch. Hd. M.S.	.. KBG
PS.2109-1	Std. 6BA \times $\frac{3}{16}$ " Ch. Hd. M.S.	.. Page 19
PS.2125-1	Std. 6BA \times $\frac{3}{16}$ " Ch. Hd. M.S.	JE & page 20
PS.2141-1	Std. 6BA \times $\frac{3}{16}$ " Ch. Hd. M.S.	.. Page 19
PS.2157-1	Std. 6BA \times $\frac{3}{16}$ " Ch. Hd. M.S.	.. Page 19
PS.2189-1	Std. 6BA \times $\frac{3}{16}$ " Ch. Hd. M.S.	.. IK
PS.2274-1	Std. 6BA \times $1\frac{1}{8}$ " C/sk. Hd. M.S.	.. EO
PS.2430-1	Std. 8BA \times $\frac{1}{2}$ " Ch. Hd. M.S.	{ GH, HF
PS.2445-1	Std. 8BA \times $\frac{3}{8}$ " Ch. Hd. M.S.	.. GC
PS.2536-1	Std. 8BA \times $\frac{1}{2}$ " Ch. Hd. M.S. (screwed $\frac{3}{16}$ ")	.. HC
PS.5235	Special 2BA \times $\frac{5}{16}$ " Thin Ch. Hd. M.S.	.. U
PS.5367	Special 4BA \times $\frac{5}{32}$ " Fil. Hd. M.S.	.. CT
PS.5519	Special 6BA Shouldered S.S.	.. LED
PS.6411	Special $\frac{3}{16}$ " 60 T.P.I. Pip end SS.	.. FGC
PS.6824	Special 6BA \times $\frac{3}{4}$ " C/sk. Hd. M.S. (case-hardened)	.. CCD

PW NUMBERS (WASHERS).		
PW.1001-1	Std. 0BA M.S.	.. M
PW.1005-1	Std. 2BA M.S.	.. V, Z & page 15
PW.1009-1	Std. 4BA M.S.	.. LL & page 20
PW.1010-1	Std. 4BA Br.	.. LI
PW.1013-1	Std. 6BA M.S.	{ EN, KBG, Page 19, " 20
PW.1018-1	Std. 8BA M.S.	.. GD
PW.1037-1	Std. 6BA M.S. Turned Washer	.. EL
PW.2026	Std. 4BA Single Coil Spring Washer	.. EQ
PW.2037	Std. 6BA Single Coil Spring Washer	.. Page 20
PW.4016	Std. $\frac{3}{16}$ " I.D. Double Coil Spring Washer	.. BH
PW.5029	Special Washer 0.189" I.D. M.S.	.. BH
PW.5092	Special Washer 0.159" I.D. M.S.	.. FJC
PW.5140	Special Washer 0.316" I.D. C.S.	.. EE
PW.5143	Special Washer $\frac{1}{2}$ " I.D. C.S.	.. Page 19
PW.5180	Special Washer 0.380" (with ears) C.S.	.. FM
PW.5216	Special Paper Washer $\frac{1}{4}$ " I.D.	.. BN

RB NUMBERS (RUBBER PARTS).		
RB.1020	Rubber Foot	.. Z & page 15

RL NUMBERS (ROLLERS).		
RL.1020	Cam Roller	{ EW, FI, ES
RL.1024	Tape Roller	.. LEC