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Colin Hinson

In the village of Blunham, Bedfordshire.

THE "N" SERIES
SHIFT-LOCK PATTERN
KEYBOARDS

(Non-Storage with Saw-Tooth comb-bars)

FOR NOS. 7, 47, 65 AND 54 TELEPRINTERS

TYPE N3 (STYLE 3) -- 3 ROW

TYPE N4 (STYLE 3) -- 4 ROW

Creed & Company Limited

THE "N" SERIES
SHIFT-LOCK PATTERN
KEYBOARDS

(Non-Storage with Saw-Tooth comb-bars)

FOR NOS. 7, 47, 85 AND 54 TELEPRINTERS

TYPE N3 (STYLE 3) — 3 ROW

TYPE N4 (STYLE 3) — 4 ROW

Creed & Company Limited

AMENDMENTS TO PART LIST NO. 1047K (3RD EDITION)

(TYPE N KEYBOARD UNIT)

This Technical Information Supplement amends the text of the above Part List to conform with Type N Keyboard Units now being supplied.

<i>Page</i>	<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	<i>Part No.</i>	<i>Part Name</i>
12	BC	1855/169B	Front Rack C.P.	1855/169C	Front Rack C.P.
12	-	2088/25B	Front Rack C.P.	2088/25C	Front Rack C.P.
12	-	1855/443	Front Rack Sub C.P.	1855/443A	Front Rack Sub C.P.
12	-	2088/61	Front Rack Sub C.P.	2088/61A	Front Rack Sub C.P.
13	BO	2088/43	Keybar Guide Rack	2088/43A	Keybar Guide Rack
13	-	2088/42	Keybar Guide Rack	2088/42A	Keybar Guide Rack
13	BT	1855/52B	Back Rack	1855/52C	Back Rack
13	-	2088/2B	Back Rack	2088/2C	Back Rack
13	BV2	1855/125C	Keybar Buffer	1855/125B	Keybar Buffer
15	EH	2088/41	Keybar Stop Plate	2088/41A	Keybar Stop Plate
23	-	S3747A	Combination Bar Unit	S3747B	Combination Bar Unit
23	G	2255/55	Rack	2255/64	Rack
31	Y	2254/63	Oil Box	2184/63	Oil Box
39	-	PG7020	Tension Spring	PG7020A	Tension Spring

ITEMS TO BE INSERTED

INSERT

<i>Page</i>	<i>Following Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
23	A	PS7117	Special Screw (5 per set) for Supporting Comb Bars

ITEMS TO BE DELETED

DELETE

<i>Page</i>	<i>Following Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
13	CX	PG7068	Tension Spring
27	BM	PG7066	Tension Spring

THE "N" SERIES SHIFT-LOCK PATTERN KEYBOARDS

(Non-Storage with Saw-Tooth comb-bars)

TYPE N3 (STYLE 3) — 3 ROW

TYPE N4 (STYLE 3) — 4 ROW

FOR NOS. 7, 47, 85 AND 54 TELEPRINTERS

Creed & Company Limited

TELEGRAPH HOUSE
CROYDON, ENGLAND

Telegraphic Address:
CREDO, TELEX, CROYDON

Telephone.
MUNICIPAL 2424

Telex: 28836



PREFACE TO 3rd EDITION OF PART LIST No. 1047K

This revised edition of Part List No. 1047K agrees with the various design changes which have been made to the "N" Series Keyboards since the issue of the 2nd Edition in 1952. It also includes the type "N" Keyboard as applied to the Model 54 Teleprinter.

Keyboards embodying the changes are designated as follows:-

Type N3 Style 3:-	3 Row Keyboards	} For models 7, 47 and 54 Teleprinters.
Type N4 Style 3:-	4 Row Keyboards	

The main changes which distinguish the Style 3 Keyboard from the Style 2 were introduced in 1954 and are as follows:-

Combination Bar Unit (See Figs. 13 and 14)

Adjustable connecting Lever Bracket. Simplified Combination Bar Racks, Connecting Levers and Trip Adjusting Lever.

Transmitter Unit (See Figs. 16 and 17B)

Operating Levers and Selecting Levers are mounted on small die-cast sub bases screwed to the Back Plate. Simplified Driving Shaft Coupling. The centre Bearing is omitted. Pins in the Back Plate are threaded and secured by nuts instead of riveted.

Keyboard Partial Assembly (See Figs. 1, 2, 3 and 4)

Keybar Front and Back Racks are no longer dowelled in position but are located by Abutments.

INTRODUCTON AND ORDERING INSTRUCTIONS

This Part list has been compiled to assist our customers in identifying and ordering spare parts for the Type N3 or N4 Shift-Lock Pattern, Non-Storage Sawtooth Comb-Bar Keyboard.

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 Type N3 or N4 Keyboard can be supplied on application.

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Nos. 7 AND 85
TELEPRINTERS

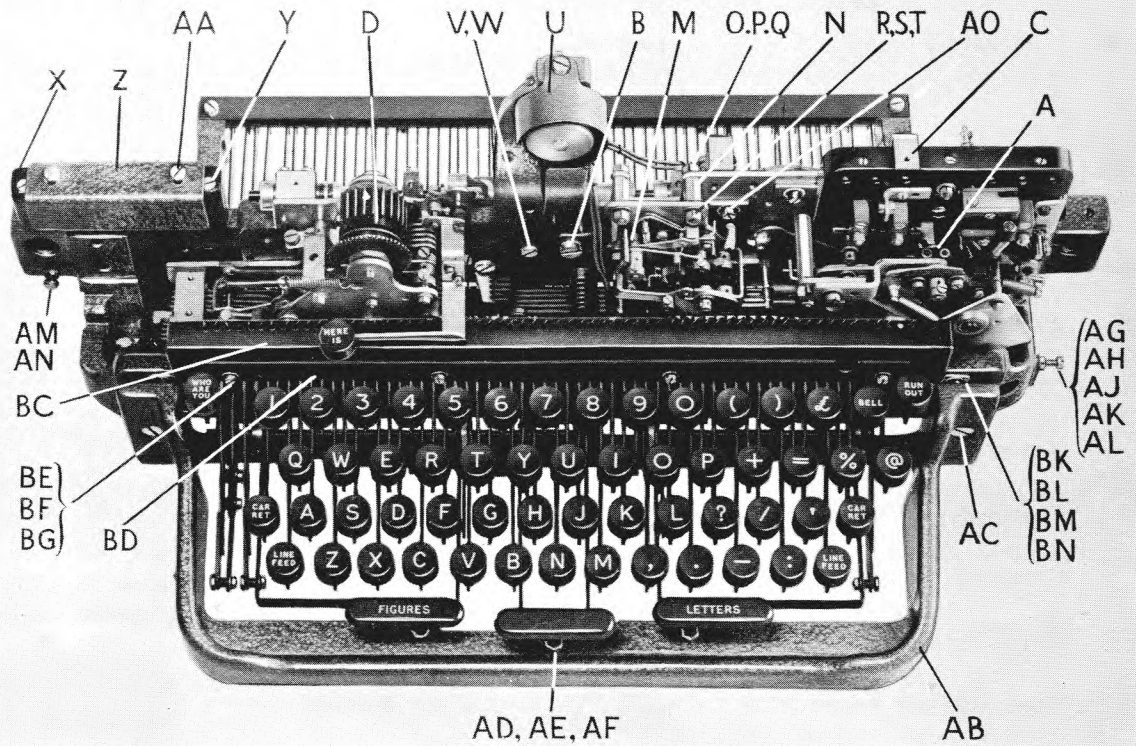


Fig. 1 N4 KEYBOARD UNIT (S2087E) FOR MODEL 7 TELEPRINTER

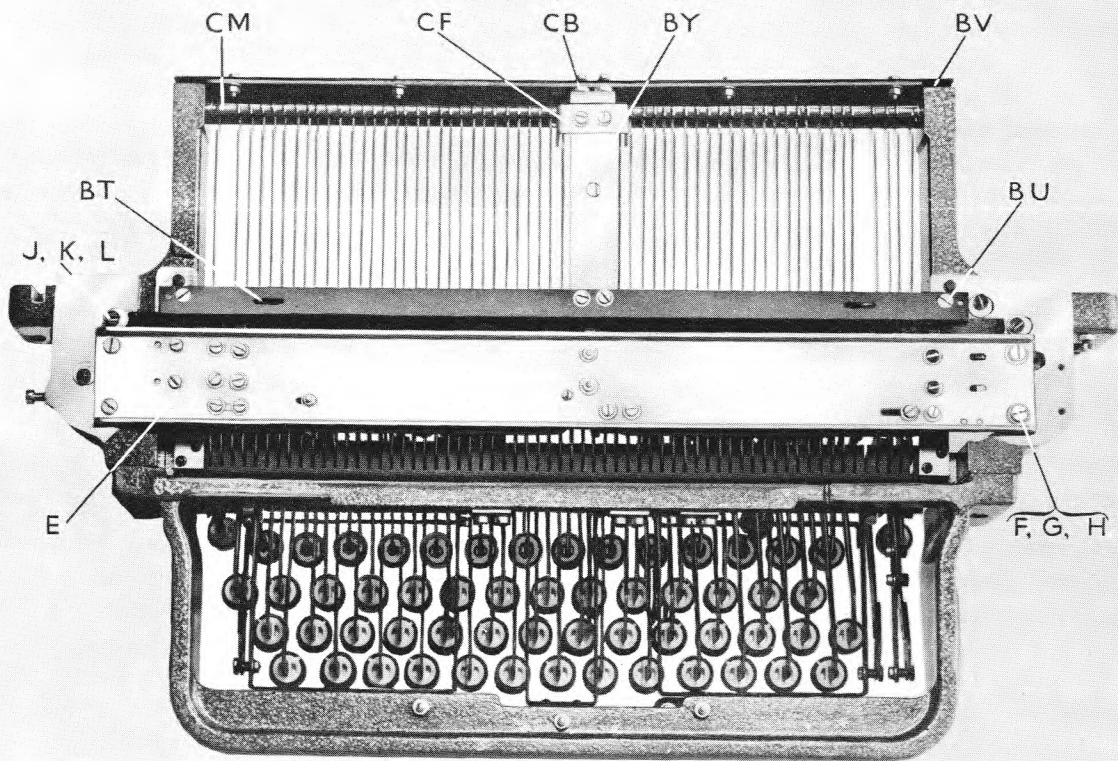


Fig. 2 N4 KEYBOARD UNIT (S2087E) FOR MODEL 7 TELEPRINTER
(UNDERSIDE VIEW)

TYPES N3 AND N4 KEYBOARD S.2087E
FOR MODEL 7 TELEPRINTER AND
MODEL 85 TELEPRINTER PRINTING REPERFORATOR

(See Figs. 1 and 2)

Index Letter	Part No.	Part Name	
A	S.3744B	TRANSMITTER UNIT	See page 25.
B	PS.5234	Special screw (3 per set) for securing item A	
C	2254/136A	Cover bracket (2 per set)	
	PS.2047-1	Std. 6BA screw (4 per set) for securing item C	
	2858/18	Transmitter Cover C.P. (not shown)	
	PS.7028	Special screw (2 per set for securing Transmitter cover)	
D	S.3765	ANSWER BACK UNIT	See page 35
	PS.1771-1	Std. 4BA screw	} 2 of each per set for securing item D (not visible)
	PW.2026	Std. 4BA spring washer	
	PW.5092	Special washer	
E	S.3747A	COMBINATION BAR UNIT	See page 23
F	PS.1687-1	Std. 4BA screw	} 4 of each per set for securing item E
G	PW.2026	Std. 4BA spring washer	
H	PW.1009-1	Std. 4BA washer	
J	PW.5620	Abutment washer (3 per set)	} For positioning item E
K	PW.5557	Special washer (2 per set)	
L	PS.1687-1	Std. 4BA screw (3 per set)	
M	S.2258	COUNTER UNIT	See page 33
N	PP.8870	Counter support pillar (3 per set)	
O	PW.1009-1	Std. 4BA washer	} 3 of each per set for securing item N to item A
P	PW.2026	Std. 4BA spring washer	
Q	PN.1009-1	Std. 4BA nut	
R	PW.1009-1	Std. 4BA washer	} 3 of each per set for securing item M
S	PW.2026	Std. 4BA spring washer	
T	PN.1009-1	Std. 4BA nut	
U	1855/66A	GEAR BRACKET C.P.	See page 19
V	PS.1364-1	Std. 2BA screw	} 3 of each per set for securing item U (not visible)
W	PW.2013	Std. 2BA spring washer	
	1841/11	Coupling disc	
X	1855/82A	Contact block C.P.	
Y	PS.1825-1	Std. 4BA screw (2 per set for securing item X)	
Z	1855/89A	Contact block cover	
AA	PS.1676-1	Std. 4BA screw (2 per set for securing item Z)	
AB		KEYBOARD MASK (these vary according to Keyboard layout)	See page
AC	PS.1066-1	Std. OBA screw (2 per set for securing item AB)	
AD	1855/325	Special stop screw C.P.	} 3 of each per set
AE	PW.2025	Std. 4BA spring washer	
AF	PN.1009-1	Std. 4BA nut	
AG	PS.1875-1	Std. 4BA screw	} Adjustable stop for trip bar
AH	PW.1009-1	Std. 4BA washer	
AJ	PW.2025	Std. 4BA spring washer	
AK	PN.1009-1	Std. 4BA nut	
AL	PN.1509-1	Std. 4BA lock nut (2 per set)	
AM	PS.5032	Special screw	} Abutment for Perforating Attachment (when fitted)
AN	PN.1509-1	Std. 4BA locknut	
	2087/2A	Keyboard cover C.P.	} not shown
	PS.6850	Special screw (2 per set for securing cover C.P.)	
AO	2254/54A	Abutment plate	} Only required when Counter Unit is used. Not part of S.2087E.
	PS.1676-1	Std. 4BA screw	
	PW.2026	Std. 4BA spring washer	
	PW.1009-1	Std. 4BA washer	
	2288/2	Counter resetting link	
	CS.1102	Set collar and screw	

No. 47
TELEPRINTER

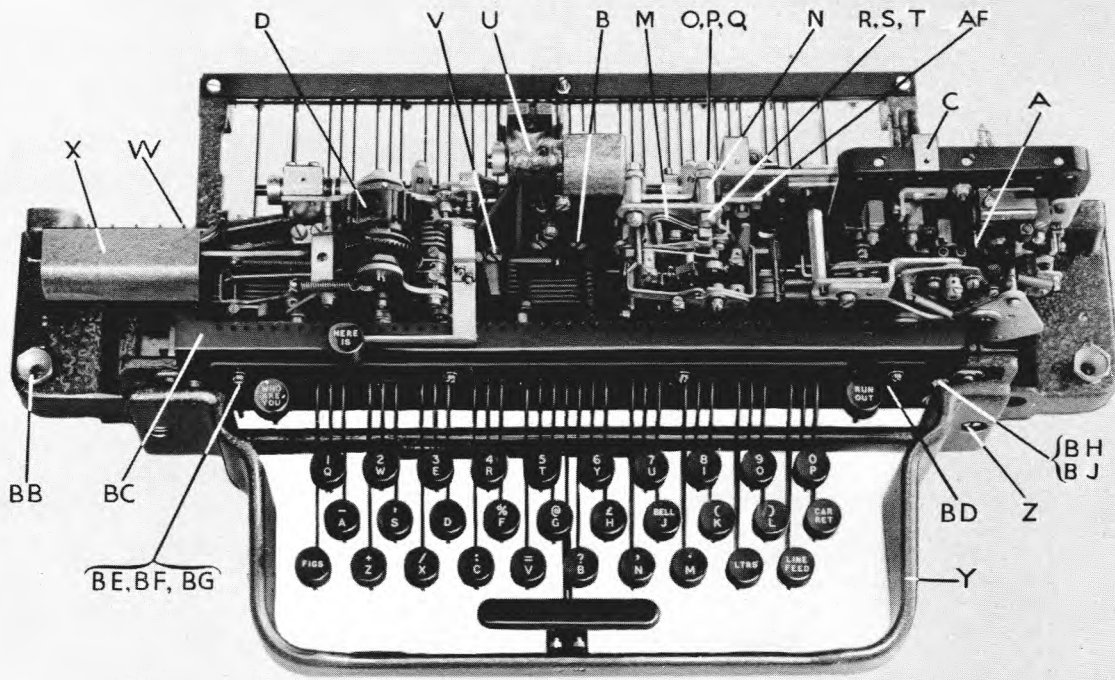


Fig. 3 N3 KEYBOARD UNIT (S2858C) FOR MODEL 47 TELEPRINTER

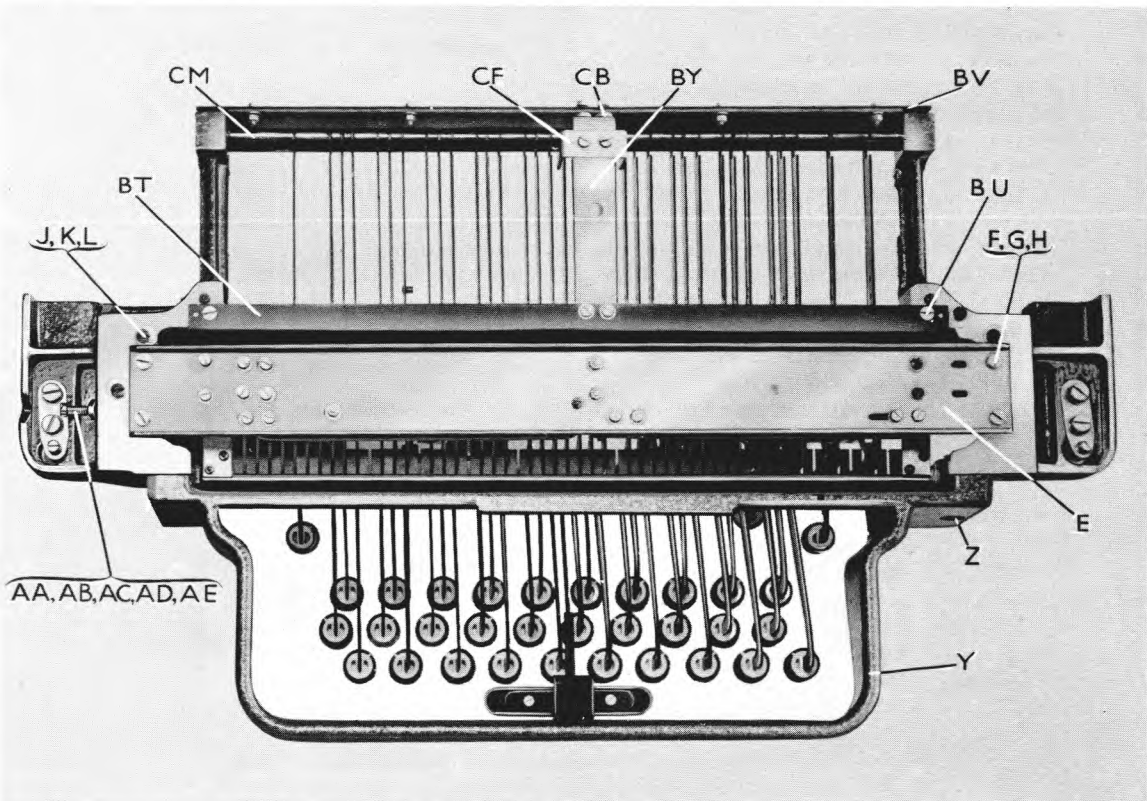


Fig. 4 N3 KEYBOARD UNIT (S2858C) FOR MODEL 47 TELEPRINTER
(UNDERSIDE VIEW)

TYPES N3 AND N4 KEYBOARD S.2858C FOR MODEL 47 TELEPRINTER

(See Figs. 3 and 4)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
A	S.3774B	TRANSMITTER UNIT	<i>See page 25</i>
B	PS.5234	Special screw (3 per set) for securing item A	
C	2254/136A	Cover bracket (2 per set)	
	PS.2047-1	Std. 6BA screw (4 per set) for securing item C	
	2858/18	Transmitter cover C.P. (not shown)	
	PS.7028	Special screw (2 per set) for securing Transmitter cover C.P.	
D	S.3765	ANSWER BACK UNIT	<i>See page 35</i>
	PS.1771-1	Std. 4BA screw	} 2 of each per set for securing item D
	PW.2026	Std. 4BA spring washer	
	PW.5092	Special washer	
E	S.3747A	COMBINATION BAR UNIT	<i>See page 23</i>
F	PS.1687-1	Std. 4BA screw	} 4 of each per set for securing item E
G	PW.2026	Std. 4BA spring washer	
H	PW.1009-1	Std. 4BA washer	
J	PW.5620	Abutment washer (3 per set)	} For positioning item E
K	PW.5557	Special washer (2 per set)	
L	PS.1687-1	Std. 4BA screw (3 per set)	
M	S.2258	COUNTER UNIT	<i>See page 33</i>
N	PP.8870	Counter support pillar (3 per set)	
O	PW.1009-1	Std. 4BA washer	
P	PW.2026	Std. 4BA spring washer	
Q	PN.1009-1	Std. 4BA rut	
R	PW.1009-1	Std. 4BA washer	} 3 of each per set for securing item M
S	PW.2026	Std. 4BA spring washer	
T	PN.1009-1	Std. 4BA nut	
U	2858/1	GEAR BRACKET C.P.	<i>See page 17</i>
V	PS.1332-1	Std. 2BA screw (2 per set) for securing item U	
	1841/11	Coupling disc (not visible)	
W	2859/6	Contact block C.P.	
	PS.1771-1	Std. 4BA screw	} for securing item R. (not visible)
	PW.1009-1	Std. 4BA washer	
X	2859/5	Contact block cover	
	PS.2061-1	Std. 6BA screw (for securing item S) not visible	
Y		KEYBOARD MASK (these vary according to the keyboard layout)	<i>See page 15</i>
Z	PS.1066-1	Std. OBA screw (2 per set) for securing keyboard mask	
AA	PS.1875-1	Std. 4BA screw	} Adjustable stop for trip bar
AB	PW.1009-1	Std. 4BA washer	
AC	PN.1509-1	Std. 4BA locknut (2 per set)	
AD	PW.2025	Std. 4BA spring washer	
AE	PN.1009-1	Std. 4BA nut	
AF	2254/54A	Abutment plate	
	PS.1676-1	Std. 4BA screw	} for securing item AA
	PW.2026	Std. 4BA spring washer	
	PW.1009-1	Std. 4BA washer	

No. 54
TELEPRINTER

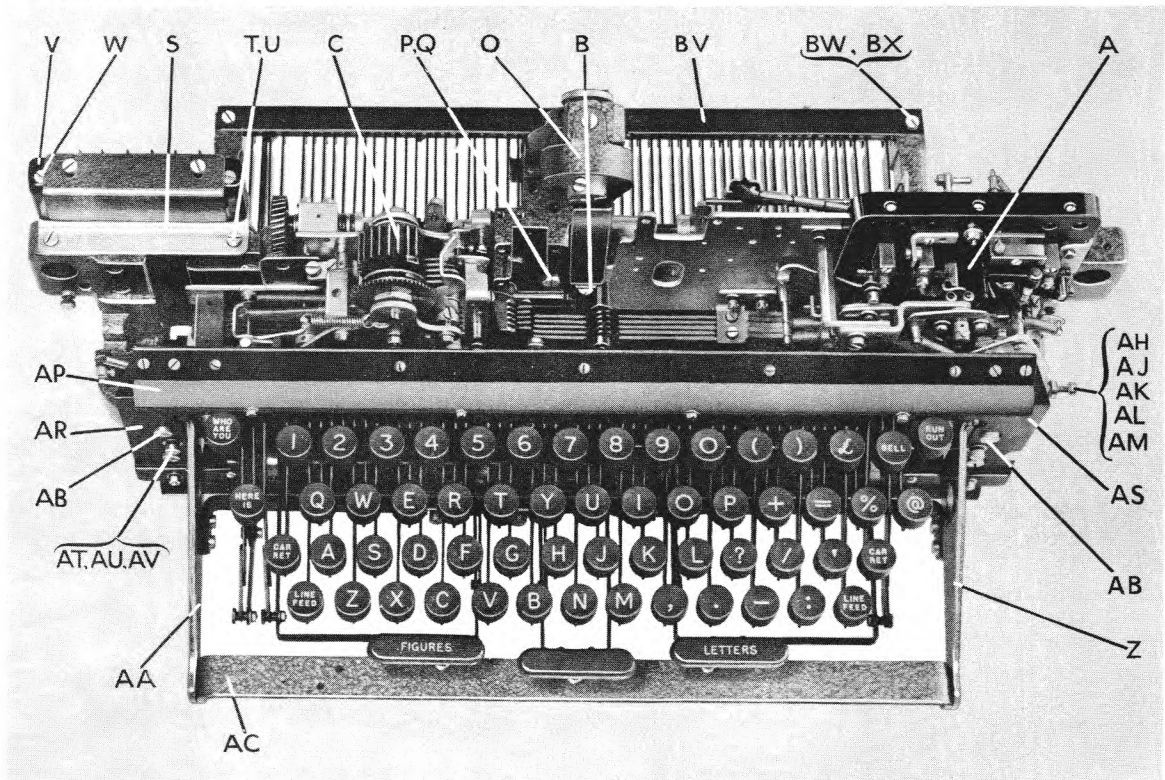


Fig. 5 N4 KEYBOARD UNIT (S3813) FOR MODEL 54 TELEPRINTER

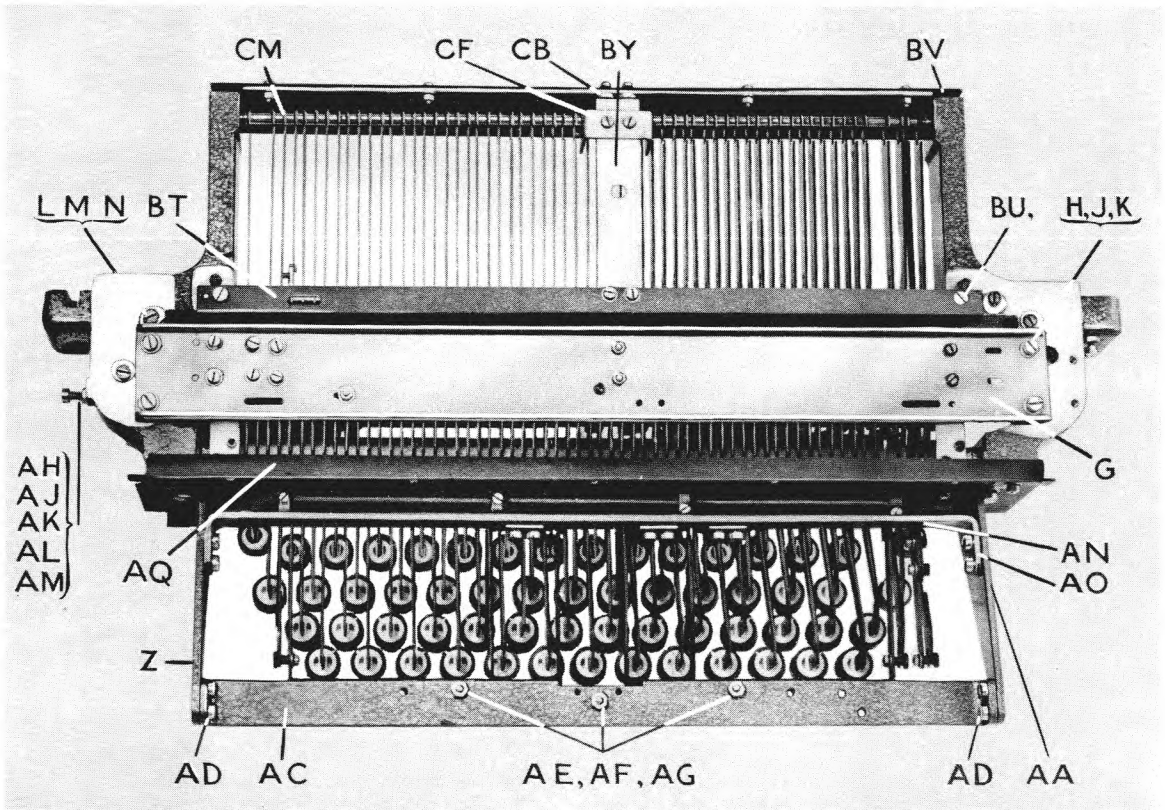


Fig. 6 N4 KEYBOARD UNIT (S3813) FOR MODEL 54 TELEPRINTER
(UNDERSIDE VIEW)

**TYPES N3 AND N4 KEYBOARD S.3813
FOR MODEL 54 TELEPRINTER**
(See Figs. 5, 6 and 7)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
A	S.3744B	TRANSMITTER UNIT	<i>See page 25</i>
B	PS.5234	Special screw (3 per set) for securing item A	
C	S.3809	ANSWER BACK UNIT	<i>See page 35</i>
D	PS.1771-1	Std. 4BA screw	} 2 of each per set for securing item C
E	PW.2026	Std. 4BA spring washer	
F	PW.5092	Special washer	
G	S.3747A	COMBINATION BAR UNIT	<i>See page 23</i>
H	PS.1687-1	Std. 4BA screw	} 4 of each per set for securing item G
J	PW.2026	Std. 4BA spring washer	
K	PW.1009-1	Std. 4BA washer	
L	PW.5620	Abutment washer (3 per set)	} For positioning item G
M	PW.5557	Special washer (2 per set)	
N	PS.1687-1	Std. 4BA screw (3 per set)	
O	1855/386	GEAR BRACKET C.P.	<i>See page 21</i>
P	PS.1364-1	Std. 2BA screw	} 3 of each per set for securing item O
Q	PW.2013	Std. 2BA spring washer	
R	1841/11	Coupling disc	
S	1836/341	Contact block bracket	
T	PS.1687-1	Std. 4BA screw	} 2 of each per set for securing item S
U	PW.2025	Std. 4BA spring washer	
V	1855/82A	Contact block C.P.	
W	PS.1811-1	Std. 4BA screw (2 per set) for securing item V	
X	1855/89A	Contact block cover	
Y	PS.1676-1	Std. 4BA screw (2 per set) for securing item X	
Z	1855/435	Bracket (R.H.)	
AA	1855/436	Bracket (L.H.)	
AB	PS.1332-1	Std. 2BA screw (4 per set) for securing items Z and AA	
AC	1855/438	Space bar stop	
AD	PS.1676-1	Std. 4BA screw (4 per set) for securing item AC to item Z and item AA	
AE	1855/325	Special stop screw C.P.	} 3 of each per set
AF	PW.2025	Std. 4BA spring washer	
AG	PN.1009-1	Std. 4BA nut	
AH	PS.1875-1	Std. 4BA screw	} Adjustable stop for trip bar
AJ	PW.1009-1	Std. 4BA washer	
AK	PN.1509-1	Std. 4BA locknut (2 per set)	
AL	PW.2025	Std. 4BA spring washer	
AM	PN.1009-1	Std. 4BA nut	
AN	1855/437	Keybar stop bar	
AO	PS.1676-1	Std. 4BA screw (4 per set) for securing item AN	

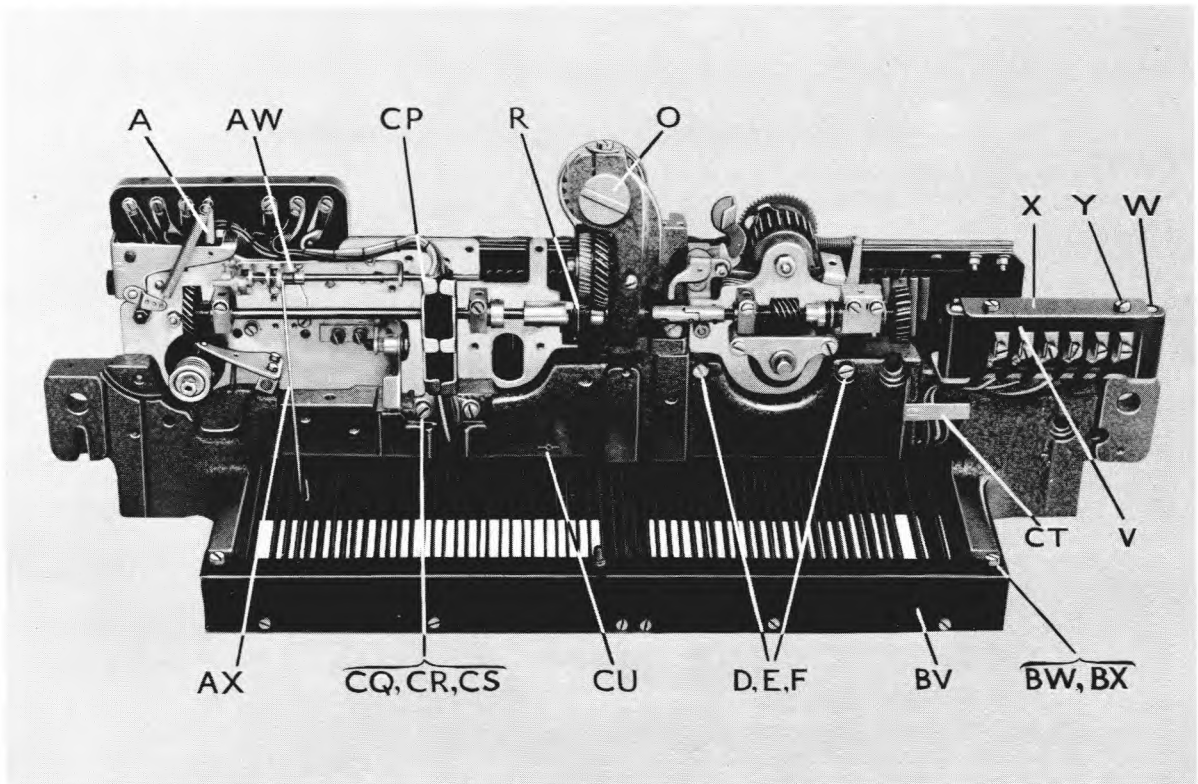


Fig. 7 KEYBOARD UNIT (S3813) FOR MODEL 54 TELEPRINTER
(REAR VIEW)

TYPES N3 AND N4 KEYBOARD S.3813
FOR MODEL 54 TELEPRINTER (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
	1855/433	Keyboard seal C.P. <i>includes:-</i>
AP	1855/430	Top seal C.P.
AQ	1855/432	Bottom seal C.P.
AR	1855/424A	Side plate C.P. (L.H.)
AS	1855/423B	Side plate C.P. (R.H.)
AT	PS.1659-1	Std. 4BA screw
AU	PW.2025	Std. 4BA spring washer
AV	PW.1009-1	Std. 4BA washer
		} 2 of each per set for securing Keyboard Seal C.P.
KEYBOARD MOTOR START MECHANISM		
AW	2254/201	Transfer lever C.P. <i>includes:-</i>
	3808/1A	Bearing bracket
	2254/190	Transfer lever (2 per set)
	PP.8889	Shouldered pin
	PW.1013-1	Std. 6BA washer
	PN.1013-1	Std. 6BA nut
	PP.6795	Spindle
	PG.3148A	Return spring
	PW.5010	Special washer (2 per set)
	PS.2045-1	Std. 6BA screw
	PW.2037	Std. 6BA spring washer
		} 2 of each per set for securing item AW
AX	1855/405	Keybar connecting link

KEYBARS
(See Figs. 8 and 9)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
DA	2088/58	Lock Keybar C.P. (for Models 7 and 47 only)
	1855/376A	Lock Keybar C.P. (for Model 54 only)
DB	1855/489	"Who Are You" (Top Row) For Models 7 and 47 only
	1855/411A	"Who Are You" (Top Row) For Model 54 only
DC	1855/248	"Who Are You" (4th Row) } See Fig. 9
DD		"Who Are You" (Operating) } Group 3
DE	1855/454	"Run Out" (Top Row) } For Models
	1855/488 or	"Run Out" (Top Row) } 7 and 47 only
	1855/459	"Run Out" (2nd Row)
	1855/377A	"Here is" (2nd Row)
	1855/478 or	"Here is" (2nd Row) } Model 54 only
	1855/414	Special "Letters" (4th Row)
	1855/482	"Run Out" (2nd Row)
DF	1855/9B	1st Row
DG	1855/10C	2nd Row
DH	1855/11C	3rd Row
DJ	1855/12C	4th Row
DK	KB.1006	Keybutton (Green moulding)
	KB.1005	Keybutton } Green moulding for Special
	KB.1004	Keybutton } Keybars on Model 54 only.
	KB.1006/1	Keybutton (Red moulding)
	KB.1007	Keybutton (with milled flat)

NOTE 1:- Specify inscription required on Keybuttons item DK.

NOTE 2:- 2nd, 3rd and 4th row Keys DG, DH and DJ are used in the top, middle and bottom rows respectively of 3 row Keyboards.

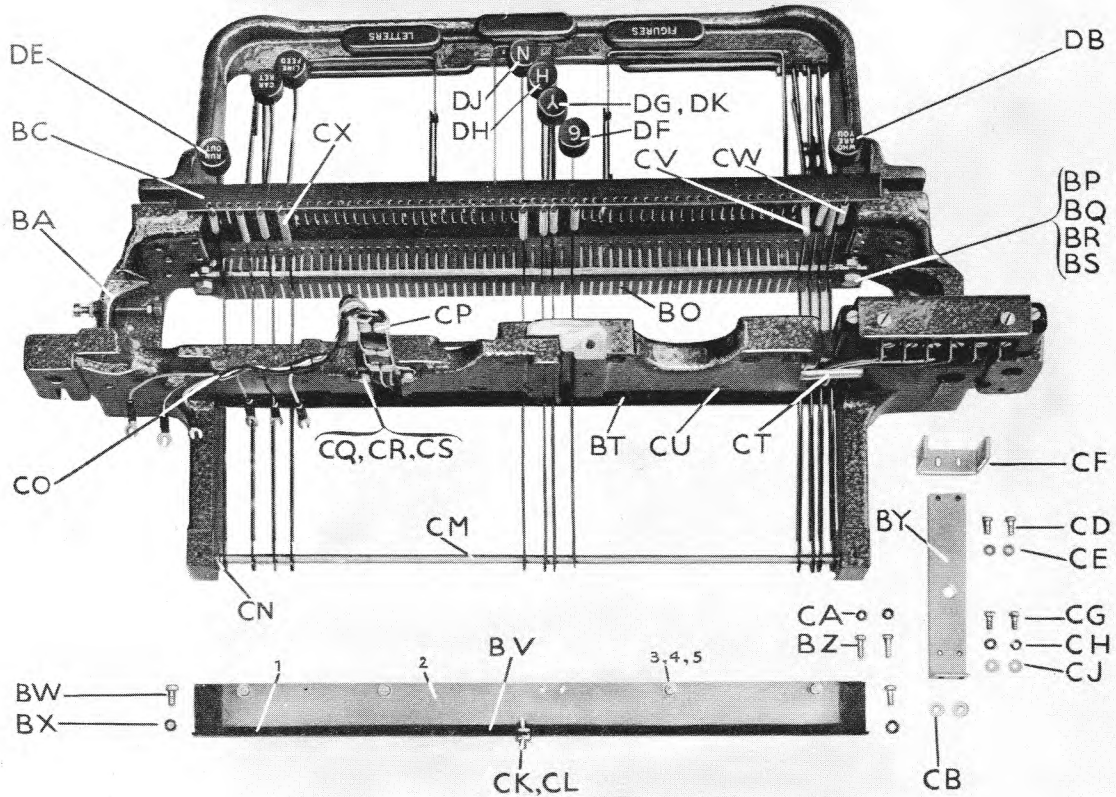


Fig. 8 KEYBOARD PARTIAL ASSEMBLY

KEYBOARD PARTIAL ASSEMBLY

(See Figs. 1, 2, 3, 4, 5, 6, 7, and 8)

Index Letter	Part No.		Part Name	
	Model 47	Models 7 and 54		
CASTING AND RACKS				
BA	2859/28	1855/269A	Keyboard Casting C.P.	Comprises machined and enamelled Casting with pins driven in.
BB	2860/43	—	Cover mounting socket	
	PS.2125-1	—	Std. 6BA screw	} 2 of each per set
	PN.1013-1	—	Std. 6BA nut	
	2841/45	—	Socket Support Plate	} For securing socket support plate to item BA. (2 of each per plate)
	PS.1332-1	—	Std. 2BA screw	
	PW.2013	—	Std. 2BA spring washer	
	PW.1005-1	—	Std. 2BA washer	
BC	1855/169B	1855/169B	Front rack C.P. ($\frac{3}{16}$ " pitch) for 4 row Keyboards	} comprises:-
	2088/25B	2088/25B or	Front rack C.P. ($\frac{7}{32}$ " pitch) for 3 row Keyboards	
	1855/443	1855/443	Front rack Sub C.P. ($\frac{3}{16}$ " pitch)	
	2088/61	2088/61	Front rack Sub C.P. ($\frac{7}{32}$ " pitch)	
BD	1855/263A	1855/263A	Stop Plate	} 4 of each per set for securing item BD.
BE	PS.2077-1	PS.2077-1	Std. 6BA screw	
BF	PW.2037	PW.2037	Std. 6BA spring washer	
BG	PW.1013-1	PW.1013-1	Std. 6BA washer	} 2 of each per set for securing item BC.
BH	PS.5264A	PS.5264A	Special screw	
BJ	PW.1009-1	PW.1009-1	Std. 4BA washer	

KEYBOARD PARTIAL ASSEMBLY (CONTD.)

(See Figs. 1, 2, 3, 4, 5, 6, 7, and 8)

Index Letter	Part No.		Part Name	
	Model 47	Models 7 and 54		
<i>CASTING AND RACKS (continued)</i>				
BK	2084/171	2084/171	Abutment plate	
BL	PS.2077-1	PS.2077-1	Std. 6BA screw	}
BM	PW.2037	PW.2037	Std. 6BA spring washer	
BN	PW.1013-1	PW.1013-1	Std. 6BA washer	
BO	2088/43	2088/43	Keybar guide rack ($\frac{3}{16}$ " pitch) for 4 row Keyboards.	}
	2088/42	2088/42	or Keybar guide rack ($\frac{7}{32}$ " pitch) for 3 row Keyboards.	
BP	PS.5594	PS.5594	Special screw	}
BQ	PW.1009-1	PW.1009-1	Std. 4BA washer	
BR	PW.2025	PW.2025	Std. 4BA spring washer	
BS	PN.1013-1	PN.1013-1	Std. 4BA nut	
BT	1855/52B	1855/52B	Back rack ($\frac{3}{16}$ " pitch) for 4 row Keyboards.	}
	2088/2B	2088/2B	or Back rack ($\frac{7}{32}$ " pitch) for 3 row Keyboards.	
BU	PS.1687-1	PS.1687-1	Std. 4BA screw (2 per set) for securing item BT.	
<i>KEYBARS, CABLE FORM AND CABLE CLEATS</i>				
BV	1855/127B	1855/127B	Keybar Keep Plate C.P. comprises:-	
BV.1	1855/54C	1855/54C	Keep Plate	}
BV.2	1855/125C	1855/125C	Keybar buffer	
BV.3	PS.2077/1	PS.2077-1	Std. 6BA screw	
BV.4	PW.2037	PW.2037	Std. 6BA spring washer	
BV.5	PN.1013-1	PN.1013-1	Std. 6BA nut	}
BW	PS.1676-1	PS.1676-1	Std. 4BA screw	}
BX	PW.2025	PW.2025	Std. 4BA spring washer	
BY	1855/352	1855/352	Support Bar	}
BZ	PS.2093-1	PS.2093-1	Std. 6BA screw	
CA	PW.2038	PW.2038	Std. 6BA spring washer	
CB	PW.5529	PW.5529	Spacing washer	
CD	PS.2061-1	PS.2061-1	Std. 6BA screw	
CE	PW.2037	PW.2037	Std. 6BA spring washer	}
CF	1855/351	1851/351	Pivot Support Plate	
CG	PS.2061-1	PS.2061-1	Std. 6BA screw	}
CH	PW.2037	PW.2037	Std. 6BA spring washer	
CJ	PW.1013-1	PW.1013-1	Std. 6BA washer	
CK	PS.1749-1	PS.1749-1	Std. 4BA grub screw	}
CL	PN.1509-1	PN.1509-1	Std. 4BA locknut	
CM	1855/838	1855/838	Keyboard pivot	}
CN	BO.3228	BO.3228	Anderton clip (2 per set) for retaining item CM.	
CO	CF.1313	CF.1150B	Cable form C.P. includes:-	
CP	2859/12	1855/275	Cable trough	}
CQ	PS.1676-1	PS.1676-1	Std. 4BA screw	
CR	-	PW.2025	Std. 4BA spring washer	
CS	-	PW.1009-1	Std. 4BA washer	
	2859/10	-	Cable Cleat (2 per set)	}
	2859/4	-	Cable Cleat	
	PS.1676-1	-	Std. 4BA screw (3 per set) for securing cable cleats	
CT	-	1855/128	Cable keep plate	}
	-	PS.1696-1	Std. 4BA screw (for securing cable keep plate)	
CU	-	PP.5054	Split pin (2 per set) for retaining item CO	
CV	PG.7077	PG.7077	Tension spring (for spacebars)	}
CW	PG.7120	PG.7120	Tension spring (for "who are you" Keybar) for models 7 and 47 only.	
	-	PG.7184	Tension spring (for "here is" Keybar) for model 54 only (not shown)	}
CX	PG.7066	PG.7066	Tension spring (for all other Keybars) for models 7 and 47 only.	
	-	PG.7068	or Tension spring (for all other Keybars) for model 54 only.	
	-	1855/381	Spring Link (used in conjunction with lock Keybar C.P.) for Model 54 only. (not shown).	

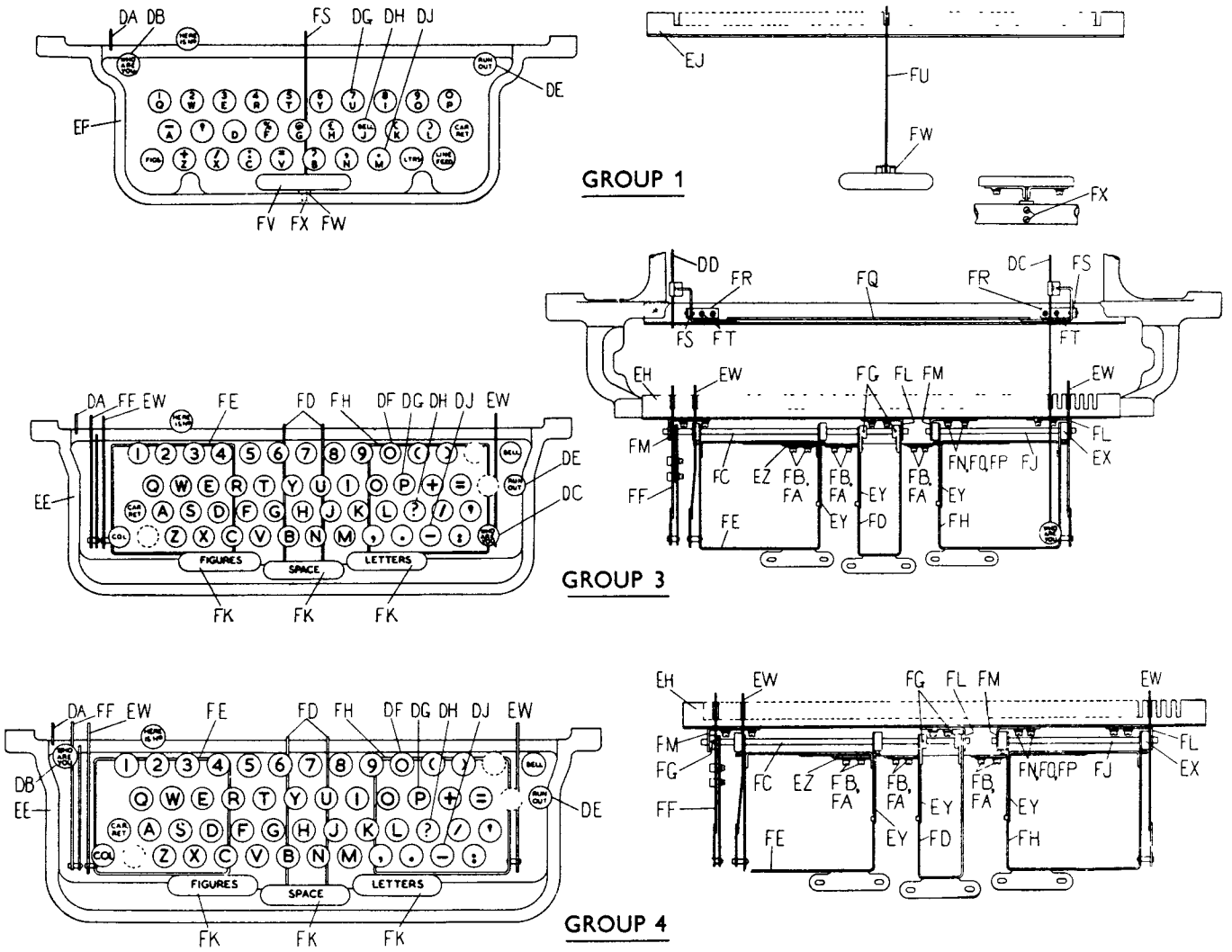


Fig. 9 KEYBOARD MASKS AND SPACE BAR ARRANGEMENTS

KEYBOARD MASKS AND SPACE BAR ARRANGEMENTS

(See Fig 9)

Index Letter	Part No.	Quantity for Groups			Part Name
		3	1	4	
EE	1855/209	1	-	1	Keyboard Mask
EF	2088/51	-	1	-	or Keyboard Mask
EH	2088/41 Gr.4	1	-	1	Keybar Stop Plate C.P.
EJ	2088/41 Gr.2	-	1	-	or Keybar Stop Plate C.P.
EK	PS.5264A	2	2	2	Special screw
EL	PW.1009-1	2	2	2	Std. 4BA washer
	1855/190				Space Keybar C.P. (3 per set for Models 7 and 47, 2 per set for Model 54)
	1855/406				Space Keybar C.P. (for Model 54 only. Not shown. Pivots on Letters Shift Frame).
EX	CS.1069	3	-	3	Set collar and screw
EY	1855/194	3	-	3	Space Lever Frame Stop C.P. (R.H.)
EZ	1855/195	3	-	3	Clamp Plate
FA	PS.1694-1	8	-	8	Std. 4BA screw
FB	PW.2025	8	-	8	Std. 4BA spring washer
	1855/469	1	-	1	* Space and Figures frames and levers C.P. includes :-
FC	1855/214	1	-	1	Space and Figures Frame Spindle
FD	1855/467	1	-	1	Space Frame C.P.
FE	1855/468	1	-	1	Figures Shift Frame C.P.
FF	1855/219	1	-	1	Space Key Lever C.P.
FG	PP.2042	3	-	3	Grooved Pin
	CS.1064	2	-	2	Set collar and screw (for positioning item FE)
	1855/466	1	-	1	* Letters Frame C.P. includes :-
FH	1855/221	1	-	1	Letters Frame Sub C.P.
FJ	1855/228	1	-	1	Letters Frame Spindle
FK	3813/11	2	-	2	Pad C.P. (included in items FE and FH) State engraving required.
	3813/12	1	-	1	Space Pad C.P. (included in item FD)
FL	1855/230	2	-	2	Shift Spindle Support (R.H.)
FM	1855/229	2	-	2	Shift Spindle Support (L.H.)
FN	PS.2061-1	8	-	8	Std. 6BA screw
FO	PW.1013-1	8	-	8	Std. 6BA washer
FP	PW.2038	8	-	8	Std. 6BA spring washer
FQ	1855/241	1	-	-	Keybar Connecting Frame C.P.
FR	1855/252	2	-	-	Bearing Bracket C.P.
FS	PW.5021	2	-	-	Special washer (between items FQ and FR)
FT	PS.2061-1	4	-	-	Std. 6BA screw
	PW.1013-1	4	-	-	Std. 6BA washer
	PW.2037	4	-	-	Std. 6BA spring washer
	PN.1013-1	4	-	-	Std. 6BA nut
FU	2088/9A	-	1	-	Space Keybar Sub C.P.
FV	3813/8	-	1	-	* Space Bar Pad C.P. (Model 7 only)
	3813/10	-	1	-	or * Space Bar Pad C.P. (Models 47 and 54 only)
	PS.2057-1	-	2	-	Std. 6BA screw
	PW.2038	-	2	-	Std. 6BA spring washer
FW	2088/13A	-	1	-	Space Keybar Guide (for Models 7 and 47 Teleprinters only)
	1855/441	-	1	-	or Space Keybar Guide (for Model 54 Teleprinter only)
FX	PS.2143-1	-	2	-	Std. 6BA screw
	PW.1013-1	-	2	-	Std. 6BA washer
	PW.2038	-	2	-	Std. 6BA spring washer
	PS.2061-1	-	2	-	Std. 6BA screw
	PW.2038	-	2	-	Std. 6BA spring washer

} For securing item EH or EJ.

} For securing item EZ.

* Space and Figures frames and levers C.P. includes :-

* Letters Frame C.P. includes :-

} For connecting
"Who are you"
(4th row) key-
bar, Item DC to
"Who are you"
(operating) key-
bar, item DD.

* When ordering these items, the required engraving must be specified.

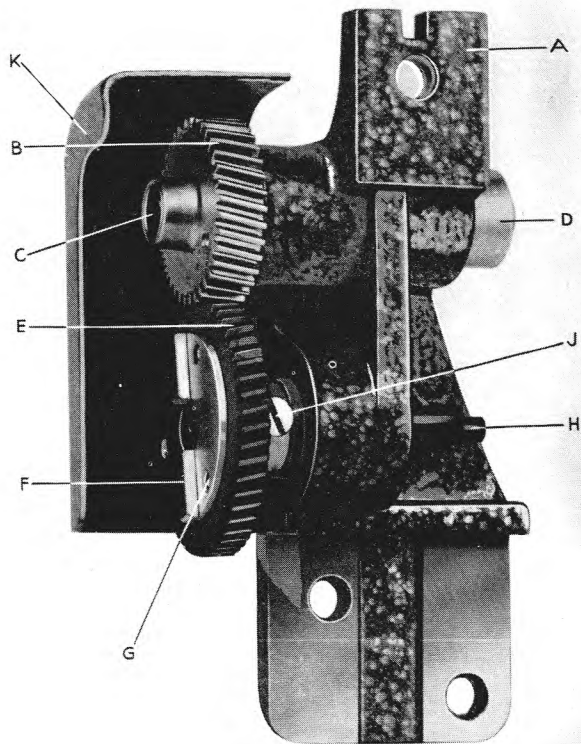


Fig.10 GEAR BRACKET C.P.
FOR MODEL 47 TELEPRINTER

**GEAR BRACKET CP 2858/1 (GR.1. FOR 7½ UNIT TRANSMISSION)
(GR.2. FOR 7 UNIT TRANSMISSION)
(See. Fig 10.)**

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	2858/2	Gear bracket sub C.P. <i>comprises machined and enamelled casting and the following replaceable parts :-</i>
	PB.4074	Oil impregnated bearing (2 per set) } <i>These items must be reamed</i>
	PE.1027	Shouldered bush } <i>to size before fitting.</i>
	2858/5	Driven gear C.P. (7½ Unit) } <i>Comprise :-</i>
	2858/12	or Driven gear C.P. (7 Unit) not shown }
B	2858/6	Gear (35 teeth)
	2858/13	Gear (25 teeth) 7 Unit only.
C	2858/7	Spindle (7½ Unit)
	2858/14	Spindle (7 Unit)
	PS.2109-1	Std. 6BA screw (2 per set) for securing gears 2858/6 and 2858/13 together, required for 7 Unit only.
D	CS.1065	Set Collar and screw
	2858/10	Driver gear C.P. (7½ Unit) } <i>Comprise :-</i>
	2858/11	or Driver gear C.P. (7 Unit) }
E	2858/4A	Gear (48 teeth) 7½ Unit
	2858/15A	Gear (32 teeth) 7 Unit
F	1855/61C	Driving Coupling
G	PS.2047-1	Std. 6BA screw (3 per set) for securing item F to item E
H	1855/154A	Gear Spindle
J	PS.2042-1	Std. 6BA screw
K	2858/17	Gear guard
	PS.1676-1	Std. 4BA screw (2 per set) for securing item K.

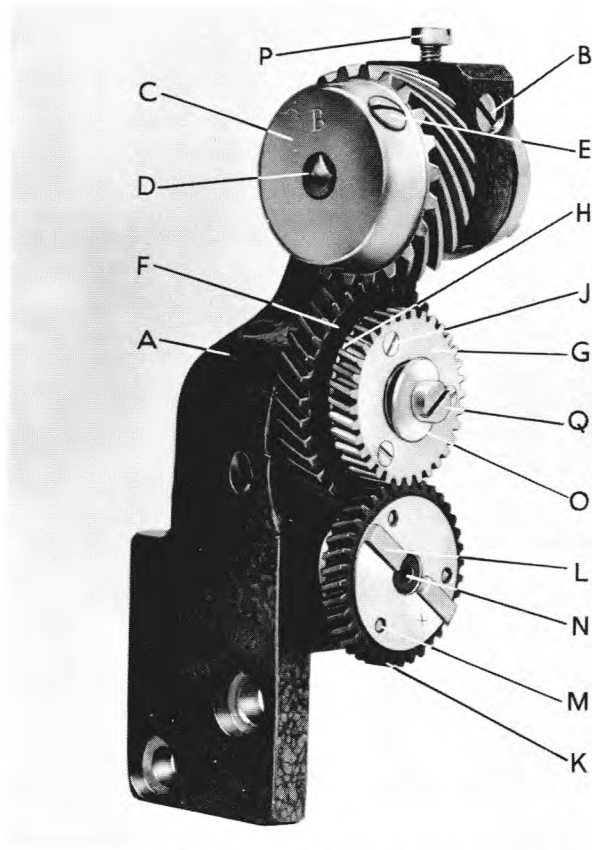


Fig.11 GEAR BRACKET C.P.
FOR MODEL 7 TELEPRINTER
AND MODEL 85 TELEPRINTER
PRINTING REPERFORATOR

**GEAR BRACKET CP 1855/66A. (GR.3 FOR $7\frac{1}{2}$ UNIT TRANSMISSION)
(G.R4 FOR 7 UNIT TRANSMISSION)
(See Fig. 11.)**

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	1855/55B Gr.1	Gear Bracket Sub C.P. <i>includes</i>
	P.B.1207	Shouldered bush
	1855/267A	Parallel bush C.P.
B	PS 1761-1	Std. 4BA screw (<i>for clamping parallel bush C.P.</i>)
C	GR.4045B	Driver Gear ($7\frac{1}{2}$ Unit) 22 teeth.
	GR.4057B	or Driver Gear (7 Unit) 20 teeth.
D	1822/4A	Layshaft Gear Spindle
E	PS.1694-1	Std. 4BA screw (<i>for securing item C to item D</i>)
	1855/272A	Intermediate gear C.P. ($7\frac{1}{2}$ Unit) } <i>comprise:-</i>
	2830/9A	or Intermediate gear C.P. (7 Unit) }
F	GR.4046A	Gear ($7\frac{1}{2}$ Unit) 33 teeth.
	GR.4049A	or Gear (7 Unit) 28 teeth.
G	GR.4047	Gear (33 teeth)
H	1855/58	Special washer (<i>between items F and G</i>)
	1855/56	Special shouldered bush
J	1855/171	Special screw (3 per set)
	P.B.1206	Parallel bush
	8373	Hoffman ball cage } <i>for intermediate</i>
	1855/59	Intermediate shaft } <i>gear C.P.</i>
	PS.1361-1	Std. 2BA grub screw }
	1855/273	Final Gear C.P. <i>comprises:-</i>
K	GR.4048A	Gear (36 teeth)
L	1855/61C	Driving Coupling
M	PS.2047-1	Std. 6BA screw (3 per set)
N	1855/154A	Gear Spindle
	PS.2029-1	Std. 6BA screw
	1855/87B	Gear cover (<i>not shown</i>)
O	PW.5080	Special washer
P	PS.1659-1	Std. 4BA screw } <i>for securing gear cover.</i>
Q	PS.1687-1	Std. 4BA screw }

**GEAR BRACKET CP 1855/386. (GR.3 FOR $7\frac{1}{2}$ UNIT TRANSMISSION)
(GR.4 FOR 7 UNIT TRANSMISSION)
(See Fig. 12.)**

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
A	1855/385	Gear bracket sub C.P. <i>includes :-</i>
	PB.1207	Shouldered bush
	1855/391	Parallel bush C.P.
B	PS.1761-1	Std. 4BA screw (<i>for clamping parallel bush</i>)
C	GR.2184	Driver gear ($7\frac{1}{2}$ Unit) 22 teeth
	GR.2185	or Driver gear (7 Unit) 20 teeth
D	1855/384	Layshaft gear spindle
E	PS.1717-1	Std. 4BA screw (<i>for securing item GR.C to D</i>)
	1855/272A	Intermediate gear C.P. ($7\frac{1}{2}$ Unit) } <i>comprise :-</i>
	2830/9A	or Intermediate gear C.P. (7 Unit) }
F	GR.4046A	Gear ($7\frac{1}{2}$ Unit) 33 teeth
	GR.4049A	or Gear (7 Unit) 28 teeth
G	GR.4047	Gear (33 teeth)
H	1855/58	Special washer
	1855/56	Special shouldered bush
J	1855/171	Special screw (3 per set)
	PB.1206	Parallel bush
		Hoffman ball cage ($EW\frac{1}{4}$) } <i>For intermediate</i>
	1855/59	Intermediate shaft } <i>gear C.P.</i>
	PS.1361-1	Std. 2BA grub screw
	1855/273	Final gear C.P. <i>comprises :-</i>
K	GR.4048A	Gear (36 teeth)
L	1855/61C	Driving coupling
M	PS.2047-1	Std. 6BA screw (3 per set)
N	1855/154A	Gear spindle
	PS.2029-1	Std. 6BA screw
	1855/387	Gear cover (<i>not shown</i>)
O	PW.5080	Special washer
P	PS.1659-1	Std. 4BA screw } <i>for securing gear cover.</i>
Q	PS.1687-1	Std. 4BA screw }

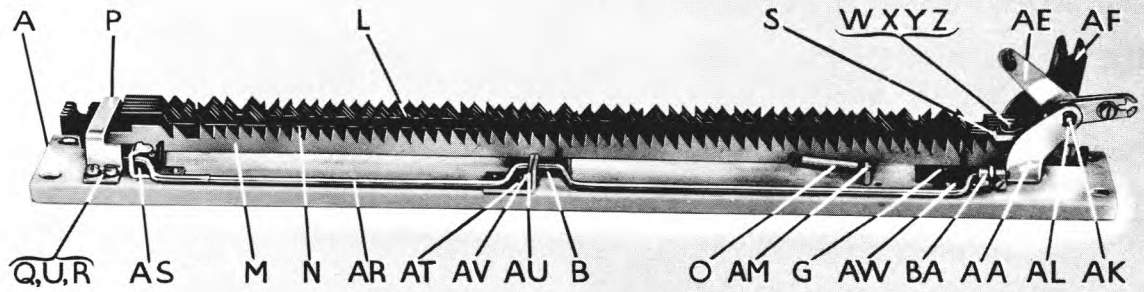


Fig.13 COMBINATION BAR UNIT S3747A

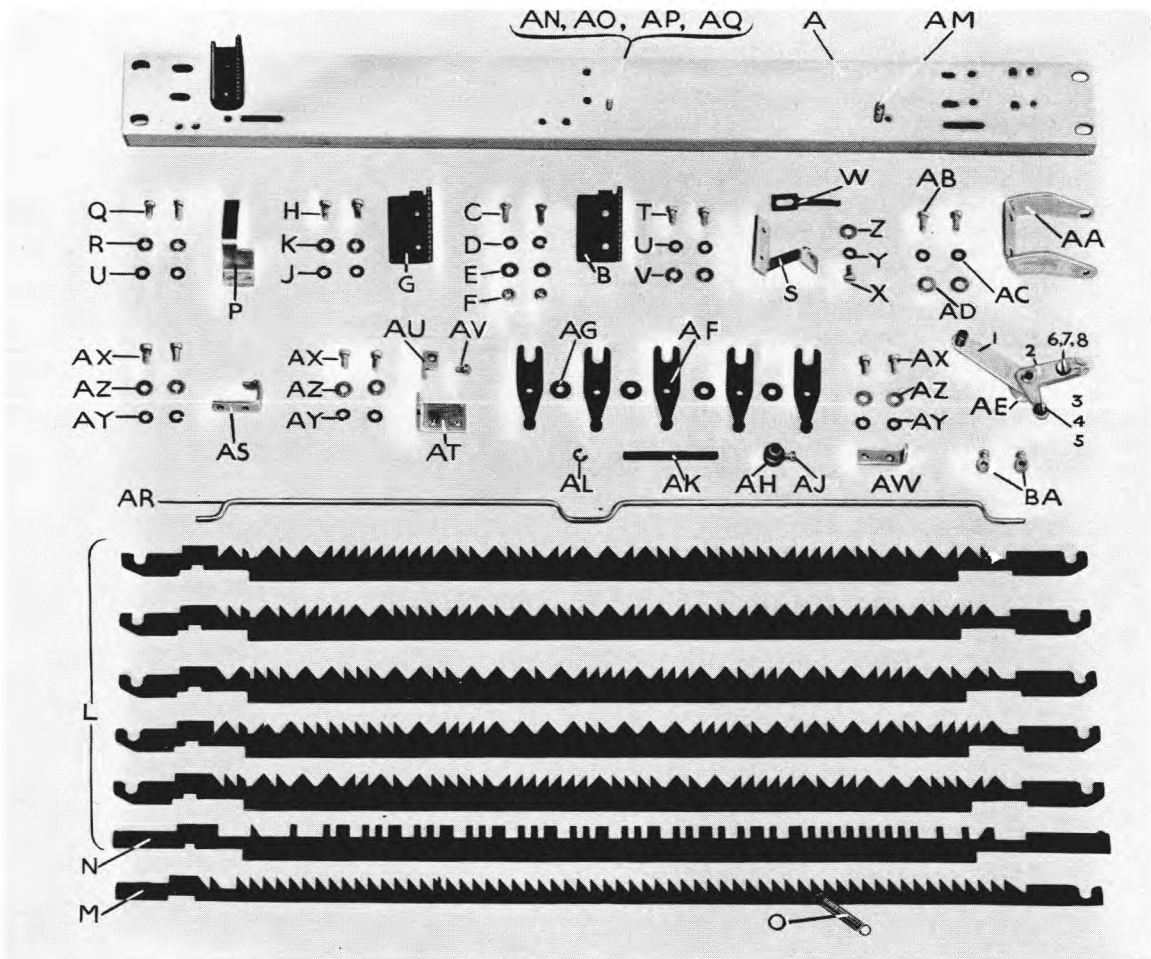


Fig.14 COMBINATION BAR UNIT S3747A COMPONENTS

COMBINATION BAR UNIT S.3747A

(See Figs 13 and 14)

Index Letter	Part No.	Part Name
A	3707/1A	Combination bar support plate
B	2255/31A	Middle rack
C	PS.2079-1	Std. 6BA screw
D	PW.2037	Std. 6BA spring washer
E	PW.1013-1	Std. 6BA washer
F	PN.1513-1	Std. 6BA locknut
G	2255/55	Rack (R.H.)
H	PS.2057-1	Std. 6BA screw
J	PW.2037	Std. 6BA spring washer
K	PW.1013-1	Std. 6BA washer
L	Part Nos.	Combination bar (1-5)
M	vary accord-	Trip bar C.P.
N	ing to chart.	Locking bar C.P.
O	PG.7362	Tension spring (for item M)
P	2091/35A	Bar retaining bracket
Q	PS.2057-1	Std. 6BA screw
U	PW.2037	Std. 6BA spring washer
R	PW.5190	Special washer
S	2255/57	Bias spring bracket
T	PS.2057-1	Std. 6BA screw
U	PW.2037	Std. 6BA spring washer
V	PW.1013-1	Std. 6BA washer
W	2091/26	Bias spring
X	PS.2057-1	Std. 6BA screw
Y	PW.2037	Std. 6BA spring washer
Z	PW.1013-1	Std. 6BA washer
AA	3707/5A	Connecting lever frame
AB	PS.2057-1	Std. 6BA screw
AC	PW.2037	Std. 6BA spring washer
AD	PW.1013-1	Std. 6BA washer
AE	2091/27B	Trip lever C.P. comprises :-
AE1	2091/37C	Trip lever sub C.P.
AE2	2255/28A	Trip adjusting lever
AE3	PS.6108	Special screw
AE4	PW.2050	Std. 8BA spring washer
AE5	PN.1517-1	Std. 8BA nut
AE6	PS.2045-1	Std. 6BA screw
AE7	PW.2037	Std. 6BA spring washer
AE8	PW.1013-1	Std. 6BA washer
AF	2255/26A	Connecting lever (5 per set)
AG	PW.5619	Connecting lever spacer (4 per set)
AH	PB.2095	Clamping bush
AJ	PS.2443-1	Std. 8BA screw
AK	PP.7883	Parallel pin
AL	BO.3229	Anderton clip
AM	PP.6772	Spring anchor pin
	PW.1013-1	Std. 6BA washer
	PW.2037	Std. 6BA spring washer
	PN.1013-1	Std. 6BA nut
AN	PS.7047-1	Special screw
AO	PW.1017-1	Std. 8BA washer
AQ	PN.1517-1	Std. 8BA locknut
AR	2255/8B	Trip rod
AS	2255/6	Trip stop bracket
AT	2255/9	Trip rod support
AU	2255/10	Trip rod cover plate
AV	PS.2443-1	Std. 8BA screw
AW	2255/1	Bearing bracket
AX	PS.2057-1	Std. 6BA screw
AY	PW.2037	Std. 6BA spring washer
AZ	PW.1013-1	Std. 6BA washer
BA	CS.1011	Set collar and screw (2 per set)

NOTE: When a Perforating Attachment is fitted to a type N3 or N4 Keyboard on a Model 7 Teleprinter, five pivoted levers (engaging slots at the left-hand ends of the combination bars) are added to the Combination Bar Unit S.3747A to control the punches.

The additional parts (not shown) required when a Perforating Attachment is fitted are :-

3707/4	Punch block lever bracket C.P.
PS.2077-1	Std. 6BA screw
PW.2037	Std. 6BA spring washer
PW.1013-1	Std. 6BA washer
2091/13	Punch block lever pin (2 per unit, pivots for operating levers and to retain comb. bars).
2091/16B	Punch block operating lever C.P. (5 per unit)
PW.5327	Connecting lever friction washer (5 per unit between the 5 operating levers).
PW.5403	Special washer (.005" thick) 4 per set max.
CS.1022	Set collar and screw (2 per unit for 2091/13 Punch Block lever pin).

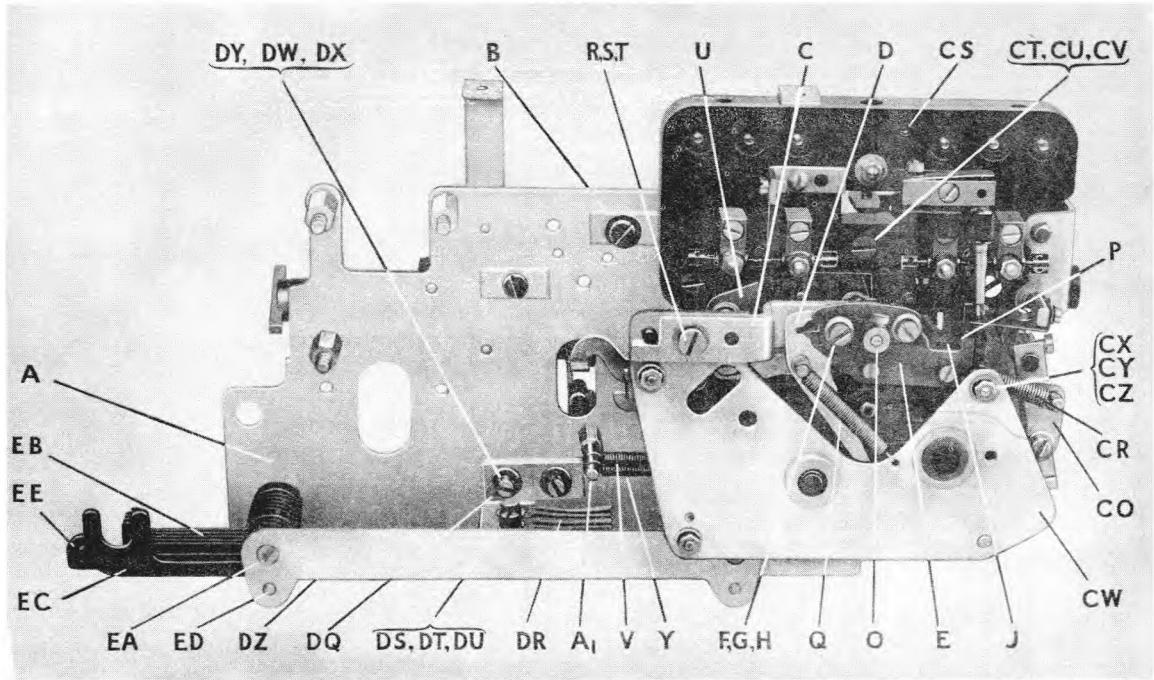


Fig. 15 TRANSMITTER UNIT S3744B

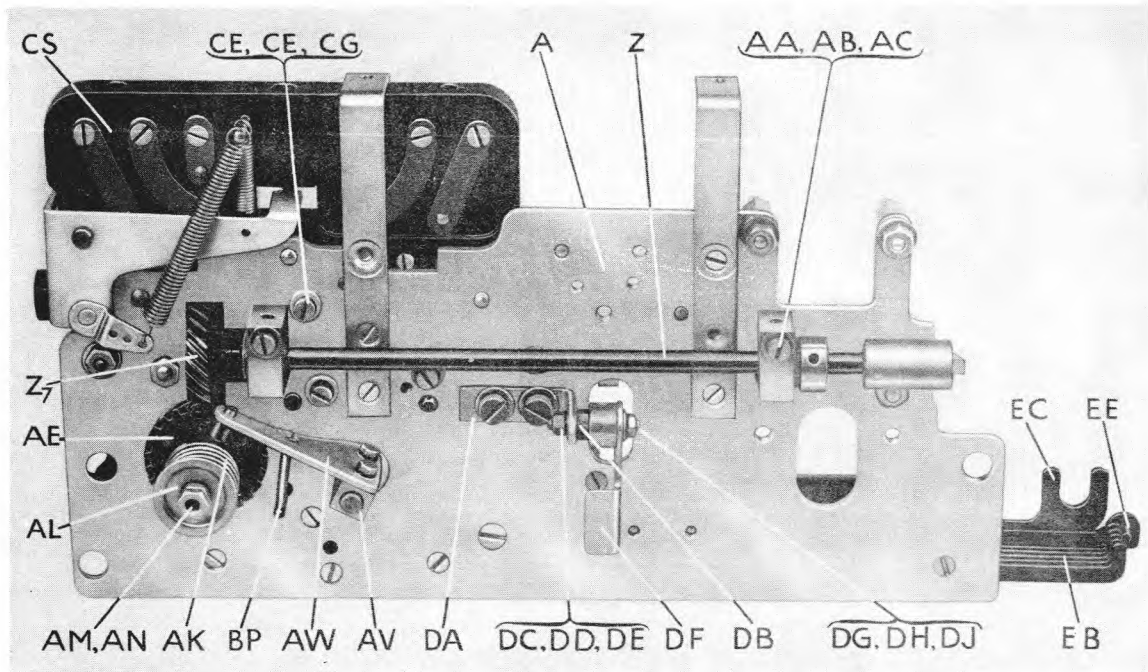


Fig. 16 TRANSMITTER UNIT S3744B (REAR VIEW)

TRANSMITTER UNIT S.3744B
(GR.1. MODELS 7 AND 47, 7½ UNIT)
(GR.2. MODELS 7 AND 47, 7 UNIT)
(GR.7. MODEL 54, 7½ UNIT)
(GR.8. MODEL 54, 7 UNIT)
(See Figs. 15, 16, 17, 17a, 17b and 18)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
BACK PLATE, PIVOTS AND ABUTMENTS		
A	2887/4C	Backplate C.P. <i>includes :-</i>
	3010/6	Oil impregnated bush
	PB.1533	Oil impregnated bush
	PW.5480	Oil impregnated thrust washer
A1	PP.5581	Spring anchor pin
	PS.2079-1	Std. 6BA screw <i>(for securing item A)</i>
A2	PP.7876	Front plate support pillar <i>(2 per set)</i>
	PS.1696-1	Std. 4BA screw <i>(2 per set for securing item A2)</i>
A3	PP.8869	Shouldered pin <i>(pivot for camshaft lubricator)</i>
	PW.2026	Std. 4BA spring washer
	PN.1509-1	Std. 4BA locknut
A4	PP.8756	Locking frame pivot
	PW.1009-1	Std. 4BA washer
	PW.2026	Std. 4BA spring washer
	PN.1509-1	Std. 4BA locknut
B	2254/54A	Abutment plate
	PS.1676-1	Std. 6BA screw
	PW.2026	Std. 6BA spring washer
	PW.1009-1	Std. 6BA washer
STRIKER OPERATING MECHANISM		
	2254/23B	Striker operating unit C.P. <i>comprises :-</i>
C	2254/28A	Striker lever bracket C.P.
D	2254/25B	Striker lever C.P.
E	2254/29	Striker lever insulation
F	PS.2061-1	Std. 6BA screw
G	PW.1013-1	Std. 6BA washer
H	PW.2039	Std. 6BA spring washer
J	2254/26	Striker guide
K	2254/27	Clamping plate
L	PS.2462-1	Std. 8BA screw
M	PW.1017-1	Std. 8BA washer
N	PW.2050	Std. 8BA spring washer
O	CS.1015	Set collar and screw
P	2254/49	Striker C.P.
Q	PG.7218	Tension spring
R	PS.1676-1	Std. 4BA screw
S	PW.1009-1	Std. 4BA washer
T	PW.2026	Std. 4BA spring washer
SEND-RECEIVE MECHANISM		
U	2254/68	Send-receive lever C.P. <i>comprises :-</i>
U1	2254/69	Send-receive lever sub C.P.
U2	2254/70	Operating arm
U3	PS.2072-1	Std. 6BA screw
U4	PW.1037-1	Std. 6BA washer
U5	PW.2037	Std. 6BA spring washer
V	PG.7352	Tension spring
W	CS.1046	Set collar and screw <i>(behind item U)</i>
X	2254/64	Retaining lever C.P. <i>comprises :-</i>
X1	2254/65	Send-receive lever operating bracket C.P.
X2	2254/66	Retaining Lever
X3	PS.2061-1	Std. 6BA screw
X4	PW.1037-1	Std. 6BA washer
X5	PW.2037	Std. 6BA spring washer
Y	PG.7352	Tension spring <i>(for item X)</i>

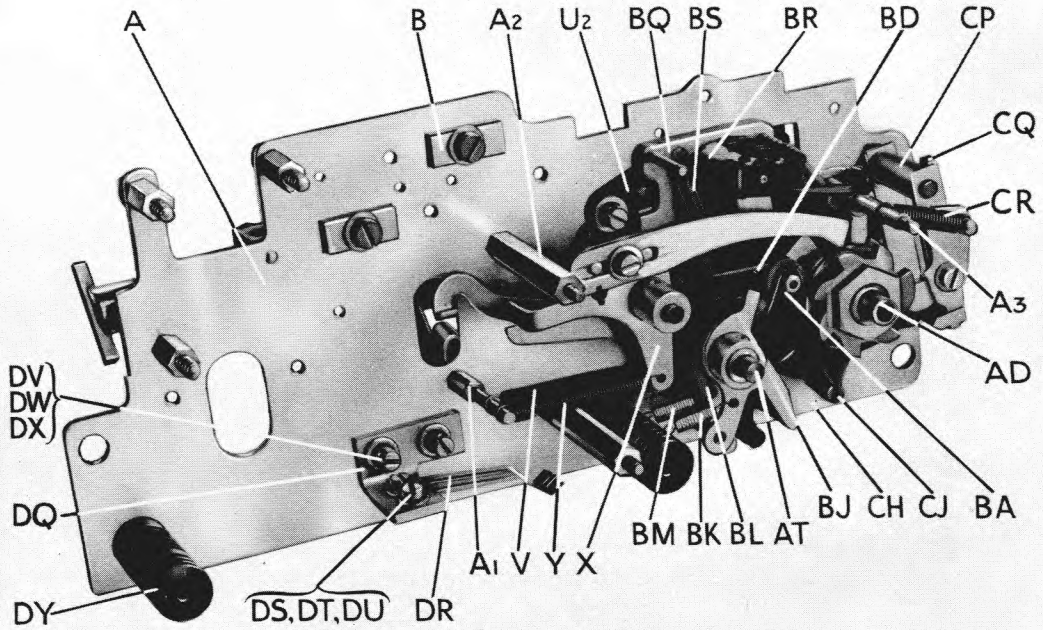


Fig.17 TRANSMITTER UNIT S3744B (PARTIAL ASSEMBLY)

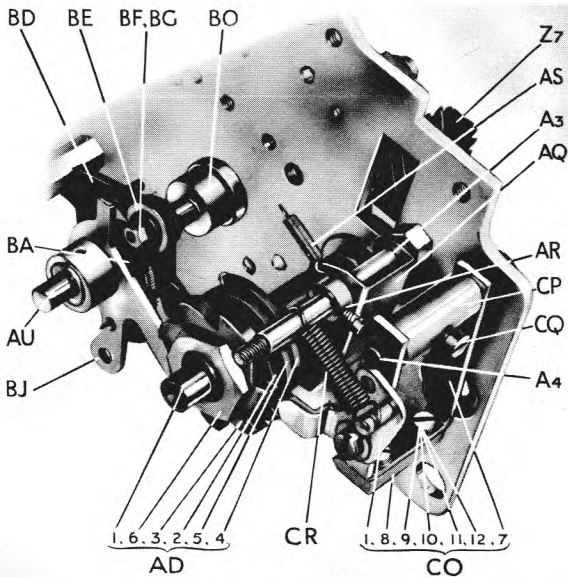


Fig.17A TRANSMITTER UNIT S3744B (PARTIAL BREAKDOWN)

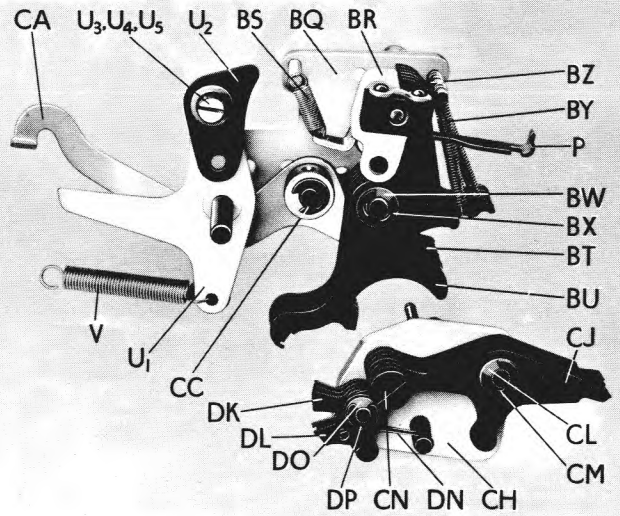


Fig.17B TRANSMITTER UNIT S3744B (PARTIAL BREAKDOWN)

TRANSMITTER UNIT (CONTINUED)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
TRANSMITTER DRIVING SHAFT		
Z	2254/60A	Transmitter driving shaft C.P. <i>comprises :-</i>
Z1	2254/61	*Transmitter driving shaft
Z2	1855/372	Coupling sleeve C.P.
Z3	PS.1645-1	Std. 4BA grub screw
Z4	1856/109	Bearing block C.P. (R.H.)
Z5	1856/111	Bearing block C.P. (L.H.)
Z6	CS.1067	Set collar and screw
Z7	GR.2101A	*Driving gear
Z8	PP.2044	Parallel pin
AA	PS.2173-1	Std. 6BA screw
AB	PW.1013-1	Std. 6BA washer
AC	PW.2038	Std. 6BA spring washer
		} 2 of each per set for securing item Z
		* (These items to be reamed on assembly to suit taper pins)
TRANSMITTER CAM AND CLUTCH		
AD	2254/5E	Transmitter shaft C.P. (7½ unit)
	2887/1D	or Transmitter shaft C.P. (7 unit)
		} <i>comprises :-</i>
AD1	2254/6C	Transmitter camshaft (7½ unit)
	2887/2C	or Transmitter camshaft (7 unit)
AD2	2254/10C	Keyboard locking cam (7½ unit)
	2887/9	or Keyboard locking cam (7 unit)
AD3	2254/11A	Striker cam (7½ unit)
	2887/3A	or Striker cam (7 unit)
AD4	2254/8	Perforator cam
AD5	2254/9	Send-receive cam
	PW.5222	Spacing collar (thin) 3 per set
	2254/7A	Transmitter shaft key
AD6	PN.5048	Special nut
AE	2254/55A	Gear wheel C.P.
AF	PW.5277	Shim (6 per set)
AG	2254/57A	Clutch dog (7½ unit)
	2887/11	or Clutch dog (7 unit)
AH	PP.1095	Parallel pin
AJ	2254/56A	Clutch ratchet
AK	PG.5085	Compression spring
AL	2254/140	Spring retaining plate
AM	PW.2025	Std. 4BA spring washer
AN	PN.1509-1	Std. 4BA locknut (2 per set)
AO	2254/52	Cam lubricator C.P. <i>comprises :-</i>
AO1	2254/43	Lubricator holder
AO2	2254/53	Lubricator pad
	PW.1013-1	Std. 6BA washer
	PW.2037	Std. 6BA spring washer
	PN.1013-1	Std. 6BA nut
		} for securing item AO
AP	PG.7219	Tension spring
AQ	2254/42	Lubricator C.P. <i>comprises :-</i>
AQ1	2254/43	Lubricator holder
AQ2	2254/44	Lubricator pad
AR	CS.1029	Set collar and screw (for retaining item AQ)
AS	PG.7070	Tension spring (for item AQ)
DETENT CONTROL SHAFT		
AT	2254/138A	Gr.1 Detent control shaft C.P. <i>comprises :-</i>
AU	2254/34	Detent control shaft
AV	2254/58	Detent fixing block
AW	2254/120	Detent C.P.
AX	PS.2505-1	Std. 8BA screw
AY	PW.2050	Std. 8BA spring washer
AZ	PW.1017-1	Std. 8BA washer
		} 2 of each per set for securing item AW to item A
BA	2254/32B	Latch carrier C.P.
BB	PP.2004	Parallel pin (for securing item BA to item AU)
BC	PS.5591	Latch pivot screw
BD	2254/36B	Detent release latch C.P.
BE	PW.5556	Special washer
BF	PW.2050	Std. 8BA spring washer
BG	PN.1017-1	Std. 8BA nut
BH	PG.7034	Tension spring
BJ	2254/103E	Detent operating lever C.P.
BK	PG.7066	Tension spring
BL	2254/113B	Release lever C.P.
BM	PG.7066	Tension spring
BN	PW.5227	Shim (as required)
	CS.1061	Set collar and screw (not visible)
BO	CS.1062	Set collar and screw
BP	PG.7039	Tension spring

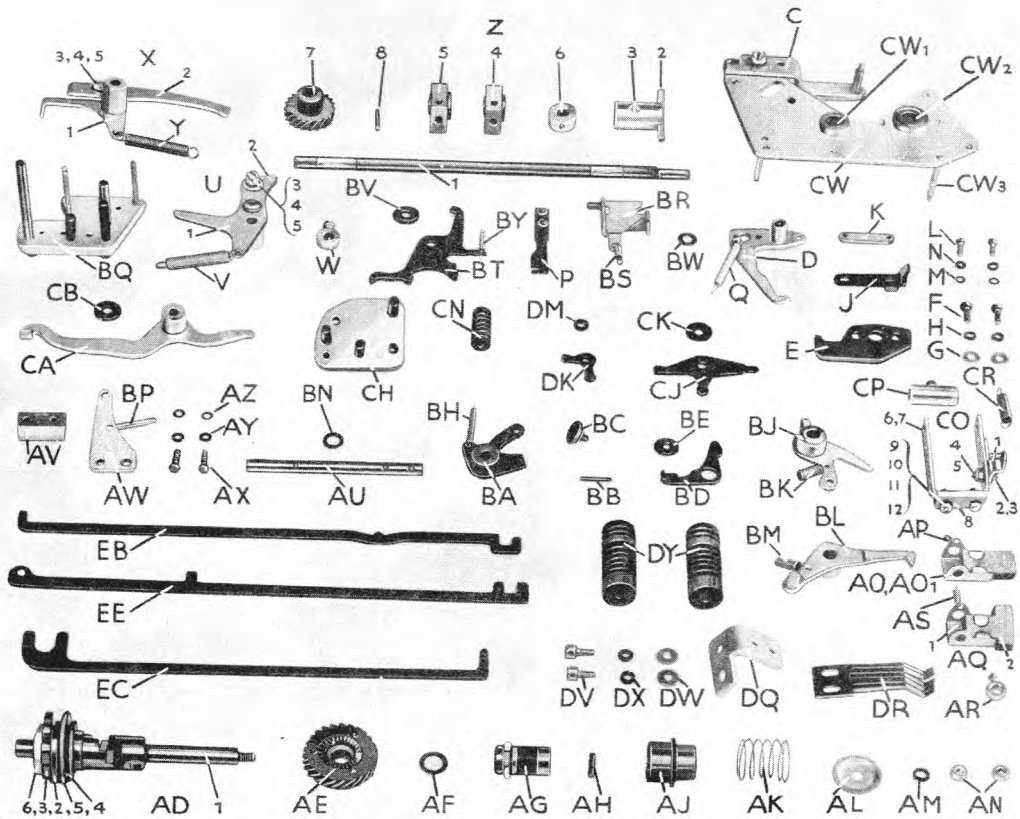


Fig.18 TRANSMITTER UNIT S3744B (BREAKDOWN)

Index Letter	Part No.	Part Name
OPERATING LEVERS AND SELECTING LEVERS		
	2254/173 Gr.3	Operating lever base plate C.P. (For Models 7 and 47 only)
	2254/173 Gr.2	or Operating lever base plate C.P. (For Model 54 only)
		} comprises :-
BQ	2254/172	Operating lever casting C.P.
BR	2254/47	Common operating lever C.P.
BS	PG.7217	Tension spring (for item BR)
BT	2254/142A	Operating lever { (6 per set for Models 7 and 47) (4 per set for Model 54)
BU	2254/191	Operating lever (2 per set for Model 54 only)
BV	PW.5613	Special washer (under bottom operating lever) not visible
BW	PW.5491	Spacing washer (6 per set) spacing between item BT and item BU
BX	BO.3230	Shim washer (6 per set max.)
BY	PG.7216	Anderton clip (for retaining items BT and BU)
BZ	PG.7216	Tension spring (6 per set) for item BT and item BU
CA	2254/111	Spring anchor (for lubricator spring)
CB	2254/165B	Operating lever C.P.
CC	PW.5617	Spacing washer (under item CA)
CE	BO.3230	Anderton clip (for retaining item CA)
CF	PS.2075-1	Std. 6BA screw
CG	PW.1013-1	Std. 6BA washer
	PW.2037	Std. 6BA spring washer
		} 3 of each per set for securing Operating Lever Base Plate C.P.
CH	2254/176	Selecting lever base plate C.P. comprises :-
CJ	2254/175	Selecting lever casting C.P.
CK	2254/39A	Selecting lever (5 per set)
CL	PW.5617	Spacing washer (5 per set) between spacing levers
CM	PW.5491	Shim washer (5 per set max.)
	BO.3230	Anderton clip
	PS.2074-1	Std. 6BA screw (2 per set) for securing Selector lever base plate C.P.

TRANSMITTER UNIT (CONTINUED)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>		
OPERATING LEVERS AND SELECTING LEVERS (continued)				
CN	2254/192	Selector rack		
	PS.2143-1	Std. 6BA screw (for securing item CN)		
CO	2254/15A	Locking frame C.P. comprises:-		
CO1	2254/18A	Locking lever C.P.		
CO2	PS.2077-1	Std. 6BA screw		
CO3	PW.1013-1	Std. 6BA washer	}	
CO4	PW.2037	Std. 6BA spring washer		} for securing item CO1
CO5	PN.1013-1	Std. 6BA nut		
CO6	2254/16	Locking frame sub C.P. comprises:-		
CO7	2254/20	Locking frame		
CO8	2254/19	Locking plate		
CO9	PS.2477-1	Std. 8BA screw	}	
CO10	PW.1017-1	Std. 8BA washer		} for securing item CO7 to item CO8
CO11	PW.2050	Std. 8BA spring washer		
CO12	PN.1517-1	Std. 8BA locknut		
CP	PB.1331	Locking frame collar		
CQ	PS.2042-1	Std. 6BA screw (for item CP)		
CR	PG.7003	Tension spring (for item CO)		
CONTACT BLOCK AND FRONT PLATE				
CS	2254/81B	Contact Block		
CT	PS.1708-1	Std. 4BA screw	}	
CU	PW.5119	Special washer		} 3 of each per set for securing item CS
CV	PW.2026	Std. 4BA spring washer		
CW	2887/7A	Front plate C.P. includes:-		
CW1	3010/6	Oil impregnated bush		
CW2	PB.3013	Oil impregnated bush		
CW3	PP.7682A	Lubricator pivot		
CX	PW.1013-1	Std. 6BA washer	}	
CY	PW.2037	Std. 6BA spring washer		} 3 of each per set for securing front plate
CZ	PN.1513-1	Std. 6BA locknut		
TWO COLOUR PRINTING MECHANISM (OPTIONAL)				
	2254/170	Bellcrank and pivot C.P. comprises:-		
DA	2254/161	Operating bellcrank bracket		
DB	PP.8843	Bellcrank pivot pin		
DC	PW.1013-1	Std. 6BA washer	}	
DD	PW.2037	Std. 6BA spring washer		} for securing item DB
DE	PN.1013-1	Std. 6BA nut		
DF	2254/163	Operating Bellcrank C.P.		
DG	PW.1013-1	Std. 6BA washer	}	
DH	PW.2037	Std. 6BA spring washer		} for securing item DF
DJ	PN.1513-1	Std. 6BA locknut		
TRANSFER BARS (The following items do not form part of Transmitter Unit S.3744B)				
DK	2254/147A	Selecting bellcrank (5 per set for Models 7 and 47 and 3 per set for Model 54)		
DL	2254/188	Selecting bellcrank (2 per set for Model 54 only)		
DM	PW.5616	Spacing washer (5 per set) between items DK		
DN	PG.3146A	Torsion spring (2 per set) for Model 54 only		
DO	PW.5642	Shim washer (2 per set max.)		
DP	BO.3229	Anderton clip		
	2254/179	Spring Mounting C.P. comprises:-		
DQ	2254/171	Spring mounting		
DR	1856/294	1st Transfer bar spring C.P.		
DS	PS.2042-1	Std. 6BA screw	}	
DT	PW.2037	Std. 6BA spring washer		} 2 of each per set for securing item DR to item DQ
DU	PW.1013-1	Std. 6BA washer		
DV	PS.2072-1	Std. 6BA screw	}	
DW	PW.1037-1	Std. 6BA washer		} 2 of each per set for securing Spring Mounting C.P.
DX	PW.2037	Std. 6BA spring washer		
	2254/178	Transfer link C.P. comprises:-		
DY	2254/193	Transfer bar rack (2 per set)		
DZ	2254/194	Transfer lever plate		
EA	PS.2063-1	Std. 6BA screw (2 per set) for securing item DZ to item DY		
EB	2254/151	Transfer link (5 per set for Models 7 and 47 and 3 per set for Model 54)		
	2254/187	Transfer link (2 per set for Model 54 only) not shown		
EC	2254/150A	Transmitter release bar		
ED	PP.5576	Support pin (supports transfer bars)		
EE	2254/148	Counter release bar C.P.		

See page 31

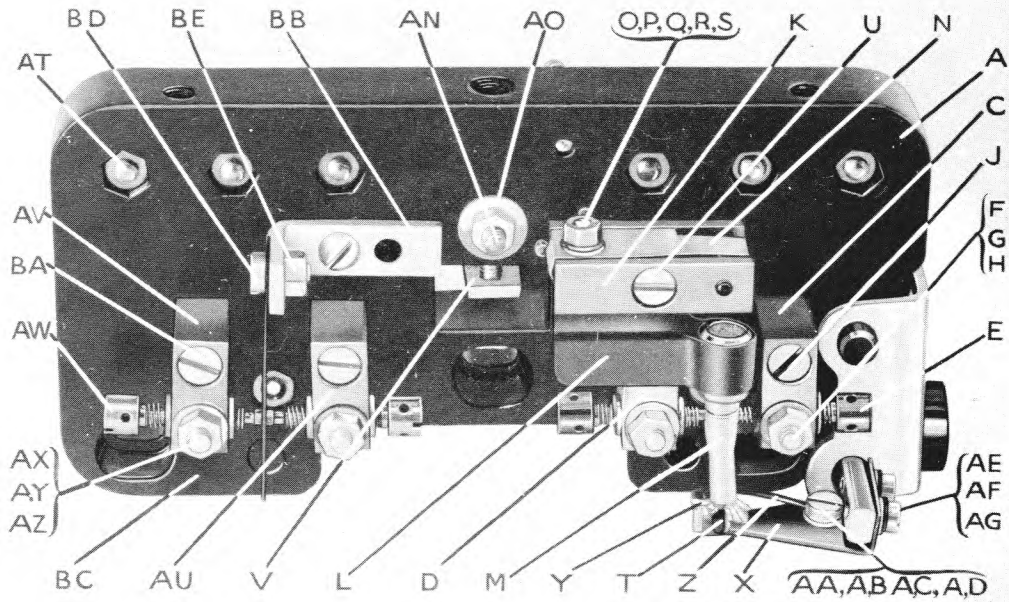


Fig.19 TRANSMITTER CONTACT BLOCK C.P. 2254/81B

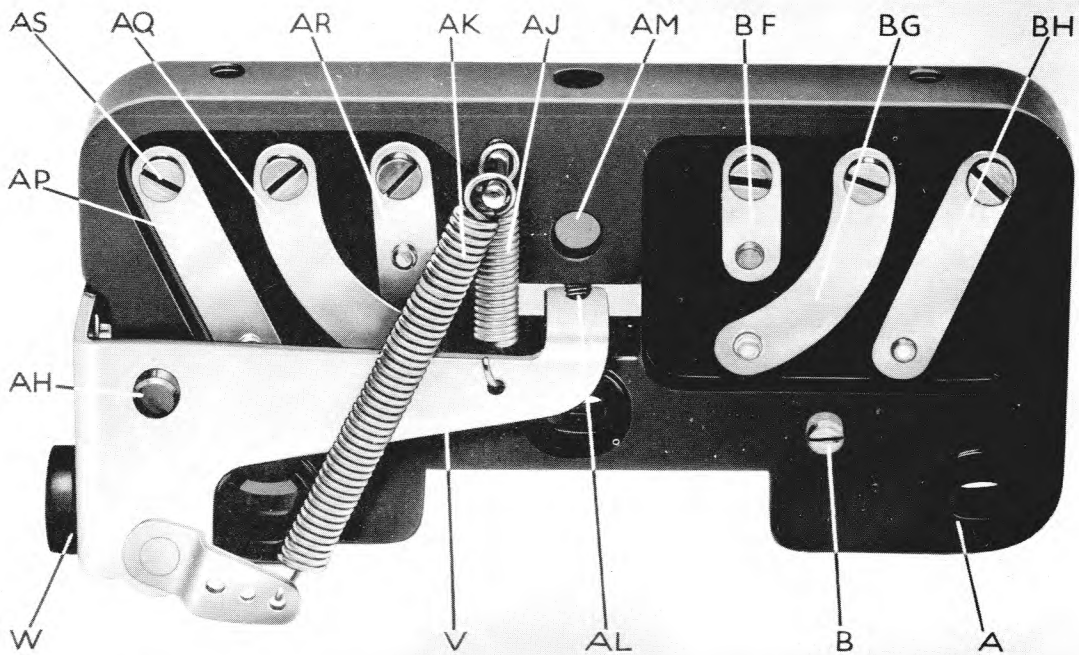


Fig.20 TRANSMITTER CONTACT BLOCK C.P. 2254/81B
(REAR VIEW)

TRANSMITTER CONTACT BLOCK CP 2254/81B

(See Figs 19 and 20)

Index Letter	Part No.	Part Name
A	2254/82A	Contact block sub C.P. <i>comprises moulding with pins driven in.</i>
B	PP.5563	Abutment pin
	PW.2039	Std. 6BA spring washer
	PN.1513-1	Std. 6BA nut

} 2 of each per set for positioning
Contact Block C.P.

TRANSMITTING CONTACTS

C	2254/197	Contact block C.P. (R.H.)	} comprises:-
D	2254/198	Contact block C.P. (L.H.)	
	1821/27	Contact block	
E	PC.3004A	Contact screw C.P.	
F	PS.5705	Special screw	
G	PW.5005-1	Special washer	
H	PN.1013-1	Std. 6BA nut	
J	PS.2189-1	Std. 6BA screw (2 per set) for securing item C and item D	

TRANSMITTING TONGUE

K	2254/86A Gr.1	Transmitting tongue pivot block C.P. <i>includes:-</i>	
L	2184/62	Oiler clip	
M	2184/66	Oiler wick C.P.	
N	PC.2501	Contact spring C.P.	
O	PS.5598	Special 8BA screw	} for securing items L and N
P	PW.2039	Special spring washer	
Q	PW.1017-1	Std. 8BA washer	
R	PW.2050	Std. 8BA spring washer	
S	PN.1017-1	Std. 8BA nut	
T	2184/28	Transmitting tongue C.P.	
U	PS.2205-1	Std. 6BA screw (for securing item K)	

BIAS ADJUSTMENT

V	2254/88B	Bias adjusting lever C.P. <i>includes:-</i>	
	2254/122A	Bias adjusting lever sub C.P. <i>includes:-</i>	
W	PW.5618	Locking frame stop	} for securing item W
	PS.2479-1	Std. 8BA screw	
	PW.2050	Std. 8BA spring washer	
	PN.1017-1	Std. 8BA nut	
X	2254/97A	Bias spring	
Y	2254/63	Oil box	
	RL.1006A	Roller	
Z	PG.3133	Roller pivot spring	} for securing item Z
AA	PS.2445-1	Std. 8BA screw	
AB	PW.1017-1	Std. 8BA washer	
AC	PW.2050	Std. 8BA spring washer	
AD	PN.1517-1	Std. 8BA nut	} 2 of each per set for securing item X
AE	PS.2445-1	Std. 8BA screw	
AF	PW.1017-1	Std. 8BA washer	
AG	PW.2050	Std. 8BA spring washer	
AH	2254/89	Bias adjusting lever pivot	
	PS.2477-1	Std. 3BA screw (for clamping item AF)	
	PG.5048	Compression spring (not visible between items A and V)	
AJ	PG.7003	Tension spring	} for item V
AK	PG.7354	Tension spring	
AL	PS.2173-1	Std. 6BA screw (for adjusting item V)	
AM	PS.6846	Bias adjusting screw clamp	
AN	PN.1013-1	Std. 6BA nut	
AO	PW.1037-1	Std. 6BA washer	

CONNECTION STRAPS (TRANSMITTING)

AP	2254/84	Connection strap (outer)	
AQ	2254/83	Connection strap (middle)	
AR	2254/87	Connection strap (inner)	
AS	PS.2093-1	Std. 6BA screw	} 6 of each per set
AT	PN.1514-1	Std. 6BA nut	
	PW.1013-1	Std. 6BA washer (3 per set) <i>Not required when send-receive contacts are fitted.</i>	

SEND-RECEIVE CONTACTS

AU	2254/199	Contact block C.P. (R.H.)	} comprise:-
AV	2254/200	Contact block C.P. (L.H.)	
	1821/27	Contact block	
AW	PC.3004A	Contact screw C.P.	
AX	PS.5705	Special screw	
AY	PW.5005-1	Special washer	
AZ	PN.1013-1	Std. 6BA nut	
BA	PS.2189-1	Std. 6BA screw (2 per set) for securing items AU and AV	

SEND-RECEIVE TONGUE

BB	2184/69	Tongue pivot plate	
	PS.2129-1	Std. 6BA screw (for securing item BB)	
BC	PC.2002	Send-receive tongue C.P.	
BD	PS.2045-1	Std. 6BA screw	} for securing item BC to item BB
BE	PN.1013-1	Std. 6BA nut	

CONNECTION STRAPS (SEND-RECEIVE)

BG	2254/87	Connection strap (inner)
BH	2254/83	Connection strap (middle)
	2254/84	Connection strap (outer)

} Not part
of
2254/81B

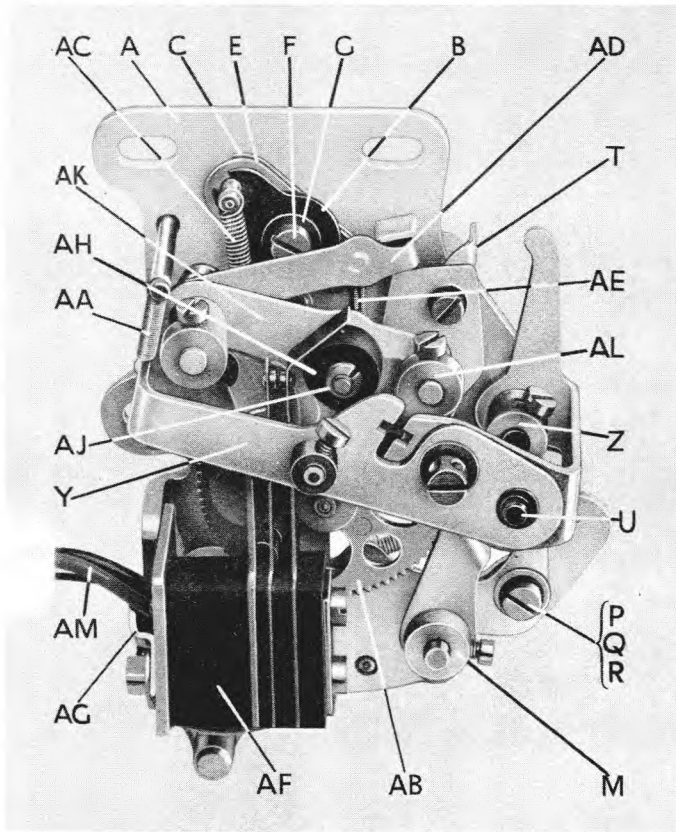


Fig. 21 COUNTER UNIT S2258

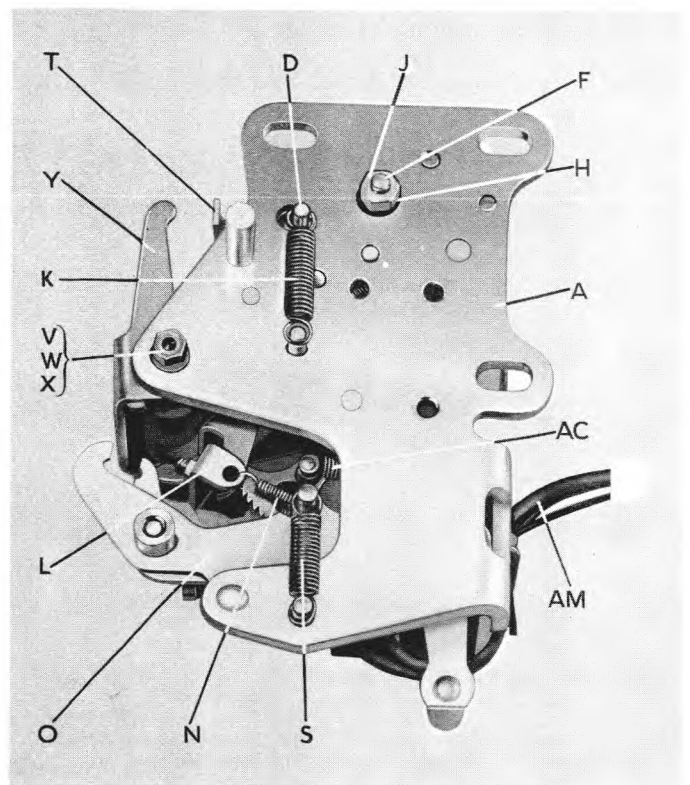


Fig. 22 COUNTER UNIT S2258
(REAR VIEW)

COUNTER UNIT S.2258 { GR.2 FOR MODELS 7 AND 85 TELEPRINTERS
 GR.3 FOR MODEL 47 TELEPRINTER
 (See Figs. 21 and 22)

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

Index Letter	Part No.	Part Name
BACK PLATE AND DAMPING BUFFER		
A	2258/1A	Counter Back Plate C.P., <i>comprises Backplate with pins riveted or pressed in.</i>
B	PG.3074	Semi-Elliptic spring
C	2084/125	Friction Piece (<i>Canvas</i>) 2 per set
D	2084/126	Damping buffer C.P.
E	2084/124	Clamp Plate
F	PS.2125-1	Std. 6BA screw
G	PW.1013-1	Std. 6BA washer
H	PW.2037	Std. 6BA spring washer
J	PN.1013-1	Std. 6BA nut
K	PG.7176	Tension spring
		} for retaining buffer
		} Damping Buffer for Item AD

FEED AND RESETTING MECHANISM

L	2258/43	Feed Pawl C.P.
M	CS.1026	Set collar and screw (<i>for retaining item L</i>)
N	PG.7219	Tension spring (<i>for item L</i>)
O	2258/3	Feed Lever C.P., <i>includes:-</i>
P	PS.2061-1	Std. 6BA screw
Q	PW.2037	Std. 6BA spring washer
R	PW.1013-1	Std. 6BA washer
S	PG.7208	Tension spring
T	2084/75A	Retention Pawl C.P., <i>comprises:-</i>
	2258/35	Retention Pawl Sub C.P.
	2258/37	Retention Pawl Extension
	PS.2445-1	Std. 8BA screw
	PW.2050	Std. 8BA spring washer
	PW.1013-1	Std. 8BA washer
	PG.7070	Tension spring (<i>for item T, not visible</i>)
	PB.1024	Distance collar (<i>between item T and item AL</i>)
U	PP.5564	Resetting Lever Pivot
V	PW.1017-1	Std. 8BA washer
W	PW.2050	Std. 8BA spring washer
X	PN.1017-1	Std. 8BA nut
Y	2258/6A	Resetting Lever C.P.
Z	CS.1056	Set collar and screw (<i>for retaining Y</i>)
AA	PG.7173	Tension spring (<i>for item Y</i>)
		} for clamping 2258/37 to 2258/35
		} for securing item U

RATCHET WHEEL AND STOP PLATE

AB	2084/68	Ratchet wheel C.P.
AC	PG.7198	Tension spring (<i>for item AB</i>)
AD	2084/74	Stop Plate C.P.
AE	PG.7197	Tension spring (<i>for item AD</i>)
	PW.5143	Distance washer (<i>between items AE and AK</i>)

CONTACT BLOCK AND OPERATING LEVER

AF	2258/29A	Contact Bank C.P.
AG	2035/45	Wire clip
	PS.2029-1	Std. 6BA screw (<i>for securing item AG</i>) Model 47 only.
	PS.2043-1	Std. 6BA screw (2 per set) for securing item AF to item A.
AH	2084/8	Contact Roller
AJ	23955A	Locking Ring (<i>for retaining item AH</i>)
AK	2085/28	Contact Operating Lever C.P.
AL	CS.1027	Set collar and screw (4 per set)
AM	2305/3	Twin plug C.P. (Group 2 only)
	CF.1132	or Contact wire C.P. (Group 3 only) 2 per set.

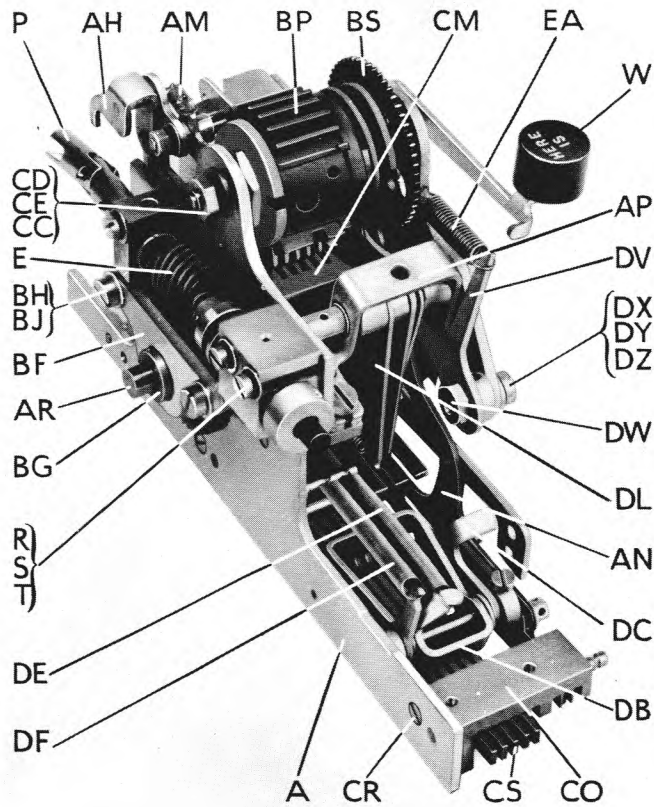


Fig.23
ANSWER BACK UNIT S3765 MODEL 7

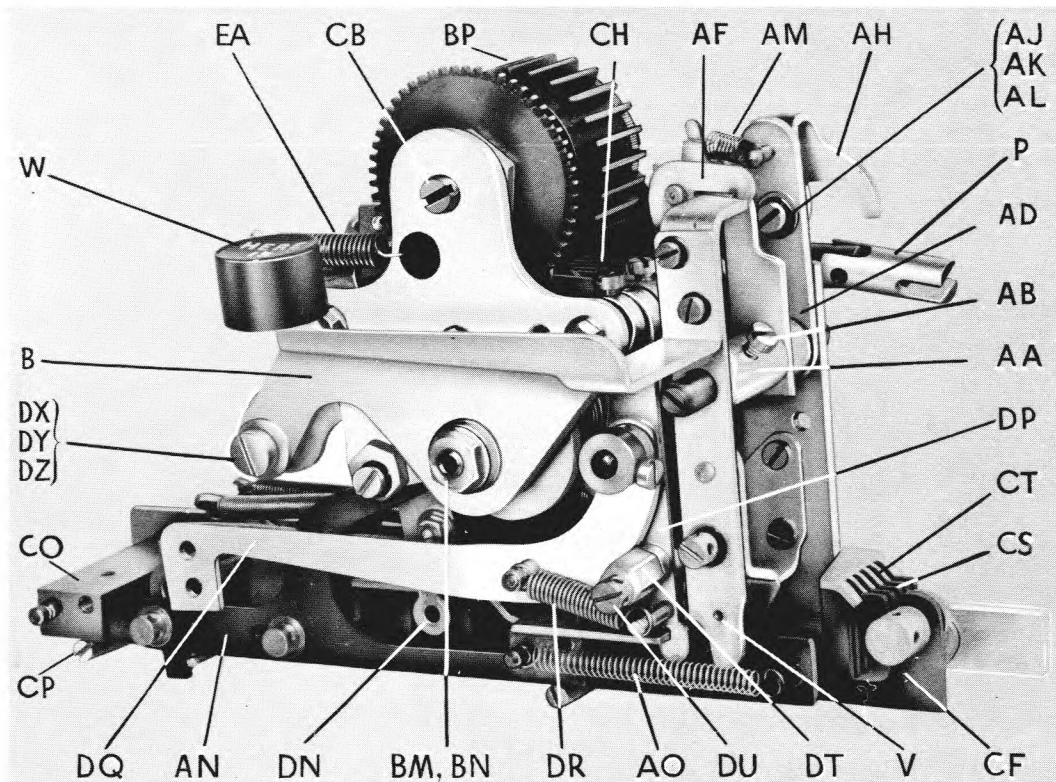


Fig.24 ANSWER BACK UNIT S3765 MODEL 7

ANSWER BACK UNIT
S.3765 GR.1 AND 2 FOR MODEL 7 AND 47 TELEPRINTERS
S.3809 GR.1 FOR MODEL 54 TELEPRINTER
(See Figs. 23, 24, 25 and 26)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>
BACK PLATE AND FRONT PLATE		
A	3765/3A	Back plate C.P. <i>comprises:-</i>
A1	3765/2A	Back plate sub C.P.
A2	PP.6116A	Spring anchor pin
	PW.2026	Std. 4BA spring washer <i>(for retaining item A2)</i>
A3	1857/4A	Special anchor pin
	PW.2026	Std. 4BA spring washer <i>(for retaining item A3)</i>
A4	PP.5558	Special pin
	PW.2026	Std. 4BA spring washer } <i>for securing item A4</i>
	PN.1009-1	Std. 4BA nut }
A5	PP.1093	Parallel pin
B	3765/5	Front plate C.P. <i>includes:-</i>
B1	PB.3013	Oil impregnated bush
B2	PP.8609A	Shouldered pin <i>(pivot for item B0)</i>
B3	PW.2037	Std. 6BA spring washer } <i>for securing item B2</i>
B4	PN.1013-1	Std. 6BA nut }
C	PW.1013-1	Std. 6BA washer } <i>2 of each per set</i>
D	PN.1013-1	Std. 6BA nut } <i>for securing item B.</i>
DRIVING SHAFT		
E	2902/1A Gr.1	Driving shaft C.P. <i>(for Models 7 and 47 Teleprinters)</i> } <i>comprises:-</i>
	3809/4A	or Driving shaft C.P. <i>(for Model 54 Teleprinter only)</i> }
F	1971/33A	Driving shaft
G	CS.1067	Set collar and screw <i>(for Models 7 and 47 Teleprinters only)</i>
H	1971/79	Bearing block C.P. <i>(R.H.)</i>
J	PW.5224	Thrust washer <i>(2 per set)</i>
K	1856/113	Ball cage C.P.
L	1971/84	Thrust collar
M	PP.2043	Parallel pin <i>(2 per set)</i>
N	GR.2041A	Driving gear <i>(7 teeth)</i> <i>for Models 7 and 47 Teleprinters</i>
	GR.2186	or Driving gear <i>(7 teeth)</i> <i>for Model 54 Teleprinter only.</i>
O	1856/109	Bearing block C.P. <i>(L.H.)</i>
P	1971/81	Coupling C.P. <i>comprises:-</i>
P1	1971/83	Coupling flange
P2	1971/82	Coupling rod
P3	PP.6732	Parallel pin
P4	PP.6758	Special taper pin
	PW.5262	Special washer
Q	1947/174A	Intermediate shaft driving gear C.P. <i>comprises:-</i> } <i>on end of</i>
	GR.2042A	Spiral gear <i>(30 teeth)</i> } <i>driving shaft</i>
	1947/56C	Gear boss } <i>for Model 54</i>
	PS.2063-1	Std. 6BA screw <i>(3 per set)</i> } <i>Teleprinter only.</i>
	PP.2044	Parallel pin
R	PS.2173-1	Std. 6BA screw
S	PW.2037	Std. 6BA spring washer } <i>3 of each per set</i>
T	PW.1013-1	Std. 6BA washer } <i>for securing item E</i>
TRIP LEVER		
U	1971/87	Washer <i>(between item A and trip lever C.P.)</i>
V	3809/7	Trip lever C.P. <i>comprises:-</i>
V1	3765/38	Trip lever sub C.P.
V2	3765/37	Trip lever stop
V3	PS.2072-1	Std. 6BA screw
V4	PW.2038	Std. 6BA spring washer } <i>for securing item V2 to item V1</i>
V5	PW.1013-1	Std. 6BA washer }
W	1971/136	"Here is" key complete C.P. <i>comprises:-</i>
W1	1971/135	'Here is' key lever
W2	KB.1003	Keybutton <i>(Green moulding)</i>
X	PS.2445-1	Std. 8BA screw
Y	PW.2050	Std. 8BA spring washer } <i>2 of each per set for</i>
Z	PW.1017-1	Std. 8BA washer } <i>securing item W to item V.</i>
AA	1971/96	Set collar
AB	PS.2042-1	Std. 6BA screw <i>(for securing item AA)</i>
AC	PG.7366	Tension spring <i>(for item V)</i>

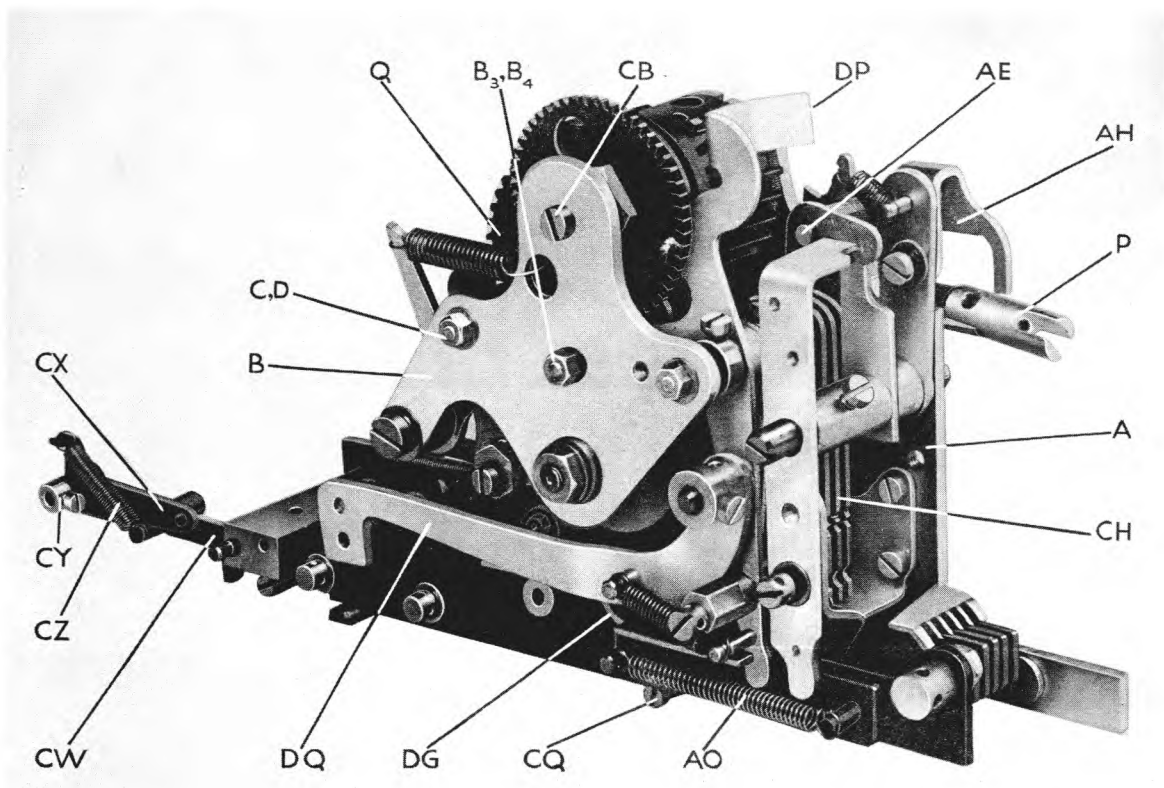


Fig.25 ANSWER BACK UNIT S3809 MODEL 54 (CADENCE SPEED)

ANSWER BACK UNIT (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
SINGLE REVOLUTION FEATURE			
	1971/91	Latch support arm C.P. (<i>for Models 7 and 47 Teleprinters</i>)	} comprises:-
	3809/8	or Latch support arm C.P. (<i>for Model 54 Teleprinter only</i>)	
AD	1971/107	Latch support arm sub C.P.	
AE	PP.9092	Flanged pin	
	PW.1013-1	Std. 6BA washer	} for securing item AE to item AD
	PW.2038	Std. 6BA spring washer	
	PN.1013-1	Std. 6BA nut	
AF	1971/95	Latch	
AG	CS.1017	Set collar and screw	
AH	1971/99	Rockshaft hook C.P. (<i>for Models 7 and 47 Teleprinters</i>)	} for securing item AH
	1841/69	or Rockshaft hook C.P. (<i>for Model 54 Teleprinter only</i>)	
AJ	PS.2061-1	Std. 6BA screw	
AK	PW.2038	Std. 6BA spring washer	} for securing item AH
AL	PW.1013-1	Std. 6BA washer	
AM	PG.7327	Tension spring (<i>for item AF</i>)	
TRIP BAR			
AN	3765/35	Trip and adjustment bar C.P. comprises:-	
AN1	3765/18	Trip bar C.P.	
AN2	3765/19	Adjustment bar	
AN3	EC.1552	Eccentric bush	} for positioning item AN3
AN4	PS.2093-1	Std. 6BA screw	
AN5	PW.2037	Std. 6BA spring washer	
AN6	PS.5715	Capstan headed screw	} 2 of each per set for assembling item AN1 to item AN2
AN7	PW.1013-1	Std. 6BA washer	
AO	PG.7366	Tension spring (<i>for item AN</i>)	
DETENT LEVER			
AP	3765/34	Detent lever C.P. comprises:-	
AP1	3765/30A	Detent lever sub C.P.	
AP2	3765/25A	Detent C.P.	
AP3	3765/80	Clamp plate	
AP4	PS.1687-1	Std. 4BA screw	} 2 of each per set for securing item AP2
AP5	PW.2026	Std. 4BA spring washer	
AQ	PW.5484	Shim washer (6 per set max.) between item AP and item B	
CONTROL SHAFT AND CLUTCH			
	3765/36 Gr.2 or Gr.4	Control shaft C.P. (<i>for Models 7 and 47 Teleprinters Gr.2 7½ unit - Gr.4 7 unit</i>)	} comp
	3809/3 Gr.1	Control shaft C.P. (<i>for Model 54 Teleprinter only</i>)	
AR	3765/41	Control shaft	
AS	PW.5596	Special washer	
AT	3765/40	Retention cam	
AU	3765/16	Transmitter release cam (<i>for 7½ unit machines only</i>)	} for 7½ unit machines only
	3765/48	or Transmitter release cam (<i>for 7 unit machines only</i>)	
AV	3765/14	Setting cam	
AW	3765/15	Resetting cam (<i>for Models 7 and 47 Teleprinters</i>)	} for Model 54 Teleprinter only
	3765/67A	or Resetting cam (<i>for Model 54 Teleprinter only</i>)	
	KY.1024	Key	
AX	PN.6025	Special nut	
AY	PG.5085	Special spring	
AZ	2254/57A	Clutch dog	
BA	PP.1095	Parallel pin	
BB	3765/6	Clutch ratchet	
BC	3765/33	Control shaft gear C.P. (<i>for Models 7 and 47 Teleprinters</i>)	} includes:-
	3809/5	or Control shaft gear C.P. (<i>for Model 54 Teleprinter only</i>)	
BD	2000/29	Oil impregnated bush	
BE	PW.5599	Shim washer (3 per set max.)	} between item BC and item BF
	PW.5600	Shim washer (3 per set max.) not shown	
BF	3765/13	Rear bearing C.P. comprises:-	
	3765/12	Rear bearing plate	
BG	PB.3013	Oil impregnated bush	
BH	PS.5619	Special screw	} 2 of each per set for securing item BF
BJ	PW.5092	Special washer	
BK	GR.1012	Spur gear (18 teeth)	
BL	PB.2012	Shouldered bush	
BM	PW.1005-1	Std. 2BA washer	} for retaining item BC
BN	PN.5029	Special nut	

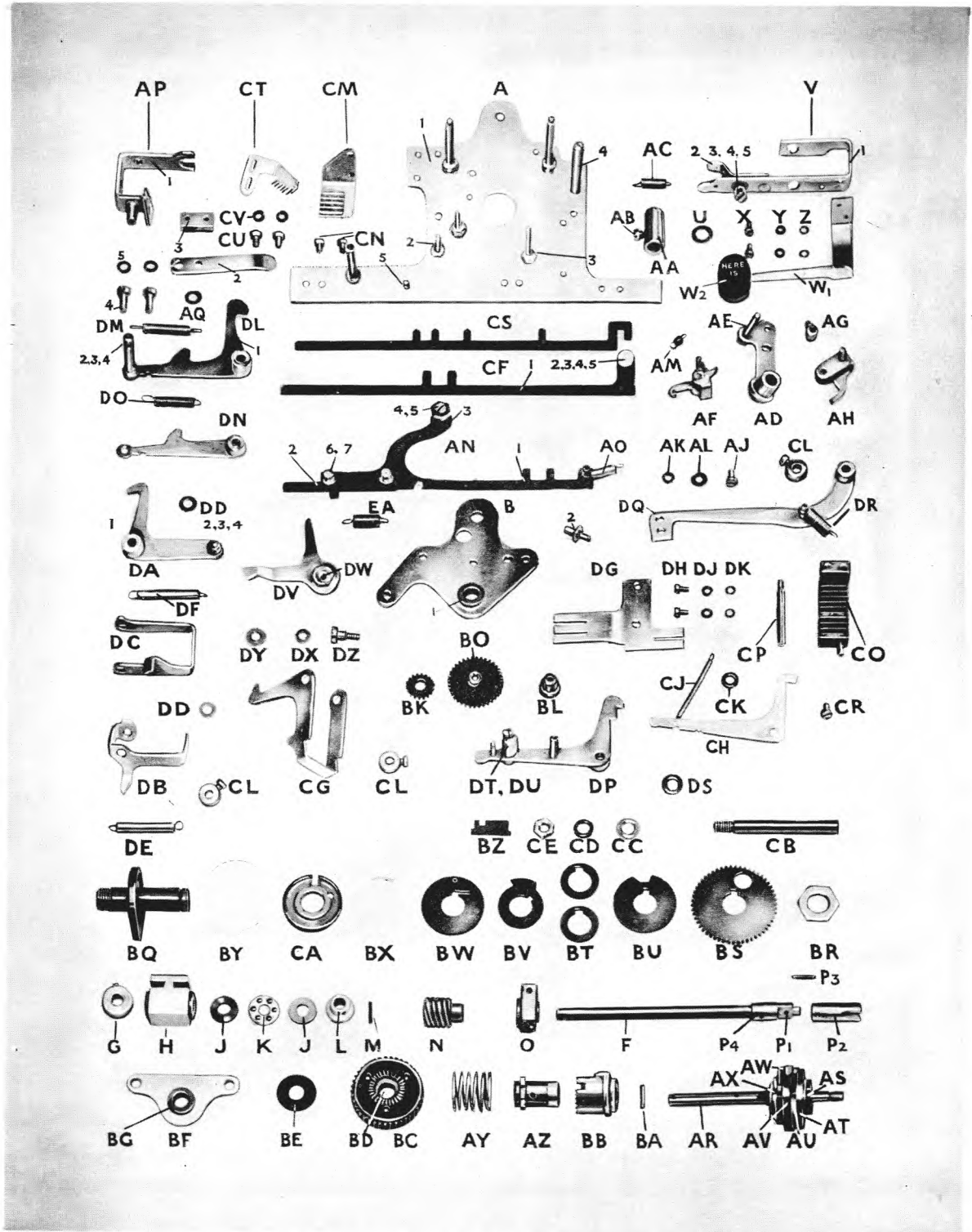


Fig.26 ANSWER BACK UNIT COMPONENTS S3765

ANSWER BACK UNIT (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
INTERMEDIATE GEAR			
BO	1971/35	Intermediate gear C.P. (18 and 36 teeth)	
WARD AND CAM SLEEVE			
BP	2090/26B Gr.1	Ward and cam sleeve C.P. comprises:-	
BQ	3765/45	Ward and cam sleeve	
BR	PN.5048	Special nut (2 per set)	
BS	GR.1013	Spur gear (54 teeth)	
BT	PW.5222	Spacing washer (2 per set)	
BU	3765/51	Keyboard lock cam (engraved 'DE')	
BV	2902/18	Holdout cam (engraved 'BC')	
BW	PW.5479	Spacing washer	
BX	1971/16A	Holdout cam (engraved 'AM')	
	KY.1024	Key	
BY	1971/25A	Ward spacer C.P.	
BZ	S.1973C	ANSWER-BACK WARDS	See page 40.
CA	1971/28	Ward clamp plate	
CB	PP.5521	Threaded pin	
CC	PW.1005-1	Std. 2BA washer	} for securing item CB
CD	PW.2013	Std. 2BA spring washer	
CE	PN.5029	Special nut	
TRANSFER RELEASE BAR			
CF	2902/15	Release operating bar C.P. includes:-	
CF1	2244/3	Release operating bar	
CF2	EC.1536	Eccentric pin	
CF3	PW.1009-1	Std. 4BA washer	} for securing item CF2
CF4	PW.2026	Std. 4BA spring washer	
CF5	PN.1509-1	Std. 4BA locknut	
OPERATING LEVERS			
CG	1971/55	Release lever	
CH	3765/27	Operating lever (5 per set)	
CJ	PG.7350	Tension spring (5 per set)	
CK	PW.5223	Special washer (6 per set)	
CL	CS.1046	Set collar and screw (4 per set)	
CM	3765/32	Operating lever rack (2 per set)	
CN	PS.2029-1	Std. 6BA screw (4 per set) for securing item CM	
TRANSFER BARS			
CO	1857/43	Rack C.P. (2 per set)	
CP	PP.5520	Threaded pin (2 per set for Models 7 and 47; 1 only required for Model 54)	
CQ	PP.6132	Threaded pin (for Model 54 only)	
CR	PS.2063-1	Std. 6BA screw (2 per set) for securing item CO	
CS	1971/56	Transfer bar (5 per set)	
CT	3765/70	Transfer bar rack	
CU	PS.2042-1	Std. 6BA screw	} 2 of each per set for securing item CT
CV	PW.2037	Std. 6BA spring washer	
TRIP LEVER AND LINK			
	3785/43A	Trip lever and link C.P. comprises:-	} for Model 54 Teleprinter only
CW	3785/32	Perforator trip bar C.P.	
CX	1947/33A	Trip link C.P.	
CY	CS.1011	Set collar and screw (for retaining item CX to CW)	
CZ	PG.7213	Tension spring	
	PG.7020	Tension spring (for item CX) not visible	
HOLD-OUT LEVER AND STOP BRACKET			
DA	3765/47A	Hold-out lever C.P. comprises:-	
DA1	3765/56	Hold-out lever sub C.P.	
DA2	EC.5039	Eccentric	
DA3	PW.1013-1	Std. 6BA washer	} for securing item DA2 to item DA1
DA4	PN.1013-1	Std. 6BA nut	
DB	2902/9	Transfer bar lock frame	
DC	1971/58	Stop bracket	
DD	PW.5092	Special washer (2 per set) between item DB and item DC	
DE	PG.7116	Tension spring (for item DB)	
DF	PG.7102	Tension spring (for item DC)	

**Nos. 7, 47, 85 AND 54
TELEPRINTERS**

ANSWER BACK UNIT (CONTD.)

<i>Index Letter</i>	<i>Part No.</i>	<i>Part Name</i>	
RESETTING MECHANISM			
DG	2244/5	Resetting lever rack	
DH	PS.2445-1	Std. 8BA screw	} 2 of each per set for securing item DG
DJ	PW.2050	Std. 8BA spring washer	
DK	PW.1017-1	Std. 8BA washer	
DL	3765/43	Resetting lever C.P. comprises:-	
DL1	3765/53	Resetting lever sub C.P.	
DL2	EC.5030	Eccentric	
DL3	PW.1013-1	Std. 6BA washer	} for securing item DL2 to item DL1
DL4	PN.1013-1	Std. 6BA nut	
DM	PG.7349	Tension spring (for item DL)	
DN	1971/40	Transmitter release lever C.P.	
DO	PG.7392	Tension spring (for item DN)	
LOCKING LEVER			
DP	3765/10	Keyboard lock cam lever C.P. (for Models 7 and 47 Teleprinters only)	} include:-
	3765/60	or Keyboard lock cam lever C.P. (for Model 54 Teleprinter only)	
	3765/9	Keyboard lock cam lever (for Models 7 and 47 Teleprinters only)	
	3765/59A	or Keyboard lock cam lever (for Model 54 Teleprinter only)	
DQ	1971/46A	Keyboard lock lever C.P.	
DR	PG.7003	Tension spring (for item DQ)	
DS	PW.5092	Special washer (3 per set)	
DT	EC.5029	Special eccentric	
DU	PS.2152-1	Std. 6BA screw (for securing item DT)	
RETENTION LEVER			
DV	3765/28	Retention lever C.P. includes:-	
	3765/29	Retention lever	
DW	EC.1553	Eccentric bush	
DX	PW.4002	Spring washer	
DY	PW.3003	Special washer	
DZ	PS.5617	Shouldered screw	
EA	PG.7050	Tension spring	

ANSWER BACK WARDS
(See Fig 27)

Fig.27 shows the wards which can be used in the twenty-character Answer-Back Units S3765 and S3809 (see page 35).

The characters (letters, figures or signs) shown at the side of each ward conform to C.C.I.T. Code No.2. On Teleprinters which do not conform to C.C.I.T. Code No.2, the wards may represent different characters. Wards can be identified by the number stamped on them. They should be ordered by specifying their part number.

* The numbers given in the column headed "Signals Code" represent the "Marking" elements of the 5-unit code. The unnumbered spaces represent the "Spacing" elements.

One special FIGURES Ward, 1971/69, is fitted instead of 1971/44, in the figures shift slot, on single-revolution pattern answer-back units S3765 and S3809. It transmits a FIGURES signal and also trips the latch to prevent continuous rotation of the answer-back drum should the selection of the "Who are you" signal be left set up in the receiving mechanism, as would occur when the Teleprinter is *not* connected to provide a local record of its own transmission.

Part No.	★Signal Code	Characters Ltrs.	Fig.	Part No.	★Signal Code	Characters Ltrs.	Fig.
1973/14	1 2	A	-	1973/31	2 4	R	4
1973/15	1 4 5	B	?	1973/32	1 3	S	'
1973/16	2 3 4	C	:	1973/33	5	T	5
1973/17	1 4	D		1973/34	1 2 3	U	7
1973/18	1	E	3	1973/35	2 3 4 5	V	=
1973/19	1 3 4	F		1973/36	1 2 5	W	2
1973/20	2 4 5	G		1973/37	1 3 4 5	X	/
1973/21	3 5	H		1973/38	1 3 5	Y	6
1973/22	2 3	I	8	1973/39	1 5	Z	+
1973/23	1 2 4	J	Bell	1973/40	1 2 4 5	Figures	
1973/24	1 2 3 4	K	(	1973/41	1 2 3 4 5	Letters	
1973/25	2 5	L	)	1973/42	4	Carriage Return	
1973/26	3 4 5	M	.	1973/43	2	Line Feed	
1973/27	3 4	N	,	1973/44	3	Space	
1973/28	4 5	O	9	1973/65		All Space Signal	
1973/29	2 3 5	P	0	1973/68		Blank	
1973/30	1 2 3 5	Q	1	1973/69	3	Special Figures †	

Fig.27 ANSWER BACK WARDS

T O O L S

Tool Kits are supplied if required and are no longer included in the price of a complete machine.

When a number of Teleprinters are employed at one location one Tool Kit per machine is not normally necessary, but a smaller number of kits than the number of Teleprinters, sufficient for the personnel who will maintain the machines. These should be specified when ordering the machines.

TOOL KIT No. 31

FOR MODELS No. 47/N3 AND 47/N4 TAPE TELEPRINTERS

See Part List No. 1047R for details of the Tool Kit for the No. 47 Teleprinter fitted with the Type "N3" or "N4" Keyboard.

TOOL KIT No. 15

FOR MODELS No. 7/M, 7/N3 AND 7/N4, PAGE OR TAPE TELEPRINTERS

See Part List No. 1078 for details of the Tool Kit for No. 7 Page or Tape Teleprinters fitted with Type "M", "N3" or "N4" Keyboard.

TOOL KIT No. 28

FOR MODELS No. 85/M, 85/N3 AND 85/N4 TELEPRINTER PRINTING REPERFORATOR

This is the same as Tool Kit No. 15, but with the addition of:—
TA.1112 ... 1 Lapping Block C.P.

TOOL KIT No. 54

FOR MODELS 54/N AND 54/CTK TELEPRINTER

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

ACCESSORIES

Accessories are now handled on the same basis as Tool Kits, being no longer included in the price of a complete machine and supplied only if ordered.

ACCESSORIES LIST No. 31

FOR MODELS No. 47/N3 AND 47/N4 TAPE TELEPRINTERS

See Part List No. 1047R for details of the Accessories for the No. 47 Teleprinter fitted with the Type "N3" or "N4" Keyboard.

ACCESSORIES LIST No. 15

FOR MODELS No. 7/M, 7/N3 AND 7/N4

PAGE OR TAPE TELEPRINTERS

See Part List No. 1078 for details of the Accessories for No. 7 Page or Tape Teleprinters fitted with Type "M", "N3" or "N4" Keyboard.

ACCESSORIES LIST No. 28

FOR MODELS No. 85/M, 85/N3 AND 85/N4

TELEPRINTER PRINTING REPERFORATOR

This is the same as Accessories List No. 15 with the exception that,

8682 Paper 1 Roll (Code word ABABY)

8191 or Paper 1 Coil (Code word ABARP)

is replaced by :—

8184 Parchment Tape, 1 coil 8" dia. \times $\frac{11}{16}$ " wide

(Code word ABAST).

N.B. A Maintenance Instruction Booklet No. 47K is included in the accessories when a Type N3 or N4 Keyboard is fitted to the Teleprinter.

ACCESSORIES LIST No. 54

FOR MODELS 54R, 54/N AND 54/CTK TELEPRINTER

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

NUMERICAL INDEX

Part No.	Part Name	Page	Index Letter	Part No.	Part Name	Page	Index Letter
1821/27	Contact Block	{ 31 31	D AV	1855/385	Gear Bracket Sub C.P.	21	A
1822/4A	Layshaft Gear Spindle	19	D	/386	Gear Bracket C.P.	21	-
1836/341	Contact Block Bracket	9	S	/387	Gear Cover	21	N
1841/11	Coupling Disc	{ 5 7 9	W V R	/391	Parallel Bush C.P.	21	A
/69	Rockshaft Hook C.P.	37	AH	/405	Keybar Connecting Link	10	AX
1855/9B	First Row Keybar	11	DF	/406	Space Keybar C.P.	15	EL
/10C	Second Row Keybar	11	DG	/411A	*Who Are You* (Top Row)	11	DB
/11C	Third Row Keybar	11	DH	/414	Special *Letters* (Fourth Row)	11	DE
/12C	Fourth Row Keybar	11	DJ	/423B	Side Plate C.P. (R.H.)	10	AS
/52B	Back Rack (3/16" pitch)	13	BT	/424A	Side Plate C.P. (L.H.)	10	AR
/54C	Keep Plate	13	BV1	/430	Top Seal C.P.	10	AP
/55B	Gear Bracket Sub C.P.	19	A	/432	Bottom Seal C.P.	10	AQ
/56	Special Shouldered Bush	{ 19 21	H H	/433	Keyboard Seal C.P.	10	AP
/58	Special Washer	{ 19 21	H H	/435	Bracket (R.H.)	9	Z
/59	Intermediate Shaft	{ 19 21	J J	/436	Bracket (L.H.)	9	AA
/61C	Driving Coupling	{ 17 19 21	F L L	/437	Keybar Stop Bar	9	AN
/66A	Gear Bracket C.P.	19	-	/438	Space Bar Stop	9	AC
/82A	Contact Block C.P.	{ 5 9	X V	/441	Space Keybar Guide	15	FW
/87B	Gear Cover	19	N	/443	Front Rack Sub C.P. (3/16" pitch)	12	BC
/89A	Contact Block Cover	{ 5 9	Z X	/454	*Run Out* (Top Row)	11	DE
/125C	Keybar Buffer	13	BV2	/459	*Run Out* (Second Row)	11	DE
/127B	Keybar Keep Plate C.P.	13	BV	/466	Letters Frame C.P.	15	FG
/128	Cable Keep Plate	13	CT	/467	Space Frame C.P.	15	FD
/154A	Gear Spindle	{ 17 19 21	H N N	/468	Figures Shift Frame C.P.	15	FE
/169B	Front Rack C.P. (3/16" pitch)	12	BC	/469	Space and Figures Frames and Levers C.P.	15	FB
/171	Special Screw	{ 19 21	J J	/478	*Here is* (Second Row)	11	DE
/190	Space Keybar C.P.	15	J	/482	*Run Out* (Second Row)	11	DE
/194	Space Lever Frame Stop C.P. (R.H.)	15	EL	/488	*Run Out* (Top Row)	11	DE
/195	Clamp Plate	15	EY	/489	*Who Are You* (Top Row)	11	DB
/209	Keyboard Mask	15	EE	/838	Keyboard Pivot	13	CM
/214	Space and Figures Frame Spindle	15	FC	1856/109	Bearing Block C.P. (R.H.)	{ 27 35	Z4 O
/219	Space Key Lever C.P.	15	FF	/111	Bearing Block C.P. (L.H.)	27	Z5
/221	Letters Frame Sub C.P.	15	FH	/113	Ball Cage C.P.	35	K
/228	Letters Frame Spindle	15	FJ	/294	First Transfer Bar Spring C.P.	29	DR
/229	Shift Spindle Support (L.H.)	15	FM	1857/4A	Special Anchor Pin	35	A3
/230	Shift Spindle Support (R.H.)	15	FL	/43	Rack C.P.	39	CO
/241	Keybar Connecting Frame C.P.	15	FQ	1947/33A	Trip Link C.P.	39	CX
/248	*Who Are You* (Fourth Row)	11	DC	/56C	Gear Boss	35	Q
/252	Bearing Bracket C.P.	15	FR	/174A	Intermediate Shaft Driving Gear C.P.	35	Q
/263A	Stop Plate	12	BD	1971/16A	Holdout Cam	39	BX
/267A	Parallel Bush C.P.	19	A	/25A	Ward Space C.P.	39	BY
/269A	Keyboard Casting C.P.	{ 12 19	BA E	/28	Ward Clamp Plate	39	CA
/272A	Intermediate Gear C.P.	{ 21 19	E E	/33A	Driving Shaft	35	F
/273	Final Gear C.P.	21	J	/35	Intermediate Gear C.P.	39	BO
/275	Cable Trough	13	CP	/40	Transmitter Release Lever C.P.	40	DN
/325	Special Stop Screw C.P.	{ 5 9	AD AE	/46A	Keyboard Lock Lever C.P.	40	DQ
/351	Pivot Support Plate	13	CF	/55	Release Lever	39	CG
/352	Support Bar	13	BY	/56	Transfer Bar	39	CS
/372	Coupling Sleeve C.P.	27	Z2	/58	Stop Bracket	39	DC
/376A	Lock Keybar C.P.	11	DA	/79	Bearing Block C.P. (R.H.)	35	H
/377A	*Here is* (Second Row)	11	DE	/81	Coupling C.P.	35	P
/381	Spring Link	13	CX	/82	Coupling Rod	35	P2
/384	Layshaft Gear Spindle	21	D	/83	Coupling Flange	35	P1
				/84	Thrust Collar	35	L
				/87	Washer	35	U
				/91	Latch Support Arm C.P.	37	-
				/95	Latch	37	AF
				/96	Set Collar	35	AA
				/99	Rockshaft Hook C.P.	37	AH
				/107	Latch Support Arm Sub C.P.	37	AD
				/135	*Here is* Key Lever	35	W1
				/136	*Here is* Key Complete C.P.	35	W
				S1973C	Answer-Back Wards	39	BZ
				2000/29	Oil Impregnated Bush	37	BD
				2035/45	Wire Clip	33	AG
				2084/8	Contact Roller	33	AH

Part No.	Part Name	Page	Index Letter	Part No.	Part Name	Page	Index Letter
2084/68	Ratchet Wheel C.P.	33	AB	2254/57A	Clutch Dog (7½ Unit)	{ 27	AG
/74	Stop Plate C.P... ..	33	AD	/58	Detent Fixing Block	37	AZ
/75A	Retention Pawl C.P.	33	T	/60A	Transmitter Driving Shaft C.P.	27	AV
/124	Clamp Plate	33	E	/61	Transmitter Driving Shaft ..	27	Z
/125	Friction Piece (Canvas) ..	33	C	/63	Oil Box	31	Z1
/126	Damping Buffer.. ..	33	D	/64	Retaining Lever C.P... ..	25	Y
/171	Abutment Plate.. ..	13	BK	/65	Send-Receive Operating		X
2085/28	Contact Operating Lever C.P.	33	AK		Bracket C.P.	25	X1
2087/2A	Keyboard Cover C.P. ..	5	AN	/66	Retaining Lever	25	X2
2088/2B	Back Rack (7/32" pitch) ..	13	BT	/68	Send-Receive Lever C.P. ..	25	U
/9A	Space Keybar Sub C.P. ..	15	FU	/69	Send-Receive Lever Sub C.P.	25	U1
/13A	Space Keybar Guide	15	FW	/70	Operating Arm	25	U2
/25B	Front Rack C.P. (7/32" pitch)	12	BC	/81B	Contact Block	29	CS
/41	Keybar Stop Plate C.P. ..	{ 15	EH	/82A	Contact Block Sub C.P. ..	31	A
/42	Keybar Guide Rack (7/32" pitch)	{ 15	EJ	/83	Connection Strap (middle) ..	{ 31	AQ
/43	Keybar Guide Rack (3/16" pitch)	13	BO	/84	Connection Strap (outer) ..	{ 31	BG
/51	Keyboard Mask	15	BO	/86A	Transmitting Tongue Pivot	31	AP
/58	Lock Keybar C.P.	11	EF		Block C.P.		BH
/61	Front Rack Sub C.P. (7/32" pitch) ..	12	DA	/87	Connection Strap (inner) ..	{ 31	K
2090/26B	Ward and Cam Sleeve C.P.	39	BP	/88B	Bias Adjusting Lever C.P.	31	AR
2091/13	Punch Block Lever Pin ..	23	BA	/89	Bias Adjusting Lever Pivot	31	BF
/16B	Punch Block Operating		BA	/97A	Bias Spring	31	V
	Lever C.P.	23	W	/103E	Detent Operating Lever C.P.	27	AH
/26	Bias Spring	23	AE	/111	Spring Anchor	28	X
/27B	Trip Lever C.P.	23	P	/113B	Release Lever C.P.	27	BJ
/35A	Bar Retaining Bracket ..	23	AE1	/120	Detent C.P.	27	BZ
/37C	Trip Lever Sub C.P. ..	23	T	/122A	Bias Adjusting Lever Sub C.P.	31	BL
2184/28	Transmitting Tongue C.P.	31	L	/136A	Cover Bracket	{ 5	AW
/62	Oiler Clip	31	M			7	V
/66	Oiler Wick C.P.	31	BB	/138A	Detent Control Shaft C.P. ..	27	C
/69	Tongue Pivot Plate	31	CF1	/140	Spring Retaining Plate ..	27	AT
2244/3	Release Operating Bar ..	39	DG	/142A	Operating Lever	28	AL
/5	Resetting Lever Rack ..	40	AD	/147A	Selecting Bellcrank	29	BT
2254/5E	Transmitter Shaft C.P. ..	27	AD1	/148	Counter Release Bar C.P. ..	29	DK
/6C	Transmitter Camshaft (7½ Unit)	27	AD5	/150A	Transmitter Release Bar ..	29	EE
/7A	Transmitter Shaft Key ..	27	AD4	/151	Transfer Link	29	EC
/8	Perforator Cam	27	AD5	/161	Operating Bellcrank Bracket	29	EB
/9	Send-Receive Cam	27	AD2	/163	Operating Bellcrank C.P. ..	29	DA
/10C	Keyboard Locking Cam (7½ Unit)	27	AD3	/165B	Operating Lever C.P. ..	28	DF
/11A	Striker Cam (7½ Unit) ..	27	CO	/170	Bellcrank and Pivot C.P. ..	29	CA
/15A	Locking Frame C.P.	29	CO6	/171	Spring Mounting	29	CZ
/16	Locking Frame Sub C.P. ..	29	CO8	/172	Operating Lever Casting C.P.	28	DQ
/18A	Locking Lever C.P.	29	CO7	/173	Operating Lever Base Plate	28	BQ
/19	Locking Plate	29	B		C.P.	28	--
/20	Locking Frame	29	D	/175	Selecting Lever Casting C.P.	28	CH
/23B	Striking Operating Unit C.P.	25	J	/176	Selecting Lever Base Plate	28	
/25B	Striker Lever C.P.	25	K		C.P.	28	CG
/26	Striker Guide	25	C	/178	Transfer Link C.P.	29	DX
/27	Clamping Plate.. ..	25	E	/179	Spring Mounting C.P.	29	DP
/28A	Striker Lever Bracket C.P.	25	BA	/187	Transfer Link	29	EB
/29	Striker Lever Insulation ..	25	AU	/188	Selecting Bellcrank	29	DL
/32B	Latch Carrier C.P.	27	BD	/190	Transfer Lever	10	AW
/34	Detent Control Shaft	27	CJ	/191	Operating Lever	28	BU
/36B	Detent Release Latch C.P.	27	AQ	/192	Selector Rack	29	CN
/39A	Selecting Lever	28	AO1	/193	Transfer Bar Rack	29	DY
/42	Lubricator C.P.	27	AQ1	/194	Transfer Lever Plate	29	DZ
/43	Lubricator Holder	{ 27	AQ2	/197	Contact Block C.P. (R.H.)..	31	C
/44	Lubricator Pad	27	BR	/198	Contact Block C.P. (L.H.)..	31	D
/47	Common Operating Lever C.P.	28	P	/199	Contact Block C.P. (R.H.)..	31	AU
/49	Striker C.P.	25	AO	/200	Contact Block C.P. (L.H.)..	31	AV
/52	Cam Lubricator C.P. ..	27	AO2	/201	Transfer Lever C.P.	10	AW
/53	Lubricator Pad	{ 5	AO	2255/1	Bearing Bracket	23	AW
		7	AF	/6	Trip Rod Bracket	23	AS
/54A	Abutment Plate.. ..	{ 25	B	/8B	Trip Rod	23	AR
		25	B	/9	Trip Rod Support.. ..	23	AT
/55A	Gear Wheel C.P.	27	AE	/10	Trip Rod Cover Plate.. ..	23	AU
/56A	Clutch Ratchet	27	AJ	/26A	Connecting Lever	23	AF
				/28A	Trip Adjusting Lever	23	AE2
				/31A	Middle Rack	23	B
				/55	Rack (R.H.)	23	G
				/57	Bias Spring Bracket	23	S
				S2258	Counter Unit	33	--
				2258/1A	Counter Back Plate C.P. ..	33	A

Part No.	Part Name	Page	Index Letter	Part No.	Part Name	Page	Index Letter
2258/3	Feed Lever C.P.	33	O	3765/27	Operating Lever	39	CH
/6A	Resetting Lever C.P.	33	Y	/28	Retention Lever C.P.	40	DV
/29A	Contact Bank C.P.	33	AF	/29	Retention Lever	40	DV
/35	Retention Pawl Sub C.P.	33	T	/30A	Detent Lever Sub C.P.	37	AP 1
/37	Retention Pawl Extension	33	T	/32	Operating Lever Rack	39	CM
/43	Feed Pawl C.P.	33	L	/33	Control Shaft Gear C.P.	37	BC
2288/2	Counter Resetting Link	5	AO	/34	Detent Lever C.P.	37	AP
2305/3	Twin Plug C.P.	33	AM	/35	Trip and Adjustment Bar C.P.	37	AN
2830/9A	Intermediate Gear C.P.	{ 19	E	/36	Control Shaft C.P.	37	AQ
		21	E	/37	Trip Lever Stop	35	V2
2841/45	Socket Support Plate	12	BB	/38	Trip Lever Sub C.P.	35	V1
2858/1	Gear Bracket C.P.	17	--	/40	Retention Cam	37	AT
/2	Gear Bracket Sub C.P.	17	A	/41	Control Shaft	37	AR
/4A	Gear (48 Teeth) 7½ Unit	17	E	/43	Resetting Lever C.P.	40	DL
/5	Driven Gear C.P. (7½ Unit)	17	A	/45	Ward and Cam Sleeve	39	BQ
/6	Gear (35 Teeth)	17	B	/47A	Hold-out Lever C.P.	39	DA
/7	Spindle (7½ Unit)	17	C	/48	Transmitter Release Cam	37	AU
/10	Driver Gear C.P. (7½ Unit)	17	D	/51	Keyboard Lock Cam (engraved 'DE')	39	BU
/11	Driver Gear C.P. (7 Unit)	17	D	/53	Resetting Lever Sub C.P.	40	DL 1
/12	Driven Gear C.P. (7 Unit)	17	A	/56	Hold-out Lever Sub C.P.	39	DA 1
/13	Gear (25 Teeth) 7 Unit only	17	B	/59A	Keyboard Lock Cam Lever	40	DP
/14	Spindle (7 Unit)	17	C	/60	Keyboard Lock Cam Lever C.P.	40	DP
/15A	Gear (32 Teeth) 7 Unit	17	E	/67A	Resetting Cam	37	AW
/17	Gear Guard	17	K	/70	Transfer Bar Rack	39	CT
/18	Transmitter Cover C.P.	{ 5	C	/80	Clamp Plate	37	AP 3
		7	C	3785/32	Perforator Trip Bar C.P.	39	CW
2859/4	Cable Cleat	13	CS	/43A	Trip Lever and Link C.P.	39	CV
/5	Contact Block Cover	7	X	3808/1A	Bearing Bracket	10	AW
/6	Contact Block C.P.	7	W	S3809	Answer Back Unit	35	--
/10	Cable Cleat	13	CS	3809/3	Control Shaft C.P.	37	AQ
/12	Cable Trough	13	CP	/4A	Driving Shaft C.P.	35	E
/28	Keyboard Casting C.P.	12	BA	/5	Control Shaft Gear C.P.	37	BC
2860/43	Cover Mounting Socket	12	BB	/7	Trip Lever C.P.	35	V
2887/1D	Transmitter Shaft C.P.	27	AD	/8	Latch Support Arm C.P.	37	--
	(7 Unit)	27	AD1	3813/8	Space Bar Pad C.P.	15	FV
/2C	Transmitter Camshaft(7 Unit)	27	AD3	/10	Space Bar Pad C.P.	15	FV
/3A	Striker Cam (7 Unit)	27	A	/11	Pad C.P.	15	FK
/4C	Backplate C.P.	25	CW	/12	Space Pad C.P.	15	FK
/7A	Front Plate C.P.	29	AD2	8373	Hoffman Ball Cage	19	J
/9	Keyboard Locking Cam	27	AG	23955A	Locking Ring	33	AJ
	(7 Unit)	27	E	BO NUMBERS			
/11	Clutch Dog (7 Unit)	27	DB	BO3228	Anderton Clip, .88" dia. shaft	13	CN
2902/1A	Driving Shaft C.P.	35	CF	3229	Anderton Clip, .125" dia. shaft	{ 23	AL
/9	Transfer Bar Lock Frame	39	BV			29	DP
/15	Release Operating Bar C.P.	39	A	3230	Anderton Clip, .156" dia. shaft	{ 28	BX
/18	Holdout Cam (engraved 'BC')	39	CW1			28	CC
		29				28	CM
3010/6	Oil Impregnated Bush	{ 25		CF NUMBERS			
		29		CF1132	Contact Wire C.P.	33	AM
3707/1A	Combination Bar Support	23	A	1150B	Cableform C.P.	13	CO
	Plate.. ..	23	BA	1313	Cableform C.P.	13	CO
/4	Punch Block Lever Bracket	23	AA	CS NUMBERS			
/5A	Connecting Lever Frame	23	--	CS 1011	Set Collar and Screw	{ 23	BA
S3744B	Transmitter Unit	25	--			39	CY
S3747A	Combination Bar Unit	23	--	1015	Set Collar and Screw	25	O
S3765	Answer Back Unit	35	--	1017	Set Collar and Screw	37	AG
3765/2A	Back Plate Sub C.P.	35	A1	1022	Set Collar and Screw	23	BA
/3A	Back Plate C.P.	35	A	1026	Set Collar and Screw	33	M
/5	Front Plate C.P.	35	B	1027	Set Collar and Screw	33	AL
/6	Clutch Ratchet	37	BB	1029	Set Collar and Screw	27	AR
/9	Keyboard Lock Cam Lever.. ..	40	DP	1046	Set Collar and Screw	{ 25	W
/10	Keyboard Lock Cam Lever	40	DP			39	CL
	C.P.	40	BF	1056	Set Collar and Screw	33	Z
/12	Rear Bearing Plate	37	BF	1061	Set Collar and Screw	27	BN
/13	Rear Bearing C.P.	37	AV	1062	Set Collar and Screw	27	BO
/14	Setting Cam	37	AW	1064	Set Collar and Screw	15	FG
/15	Resetting Cam	37	AU	1065	Set Collar and Screw	17	D
/16	Transmitter Release Cam	37	AN1	1067	Set Collar and Screw	{ 27	Z6
/18	Trip Bar C.P.	37	AN2			35	G
/19	Adjustment Bar	37	AP2	1069	Set Collar and Screw	15	EX
/25A	Detent C.P.	37		1102	Set Collar and Screw	5	AO

Part No.	Part Name	Page	Index Letter
EC NUMBERS			
EC1536	Eccentric Pin	39	CF2
1552	Eccentric Bush	37	AN3
1553	Eccentric Bush	40	DW
5029	Special Eccentric	40	DT
5030	Eccentric Screw	40	DL2
5039	Eccentric Screw	39	DA2
GR NUMBERS			
GR1012	Spur Gear (18 Teeth)	37	BK
1013	Spur Gear (54 Teeth)	39	BS
2041A	Driving Gear (7 Teeth)	35	N
2042A	Spiral Gear (30 Teeth)	35	Q
2101A	Driving Gear	27	Z7
2184	Driver Gear (7½ Unit) 22 Teeth	21	C
2185	Driver Gear (7 Unit) 20 Teeth	21	C
2186	Driving Gear (7 Teeth)	35	N
4045B	Driver Gear (7½ Unit) 22 Teeth	19	C
4046A	Gear (7½ Unit) 33 Teeth	19	F
		21	F
4047	Gear (33 Teeth)	19	G
		21	G
4048A	Gear (36 Teeth)	19	K
		21	K
4049A	Gear (7 Unit) 28 Teeth	19	F
		21	F
4057B	Driver Gear (7 Unit) 20 Teeth	19	C
KB NUMBERS			
KB1003	Keybutton (Green Moulding)	35	W2
1004	Keybutton (Green Moulding)	11	DK
1005	Keybutton (Green Moulding)	11	DK
1006	Keybutton (Green Moulding)	11	DK
1006/1	Keybutton (Red Moulding) ..	11	DK
1007	Keybutton (With Milled Flat)	11	DK
KY NUMBER			
KY1024	Key	37	AW
		39	BX
PB NUMBERS			
PB1024	Distance Collar	33	T
1027	Shouldered Bush	17	A
1206	Parallel Bush	19	J
		21	J
1207	Shouldered Bush	19	A
		21	A
1331	Locking Frame Collar.. ..	29	CP
1533	Oil Impregnated Bush.. ..	25	A
2012	Shouldered Bush	37	BL
2095	Clamping Bush	23	AH
		29	CW2
3013	Oil Impregnated Bush.. ..	35	B1
		37	BG
4074	Oil Impregnated Bearing	17	A
PC NUMBERS			
PC2002	Send-Receive Tongue C.P.	31	BC
2501	Contact Spring C.P.	31	N
3004A	Contact Screw C.P.	31	E
		31	AW
PG NUMBERS			
PG3074	Semi-Elliptic Spring	33	B
3133	Roller Pivot Spring	31	Z
3146A	Torsion Spring	29	DN
3148A	Return Spring	10	AW
5048	Compression Spring	31	AH
5085	Compression Spring	27	AK
		37	AY
		29	CR
7003	Tension Spring	31	AK
		40	DR
7020	Tension Spring	39	CZ
7034	Tension Spring	27	BH
7039	Tension Spring	27	BP
7050	Tension Spring	40	EA

Part No.	Part Name	Page	Index Letter
PG NUMBERS (continued)			
PG7066	Tension Spring	13	CX
		27	BK
		27	BM
7068	Tension Spring	13	CX
7070	Tension Spring	27	AS
		33	T
7077	Tension Spring	13	CV
7102	Tension Spring	39	DF
7116	Tension Spring	39	DE
7120	Tension Spring	13	CW
7173	Tension Spring	33	AA
7176	Tension Spring	33	K
7184	Tension Spring	13	CW
7197	Tension Spring	33	AE
7198	Tension Spring	33	AC
7208	Tension Spring	33	S
7213	Tension Spring	39	CZ
7216	Tension Spring	28	BY
7217	Tension Spring	28	BS
7218	Tension Spring	25	Q
7219	Tension Spring	27	AP
		33	N
7327	Tension Spring	37	AM
7349	Tension Spring	40	DM
7350	Tension Spring	39	CJ
7352	Tension Spring	25	V
		25	Y
7354	Tension Spring	31	AJ
7362	Tension Spring	23	O
7366	Tension Spring	35	AC
		37	AO
7392	Tension Spring	40	DO
PN NUMBERS			
		5	Q
		5	T
		5	AF
		5	AK
PN1009-1	Std. 4BA Hex. M.S.	7	Q
		7	T
		7	AE
		9	AG
		9	AM
		35	A4
		10	AW
		12	BB
		13	BS
		13	BV5
		15	FT
		23	AM
		27	AO2
		29	CO5
		29	DE
1013-1	Std. 6BA Hex. M.S.	31	H
		31	AN
		31	AZ
		31	BE
		33	J
		35	B4
		35	D
		37	AE
		39	DA4
		40	DL4
1017-1	Std. 8BA Hex. M.S.	27	BG
		31	S
		31	W
		33	X
		5	AL
		5	AN
		7	AC
		9	AK
1509-1	Std. 4BA Hex. Lock M.S. ..	13	CL
		25	A3
		25	A4
		27	AN
		39	CF5

Part No.	Part Name	Page	Index Letter
PN NUMBERS (continued)			
PN1513-1	Std. 6BA Hex. Lock M.S. ..	{ 23 29 29 31	F CZ DJ B
1514-1	Std. 6BA Lock B.R.	31	AT
1517-1	Std. 8BA Hex. Lock M.S. ..	{ 23 23 29 31	AE5 AQ CO12 AD
5029	Special Nut	{ 37 39	BN CE
5048	Special Nut	{ 27 39	AD6 BR
6025	Special Nut	37	AX
PP NUMBERS			
PP 1093	Parallel Pin.. .. .	35	A5
1095	Parallel Pin.. .. .	{ 27 37	AH BA
2004	Parallel Pin.. .. .	27	BB
2042	Grooved Pin.. .. .	15	FG
2043	Parallel Pin.. .. .	35	M
2044	Parallel Pin.. .. .	{ 27 35 Q	Z8 Q
5054	Split Pin	13	CU
5520	Threaded Pin	39	CP
5521	Threaded Pin	39	CB
5558	Special Pin	35	A4
5563	Abutment Pin	31	B
5564	Resetting Lever Pivot ..	33	U
5576	Support Pin	29	ED
5581	Spring Anchor Pin	25	A1
6116A	Spring Anchor Pin	35	A2
6132	Threaded Pin	39	CQ
6732	Parallel Pin.. .. .	35	P3
6758	Special Taper Pin	35	P4
6772	Spring Anchor Pin	23	AM
6795	Spindle	10	AW
7682A	Lubricator Pivot	29	CW3
7876	Front Plate Support Pillar..	25	A2
7883	Parallel Pin.. .. .	23	AK
8609A	Shouldered Pin	35	B2
8756	Locking Frame Pivot	25	A4
8843	Bellcrank Pivot Pin	29	DB
8869	Shouldered Pin	25	A3
8870	Counter Support Pillar ..	{ 5 7 N	N N
8889	Shouldered Pin	10	AW
9092	Flanged Pin	37	AE
PS NUMBERS			
PS 1066-1	Std. OBA x 7/8" Ch.Hd. M.S.	{ 5 7	AC Z
1332-1	Std. 2BA x 1/2" Ch.Hd. M.S.	{ 7 9 12	V AB BB
1361-1	Std. 2BA x 5/8" Grub M.S. ..	{ 19 21	J J
1364-1	Std. 2BA x 11/16" Ch.Hd. M.S.	{ 5 9	V P
1645-1	Std. 4BA x 1/8" Grub M.S. ..	27	Z3
1659-1	Std. 4BA x 3/16" Ch.Hd. M.S.	{ 10 19 21	AT P P
1676-1	Std. 4BA x 1/4" Ch.Hd. M.S.	{ 5 5 7 9 9 13	AA AO AF Y AD AO BW

Part No.	Part Name	Page	Index Letter
PS NUMBERS (continued)			
PS 1676-1	Std. 4BA x 1/4" Ch.Hd. M.S.	{ 13 13 17 25 25	CQ CS K B R
1687-1	Std. 4BA x 5/16" Ch.Hd. M.S.	{ 5 5 7 7 9 9 9 13 19 21 37	F L F L H N T BU Q Q AP4
1694-1	Std. 4BA x 3/8" Ch.Hd. M.S.	{ 15 19	FA E
1696-1	Std. 4BA x 3/8" c/sk. Hd. M.S	{ 13 25	CT A2
1708-1	Std. 4BA x 7/16" Ch.Hd. M.S.	29	CT
1717-1	Std. 4BA x 1/2" Ch.Hd. M.S.	21	E
1749-1	Std. 4BA x 5/8" Grub M.S.	13	CK
1761-1	Std. 4BA x 3/4" Ch.Hd. M.S.	{ 19 21	B B
1771-1	Std. 4BA x 13/16" Ch.Hd. M.S.	{ 5 7 7 9	D D W D
1811-1	Std. 4BA x 1 1/8" Ch.Hd. M.S.	9	W
1825-1	Std. 4BA x 1 1/4" Ch.Hd. M.S.	5	Y
1875-1	Std. 4BA x 1 5/8" Ch.Hd. M.S.	{ 5 7 9	AG AA AH
2029-1	Std. 6BA x 1/8" Ch.Hd. M.S.	{ 19 21 33 39	N N AG CN
2042-1	Std. 6BA x 5/32" Ch.Hd. M.S.	{ 17 29 29 35 39	J CQ DS AB CU
2043-1	Std. 6BA x 5/32" c/sk.Hd. M.S.	33	AG
2045-1	Std. 6BA x 3/16" Ch.Hd. M.S.	{ 10 23 31	AW AE6 BD
2047-1	Std. 6BA x 3/16" c/sk. Hd. M.S	{ 5 7 7 17 19 21 21 15 23 23 23 23	C C G M M FV H Q T X AB AX
2057-1	Std. 6BA x 7/32" Ch.Hd. M.S.	{ 23 23 23 23	H Q T X
2061-1	Std. 6BA x 1/4" Ch.Hd. M.S.	{ 7 13 13 15 15 15 25 25 33 37	X CD CG FN FT FX F X3 P AJ

Part No.	Part Name	Page	Index Letter
PS NUMBERS (continued)			
PS2063-1	Std. 6BA x 1/4" c/sk. Hd. M.S.	{ 29 35 39	EA Q CR
2072-1	Std. 6BA x 1/4" Cap.Hd. M.S.	{ 25 29 35	U3 DV V3
2074-1	Std. 6BA x 9/32" c/sk.Hd. M.S.	28	CM
2075-1	Std. 6BA x 9/32" Ch.Hd. M.S.	28	CE
2077-1	Std. 6BA x 5/16" Ch.Hd. M.S.	{ 12 13 13 23 29	BE BL BV3 BA CO2
2079-1	Std. 6BA x 5/16" c/sk.Hd. M.S.	{ 23 25	C A1
2093-1	Std. 6BA x 3/8" Ch.Hd. M.S.	{ 13 31 37	BZ AS AN4
2109-1	Std. 6BA x 7/16" Ch.Hd. M.S.	17	C
2125-1	Std. 6BA x 1/2" Ch.Hd. M.S.	{ 12 33	BB F
2129-1	Std. 6BA x 1/2" Rd.Hd. M.S.	31	BB
2143-1	Std. 6BA x 9/16" c/sk.Hd. M.S.	{ 15 29	FX CN
2152-1	Std. 6BA x 9/16" Cap.Hd. M.S.	40	DU
2173-1	Std. 6BA x 11/16" Ch.Hd. M.S.	{ 27 31 35	AA AL R
2189-1	Std. 6BA x 3/4" Ch.Hd. M.S.	{ 31 31	J BA
2205-1	Std. 6BA x 13/16" Ch.Hd. M.S.	31	U
2443-1	Std. 8BA x 5/32" Ch.Hd. M.S.	{ 23 23	AJ AV
2445-1	Std. 8BA x 3/16" Ch.Hd. M.S.	{ 31 31 33 35 40	AA AE T X DH
2462-1	Std. 8BA x 1/4" Ch.Hd. M.S.	25	L
2477-1	Std. 8BA x 3/16" c/sk.Hd. M.S.	{ 29 31	CO9 AH
2479-1	Std. 8BA x 5/16" c/sk.Hd. M.S.	31	W
2505-1	Std. 8BA x 3/8" Hex.Hd. M.S.	27	AX
5032	Special 4BA x 1/2" Shouldered Hd. M.S.	5	AM
5234	Special 2BA x 1/2" Ch.Hd. M.S.	{ 5 7 9	B B B
5264A	Special 4BA x 9/32" Ch.Hd. M.S.	{ 12 15	BH EK
5591	Latch Pivot Screw 8BA x 5/16" S.S.	27	BC
5594	Shouldered Screw 4BA x 1/4" Hex.Hd. M.S.	13	BP
5598	Special 8BA x 15/32" Ch.Hd. M.S.	31	O
5617	Shouldered Screw 6BA x 13/32" M.S.	40	DZ
5619	Special 4BA x 5/16" Ch.Hd. M.S.	37	BH
5705	Special 6BA x 3/16" Cap.Hd. M.S.	{ 31 31	F AX
5715	Special 6BA x 9/64" Cap.Hd. M.S.	37	AN6

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PS NUMBERS (continued)			
PS6108	Special 8BA x .187" Ch.Hd. Silver Steel ..	23	AE3
6846	Bias Adjusting Screw Clamp	31	AM
6850	Special 4BA x 1/2" Inst. Hd. M.S.	5	AN
7028	Special 6BA x 7/64" Fil. Hd. M.S.	{ 5 7	C C
7047-1	Special 8BA x 1/2" Ch.Hd. M.S.	23	AN
PW NUMBERS			
PW1005-1	Std. 2BA M.S.	{ 12 37 39	BB BM CC
1009-1	Std. 4BA M.S.	{ 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 9 9 10 12 13 13 15 25 25 25 39	H O R AH AO H O R W AB AF K AJ AV BJ BQ CS EL A4 B S CF3
1013-1	Std. 6BA M.S.	{ 10 12 13 13 15 15 15 23 23 23 23 23 23 23 23 23 27 27 27 28 29 29 29 29 31 33 33 33 35 35 35 37 37 37 39 40	AW BG BN CJ FO FT FX E K V Z AD AE8 AM AZ BA G AB AO2 CF CO3 CX DC DG DU AT H R T C T V5 AE AL AN7 DA3 DL3

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PW NUMBERS (continued)				PW NUMBERS (continued)							
PW1017-1	Std. 8BA M.S.	23	AO	PW2037	Std. 6BA Spring Washer	..	29	DD		
			25	M				29	DH		
			27	AZ				29	DT		
			29	CO10				29	DX		
			31	Q				33	G		
			31	AB				33	Q		
			31	AF				35	S		
			33	V				35	B3		
			35	Z				37	AN5		
			40	DK				39	CV		
1037-1	Std. 6BA M.S.	.. ..	25	U4	2038	Std. 6BA Spring Washer	..	13	CA	
			25	X4				15	FP		
			29	DW				15	FV		
			31	AO				15	FX		
2013	Std. 2BA Spring Washer	..	5	W	2039	Std. 6BA Spring Washer	..	27	AC		
			9	Q				35	V4		
			12	BB				37	AE		
			39	CD				37	AK		
2025	Std. 4BA Spring Washer	..	5	AE	2050	Std. 8BA Spring Washer	..	25	H		
			5	AJ				31	B		
			7	AD				31	P		
			9	U				23	AE4		
			9	AF				25	N		
			9	AL				27	AY		
			10	AU				27	BF		
			13	BR				29	CO11		
			13	BX				31	R		
			13	CR				31	W		
15	FB	31	AC								
27	AM	31	AG								
2026	Std. 4BA Spring Washer	..	5	D	5005-1	Special Washer $\frac{7}{64}$ " I.D. B.R.	{	31	G		
			5	G				31	AY		
			5	P				10	AW		
			5	S				15	FS		
			5	AO				19	O		
			7	D				21	O		
			7	G				5	D		
			7	P				7	D		
			7	S				9	F		
			7	AF				39	BJ		
9	E	39	DD								
9	J	40	DS								
25	A3	5119	Special Washer $\frac{9}{64}$ " I.D. B.R.	29	CU						
25	A4	5143	Special Washer $\frac{1}{8}$ " I.D. C.S.	33	AE						
25	B	5190	Special Washer $\frac{7}{64}$ " I.D. M.S.	23	R						
25	T	5222	Spacing Washer $\frac{5}{8}$ " O.D. M.S.	{	27	AD5					
29	CV	5223	Special Washer $\frac{1}{4}$ " O.D. M.S.	39	BT						
35	A2	5224	Thrust Washer $\frac{15}{32}$ " O.D. M.S.	35	J						
35	A3	5227	Shim $\frac{13}{64}$ " I.D. Spring Steel	27	BN						
35	A4	5262	Special Washer $\frac{3}{16}$ " I.D. M.S.	35	P4						
37	AP5	5277	Special Washer $\frac{13}{32}$ " O.D. Spring	27	AF						
39	CF4	5327	Connecting Lever Friction Washer $\frac{9}{64}$ " O.D. piano wire	23	BA						
2037	Std. 6BA Spring Washer	..	10	AW	5403	Special Washer $\frac{1}{4}$ " I.D. M.S.	23	23	BA		
			12	BF				27	BW		
			13	BM				5479	Spacing Washer 1" O.D. M.S.	39	BW
			13	BV4				5480	Oil impregnated Thrust Washer $\frac{55}{64}$ " O.D.	25	A
			13	CE							
			13	CH							
			15	FT							
			23	D							
			23	J							
			23	U							
23	Y										
23	AC										
23	AE7										
23	AM										
23	AY										
23	BA										
25	U5										
25	X5										
27	AO2										
28	CG										
29	CO4										
29	CY										

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PW5484	Shim Washer.. .. .	37	AQ
5491	Shim Washer $\frac{5}{32}$ " I.D. Spring Steel	{ 28 28	BW CL
5529	Spacing Washer .113 I.D. M.S.	13	CB
5556	Special Washer $\frac{3}{32}$ " I.D. Spring Steel	27	BE
5557	Special Washer $\frac{5}{32}$ " I.D. M.S.	{ 5 7 9	K K M
5596	Special Washer $\frac{5}{8}$ " O.D. M.S.	37	AS
5599	Shim Washer $\frac{5}{8}$ " O.D. Spring Steel	37	BE
5600	Shim Washer $\frac{5}{8}$ " O.D. Spring Steel	37	BE
5613	Special Washer .318" O.D. M.S.	28	BU

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PW5616	Spacing Washer	29	DM
5617	Spacing Washer $\frac{5}{32}$ " I.D. M.S.	{ 28 28 28	BV CB CK
5618	Locking Frame Stop	31	W
5619	Connecting Lever Spacer $\frac{1}{8}$ " I.D. Spring Steel ..	23	AG
5620	Abutment Washer $\frac{9}{64}$ " I.D. M.S.	{ 5 7 9	J J L
5642	Shim Washer	29	DO
RL NUMBER			
RL1006A	Roller	31	Y