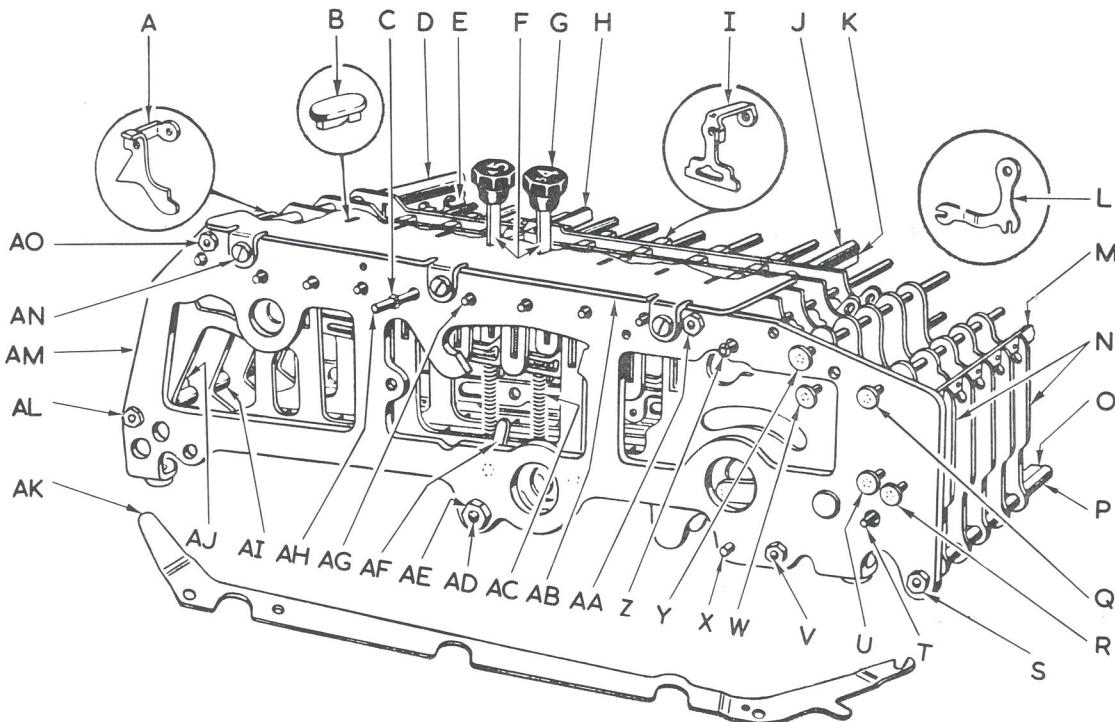


KEYBOARD ASSEMBLY, INTERLOCKS AND SHAFTS (Plate 1)



SYMBOLS (Plate 1)

- A 16214 $\frac{1}{2}$ regular
16214 $\frac{3}{8}$ for Indian currency or 16th frac.
90 $\frac{1}{4}$ No. 16 keyboard plug
- C 277 wire ring
- D 16203 Style 5, 9, 13 for hand and simplex electric machines
52000 Style 9, 13, No. 2 for duplex machines
- E 16225 Style 5, 9, 13
- F 16221 Nos. 1 thru 9 regular; see Plate 2 for other styles
- G 16291B Nos. 1, 3, 5, 7, 9 (regular, specify No. and color;
16292B Nos. 2, 4, 6, 8) (see Plate 2-1 for other Nos.)
16291B Blank specify color
- H 16226 Style 5, 9, 13
- I 16214 regular
16214 $\frac{1}{8}$ for Indian currency or 16th frac.
16214 $\frac{3}{8}$ used with $\frac{1}{8}$ and 1/12 frac.
- J 16203 Style 5, 9, 13 for hand and simplex electric machines
52003 Style 9, 13 for duplex machines with direct subtract
- K 16226 Style 5, 9, 13
- L 16210 $\frac{3}{8}$
- M 16224 Style 5, 9, 13
- N 1-16210 hand (specify style of machine, position of plate, and if for fractions)
1A-52111 No. 2 elec. plate, and if for fractions
- O 16226 Style 5, 9, 13
- P 16203 Style 5, 9, 13 for hand and simplex electric machines
52000 Style 9, 13 No. 2 for duplex machines
- Q 1-16900 Style 5, 9, 13
- R 1-16801 Style 5, 9, 13
- S 16246
- T 16802 Style 5, 9, 13, use 1-16841 $\frac{1}{2}$ set collar
- U 1-16801 Style 5, 9, 13
- V 16203 Style 5, 9, 13 for hand machines and simplex electric machines
52000 Style 9, 13 No. 2 for duplex machines
- W 1-16903 Style 5, 9, 13
- X 16601 Style 5, 9, 13 for hand and simplex electric machines
11-52001 Style 9, 13 for duplex machines; use 1-52312 collar,
includes 74533 screw
- Y 1-16801 Style 5, 9, 13
1-16201A Style 5, 9, 13
- Z 16246
- AA 16213 Style 5 for Style C101
52113 Style 9 for Styles C203, 5 10 45, 5 10 55
1-52113A Style 9 No. 1 for Style 5 10 55 with clear key latch
1A-52113B Style 9 No. 1 for Style C303
52113 Style 9 No. 2 for Styles C103 and 5 10 25
52113 Style 12 for Styles C204, C304
52113 Style 13 for Styles C205, 5 14 45, C305
52113 Style 13 No. 2 for Styles C105 and 5 14 25
For fraction machines (other than Sterling) use keyboard plug
90 $\frac{1}{4}$ No. 16 to plug unwanted slots.
- AC 16280 hand
52880 elec.
- AD 16203 $\frac{1}{2}$ Style 5, 9, 13 shaft
- AE 3434
- AF 16215 use 650A rivet
- AG 1-16202 $\frac{1}{2}$ Style 5, 9, 13 for hand machines
1-52002 Style 9, 13 for electric machines
- AH 1-16202 Style 5, 9, 13
- AI 16203 Style 5, 9, 13 for hand machines
52000 Style 9, 13 for electric machines
- AJ 16226 Style 5, 9, 13
- AK 52211 for hand machines
1-52211 No. 3 for Style 5 10 55
11-52211 for all style elec., except Style 5 10 55
- AL 46
- AM 1A-16210L Style 5, for Style 5 05 05
1-16210AL Style 9 early, for Style 5 09 05 and 5 13 05
1-16210BL Style 9 for all late style hand machines
1-52110AL No. 1 for all late style elec. machines
- AN 12055 9/16
- AO 16246

KEYTOP CHART (PLATE 2-1)

When ordering keytops, enter only the complete **Symbol No.**, **Color**, and **Color No.**—as given in the example below—in the Part No. space on the Service Parts Order (Form 1440). *All other information must be attached separately.* If there is doubt concerning the exact color required, refer to the set of color disks available in each branch.

Example:

Symbol No.

16291 D Number

Figure

63

Color

Gray

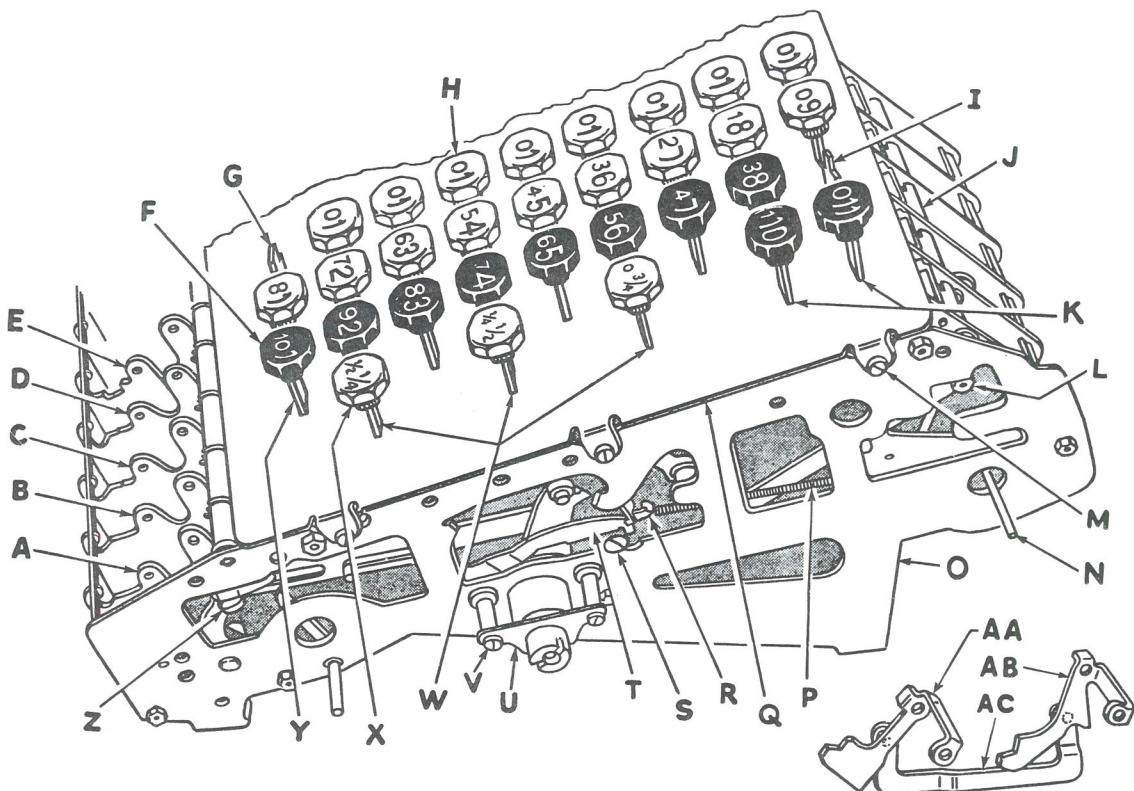
Color No.

207

This is part of the Symbol No.
and must be included

Keytop Outline	Symbol No.	Description	Color	Color No.
	16291B Number	Gray Ivory Red Blue Black White	Gray Ivory Red Blue Black White	(204) (302) (402) (700) (800) (900)
	16291D Number		Gray Ivory	(207) (301)
	16291B Shillings	Gray Ivory Red White	Gray Ivory Red White	(204) (302) (402) (900)
	16291D Shillings		Gray Ivory	(207) (301)
 	16291B Hr. & Min.	Gray Ivory Red	Ivory Red	(302) (402)
	16291D Hr. & Min.		Ivory	(301)
	16291B 8ths	Gray Ivory Red White	Gray Ivory Red White	(204) (302) (402) (900)
	16291D 8ths		Ivory	(301)
	16291B 12ths	Gray Ivory Red Black	Gray Ivory Red Black	(204) (302) (402) (800)
	16291D 12ths		Brown Gray Ivory	(108) (207) (301)
	16291B 16ths	Gray Red White	Gray Red White	(204) (402) (900)
	16291D 16ths		Gray	(207)
	16291C Numerator	Ivory Red	Ivory Red	(302) (402)
	16291D Numerator		Ivory	(301)
 	16291 ½ B 8ths	Gray Ivory Red White	Gray Ivory Red White	(204) (302) (402) (900)
	16291 ½ D 8ths		Ivory	(301)

KEYBOARD ASSEMBLY, POUND, SHILLING, PENCE, AND FARTHING
(Plate S-2-1)



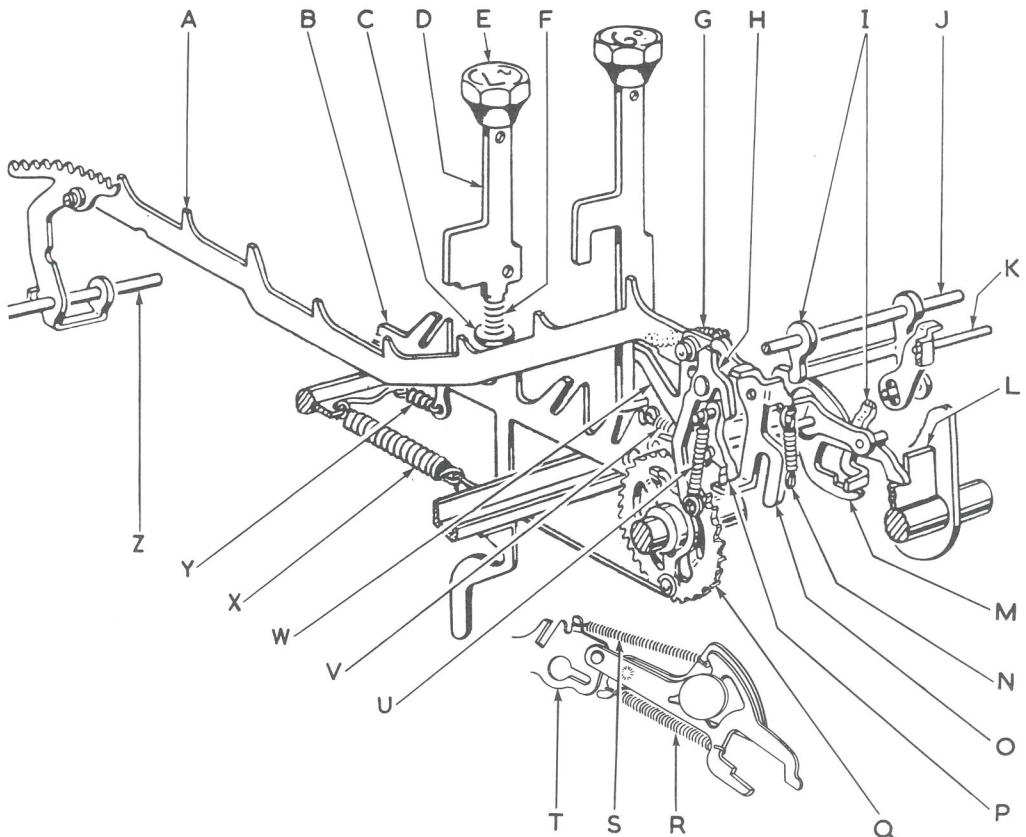
SYMBOLS (Plate S-2-1)

NOTE: See Plate S-6-1 for partition plates and keystems for electric machines.

- A 1-16210 $\frac{1}{4}$ 8ths
- B 1-16210 12ths
- C 1-16210
- D 1-16210 Shilling No. 1
- E 1-16210 Shilling No. 2
- F See Keytop Chart Plate 2-1
- G 16221 Shilling Nos. 1 thru 9 Specify No.
- H See Keytop Chart Plate 2-1
- I 16221 12ths No. 9
- J 11-16205 12ths Style 9, 13 shaft
- K 1-16221 12ths Nos. 10, 11 Specify No.
- L 46 nut, 7919 $\frac{1}{2}$ A washer
- M 12055 9/16
- N 16601 Style 9, 13
- O 1-16210BR Style 9
- P 1-16380B
- Q 16213 Style 5 £.s.d.f. (16213 Style 5, 90 $\frac{1}{4}$ No. 16, 4 req.) for Style 5 05 $\frac{1}{4}$
16213 Style 5 for Style C101
16213 Style 9, 13 early for Style 5 09 05 $\frac{1}{4}$ and 5 09 25 $\frac{1}{4}$; use keyboard plug 90 $\frac{1}{4}$ No. 16, 4 req.
52113 ($\frac{1}{4}$ pence) Style 9 for Style C203 $\frac{1}{4}$

- 52113 ($\frac{1}{4}$ pence) Style 13 for Style C205 $\frac{1}{4}$, C305 $\frac{1}{4}$ and 5 14 45 $\frac{1}{4}$
- 52113 ($\frac{1}{4}$ pence) Style 9 No. 2 for Style C103 $\frac{1}{4}$
- 52113 ($\frac{1}{4}$ pence) Style 13 No. 2 for Style C105 $\frac{1}{4}$ and 5 14 25 $\frac{1}{4}$
- 52113 ($\frac{1}{4}$ pence) Style 12 for Style C204 $\frac{1}{4}$ and C304 $\frac{1}{4}$
- 52113 ($\frac{1}{2}$ pence) Style 12 for Style C205 $\frac{1}{2}$ and C305 $\frac{1}{2}$
- 1A-52113B Style 9 No. 1 for Style C303 $\frac{1}{4}$; use keyboard plug 90 $\frac{1}{4}$ No. 16, 4 req.
- R 16359 $\frac{1}{4}$
- S 4857 $\frac{1}{2}$
- T 16316A
- U 16219
- V 12055 9/16
- W 16221 8ths No. 2 ($\frac{1}{4}$ fraction)
16221 8ths No. 4 ($\frac{1}{2}$ fraction)
16221 8ths No. 6 ($\frac{3}{4}$ fraction)] Specify No.
- X See Keytop Chart Plate 2-1
- Y 16221 Nos. 1 thru 8
- Z 16855
- AA Included in AC
- AB Included in AC
- AC 1-16214 $\frac{1}{2}$ includes AA, AB

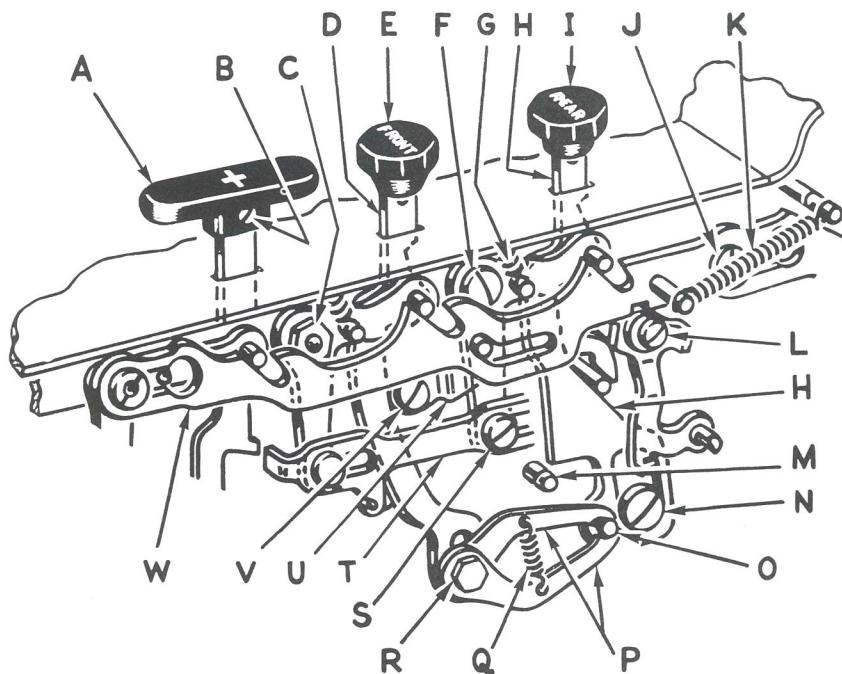
KEYSYSTEMS AND ADDING SECTORS, ELECTRIC MACHINES (Plate 4)



SYMBOLS (Plate 4)

- | | | |
|---|---|------------------------|
| A 1B-56114 No. 2 regular | 1B-56114 8ths No. 2 | includes G, H, P, U, W |
| 1B-56114 12ths No. 2 | | |
| B 1-56115A No. 1 without auxiliary cam on cam latch | 1A-56115A No. 1 with auxiliary cam on cam latch | |
| C 52300 keystem guide | | |
| D 52221 Nos. 1 through 9 regular | Specify No. | |
| 52221 8ths Nos. 1 through 7 | | |
| 52221 12ths Nos. 4, 5, 6, 8, 9, 10, 11 | | |
| 52221 16ths No. 4 through 9 | | |
| E See Keytop Chart Plate 2-1 | | |
| F 52880 spring | | |
| G 56805 spring | | |
| H Included in A | | |
| I 1-56103 1/2 | | |
| J 11-52001 Style 9, 13 | 52001 Style 9, 13 for duplex machines; use 1-52312 collar, includes 74533 screw | |
| K 1-16801 Style 9, 13 | 16801 Style 9, 13 for duplex machines; use 1-16841 1/2 collar, includes 16857 screw | |
| L 52124 Style 9, 13 | | |
| M Included in B | | |
| N 3486 1/2 | | |
| O 56103B | | |
| P 1A-56101 use 21 No. 24 clip; for repairs on old style machines use 1-56309 collar, includes 16857 screw | | |
| Q 1-51128 (1-51128A, 51803, 51329, 51512) | | |
| R 69806 spring | | |
| S 3480 1/2 spring | | |
| T 1A-56115A No. 1 | | |
| U 1-56808 includes 20 No. 32 eyelet | | |
| V 3480 1/2 spring | | |
| W Included in A | | |
| X 56803 | | |
| Y 82809 | | |
| Z 16601 Style 9, 13 | | |
| | 11-52001 Style 9, 13 for duplex machines; use 1-52312 collar, includes 74533 screw | |

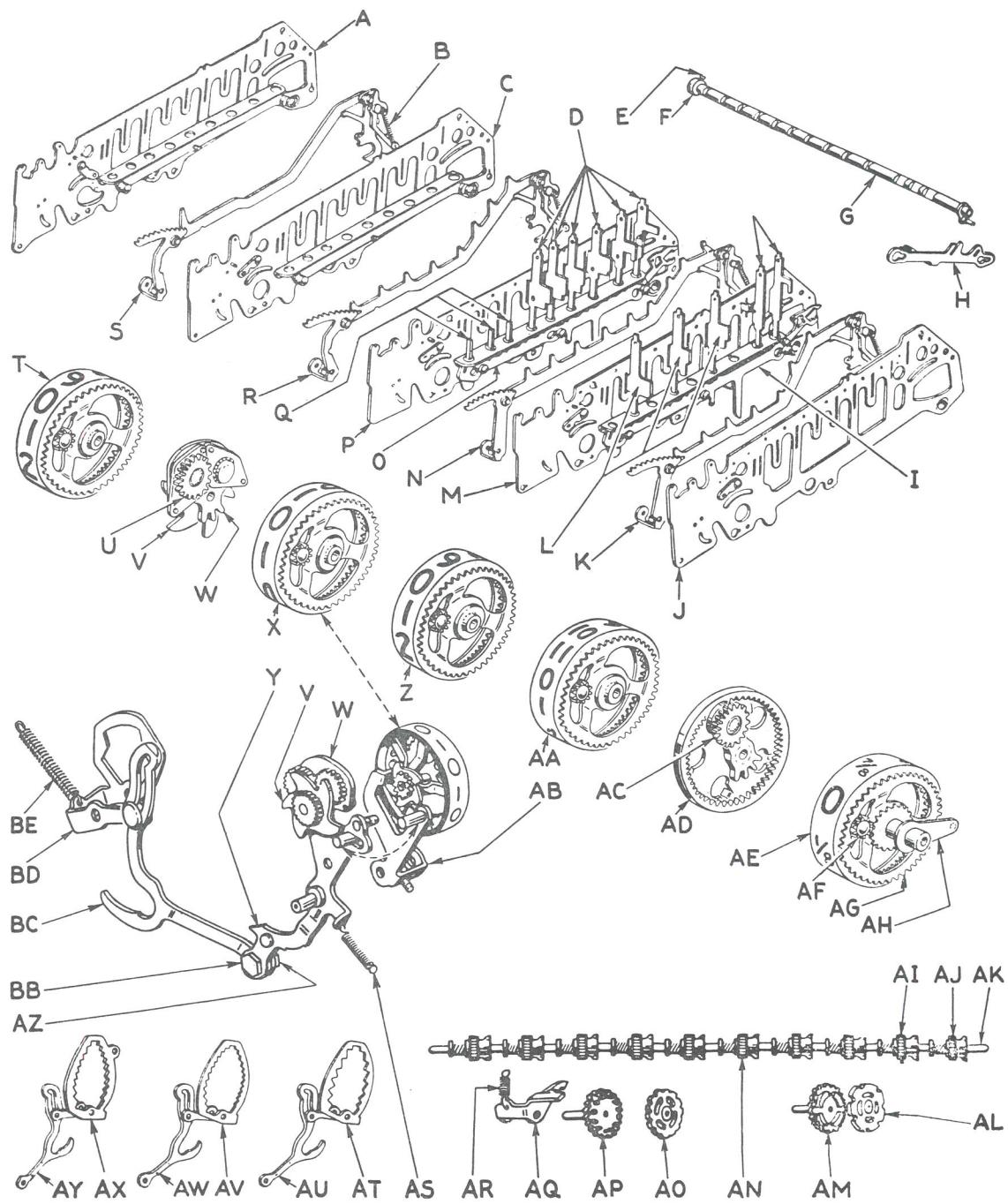
REAR CLEAR KEY LATCH, DUPLEX MACHINES (Plate 5-1)



SYMBOLS (Plate 5-1)

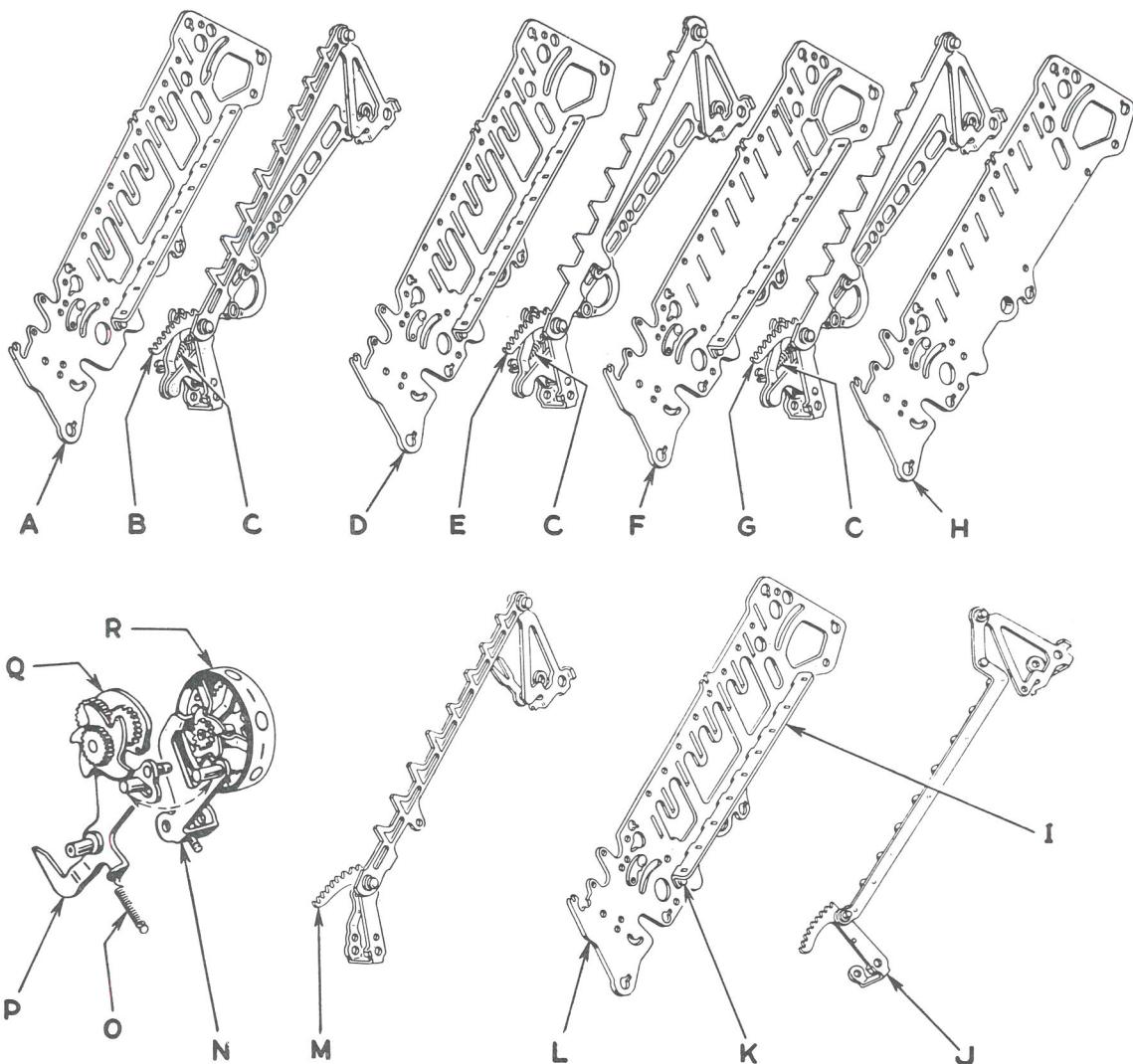
A	53900A No. 2
B	74502 screw
C	200470 nut, use screw 53510 No. 2
D	1-53118 No. 3
E	53901A Front
F	53510 screw
G	10784 spring
H	1-53118A No. 3
I	53901A Rear
J	53511 screw
K	10786
L	53517A screw
M	Included in assembly 41A-52110AR No. 1
N	53514A, use nut 702300 No. 2
O	Included in H
P	53140
Q	53807 spring
R	53545
S	75645 screw
T	1-53133A
U	1-53129
V	53525 screw
W	1A-53128 No. 2

ACCUMULATION FOR POUND, SHILLING, PENCE, AND FARTHING
(Plate S-6-1)



SYMBOL NUMBERS ON NEXT PAGE

**ACCUMULATION FOR POUND, SHILLING, PENCE, AND FARTHING
—HAND MACHINES (Plate S-6-2)**



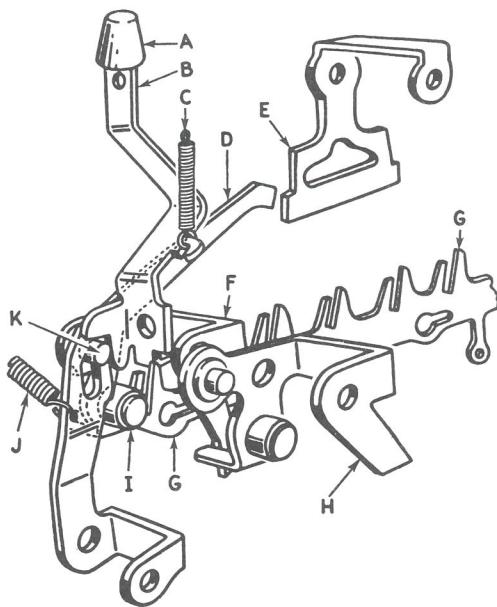
SYMBOLS (Plate S-6-2)

A	1-16210 Shilling No. 1
B	2-16610C includes C
C	16681A
D	1-16210
E	2-16610C (12ths) includes C
F	1-16210 (12ths)
G	2-16610C (8ths) includes C

H	1-16210 1/4 (8ths)
I	16212Z
J	2-16610 1/8A
K	16253 1/2
L	1-16210 Shilling No. 2
M	2-16610CL
N	1-16821 1/2

O	10085
P	1-16821 1/8A
Q	2-16914 1/8
R	2-16913A Shilling, Ivory Body, Red Inlay
	2B-16913A Shilling, Ivory Body, Red Inlay, with bold figures

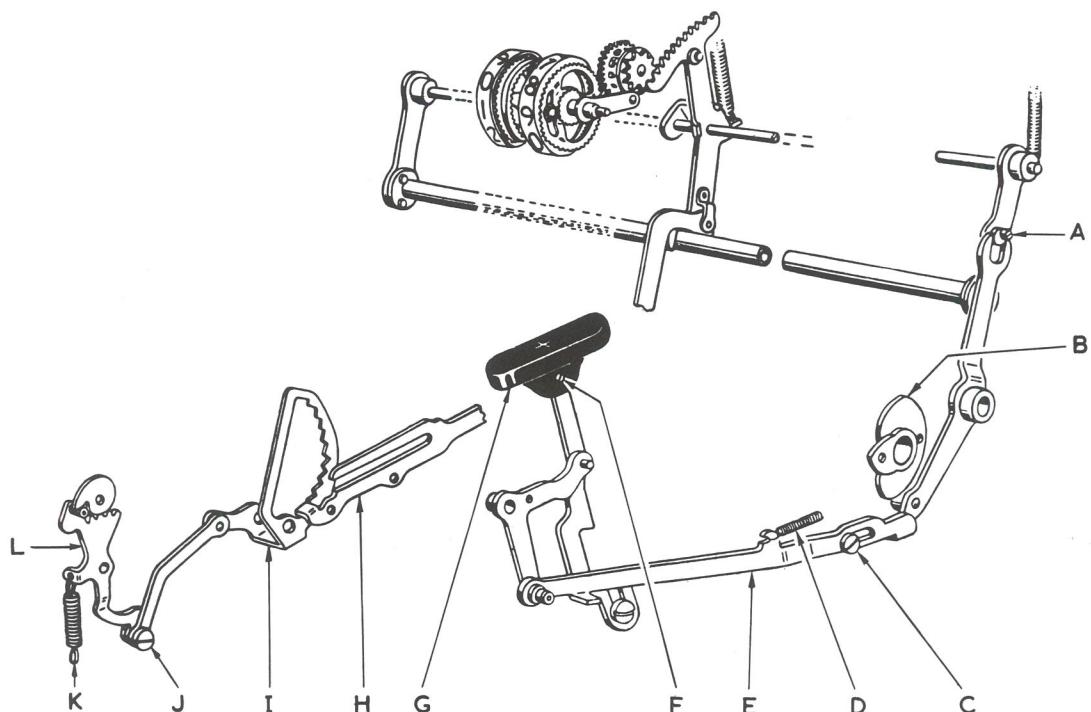
SUBTRACTION CONTROL KEY MECHANISM (Plate 8)



SYMBOLS (Plate 8)

- A 82990A red
- B 52993B specify color, ivory or gray
- C 52221 No. 17
- C 489
- D 56130A
- E 16214 regular; see Plate 1 for other styles
- F 1-56131 regular
- G 1-56115A No. 1 without auxiliary cam on cam latch
1A-56115A No. 1 with auxiliary cam on cam latch
- H 1-56131R used in extreme right position
1-56131L used in extreme left position
- I Included in F
- J 51802
- K Included in F

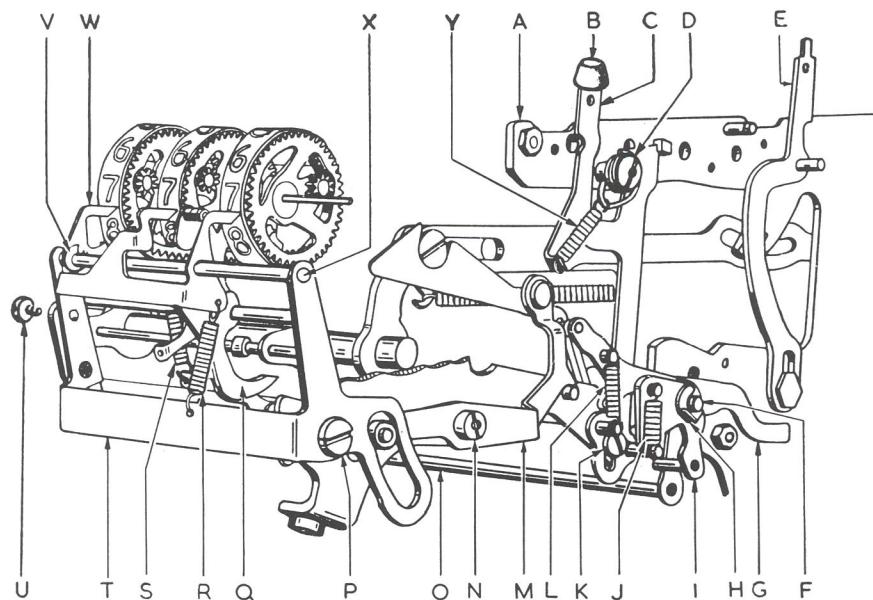
TRANSFER MECHANISM WITHOUT DIRECT SUBTRACT KEY (Plate 10)



SYMBOLS (Plate 10)

A	59503A eccentric, use 46 nut
B	1-51100 No. 2
C	3259½A
D	79805
E	1B-53134A
F	74502
G	53900 No. 2 (53900A No. 2)
H	56121A
I	56121 early style
J	1-56111 10ths
K	72656 screw, use 49½ nut
L	16880
	1-58121

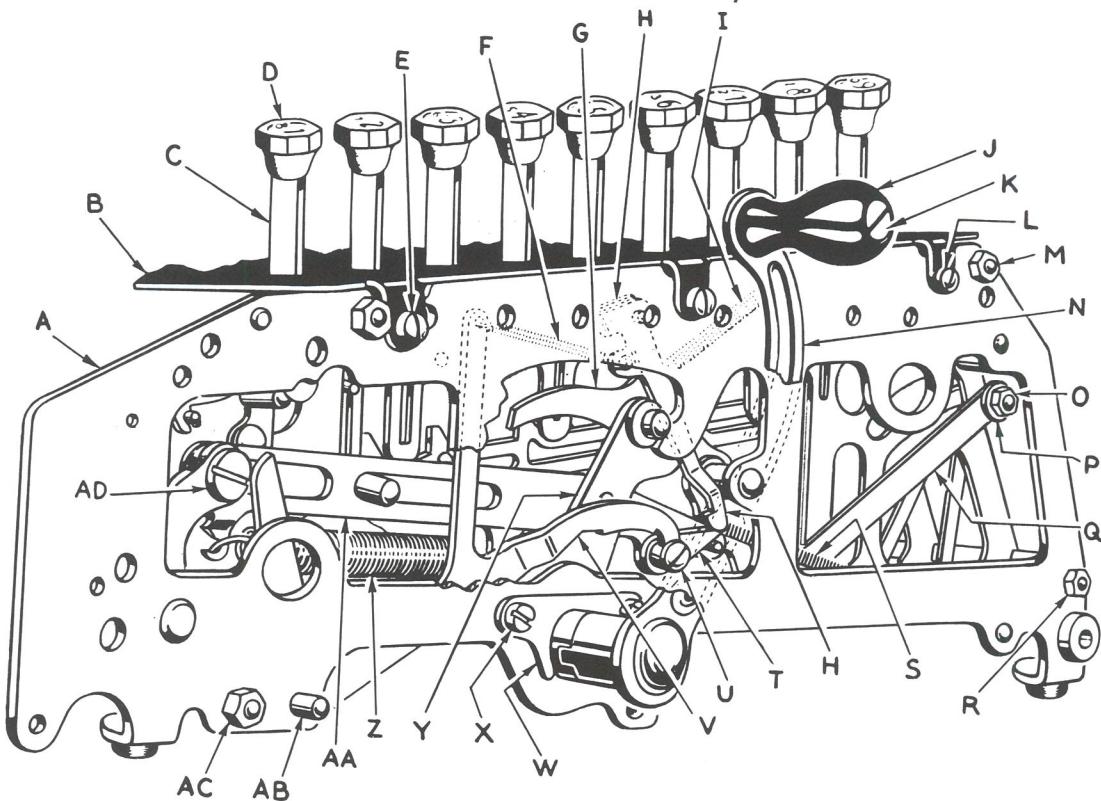
PRORATING MECHANISM (Plate 12)



SYMBOLS (Plate 12)

A	41A-52110AR No. 1 side frame, right
B	52993B Ivory key button
C	1-54221 prorating keystem
D	53511A No. 2 shoulder nut, on screw 53510 No. 2
E	1-53118 No. 3 front clear key
F	54501 screw, use $46\frac{1}{8}$ nut
G	1-54104 actuating arm
H	21 No. 8 clip
I	1-54106 rocker arm
J	74803 spring
K	77529 screw
L	10180 spring
M	1-54101 bell crank assembly
N	200438 circular nut, use 54300 spacer
O	1-56000 bail
P	73607 screw, use 54301 nut
Q	1-58121 No. 4 carry arm used in columns 1, 2, 3 with prorate fte.; see U, Plate 11 for other styles
R	16880 spring
S	10180 spring, on carry arm Q
T	1-54100 bail assembly
U	74587 screw
V	21 No. 7 clip
W	54105 limit bail
X	54000 shaft
Y	73805 spring, use 20 No. 73A wire hook

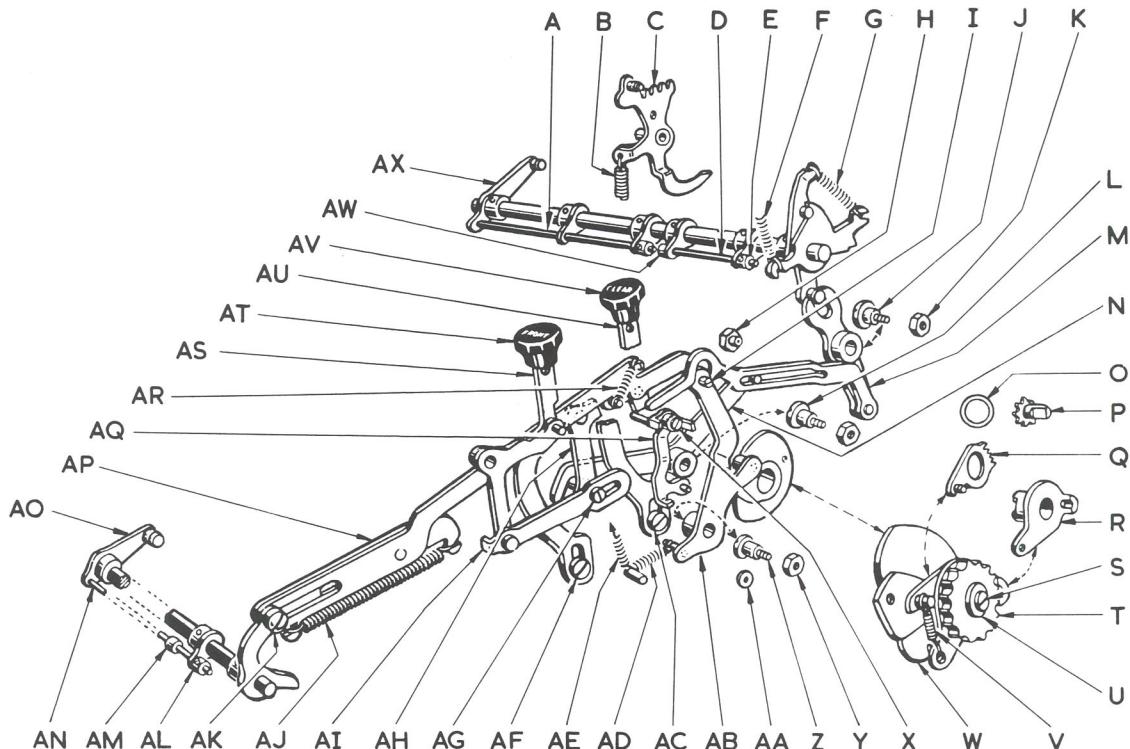
CLEARING MECHANISM, HAND CALCULATOR (OUTSIDE VIEW) (Plate 14)



SYMBOLS (Plate 14)

A	1A-16210R Style 9 early, for Styles 5 09 05 and 5 13 05	includes G, Q, T, U, W, X, Y, Z, AA, AD	N	1-16318 with short pin, used for early style machines 1-16318 Style 9 with long pin, used for late style machines
B	1-16210BR Style 9 for all late style hand machines		O	46
C	41A-52110AR No. 1 for all late style elec. machines		P	7919 1/2A washer
D	16213 Style 5, see Plate 1 for other styles		Q	Included in G
E	16221 Nos. 1 thru 9 regular; see Plate 2 for other styles		R	46
F	16291B Nos. 1, 3, 5, 7, 9 specify No. and color, regular;		S	16380B
G	16292B Nos. 2, 4, 6, 8 see Plate 2-1 for other Nos.		T	16359 1/4
H	16291B Blank specify color		U	4857 1/2
I	12055 9/16		V	16316A
J	986 spring		W	16219
K	1-16312 includes Q		X	12055 9/16
L	16317		Y	1B-16311 for Style 5
M	7283 1/4 spring		Z	1-16311 Style 9 for Style 9, 13/see G, Plate 13
	4891A		AA	Included in Y
	73612		AB	16601 Style 5, 9, 13
	12055 9/16		AC	46
	46		AD	16855

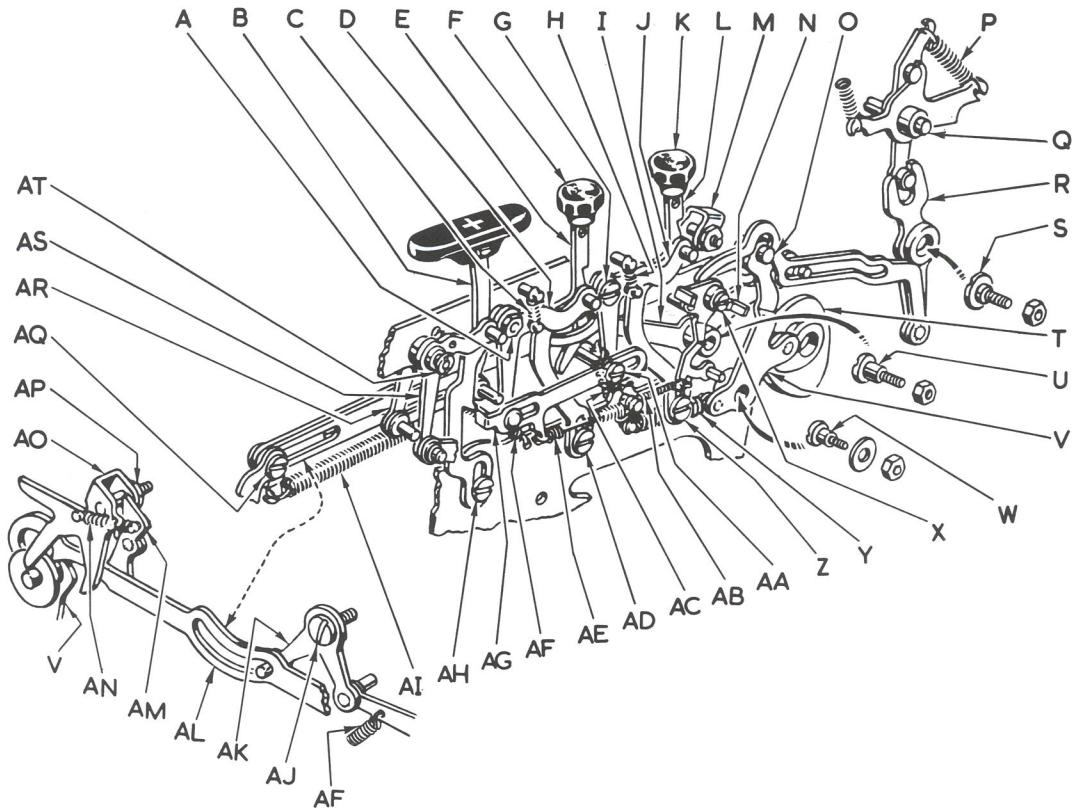
**CLEARING MECHANISM, WITH CLEAR AND FRONT KEYS, AND
DRIVE CLUTCH—DUPLEX MACHINES (Plate 16)**



SYMBOLS (Plate 16)

A	58002L Style 9, 13 58002 No. 2 Style 9, 13 used with Sterling construction	Y	46
B	16880	Z	53503
C	1-58121 No. 3 shown, used in 4th col. only	AA	913½ washer
	1-16821A regular	AB	1-53117 No. 2
	1-16821AL used in extreme left position	AC	53514 screw (203565½) use nut 702300 No. 2
D	58002R	AD	53801 No. 2
	58002 No. 2 Style 9, 13 used with Sterling construction	AE	300803 (53808) spring for N
E	1-16841½ includes 16857 screw	AF	3259½A used on machines prior to C44024S
F	72826	AG	707509 screw, 46½ nut used on ma- chines from C44024S
G	58801	AH	75645
H	3434 used with screw I	AI	1-53123 No. 2
I	704544	AJ	1-53133
J	53521	AK	785 Style 15 for 9 col. construction
K	46	AL	53805 Style 13 for 13 col. construction
L	53550 use 46 nut	AM	16855
M	1-53122	AN	16841½ includes 16857 screw
N	1-53126	AO	16840 roller
O	68115 (51115) washer	AP	16841 roller, used in extreme left posi- tion
P	51555	AQ	16802 Style 9, 13 shaft
Q	1-51190A	AR	21-58000 Style 9, 13
R	1-51340 No. 2	AS	1-53114 No. 2 includes AR, AK
	1-51340 No. 3 used with non-slip clutch mechanism, Plate 16-1	AT	1-53120A
S	60550 screw	AR	489 spring
T	51393 (51393A)	AS	1-53118 No. 3
U	824½ washer	AT	53901 Front specify color, ivory on gray, white on black
V	44805 spring	AU	1-53118 No. 3
W	1-51100 No. 2	AV	53901 Clear specify color, ivory on gray, white on black
X	53517A screw	AW	16840 roller
		AX	31A-58000 Style 9, 13

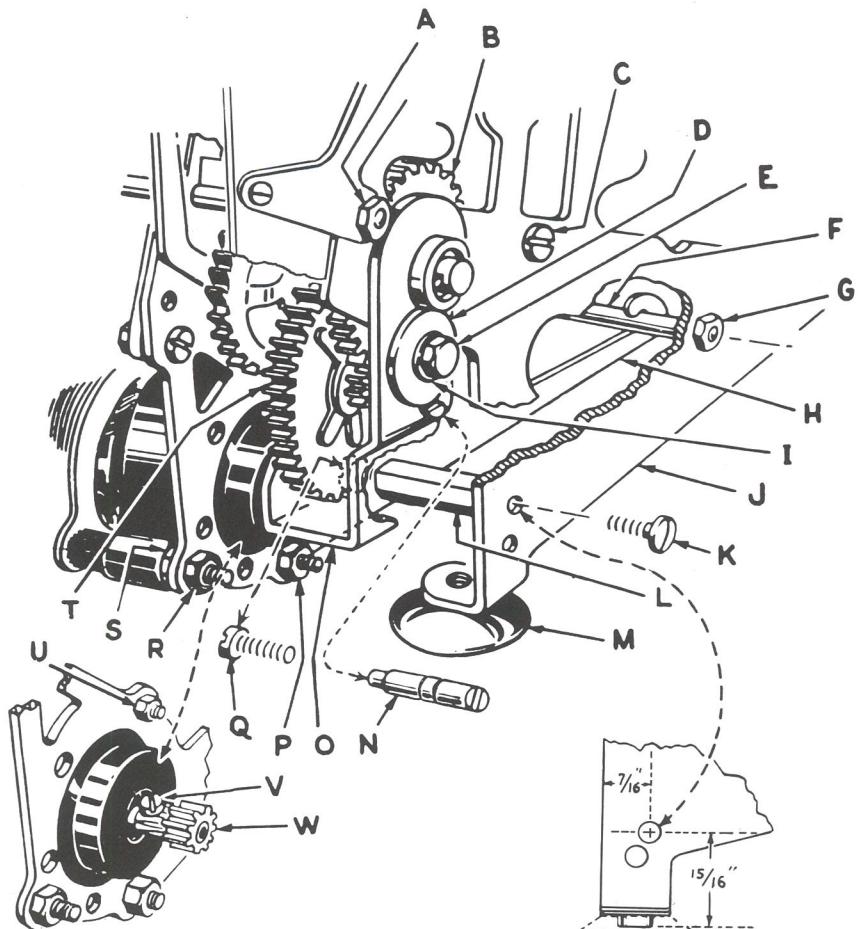
CLEARING MECHANISM, WITH REAR AND FRONT KEYS—DUPLEX MACHINES (Plate 17)



SYMBOLS (Plate 17)

A	200470 nut, use 53510A No. 2 screw and 7919½A space washer	Z	53514 (203565½) screw, use 702300 No. 2 nut
B	1-53118 No. 2	AA	75645 screw
C	10784 spring	AB	53804 spring
D	Included in AG	AC	53808 spring for I
E	1-53118 No. 3	AD	3259½A
F	53901 Front, ivory on gray 53901A Front, white on gray	AE	79805 spring
G	53510 screw	AF	71805 spring
H	10784 spring	AG	1-53133A
I	1A-53126	AH	3259½A used on machines prior to C44024S
J	1-53123 No. 2	707509	screw, 46½ nut, used on machines from C44024S
K	53901 Rear, ivory on gray 53901A Rear, white on gray	AI	785 Style 15 for 9 col. construction 53805 Style 13 for 13 col. construction
L	1-53118 No. 3	AJ	53510 No. 2
M	1-53116A	AK	Included in AR
N	1A-53120A	AL	1-53114A No. 2
O	Included in V	AM	Included in AO
P	58801	AN	76806 spring
Q	31A-58000 Style 9, 13	AO	1-53116A
R	1-53122	AP	53544 screw post
S	53521 screw, use 46 nut	AQ	16855 screw
T	1-51100 No. 2	AR	1-53133½ (1A-53133½)
U	53550A screw, use 46 nut	AS	1-53134A (1B-53134A)
V	1-53117B No. 2	AT	53511 No. 2 (53511A No. 2) nut, use 53510A No. 2 screw and 7919½A space washer
W	53503 screw, use 913½ washer, 46 nut		
X	53517A screw		
Y	53801 No. 2 spring		

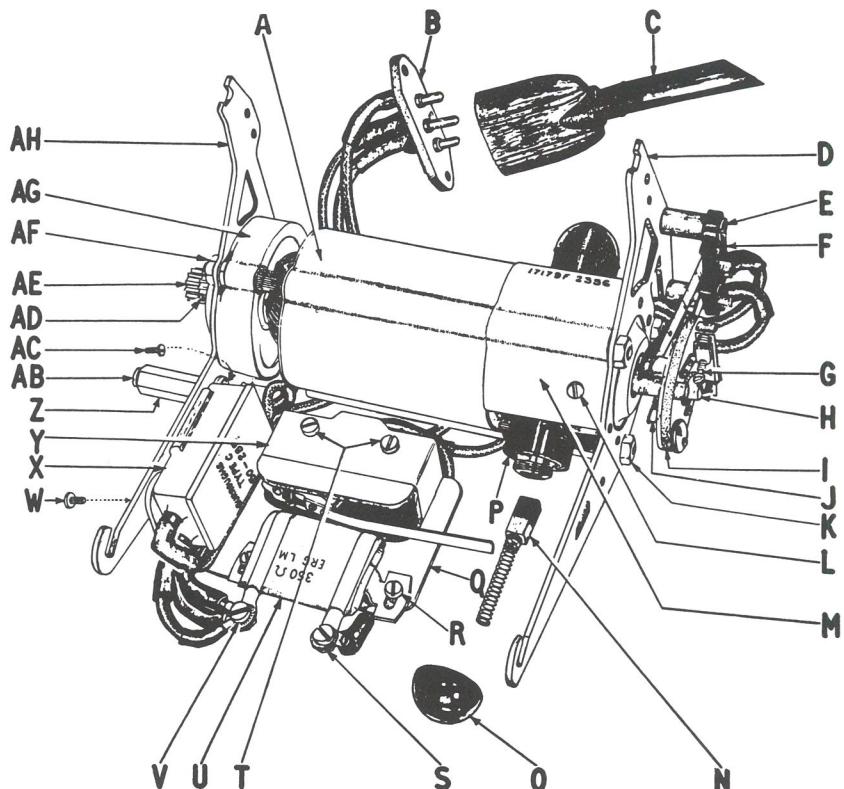
TYPE C MOTOR ANCHORAGE AND DRIVE GEARS—IMPROVED
(Plate 18-1)



SYMBOLS (Plate 18-1)

A	3434
B	51302D
C	7357½ screw, use 702300 No. 2 shoulder nut
D	3325 ¾
E	79598
F	16203½ Styles 9, 13 shaft
G	3434
H	51103A No. 2
I	86129
J	1-52110AL No. 1
K	60550 screw, use X275-5 lockwasher
L	51346 hexagon post
M	50102
N	51505B pin
O	1-51101B bracket
P	47
Q	12052
R	47
S	47 1/8 nut
T	1-51330D
U	46
V	4551 ½
W	4534C

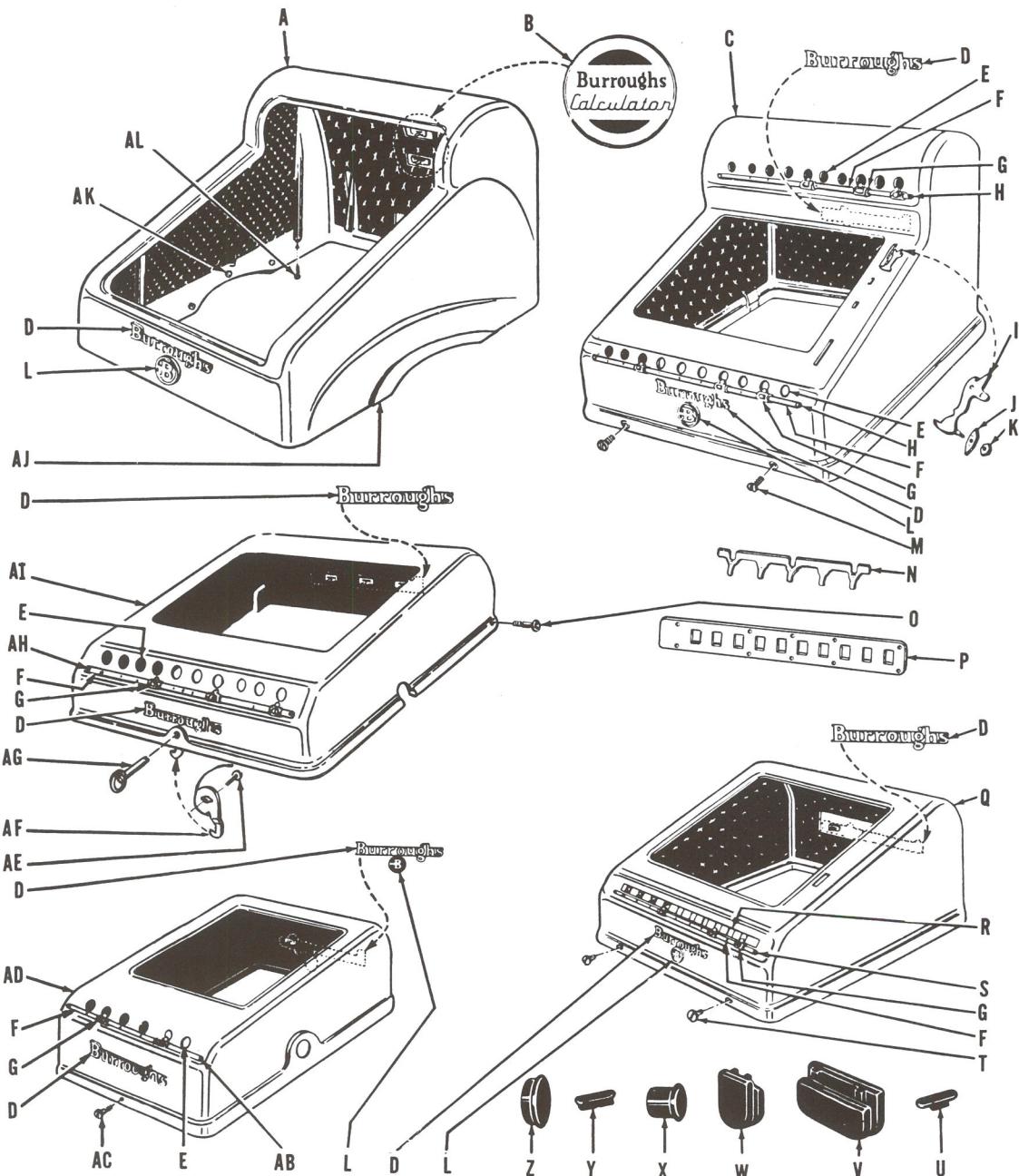
**COMPLETE ASSEMBLED TYPE C MOTOR WITH MICROSWITCH
AND LEE TYPE GOVERNOR (Plate 20)**



SYMBOLS (Plate 20)

A	12B-4567C Specify Voltage (12C-4567C Specify Voltage) complete motor assembly for machines with detachable cord	J	81990 carbon brush
	12BZ-4567C Specify Voltage (12CZ-4567C Specify Voltage) complete motor assembly for machines with non-detachable cord	K	47 nut
	1-4500C Specify Voltage armature	L	952 $\frac{3}{4}$ screw
	1C-4517A Specify Voltage stator	M	51112B cover
B	31-25A No. 1 three pin receptacle	N	1-4590 brush and spring
C	1-78 No. 3 line cord, 3 wire (white, black, green) U. S. and Canada	O	1-4538 brush cap
	1X78-3 line cord, 2 wire (white and black), U. S. and Canada	P	1A-4566D molded motor end cap
	1-78 No. 7 line cord, 3 wire (red, black, green)	Q	51116 mounting plate
	1-78 No. 9 line cord, 2 wire (red and black)	R	75608 screw
D	1-51103B No. 1 side plate, right	S	49 $\frac{1}{2}$ nut
E	75615 screw	T	4450 $\frac{5}{8}$ A screw
F	2A-51141 brush holder assembly, includes J and wires	U	1X92-1 resistor, 150V
G	81604Z adjusting screw; use 4543Z locknut		1X92-6 resistor, 110V
H	51310 nut		1X92-7 resistor, 220V
I	1-51125 governor, includes G; use spacer 51309 on armature shaft		1X92-8 resistor, 250V
		V	75615 screw
		W	952 $\frac{3}{4}$ screw
		X	1X89-4 capacitor
		Y	1X83-4 microswitch; use switch bail
			1C-51110 Style 9 or 13
		Z	51346 post
		AB	60550 screw, use X275-5 washer
		AC	12052 screw
		AD	4551 $\frac{1}{2}$ screw
		AE	4534C gear
		AF	47 nut
		AG	1A-4567 $\frac{1}{4}$ molded motor end cap
		AH	51103A No. 2 side plate, left

CASES AND CASE DETAIL (Plate 23)

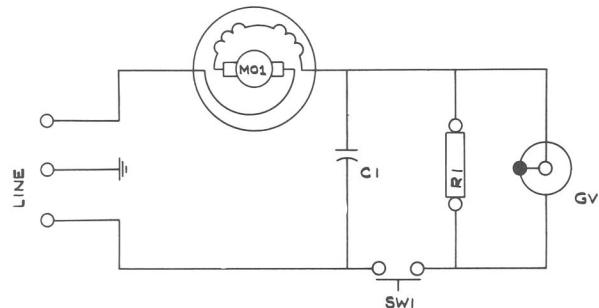


SYMBOLS (Plate 23)

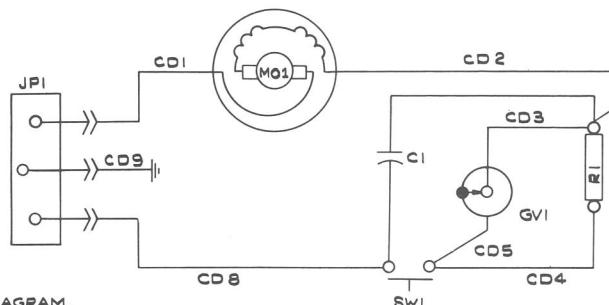
- A See Plate 23-1, Reference A
 B **91½ No. 5A** use 2 speed nuts **22 No. 4 (X31-1)**
 C See Plate 23-1, Reference C
 D **91½ No. 1** $3\frac{1}{4}$ " long, 3 studs $\frac{1}{16}$ " long; for black cases; use 3 speed nuts **22 No. 3**
91½ No. 23 $2\frac{1}{2}$ " long, 2 studs $\frac{1}{16}$ " long; for other than black cases; use 2 speed nuts **22 No. 3**
91½Z No. 23 $2\frac{1}{2}$ " long, 2 studs $\frac{1}{16}$ " long; for black cases; use 2 speed nuts **22 No. 3**
91½ No. 24 $3\frac{1}{4}$ " long, 3 studs $\frac{1}{16}$ " long; for other than black cases; use speed nuts **22 No. 3**

SYMBOL NUMBERS CONTINUED ON NEXT PAGE

WIRING DIAGRAM FOR TYPE C MOTOR WITH MICROSWITCH AND BURROUGHS TYPE GOVERNOR (Plate 21-1)



SCHEMATIC DIAGRAM



WIRING DIAGRAM.

SYMBOLS (Plate 21-1)

REFERENCE	PART NUMBER	REQ.	DESCRIPTION
M01	12C-4567C (110) (150) (220) or 250 volts.	1	Type C Motor, DC and AC, 25-60 cycles.
C1	1X89-4	1	Capacitor, one lead to resistor and one to microswitch.
CD1	Included in motor	1	Wire, brush holder to line cord receptacle.
CD2	Included in motor	1	Wire, field coil to resistor.
CD3	1-4570 $\frac{7}{8}$	1	Wire, 6" long; resistor to governor brush holder.
CD4	1X71-28	1	Wire, 4 $\frac{1}{2}$ " long; resistor to microswitch.
CD5	1-4570 $\frac{7}{8}$	1	Wire, 6" long; microswitch to governor brush holder.
CD8	1A-4579 $\frac{1}{4}$	1	Wire, 7 $\frac{1}{8}$ " long; microswitch to line cord receptacle.
CD9	1B-4579	1	Wire, 6" long; ground connection from 47 nut on left hand motor end plate to center connection of line cord receptacle.
CD9 (for U. S. A. & Canada)	1B-4579 & 1A-4579 $\frac{3}{4}$	1 each	Simplex machines. 1B-4579 wire, 6" long; ground connection from machine side frame to left hand fixing screw of line cord receptacle. 1A-4579 $\frac{3}{4}$ wire, 2 $\frac{3}{8}$ " long; ground connection from left hand fixing screw of line cord receptacle to center connection of line cord receptacle. Duplex machines. 1A-4579 $\frac{7}{8}$ wire, 9 $\frac{1}{2}$ " long; ground connection—connected as for 1B-4579 on Simplex machines. 1A-4579 $\frac{3}{4}$ wire, 2 $\frac{3}{8}$ " long; ground connection—connected as for Simplex machines.
	1A-4579 $\frac{7}{8}$ & 1A-4579 $\frac{3}{4}$	1 each	
CD9	1-4599 $\frac{3}{8}$ Included in radio & television inter- ference suppressor.	1	Simplex & Duplex machines. Suppressor 1-4599 $\frac{3}{8}$ replaces three pin receptacle 31-25A No. 1. Ground wire on 1-4599 $\frac{3}{8}$ to nut 47 on left hand motor end plate.
GV1	2B-4525	1	Governor, centrifugal type.
JP1	31-25A, No. 1	1	Three pin line cord receptacle.
R1	1X92-6, 350 ohms	1	Resistor for 110V motor.
	1X92-1, 465 ohms	1	Resistor for 150V motor.
	1X92-7, 1200 ohms	1	Resistor for 220V motor.
	1X92-8, 1460 ohms	1	Resistor for 250V motor.
SW1	1X83-4	1	Microswitch.

CALCULATOR CASE CHART (Plate 23-1)

NOTE: Cases will be shipped in the color available when the cases were manufactured. If a different color is desired, it should be applied at the Branch.

MACHINE DESCRIPTION	CASE REQUIRED			
	6 Columns	10 Columns	13 Columns	14 Columns
REFERENCE A				
Duplex, with direct subtraction, detachable cord; with or without prorating feature. Dial openings for front and rear accumulators are in separate panels.		1-50667C Style 9; without prorate use $90\frac{1}{4}$ No. 14		
Duplex, with direct subtraction, detachable cord, radio interference suppressor on outside rear of case (U. S. Navy). Dial openings for front and rear accumulators are in separate panels.		11-50667C Style 9		
Duplex, with direct subtraction, non-detachable cord. Dial opening for front and rear accumulators are in separate panels. Has plastic case.		1Z-50667C Style 9 (replaces plastic case)		
REFERENCE C				
Duplex, with direct subtraction, radio interference suppressor on outside rear of case (U.S. Navy), detachable cord. Case has dial openings for front and rear accumulators.				1-50667C Style 13 No. 2
Duplex, with direct subtraction, with or without prorating feature, with detachable or non-detachable cord. Case has dial openings for front and rear accumulators.		1-50667E Style 12 No. 1		1-50667E Style 13 No. 1; without prorating feature use $90\frac{1}{4}$ No. 14; with non-detachable cord use $90\frac{1}{4}Z$ No. 20
Sterling, with fractions			1-50667E Style 12 No. 3	1-50667E Style 13 No. 3; see information with No. 1
Sterling, without fractions			1-50667½E Style 12 No. 3	
English, with fractions			1-50667E Style 12 No. 4	1-50667E Style 13 No. 4; see information with No. 1
English, without fractions			1-50667½E Style 12 No. 4	
REFERENCE Q				
Simplex, hand, high side plate		11-50167B Style 9 No. 1		11-50167B Style 13 No. 1
Sterling		11-50167B Style 9 No. 3		11-50167B Style 13 No. 3

SYMBOL NUMBERS CONTINUED ON NEXT PAGE