Abott

CLASSES 1, 2 and 6

MACHINE SPEEDS
M R C UNIT
STYLE 6714
GAS BILLING (METER READING)
BACK PLATE SLIDES, LATCHES AND KEYBOARD LINKS

SYMBOL LIST No. 105

For Use of Inspectors

Reprinted May, 1931

ALL PREVIOUS ISSUES VOID

In this book are shown parts and sections found in Classes 1, 2 and 6 machines in order named. Features will be found arranged in numerical order in each class to which they belong. Miscellaneous parts in back of book.

(Reprinted but not Revised)

Issued _____

To _____

Of _____

PROPERTY OF AND TO BE RETURNED TO

BURROUGHS ADDING MACHINE COMPANY

DETROIT, MICHIGAN

WHEN ordering parts or sections, give serial number of machine for which parts are required. When ordering parts for a "special" machine, it is necessary to give the style and number of machine on all such orders.

Parts which can not be put in machines by inspectors in the field have been indicated by a star (*). Such parts will not be supplied to service stations nor do they appear in the price list of parts.

This symbol book must be kept up to date. From time to time, gummed inserts showing new parts or changes in symbol numbers will be sent to all service stations. These will be numbered to correspond with book and page of symbol book for which they are intended.

Each inspector is held responsible for all lists issued to him.

When an inspector is transferred to another station upon written authority from the Home Office, he is to take all lists with him.

Specifications

0 to 9 inclusive, shafts.
10 to 29 inclusive, punched pieces.
30 to 49 inclusive, bushings, hubs, collars, etc.
50 to 64 inclusive, studs and pins.
65 to 69 inclusive, castings.
70 to 79 inclusive, wires and connections.
80 to 89 inclusive, springs.
90 to 99 inclusive, miscellaneous.

Letters "R" and "L" are used with symbol numbers to designate similar parts occupying right and left positions in machines. To avoid possible confusion as to which is right or left position, it is understood the operating lever is on the right side of the machine.

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STYLE 6714 MACHINE

FEATURE 79

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Machine Speeds

Strokes per minute

Below is a complete list of the rates of speed satisfactory to operate the various styles of machines as listed under their respective headings.

CLASS 1

	Hand Speed	Motor Speed
Style 7	120–125	116–120
Style 9	120–125	116–120
Style 11	110–115	106–110
Style 13	105–110	100–104
Style 15	95–100	90– 92
Style 17	93– 98	88– 90

CLASS 2

Style 9	115–120	114–118
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CLASS 3

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CLASS 4

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CLASS 6

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Style 13	100–105	96–100
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CLASS 7

	Hand Speed	Motor Speed
Class 7	.....	125–130

CLASS 8

Class 8	.....	135–140

CLASS 9

Class 9	.....	125–130

CLASS 11

Style 13	100–105	96–100
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CLASS 12

Style 13	100–105	96–100
Style 17	.....	84– 86

CLASS 13

Style 13	100–105	96–100
Style 17	.....	84– 86

CLASS 14

Style 13	100–105	96–100
Style 17	.....	84– 86

CLASS 15

Style 13	100–105	96–100
Style 17	.....	84– 86

CLASS 16

Style 13	100–105	96–100
Style 17	.....	84– 86

In a Style 17 machine, Classes 11 to 16 inclusive with adding capacity of 12 to 14 columns, the maximum speed should be 72.

Transfers

ACTUAL SIZE

ABCDEFGHIJKLMNOPQRSTUVWXYZ&'.

90 STYLE 1/8 (USED ON METAL)

ABCDEFGHIJKLMNOPQRSTUVWXYZ&'.

90 STYLE 1/4 (USED ON METAL)

ABCDEFGHIJKLMNOPQRSTUVWXYZ&'.

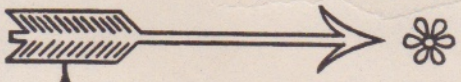
90 STYLE 3/8 (USED ON METAL)

ABCDEFGHIJKLMN
OPQRSTUVWXYZ&'.

90 STYLE 1/2 (USED ON METAL)

Burroughs

91A (USED ON METAL)



1097 1/2 (USED ON METAL)

BURROUGHS
MARCA DA FABRICA REGISTRADA

1098 "PORTUGUESE" (USED ON METAL)

BURROUGHS
M. de F.

1098 "SPANISH" (USED ON METAL)

Transfers

ACTUAL SIZE

Burroughs

THIS MACHINE PROTECTED BY U.S. AND FOREIGN PATENTS

↑

1098B (USED ON GLASS)

MADE IN U.S.A.

↑

1098 1/16 "FOREIGN" (USED ON METAL)

THIS MACHINE PROTECTED BY U.S. AND FOREIGN PATENTS

↑

1098 1/8 "FOREIGN" (USED ON METAL)

Burroughs Adding Machine Co.
Detroit, Michigan

↑

1098 3/16 "FOREIGN" (USED ON METAL)

Burroughs

↑

1098 5/16 "FOREIGN" (USED ON METAL)

Made in Canada

↑

1098 3/8 "CANADA" (USED ON METAL)

Transfers

ACTUAL SIZE

S.I. ADDIZIONATRICE BURROUGHS
SEDE A MILANO

1098 1/2A "ITALIAN" (USED ON GLASS)

Burroughs Machines, Limited,
Windsor, Ontario, Canada.

1098 5/8 "CANADA" (USED ON METAL)

Burroughs

1098 3/4 "FOREIGN" (USED ON GLASS)

SPLIT HERE

DIVI-SION AQUI

1390 (USED ON METAL)

1390 "SPANISH" (USED ON METAL)

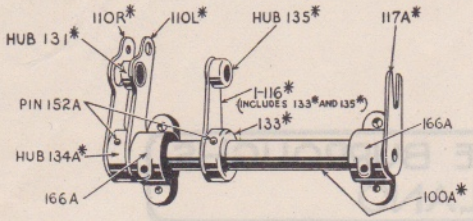
9 8 7 6 5 4 3 2 1

3992 (USED ON METAL)

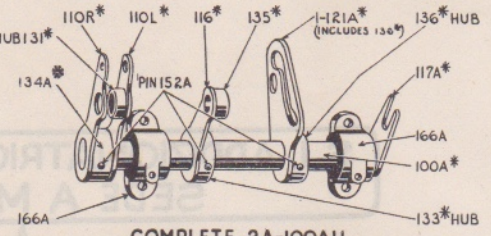
SPECIFY STYLE
- STYLE 9 "1 TO 9"
- STYLE 11 "1 TO 11"
- STYLE 13 "1 TO 13"
- STYLE 15 "1 TO 15"
- STYLE 17 "1 TO 17"

Class 1

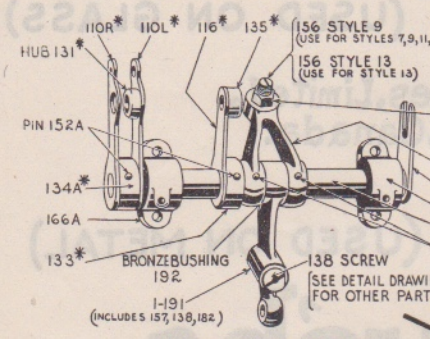
100 SECTION



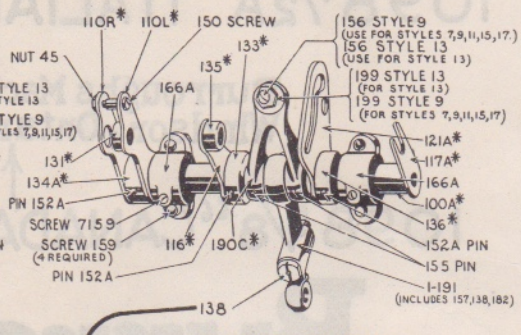
COMPLETE 2-100A
"HAND, 10 CONSTRUCTION" SPECIFY STYLE
(INCLUDES ALL PARTS ATTACHED)



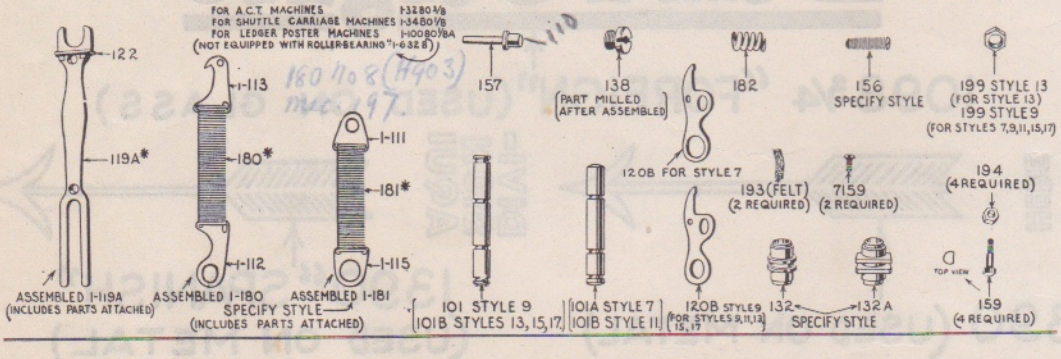
COMPLETE 2A-100AH
"HAND, 15 AND 18 CONSTRUCTION" SPECIFY STYLE
(INCLUDES ALL PARTS ATTACHED)

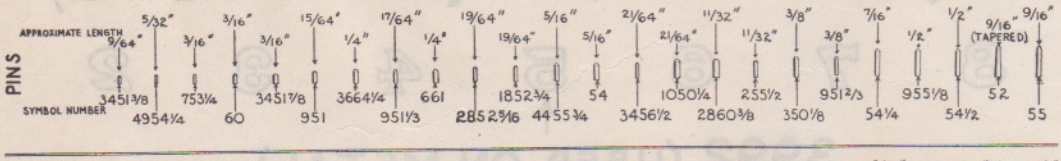


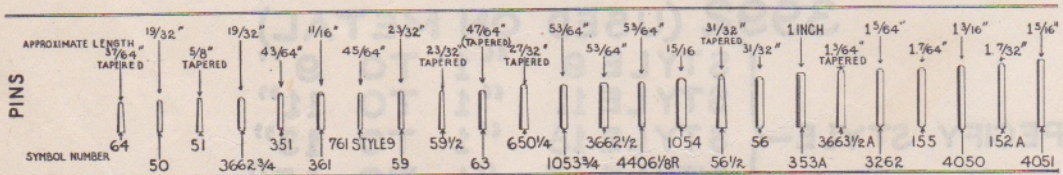
COMPLETE 2A-100AE
"ELECTRIC, 10 CONSTRUCTION" SPECIFY STYLE
(INCLUDES ALL PARTS ATTACHED)

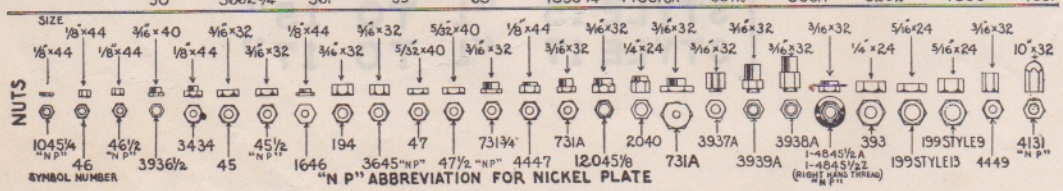


COMPLETE 2B-100AE
"ELECTRIC, 15 AND 18 CONSTRUCTION" SPECIFY STYLE
(INCLUDES ALL PARTS ATTACHED, EXCEPT— 45, 150 SCREW, 159 SCREWS(4) 715 9 SCREWS(2))









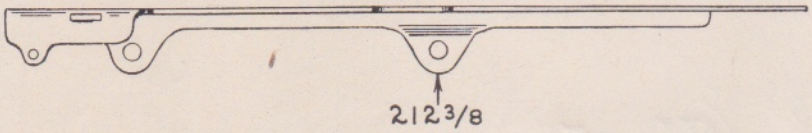
"N P" ABBREVIATION FOR NICKEL PLATE

(*) Parts not supplied

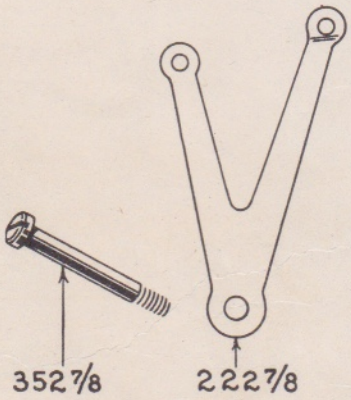
Class 1

Class 1

Brace for 204A and 206C



Brace for 200½ and 208½C



Class 1

200 SECTION

ALL PARTS NOT SYMBOLIZED WILL BE FOUND IN THE DETAIL DRAWINGS ON THE FOLLOWING PAGES

COMPLETE SECTION (WITHOUT KEYBOARD)
1A-201 1/2
SPECIFY STYLE AND MACHINE NUMBER

SHAFT 201 1/8 (SPECIFY STYLE) DISCARDED REQUIRED FOR REPAIRS
·236 1/16 (2 SPACE COLLARS ON 200 3/4 SHAFT)
SPRINGS 283A (9 REQUIRED)
SPRING 986
RETAINING RING 279
WIRE RING 277
SHAFT 1-200 3/4 (SPECIFY STYLE) (INCLUDES 277)
HUB 239*
227 1/4 BL*
STUD 257 1/2
ROLL 738
ASSEMBLED 1-227 1/4 BL*
1-200 5/8 SPECIFY STYLE (INCLUDES 279)
279
284 SPRINGS
201 1/2 SPECIFY STYLE
225 SPECIFY STYLE
470 WIRE
1-403 SHAFT (SPECIFY STYLE) (INCLUDES 470)
263
238*
227 3/4 L*
216 1/2 B
280 1/4
ASSEMBLED 1A-227 3/4 L
1B-227 1/8* SEE PAGE 9 FOR ASSEMBLY 1B-204A
258 (STUD)
258 1/4 (STUD)
210AR*
211AL*
211AR*
210AL*
238* 260 1/2 227CL* 253 1/8 261 1/8
ASSEMBLED 1A-227CL
216 1/8 SPACE WASHER ON 204A SEPARATES 1A-227CL FROM 1B-227 1/8*
216 7/8
209 (SPECIFY STYLE)
210 5/8 (DISCARDED, REQUIRED FOR REPAIRS)
B205
288 3/4
B205
205 SPECIFY STYLE
1-210AR
1-210AL
1A-210AR
SPECIFY† PITCH (INCLUDES 210AR*, 211AL*, 258, 258 1/4 OR 210AL*, AND 211AR*)

KEYBOARDS

	FOR STANDARD MACHINES	FOR "S & N" MACHINES
UPPER KEYBOARD WITH CLOTH	1-213B	1-213D
UPPER AND LOWER KEYBOARD ASSEMBLED (INCLUDES 237(6), 252(6), 260(1))	2Z-213B	2Z-213D
UPPER AND LOWER KEYBOARD ASSEMBLED WITH KEYS (INCLUDES KEYBUTTONS, 1-213B, 273, 1-423)	2-213B	2-213D

SPECIFY STYLE AND MACHINE NUMBER

1-213 Style No 3 and Style No 4.
The 1-213 Style No 3 is made like the 1-213B Style No 9 except the corners are sharp instead of round
Any slots not used can be plugged with either 221 1/4 or 221 3/4
The 1-213 Style No 4 is made like the 1-213B Style No 7 except the corners are sharp instead of round.
Any slots not used can be plugged with either 221 1/4 or 221 3/4

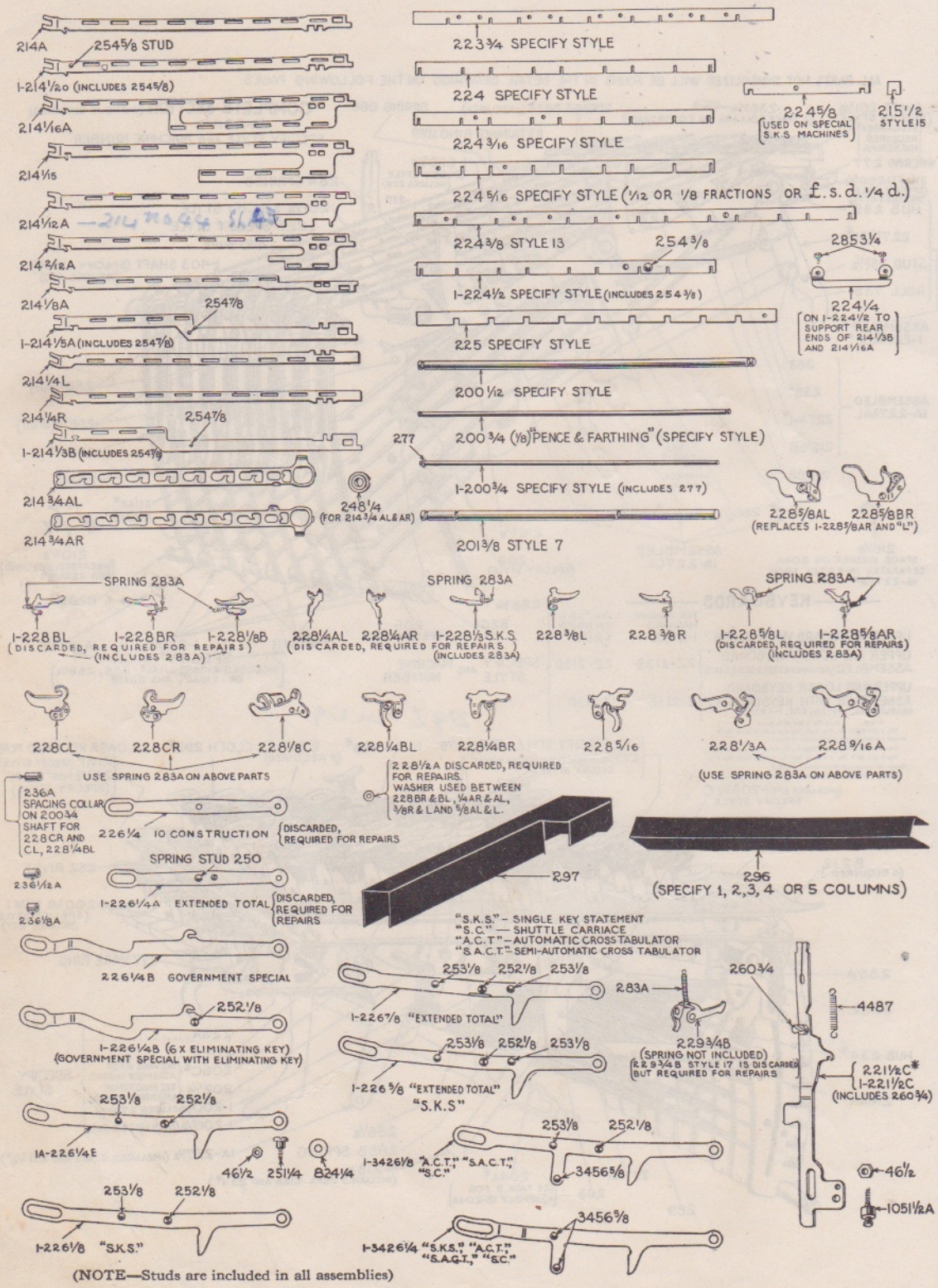
279 Z then 279

273 SPECIFY STYLE
273 1/4 (IF FRACTIONS, SPECIFY NUMBER) SPECIFY STYLE
RING 279
HUB 231 3/8*
237 (9 REQUIRED)
CLOTH 292*
LOWER KEYBOARD PLATE 212F (SPECIFY STYLE) 212 1/2 FOR "S & N" (SPECIFY STYLE)
(INCLUDES 279) 1-208 1/2 C SPECIFY STYLE
215A
B212 (4 REQUIRED)
252 RIVET
1-200 3/4 SHAFT (SPECIFY STYLE) (INCLUDES 277)
277 WIRE RING
255A
3282
HUB 234*
216AR
223A
201
206C* SEE PAGE 9 FOR ASSEMBLY 1A-206C
202 1/4 SEE PAGE 10 FOR ASSEMBLY 1 202 1/4
1-200 (INCLUDES 279)
1-200 1/2 (INCLUDES 279)
SPECIFY STYLE
256 1/2
285B SPRING
1A-227 1/2 (INCLUDES 256 1/2 AND 231 3/8*)
1A-218A (INCLUDES 255A 215A AND 234*)
227AR*
263
204A* SEE PAGE 9 FOR ASSEMBLY 1B-204A
289

(*) Parts not supplied

Class 1

200 SECTION

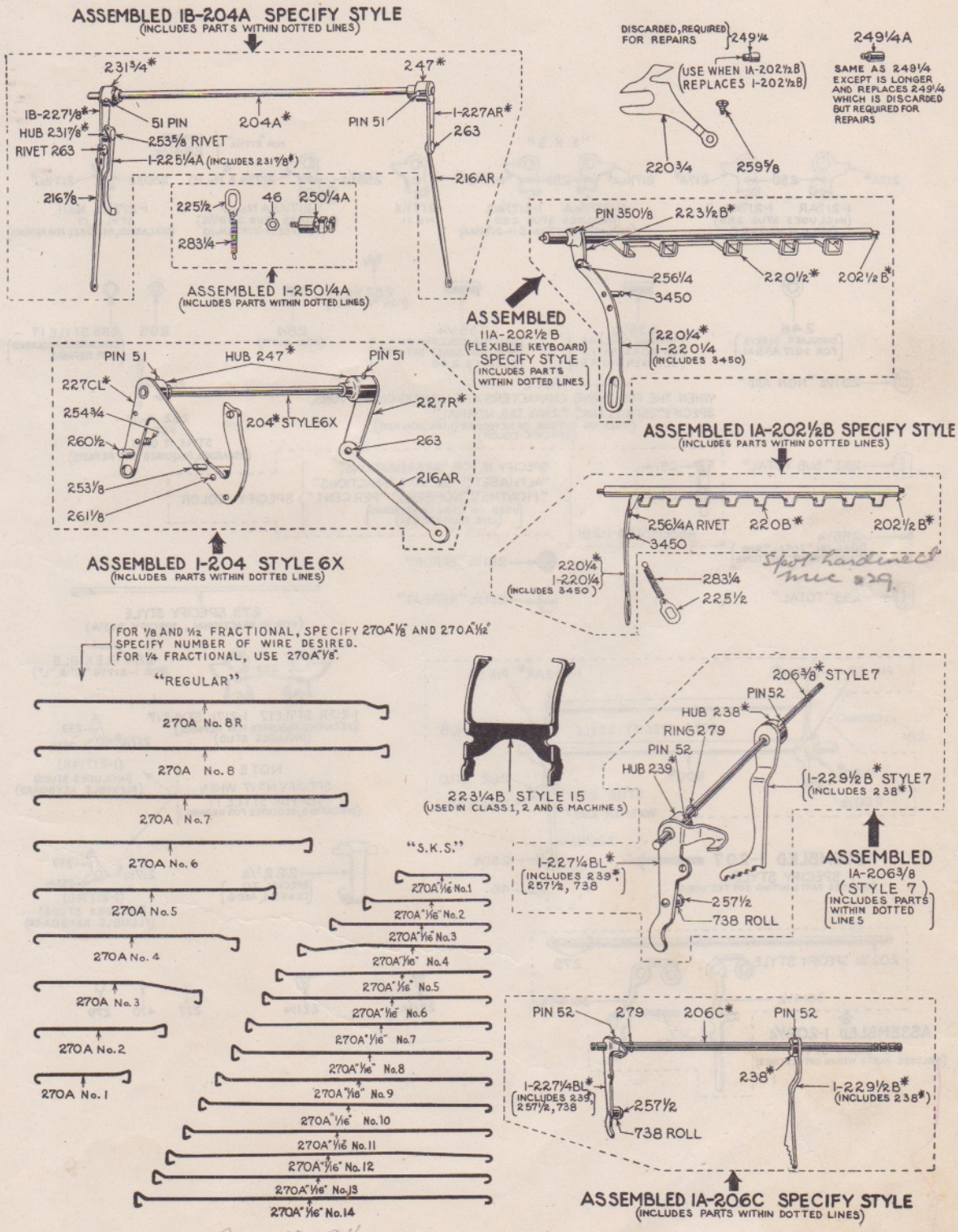


(NOTE—Studs are included in all assemblies)

(*) Parts not supplied

Class 1

200 SECTION



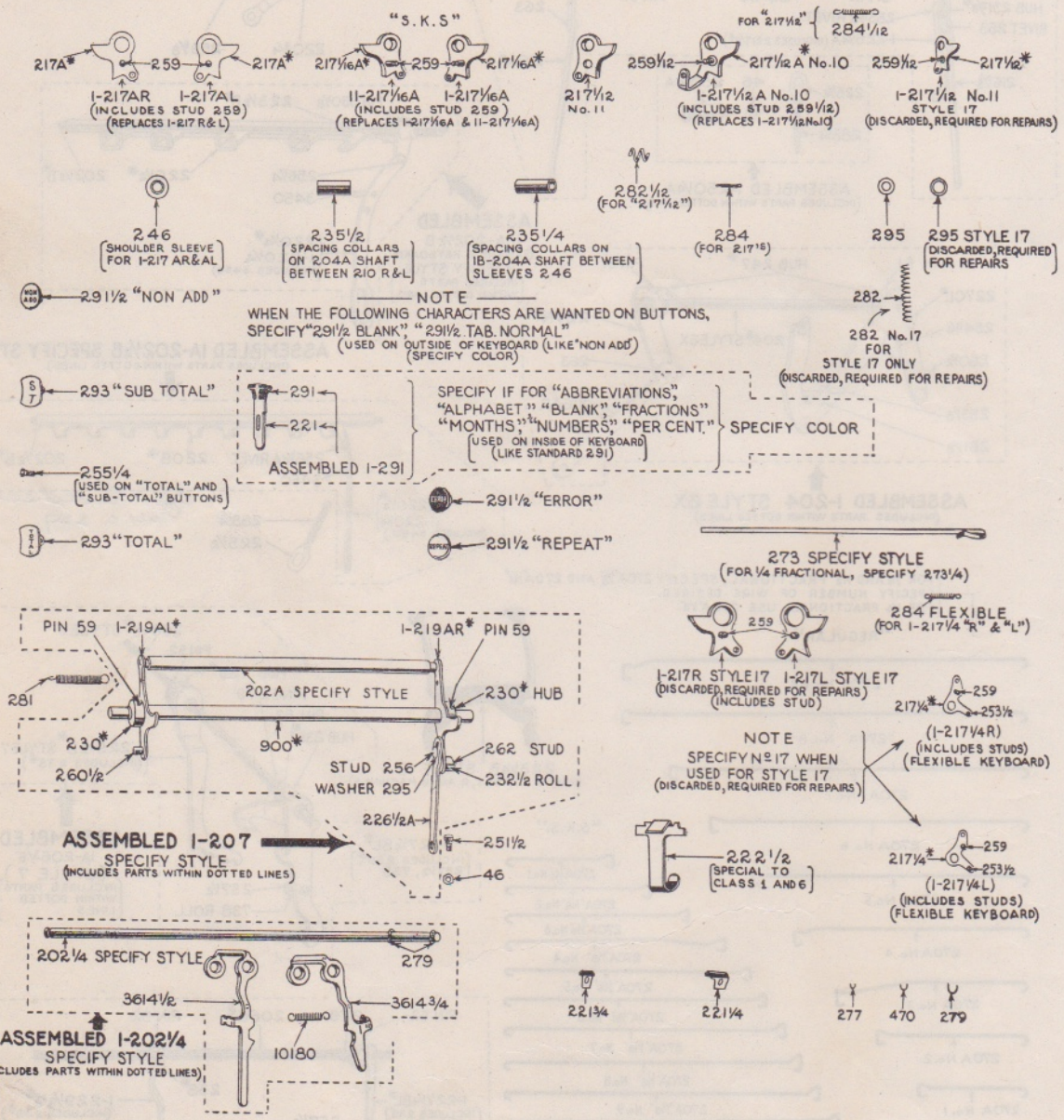
Pence 270A 1/2 1-9
270A 1/16 No13 — 10
Shellings 270A No's 1-8
Ken Shelling 270A No 20

SL
46

(*) Parts not supplied

Class 1

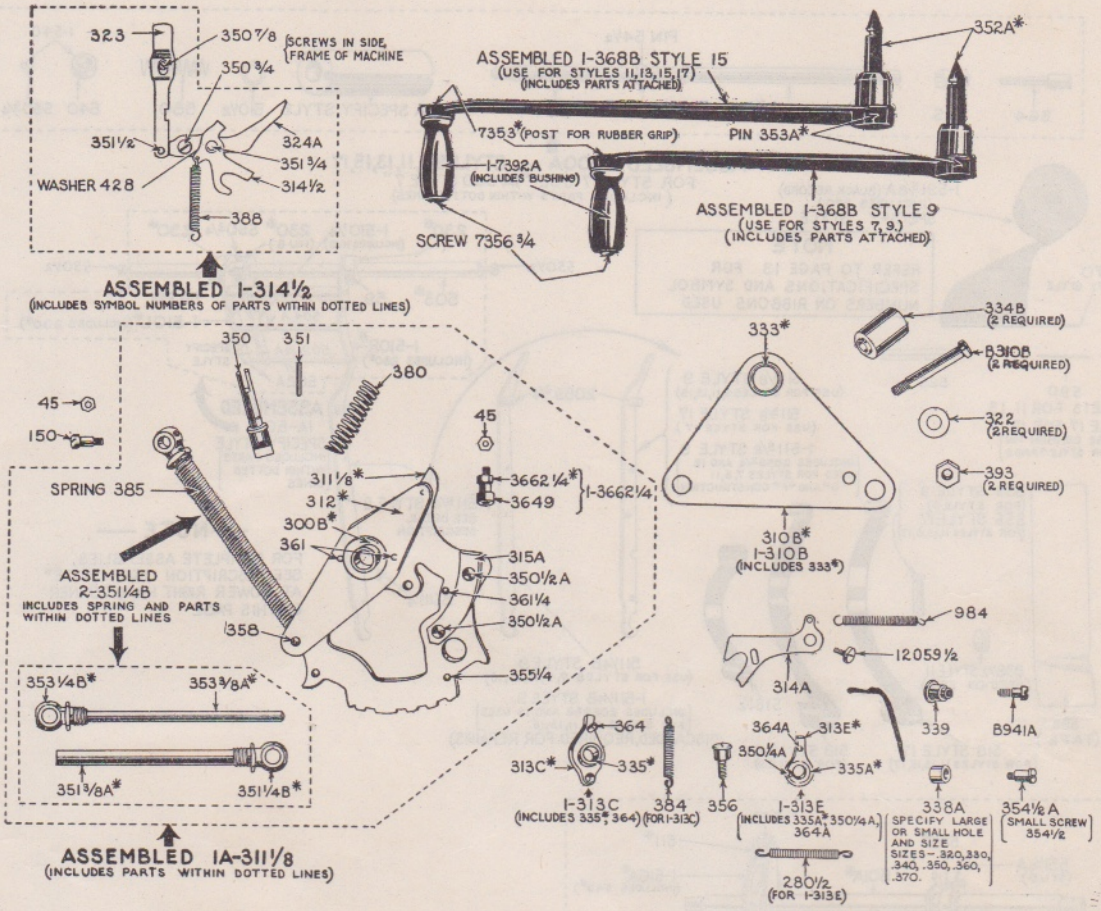
200 SECTION



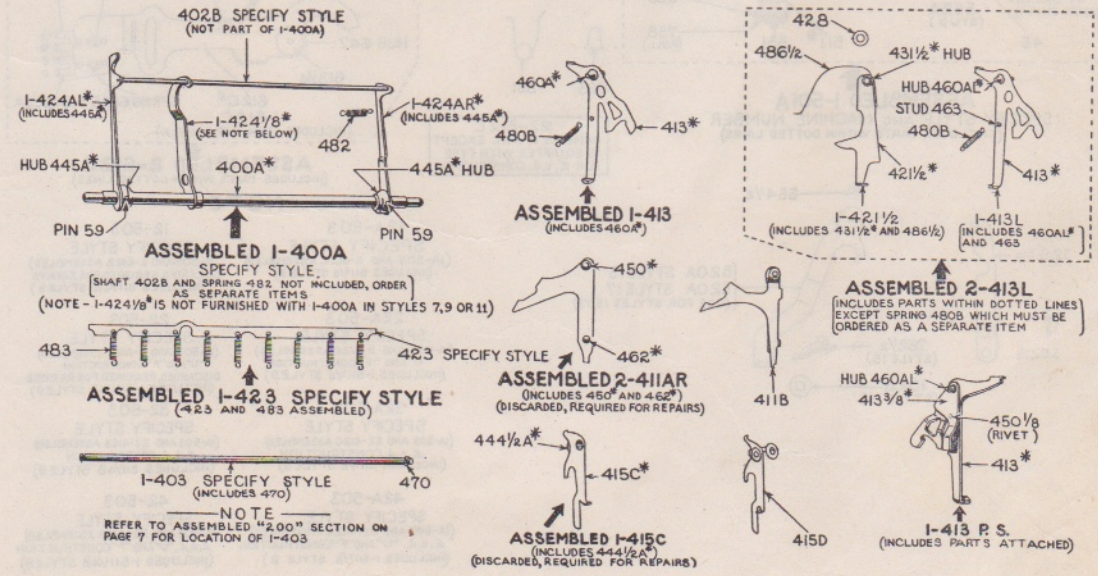
(*) Parts not supplied

Class 1

300 AND 400 SECTIONS



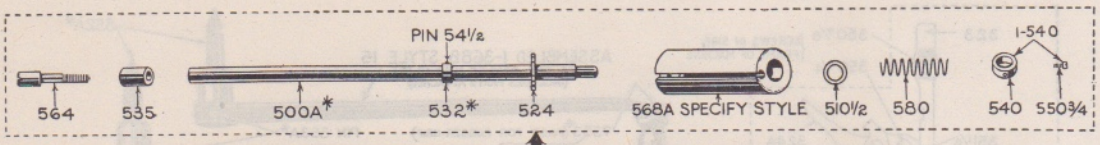
400 SECTION



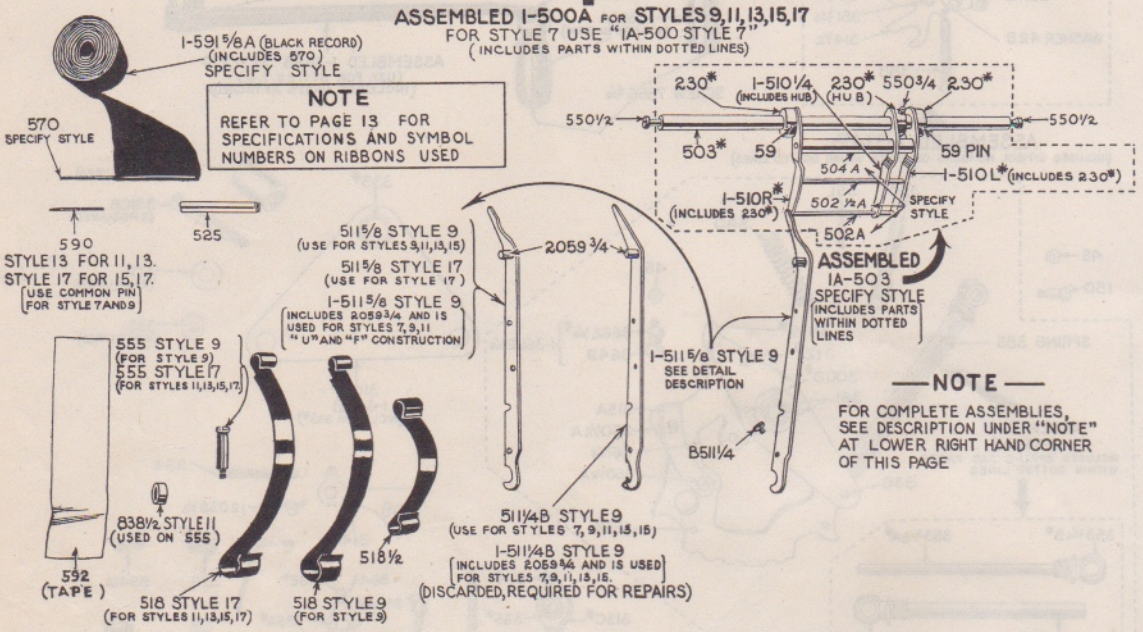
(*) Parts not supplied

Class 1

500 AND 600 SECTIONS

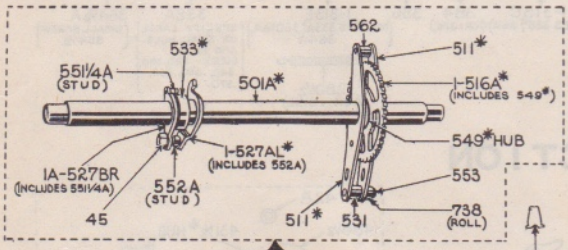


ASSEMBLED 1-500A FOR **STYLES 9,11,13,15,17**
FOR STYLE 7 USE "1A-500 STYLE 7"
(INCLUDES PARTS WITHIN DOTTED LINES)

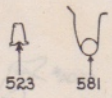


—NOTE—

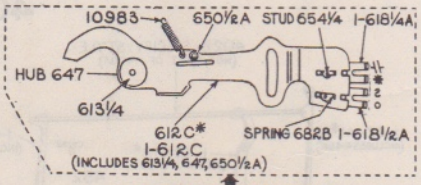
FOR COMPLETE ASSEMBLIES, SEE DESCRIPTION UNDER "NOTE" AT LOWER RIGHT HAND CORNER OF THIS PAGE



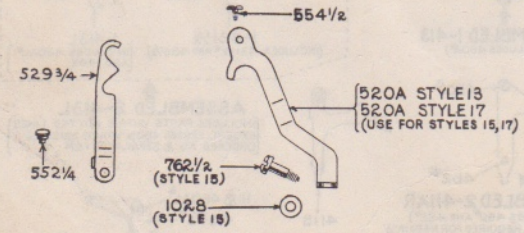
ASSEMBLED 1-501A
SPECIFY STYLE AND MACHINE NUMBER
(INCLUDES PARTS WITHIN DOTTED LINES)



22-612C
SAME AS 2-612C EXCEPT IS EQUIPPED WITH TYPE FOR £, s, d. CONSTRUCTION



ASSEMBLED 2-612C
(INCLUDES PARTS WITHIN DOTTED LINES)



NOTE

12A-503 SPECIFY STYLE (1A-503 AND 2-612C ASSEMBLED) (INCLUDES 511⅝ STYLE 9)	12-503 SPECIFY STYLE (1A-503 AND 2-612B ASSEMBLED) DISCARDED, REQUIRED FOR REPAIRS (INCLUDES 511¼B STYLE 9)
22A-503 SPECIFY STYLE (1A-503 AND 2-612C ASSEMBLED) "U" AND "F" CONSTRUCTION (INCLUDES 1-511⅝ STYLE 9)	22-503 SPECIFY STYLE (1A-503 AND 2-612B ASSEMBLED) "U" AND "F" CONSTRUCTION DISCARDED, REQUIRED FOR REPAIRS (INCLUDES 1-511¼B STYLE 9)
32A-503 SPECIFY STYLE (1A-503 AND 22-612C ASSEMBLED) £, s, d. CONSTRUCTION (INCLUDES 511⅝ STYLE 9)	32-503 SPECIFY STYLE (1A-503 AND 22-612B ASSEMBLED) £, s, d. CONSTRUCTION (INCLUDES 511¼B STYLE 9)
42A-503 SPECIFY STYLE (1A-503 AND 22-612C ASSEMBLED) £, s, d. "U" AND "F" CONSTRUCTION (INCLUDES 1-511⅝ STYLE 9)	42-503 SPECIFY STYLE (1A-503 AND 22-612B ASSEMBLED) £, s, d. "U" AND "F" CONSTRUCTION (INCLUDES 1-511¼B STYLE 9)

(*) Parts not supplied

Class 1

Rapid Ribbon Change Device

The parts illustrated in Fig. A are standard and used for all Styles 11 to 17 inclusive, construction A and E, in connection with new supports 726R and 1-726L. Insert No. 7 shows detailed description of supports 726R and 1-726L.

The parts illustrated in Fig. B can be installed only in machines Styles 15 and 17A construction, machines having castings 765C.

The parts illustrated in Fig. C can be installed in Styles 11 and 13A construction and also in Styles 11 to 17 inclusive, E construction, machines having castings 765C.

Note: Castings 765C are now obsolete and can not be supplied on parts orders. In the event that it is necessary to replace castings in machines which are equipped with the Rapid Ribbon Change Device, it will require the installing of all the standard parts shown in Fig. A. When installing the standard parts a $\frac{3}{16}$ inch hole must be drilled in the base for rod 571. This hole can be located with a center punch by marking from the lower part of support 1-726L a distance from bail 1-522$\frac{1}{8}$ to the upper part of support 1-726L and in line with the hole in bail 1-522$\frac{1}{8}$ facing the side of the machine.

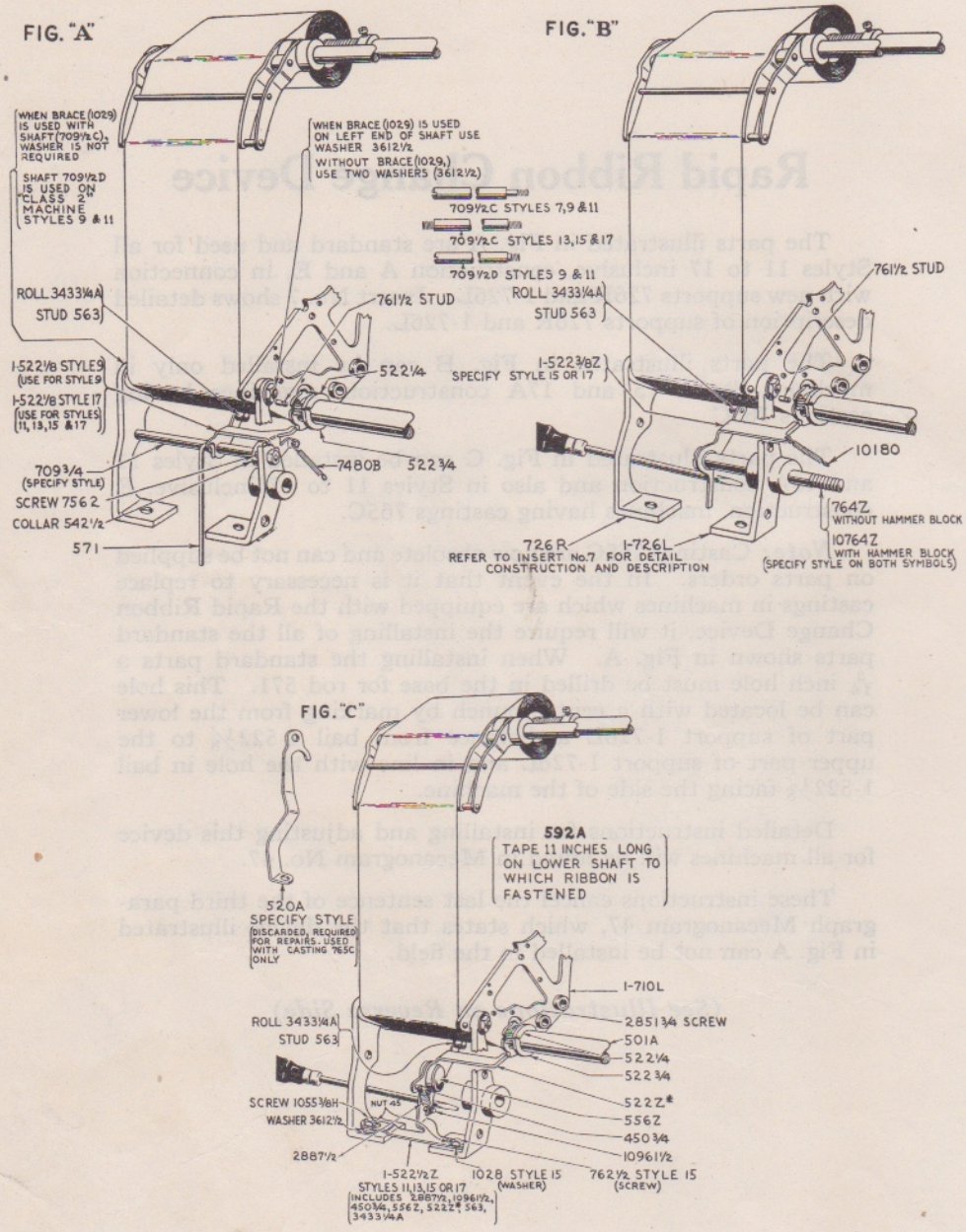
Detailed instructions for installing and adjusting this device for all machines will be found in Mecanogram No. 47.

These instructions cancel the last sentence of the third paragraph Mecanogram 47, which states that the device illustrated in Fig. A can not be installed in the field.

(See Illustrations on Reverse Side)

Class 1

Rapid Ribbon Change Device



(Read Description on Reverse Side)

Insert No. 23 for Symbol List 105
To be pasted on page 13. Issued November 14, 1928
(Insert No. 22 should be on page 56)

Ribbons and Their Symbols

Black record or red and black record ribbons are standard on all styles of machines. Purple record or red and purple record will be furnished if desired.

Listed below are standard ribbons for all class machines showing standard machine styles for all 2-593 ribbons. All 2-593 ribbons are two color, three stripe, red, black and red. The numbers in parenthesis (9-8-1) that form a part of the symbols 2-593, designate the number of banks red, black and red reading from left to right, including the character column. It is not necessary to specify the width of color stripes of any standard ribbon nor the color of 2-593 ribbons. Simply order as shown.

Classes 1-2-6 and 11 Through 16 Machines

	Machine Styles
2-591 Style 7 to 17 (Black Record)	
2–591 Style 17 TR (Black Record)	
2–591 Style 7 and 9 (Purple Record)	
2–593 Style 11 (3-8-1)	6 11 01-02-03-04
2-593 Style 13 (4-9-1)	6 13 01-02-03-04-07-08-12*
2-593 Style 13 (5-8-1)	6 13 05-06*
2-593 Style 13 (3-9-2)	6 13 10*
2-593 Style 13 (4-8-2)	6 13 12*
2-593 Style 17 (2-15-1)	6 17 17-18*
2-593 Style 17 (8-9-1)	6 17 01-02*
2-593 Style 17 (10-7-1)	6 17 24-26*
2-593 Style 17 (9-8-1)	6 17 03-04-05-06-07-08*
2-593 Style 17 (5-12-1)	6 17 85-86*
2-593 Style 17 (4-13-1)	6 17 83-84*
2-593 Style 17 (3-14-1)	6 17 09-10*
2-593 Style 17 TR (9-8-1)	6 17 14-16*
2-593 Style 17 LSD (3-14-1)	11 17 10½**
2-593 Style 17 LSD (9-8-1)	11 17 04½**
2-593 Style 17 TR (LSD) (9-8-1)	11 17 14½-16½**

"*" and corresponding styles Classes 11 through 16
"**" and corresponding styles Classes 12 and 13

Style 2 09 09 and Type 20 Machines

2-594A (Red and Black Record)
2-594½A (Black Record)

Classes 3-4-8 and 9 Machines

2-7590 (Black Record)
2-7590 (Purple Record)
2-7591 (Red and Black Record)
2-7591 (Red and Purple Record)

Class 7 Machines

V900XX (Black Record)
V901XX (Red and Black Record)
V901AXX (Red and Black Record) Non-Smudge

When ordering special ribbons, Parts Order Form No. 2228 should be made out, giving the customer's name and address. A "cipher" rubber stamp impression designating color separations as to number of columns red and black must be on the order.

If a customer wishes to use any other ribbon than those listed above, he should be informed that the ribbon is not carried in stock, but that he may place an order with us sufficient to meet his requirements, with the understanding that the Company will have the ribbons delivered and billed to the user so that he can carry his own stock of special ribbons.

Type Sectors Symbol Change

NOTE

ALL SECTORS "611" ARE FURNISHED WITH TYPE, SPRINGS AND ADDING RACK "610" ASSEMBLED.
ALWAYS SPECIFY "PITCH" OF SECTOR AND "BEND NUMBER".
SPECIFY CHARACTERS WANTED ON TYPE, LOCATION AND THEIR HEIGHT.
REFER TO PAGE 15 FOR INFORMATION REGARDING LOCATION "BEND NUMBER" OF SECTORS "611"
REFER TO "SPECIAL TYPE ORDER FORM" FOR INFORMATION REGARDING HEIGHT, LOCATION AND PITCH OF TYPE. ALSO "PITCH" OF SECTORS "611"

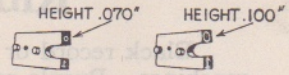


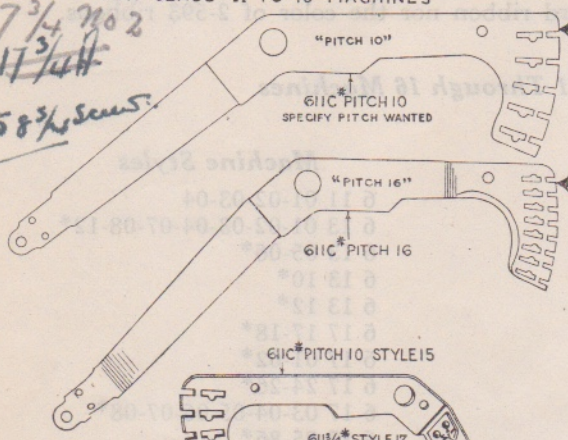
ILLUSTRATION SHOWS DIFFERENCE IN HEIGHT

2Z-611C

CONSISTS OF COMPLETE "611," "610," TYPE, SPRINGS AND STUDS. — SPECIFY "HEIGHT, LOCATION AND CHARACTER" OF TYPE, "PITCH" AND "BEND" OF SECTOR.

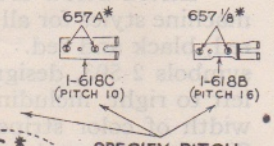
NOTE-USE 12Z-611C IN PLACE OF 2Z-611C FOR CLASS 11 TO 16 MACHINES

617 3/4 no 2
617 3/4 H
445 8 3/4 Screws



ASSEMBLED 1-611C *
PITCH 10
(INCLUDES TYPE)
SPECIFY CHARACTER

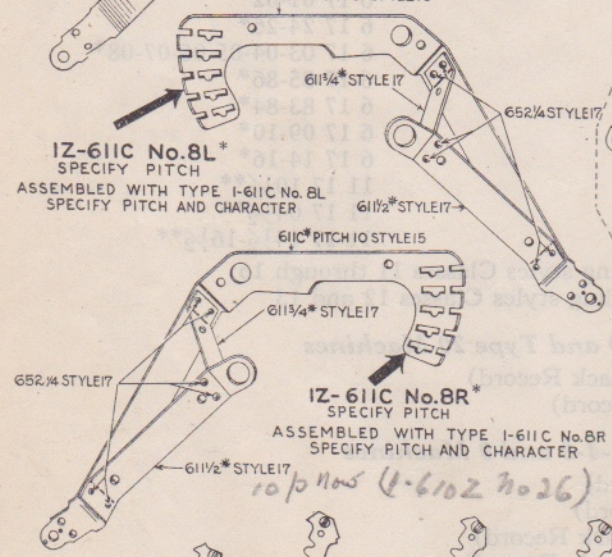
ASSEMBLED 1-611C *
PITCH 16
(INCLUDES TYPE)
SPECIFY CHARACTER



SPECIFY PITCH, HEIGHT AND LOCATION

654 1/8 Z REPAIRS

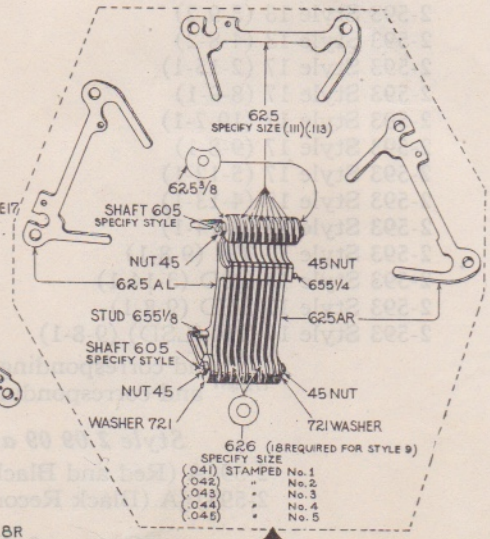
682B 654 1/8 654 1/4



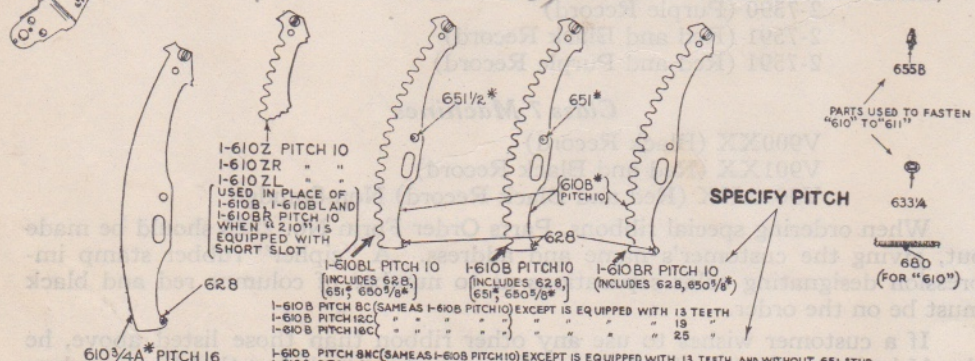
1Z-611C No.8L*
SPECIFY PITCH
ASSEMBLED WITH TYPE 1-611C No. 8L
SPECIFY PITCH AND CHARACTER

1Z-611C No.8R*
SPECIFY PITCH
ASSEMBLED WITH TYPE 1-611C No.8R
SPECIFY PITCH AND CHARACTER

10/p Now (1-610Z no 26)



ASSEMBLED 1-605
SPECIFY STYLE
(INCLUDES PARTS WITHIN DOTTED LINES)



1-610B PITCH 8C (SAME AS 1-610B PITCH 10) EXCEPT IS EQUIPPED WITH 13 TEETH
1-610B PITCH 12C " " " " " " " " 19 "
1-610B PITCH 16C " " " " " " " " 25 "

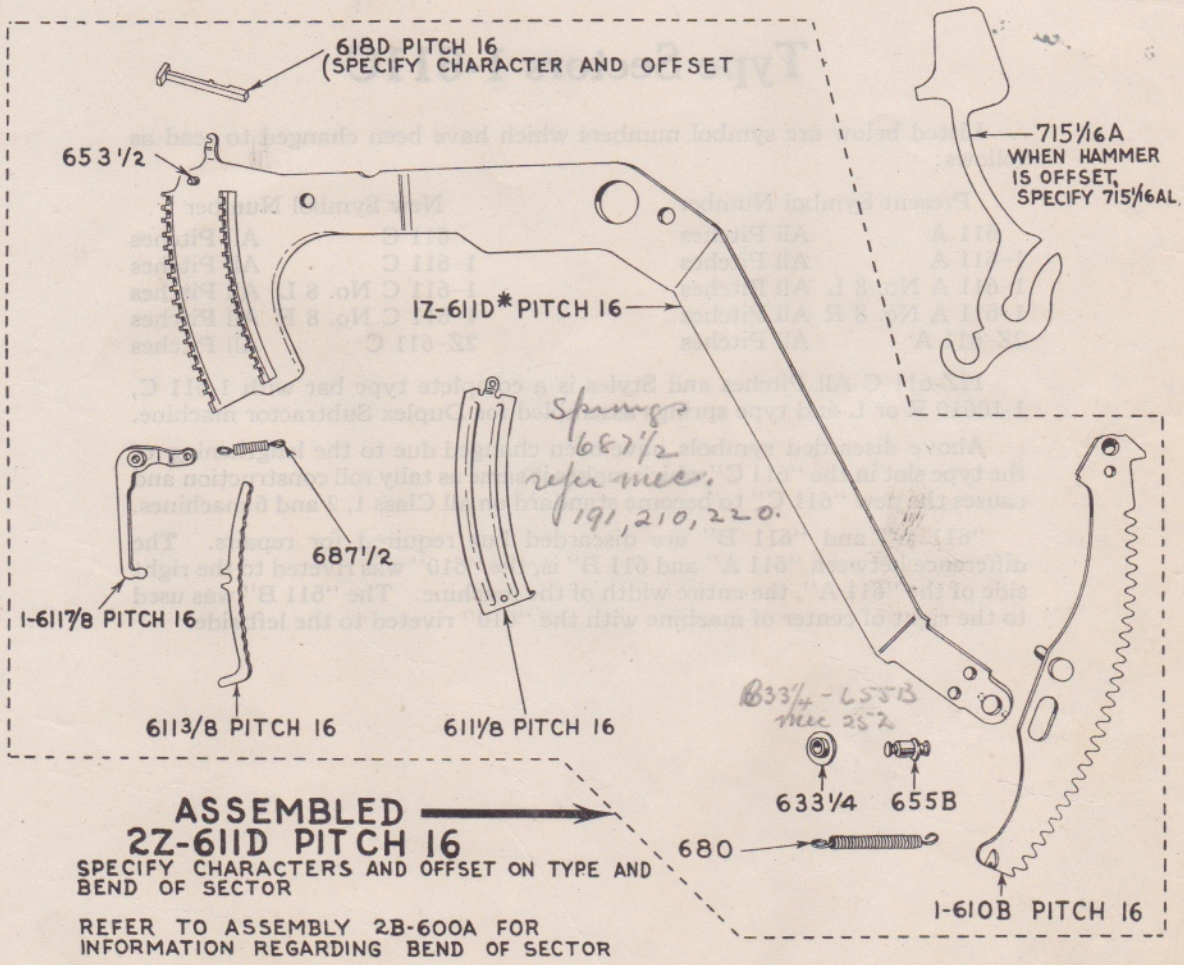
1-610B PITCH 8NC (SAME AS 1-610B PITCH 10) EXCEPT IS EQUIPPED WITH 13 TEETH AND WITHOUT 651 STUD
1-610B PITCH 12NC " " " " " " " " 16 " " " " "
1-610B PITCH 16NC " " " " " " " " 25 " " " " "
1-610 1/2A PITCH 16 (SAME AS 1-610B PITCH 16) EXCEPT HAS SMALL EXTENSION AT TOP AND IS EQUIPPED WITH 25 TEETH

(*) Parts not supplied

Class 1

For Replacement purposes only new style available Letter HG-RS 28-3-40

One Piece Pitch 16 Type Bar



Class 1

Type Sectors 1-611C

Listed below are symbol numbers which have been changed to read as follows:

Present Symbol Number		New Symbol Number	
611 A	All Pitches	611 C	All Pitches
1–611 A	All Pitches	1–611 C	All Pitches
1–611 A No. 8 L	All Pitches	1–611 C No. 8 L	All Pitches
1–611 A No. 8 R	All Pitches	1–611 C No. 8 R	All Pitches
2Z–611 A	All Pitches	2Z–611 C	All Pitches

12Z-611 C All Pitches and Styles is a complete type bar with 1-611 C, 1-16610 R or L and type springs assembled for Duplex Subtractor machine.

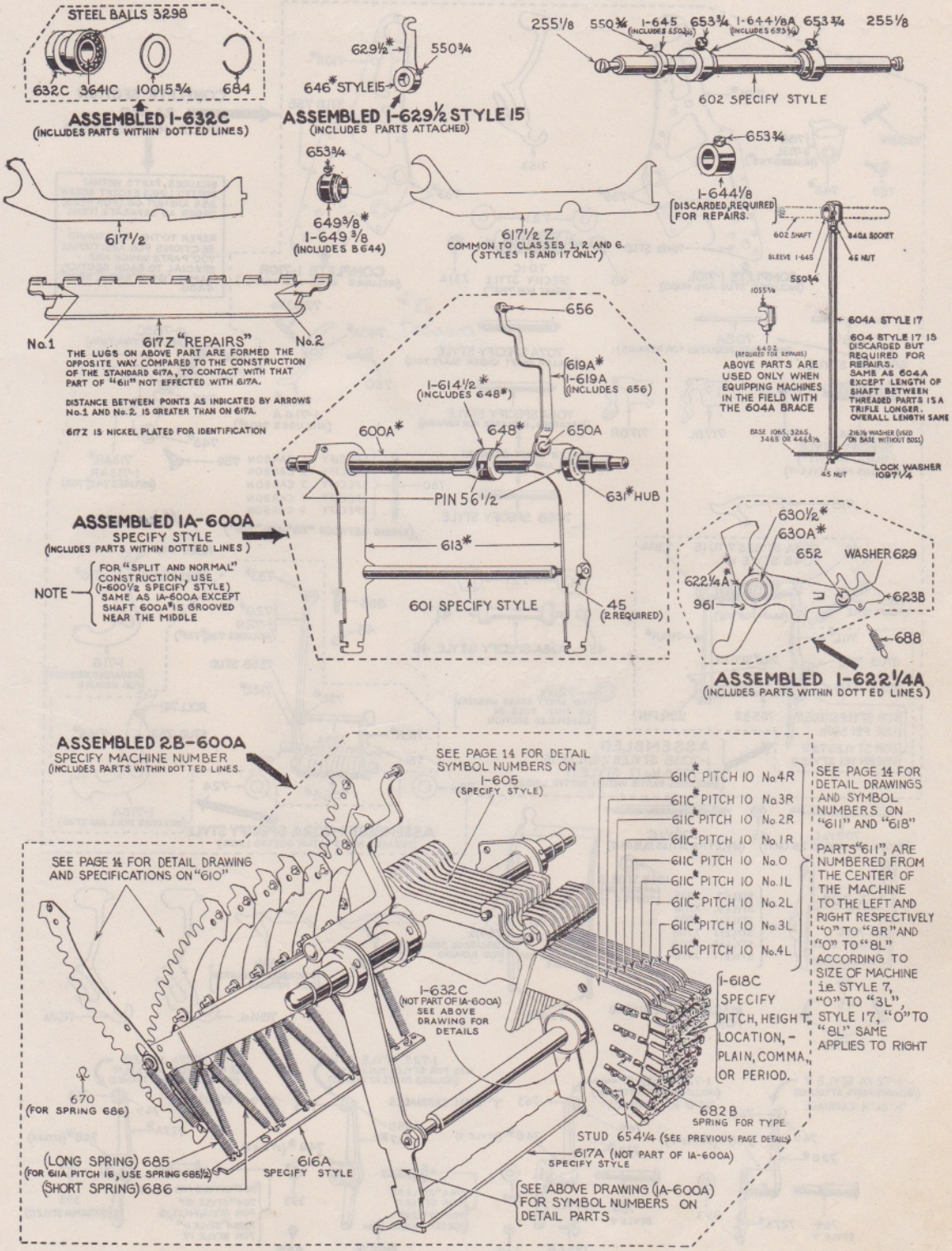
Above discarded symbols have been changed due to the lengthening of the type slot in the "611 C" which makes it same as tally roll construction and causes the new "611 C" to become standard on all Class 1, 2 and 6 machines.

"611 A" and "611 B" are discarded but required for repairs. The difference between "611 A" and 611 B" is, the "610" was riveted to the right side of the "611 A", the entire width of the machine. The "611 B" was used to the right of center of machine with the "610" riveted to the left side.

(*) **Parts not supplied**

Class 1

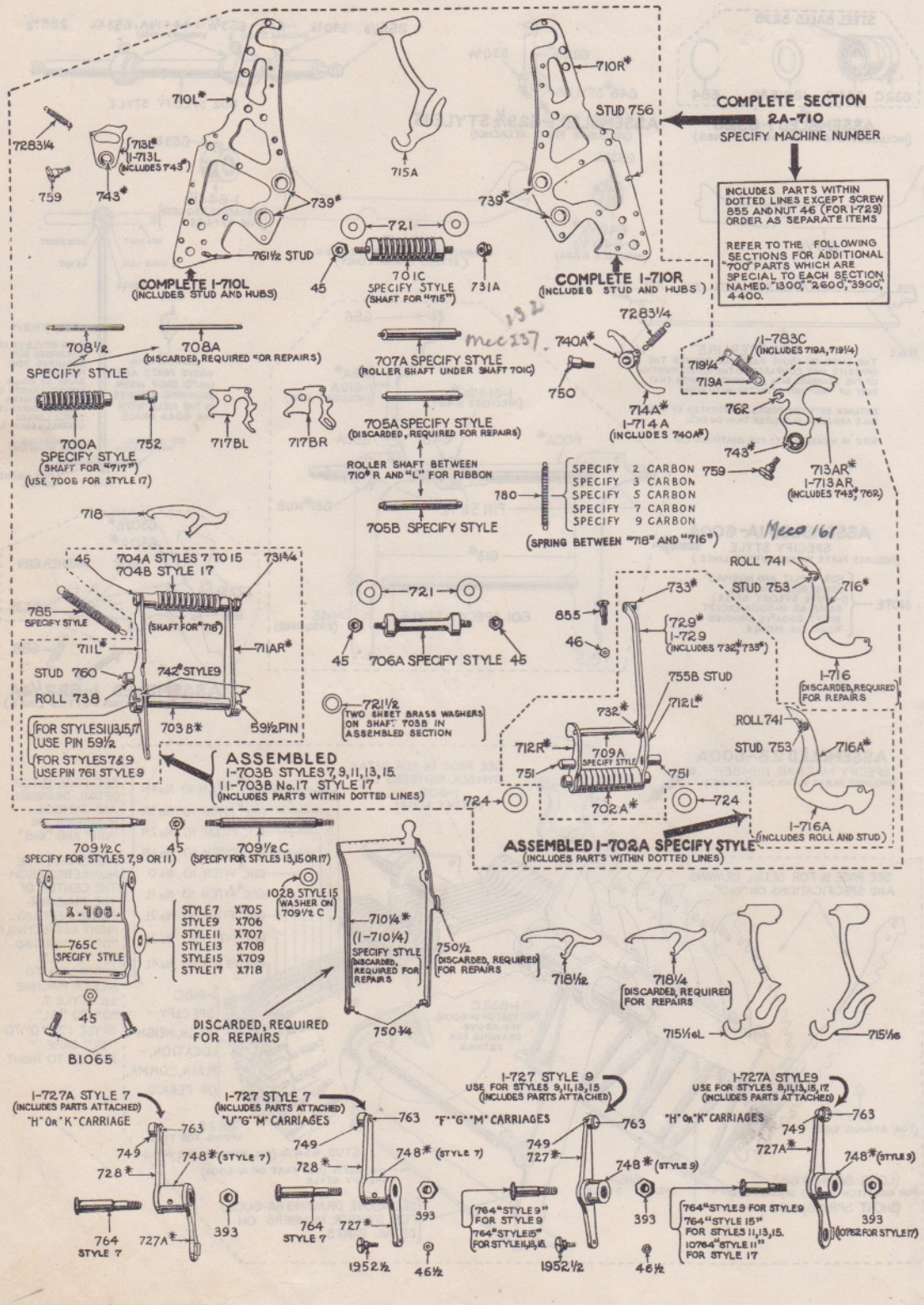
600 SECTION



(*) Parts not supplied

Class 1

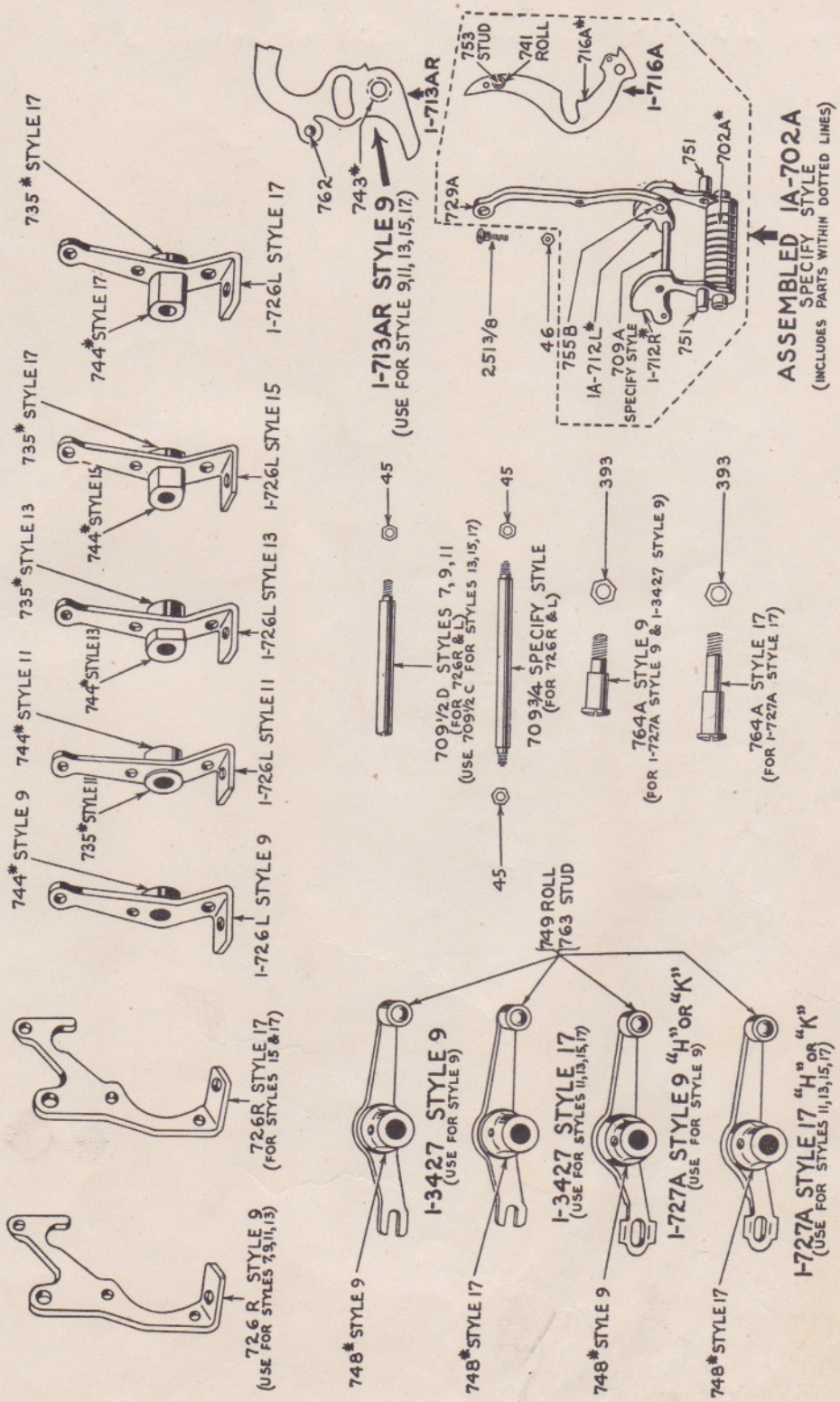
700 SECTION



(*) Parts not supplied

Class 1

NEW 700 SECTION PARTS



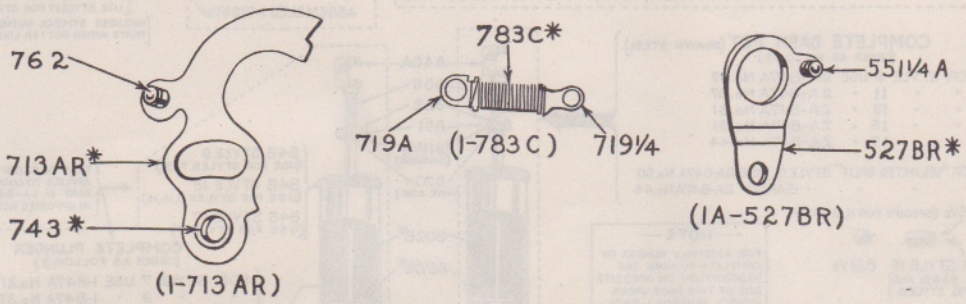
(*) Parts not supplied

Class 1

Class 1

700 SECTION

1-783Z Spring for Repairs



Instructions

These parts should be installed in all Class 1 and 2 machines that are equipped with the old 527AR (without stud 551¼A) whenever any attention is given. Special attention is unnecessary.

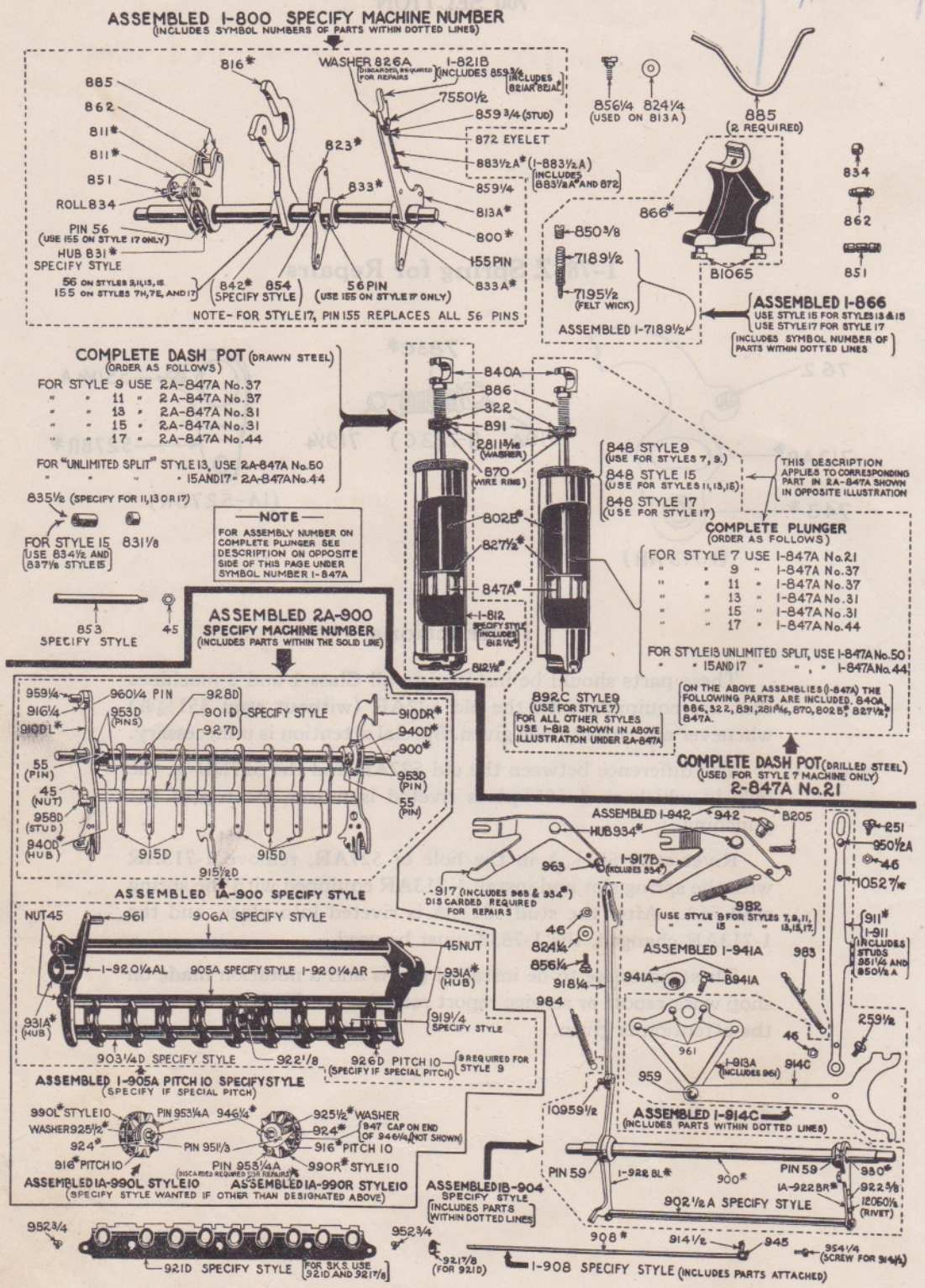
The difference between the old 527AR and the 527BR is, the hole in which stud 551¼A is riveted is nearer the top of the punching.

Rivet stud 551¼A in the hole of 527AR, remove 1-713AR with the spring slot and install 1-713AR equipped with the spring stud 762. After the stud 551¼A is riveted into place, and the 1-713AR changed, the 1-783Z must be used.

These parts are to be installed gratis and a notation made on shop work report or service report referring to this notation when the attention is given.

Class 1

800 AND 900 SECTIONS

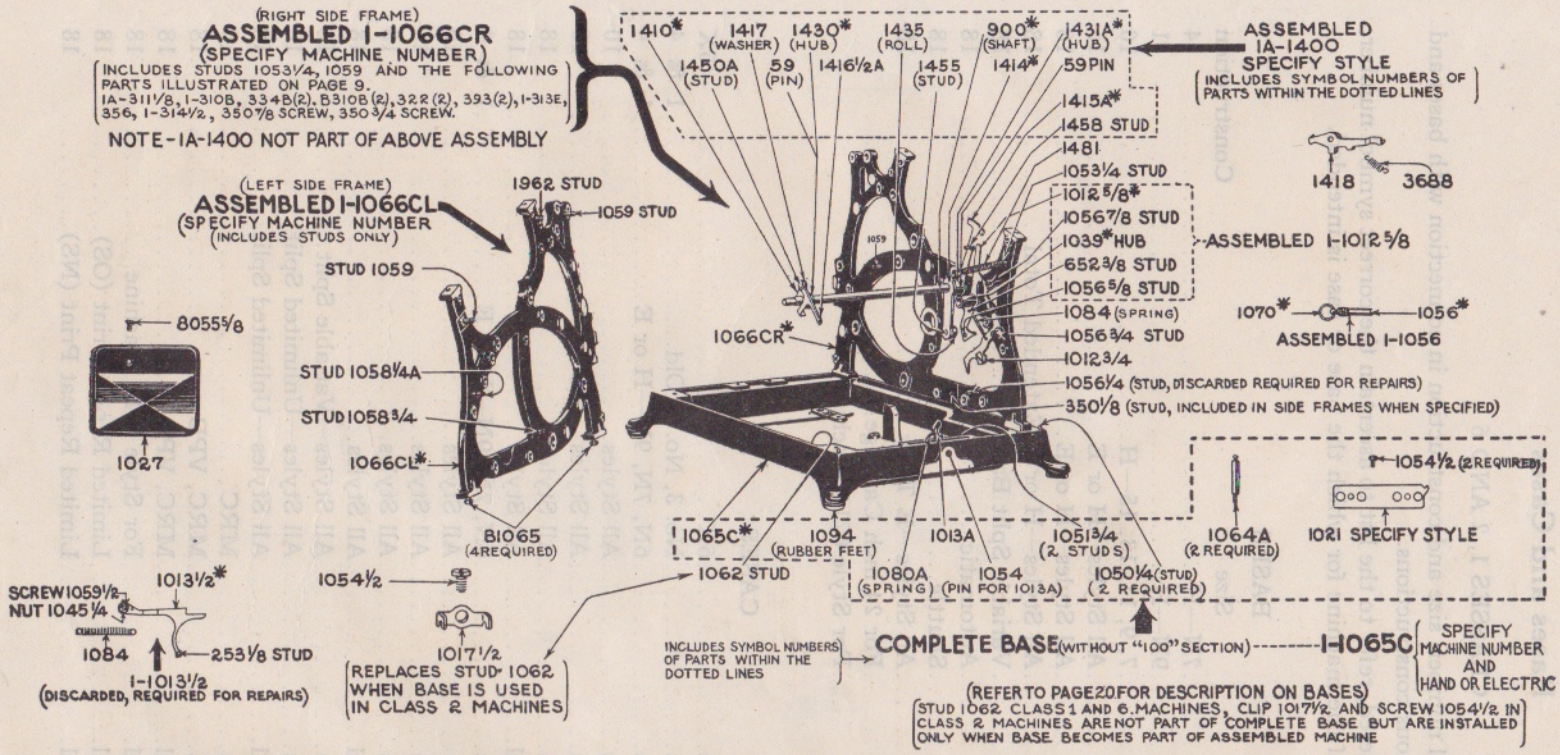


Shield 921¼

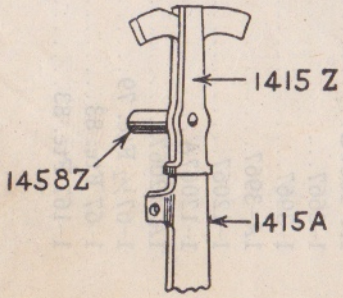
The manufacture of the old square corner shield Symbol No. 921¼ has been discontinued, therefore the part is obsolete. In its place can be used shield, Symbol No. 921D.

When 921D is used in place of 921¼ it will be necessary to use screw 952¾.

(*) **Parts not supplied**



1415Z Repairs for Lock Down Total



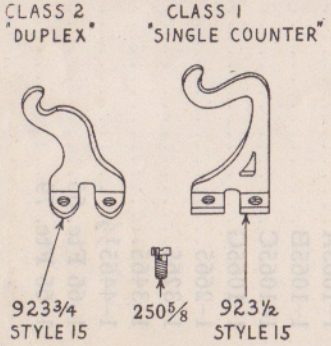
INSTRUCTIONS

The 1415Z shown in the illustration is to be installed on the 1415A in all lock down total machines where needed. The 1415Z is case hardened to overcome any possible chance of the 1415A wearing at point of contact with 1418.

To install 1415Z remove stud 1458, place 1415Z on 1415A, then install stud 1458Z and rivet it to 1415Z.

A supply of new parts (1458Z and 1415Z) should be ordered at once.

These parts are to be installed gratis and a notation made on shop repair or inspector's report referring to this notation when the attention is given. Special attention is unnecessary.



In the illustration is shown two parts known as supports for the 900 Section.

These parts can be used only in machines with the base drilled and tapped to receive screw 250⅝, which secures the support to the base of the machine.

(*) Parts not supplied

Class 1

Bases and Cases

CLASSES 1, 2 AND 6

Listed below is the symbol number, size and construction in connection with bases and cases used on machines of various constructions.

When a base or case is ordered, refer to the list to ascertain the correct symbol number, also the correct construction of the machine for which the base or case is intended.

BASES

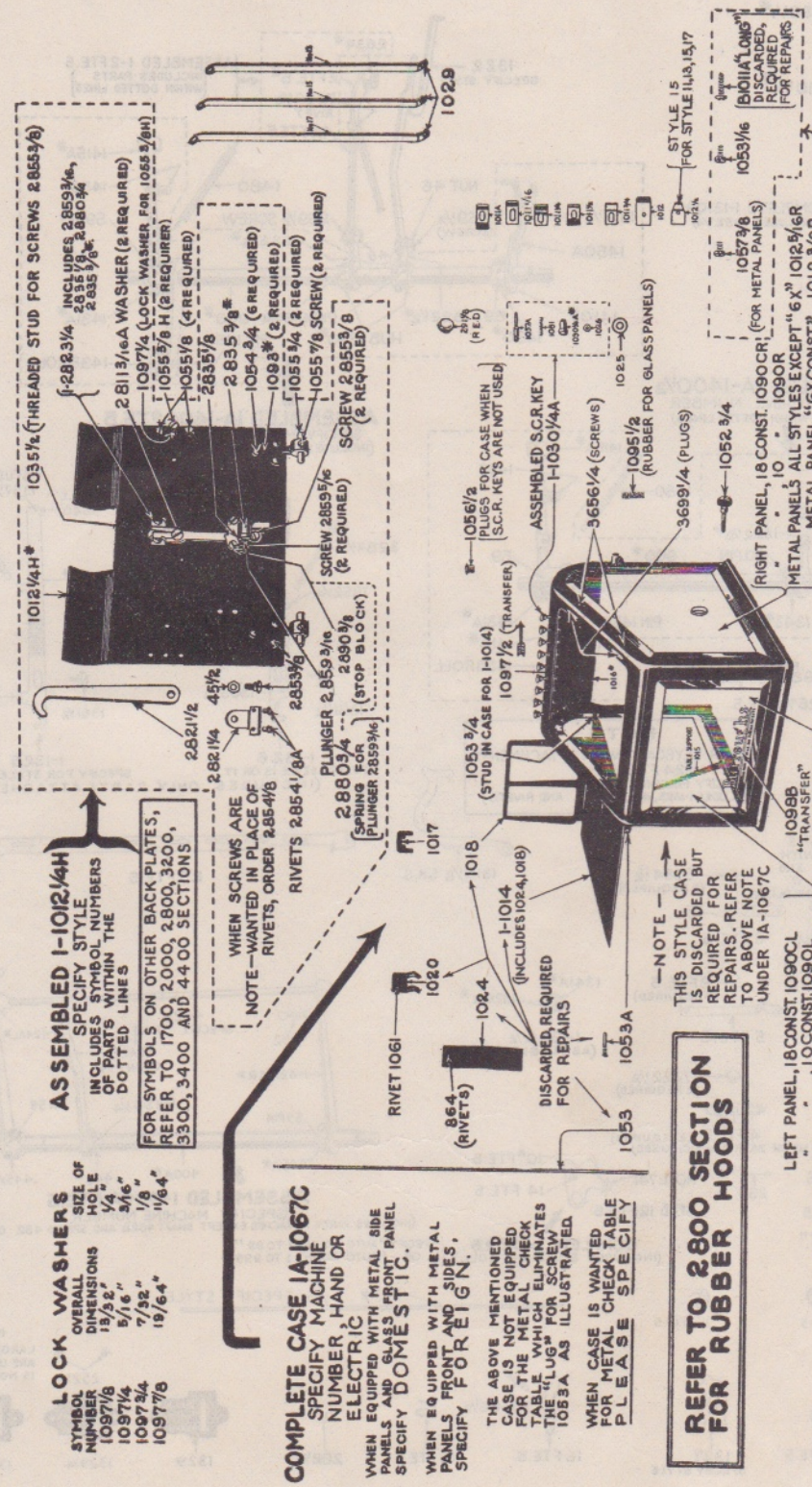
Base	Size	Construction
1–1065A	7N—H	4
1–1065A	9N—H	1
1–1065A	7, 9, 11, 13, 15—H	10
1–1065B	All Styles—H or E	15
1–1065C	All Styles—H or E	18
1–1065G	All Styles—H or E Extended Total	18
1–2665	Variable Split Base	18
1–3265	Automatic	18
1–3465	Shuttle	18
1–4465½	All Styles—E Tally Roll	18
1–66 Fte. 66	For 24 inch Carriage	
1–65 Fte. 79	For Style 6714 Machine	

CASES

1–1067	Glass	6X	6X
1–1067	Glass	No. 3, No. 4, Old	1 & 4
1–1067	Glass	6N, 7N, 9N—H or E	1 & 4
1–1067A	Glass	All Styles	10
1–1067B	Glass	All Styles	15
1–1067C	Glass	All Styles	18
1A–1067C	Metal	All Styles	18
1–1667	Glass	6N, 7N, 9N—H or E	1 & 4
1–1667A	Glass	All Styles	10
1–1667B	Glass	All Styles	15
1–1667C	Glass	All Styles	18
1A–1667C	Metal	All Styles	18
1–2667	Glass	All Styles—Variable Split	18
1–3967	Glass	All Styles—Unlimited Split	18
1A–3967	Metal	All Styles—Unlimited Split	18
1–12067	Glass	MRC	18
1–12067A	Glass	MRC, VPB	18
1A–12067A	Metal	MRC, VPB	18
1–67½ Fte. 79	Metal	For Style 6714 Machine	18
1–67 Fte. 83	Metal	Limited Repeat Print (OS)	18
1–167 Fte. 83	Metal	Limited Repeat Print (NS)	18

Class 1

1000 SECTION

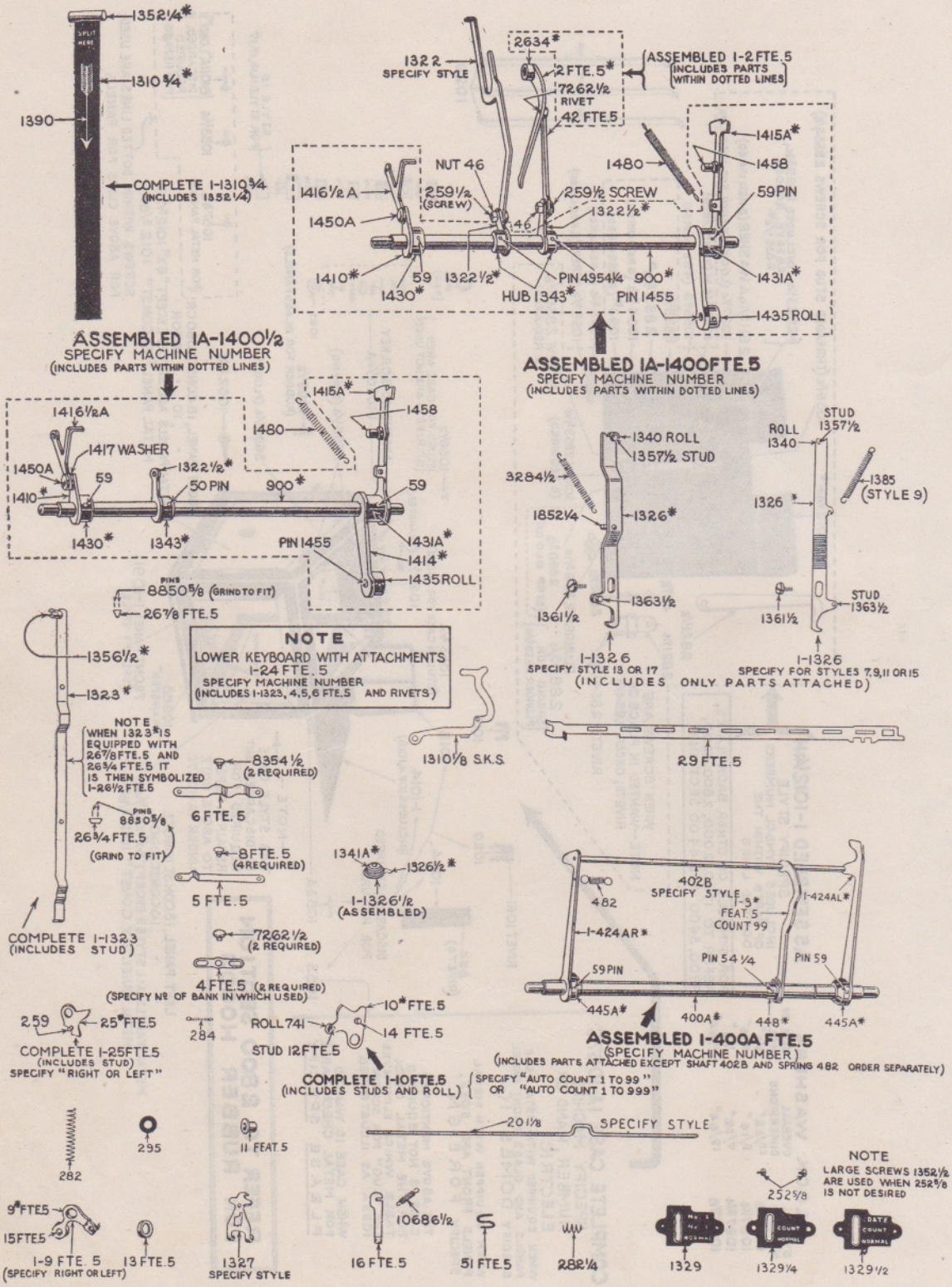


(*) Parts not supplied

Class 1

1300 SECTION AND FEATURE 5

Date, Count and Normal Mechanism

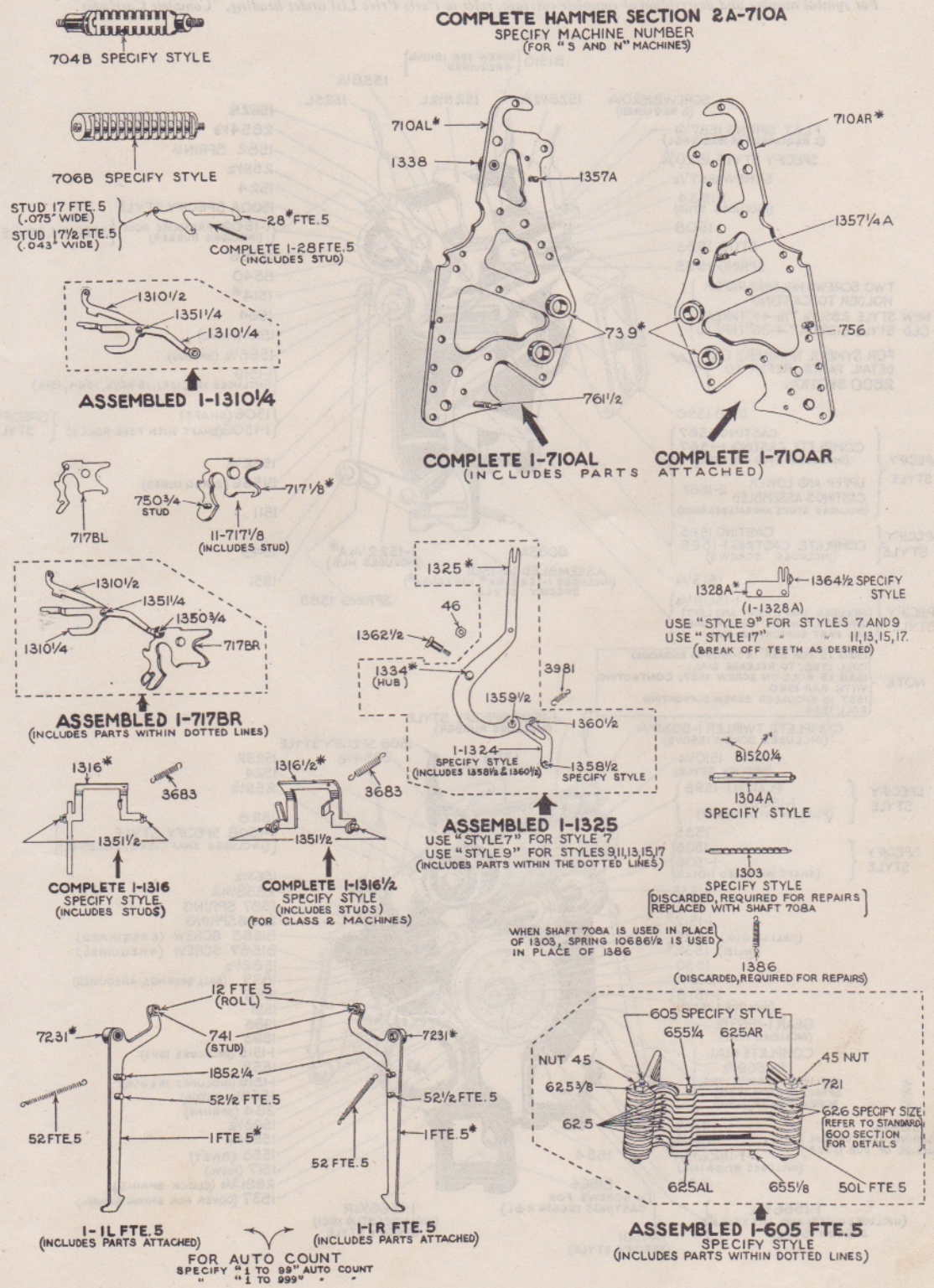


(*) Parts not supplied

Class 1

1300 SECTION AND FEATURE 5

Date, Count and Normal Mechanism

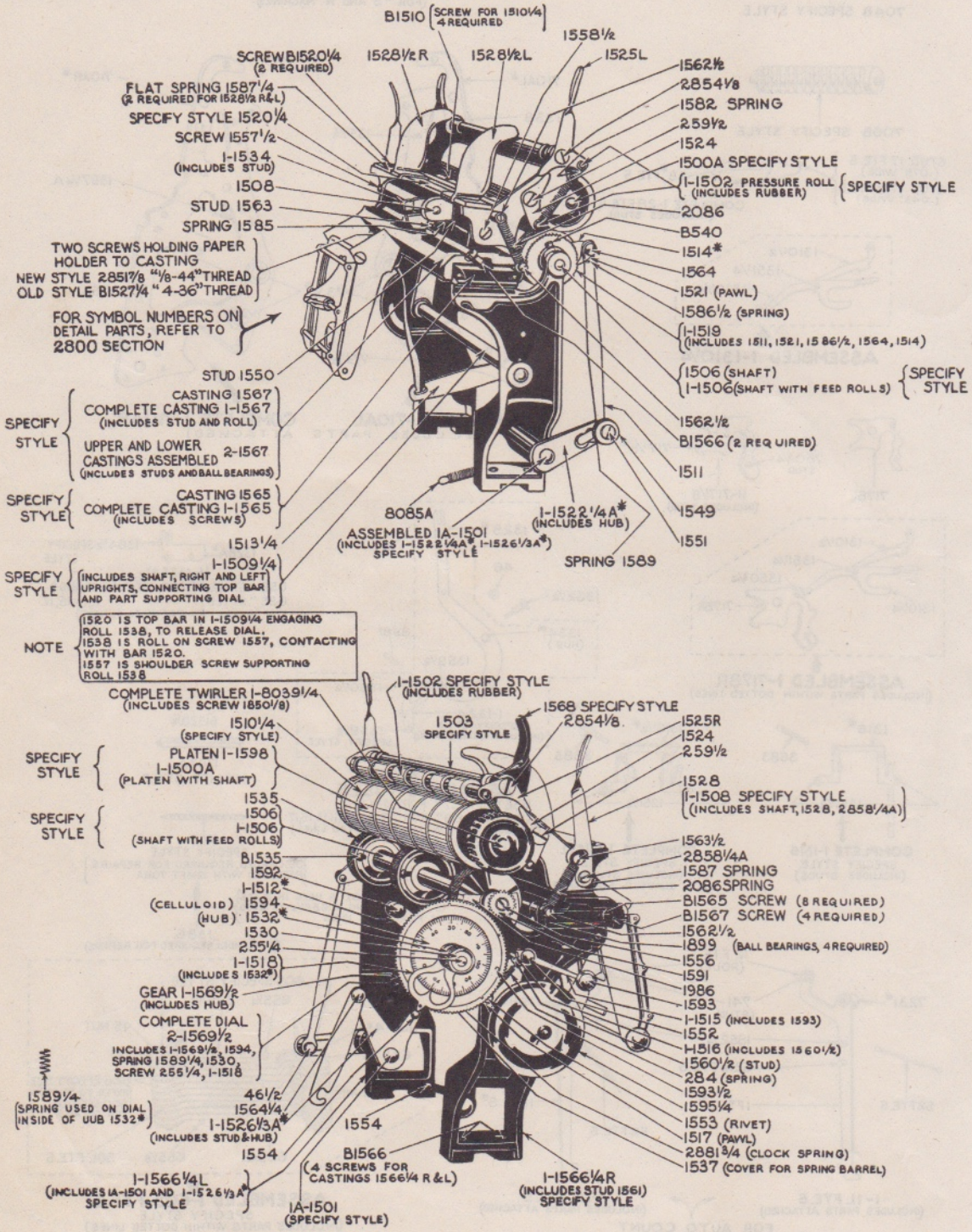


(*) Parts not supplied

Class 1

1500 SECTION

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



(*) **Parts not supplied**

Class 1

1500 SECTION

(1510 Old Style Discard)

The old style parts 1510 constructed with wide nickel-plated strip, plain, and wide nickel-plated strip with slots for paper guides is discarded and will not be furnished on parts orders.

Used in place of the old part is the present 1510¼, 1520¼, 1352A, 1528½R&L and 1578¼ spring which are common to all 10 Construction carriages. When a replacement of the old part is necessary, the 1510¼ must be installed to make this repair. Center punch, drill and tap the 1-1568 casting for strip 1520¼ and screws 1352A, or remove the old casting and install the new style casting 1-1568 which is drilled and tapped for the screws 1352A.

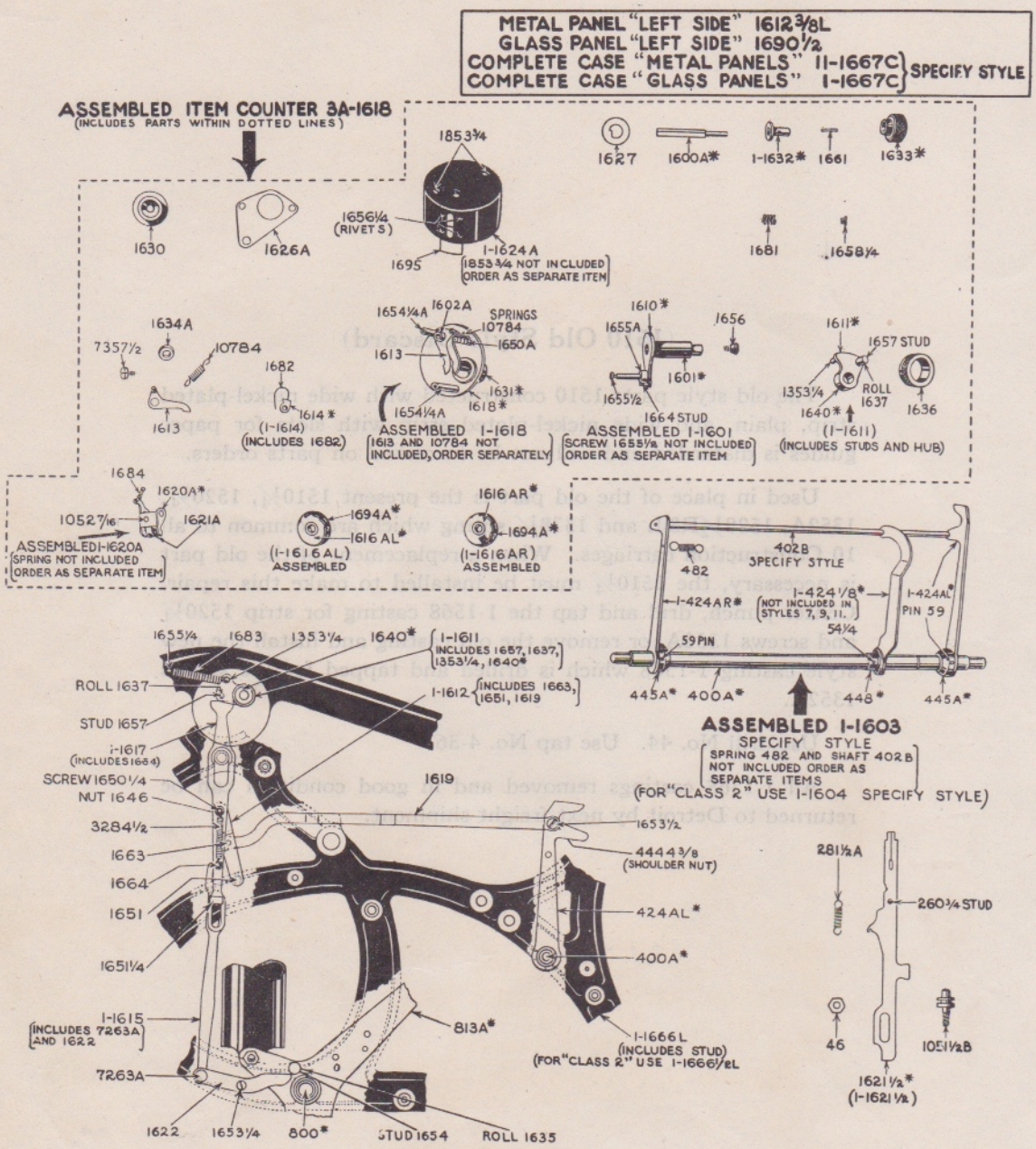
Use drill No. 44. Use tap No. 4-36.

All 1-1568 castings removed and in good condition can be returned to Detroit by next freight shipment.

Class 1

1600 SECTION

Item Counter



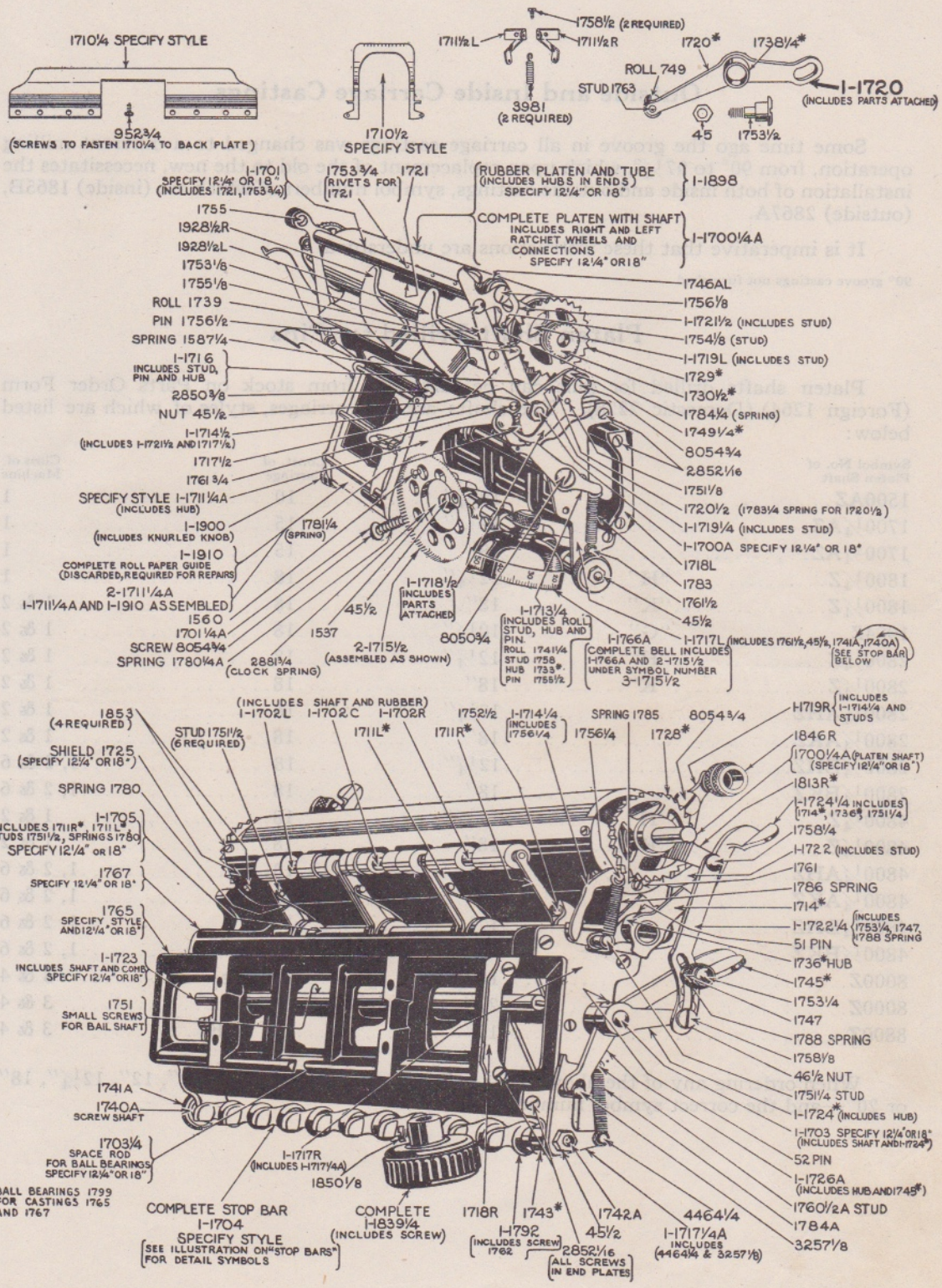
Refer to page 20 for Symbol Number on Case

(*) Parts not supplied

Class 1

1700 SECTION

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



(*) **Parts not supplied**

Class 1

Outside and Inside Carriage Castings

Some time ago the groove in all carriage castings was changed to a different milling operation, from 90° to 97½°, which upon replacement of the old to the new, necessitates the installation of both inside and outside castings, symbol numbers of which are (inside) 1865B, (outside) 2867A.

It is imperative that these instructions are understood.

90° groove castings not furnished.

Platen Shaft Drilled for Pins

Platen shafts drilled for pins can be furnished from stock on Parts Order Form (Foreign 1264) (Domestic 2228). The shafts are for carriages, styles of which are listed below:

Symbol No. of Platen Shaft			Const. of Carriage	Class of Machine
1500AZ		10¼″	10	1
1700¼AZ		12¼″	15	1
1700¼AZ		18″	15	1
1800¼Z	"H"	12¼″	18	1
1800¼Z	"K"	18″	18	1 & 2
1904Z	"G"	10¼″	18	1 & 2
2800¼Z	"H"	12¼″	18	1 & 2
2800¼Z	"K"	18″	18	1 & 2
2800¼AHZ		12¼″	18	1 & 2
2800¼AKZ		18″	18	1 & 2
2800¼BHZ		12¼″	18	1, 2 & 6
2800¼BKZ		18″	18	1, 2 & 6
4800¼Z	"H"	12¼″	18	1 & 2
4800¼Z	"K"	18″	18	1 & 2
4800¼AHZ		12¼″	18	1, 2 & 6
4800¼AKZ		18″	18	1, 2 & 6
4800¼BHZ		12¼″	18	1, 2 & 6
4800¼BKZ		18″	18	1, 2 & 6
8000Z		12″	12″ Vis.	3 & 4
8000Z		20″	20″ Vis.	3 & 4
8800Z		12″	12″ I&E	3 & 4

When ordering any of the above parts, ***always*** specify the size, 10¼″, 12″, 12¼″, 18″ or 20″—and the correct symbol number.

Class 1

Ball and Roller Bearings

Listed below are the different sizes of ball and roller bearings used on carriage raceways.

Class 1. Symbol No. 72906 "Steel Balls"

Size of balls

.186" . . Undersize
.1875" . . Regular
.188" }
.189" } . . Oversize
.191" }

Symbol No. 1837 "Roller Bearing"

Used on carriage raceway milled at 90° (old style).

Size of Rolls

.249" }
.250" } . . Regular
.251" }
.252" } . . Oversize

2824A is used with roller bearing 1837.

Symbol 2837¼ "Roller Bearing"

Used on carriage raceway milled at 97½° (new style).

Size of rolls

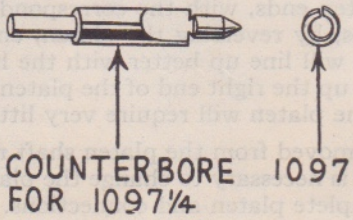
.264" }
.265" } . . Regular
.266" } . . Oversize

2824A is used with 2837¼.

When ordering any of the above parts, always specify the size of bearing wanted.

Lock Washer 1097¼ and Counterbore for 1865B and 2865A Castings

(Parts supplied gratis.)



In the above illustration is depicted a lock washer Symbol No. 1097¼, and a counterbore for lock washer, 1097¼.

The lock washer is to be used on both screws, 1055⅜ Style H, which secures the carriage castings 1865B and 2865A to the side frames of the machine.

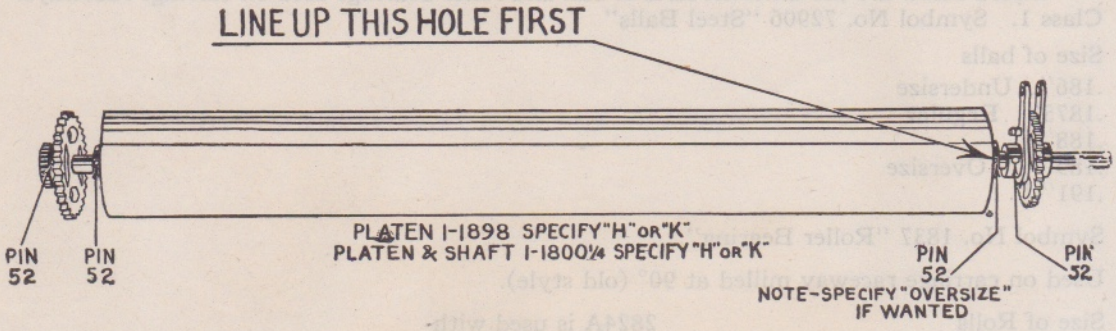
Before the lock washer can be used it will be necessary to counterbore the 1865B casting or the 2865A casting. This operation will allow the lock washer and screws 1055⅜, Style H, to set in far enough to permit clearance for the bail 1-2806¼ when the machine is operated.

The counterbore and lock washer will be supplied on the regular parts order form and should be listed in the following manner:

Two	1097¼
One	Counterbore for 1097¼

Class 1

Platen Changes



Instructions

(Read Carefully)

We are now in a position to furnish the following platens on parts orders: Symbol No. 1-1898 Styles H and K, 1-8098 Style 3⅞″, Style 5″, Style 12″ and Style 20″. These platens will be drilled and broached for the 52 pin and are to be fitted on the old platen shafts, from which the platens have been removed.

The proper way to remove the tapered pin, is to strike it a sharp blow with a light hammer, backing up that part of the platen shaft from which the pin is to be removed, with a saddle bar, Kit No. 108. It will be necessary to grind off the side of the saddle bar, so it will fit between the end plates and the ends of the platen. Start the pins by using K587-1 and K587-2, drive the pins out part of the way by using K587-1 and Kit 589, but do not enlarge the hole by driving Kit 589 in too far. Drive the pins all the way out by using K587-1 and Kit 592.

It must be understood, that these platens, as drilled, will not fit all of the old shafts exactly, but in such cases they can be made to fit by broaching the holes in the platen shaft and the ends of the platen to fit a 52 pin, by using a broach for a 52 pin, which will be furnished on parts orders. A tap wrench, Kit 29, is the proper tool for holding this broach.

Line up the holes in the platen ends, with the corresponding holes in the platen shaft before broaching. In many cases, by reversing the platen, end for end, it will be noticed that the holes in the platen ends will line up better with the holes in the platen shaft. In making these platen changes line up the right end of the platen first, then broach and pin it. By doing this, the right end of the platen will require very little broaching.

The same gears which are removed from the platen shaft must be put back on again, if the teeth are not worn. When it is necessary to change the platen only, this should be done in preference to furnishing a complete platen and connections.

Care must be taken when broaching these holes not to broach them too large. Pins .003 oversize in diameter will be furnished if needed.

This broach being hard, it is very easily broken; therefore, it is very essential that it be held straight and not forced through the holes too fast.

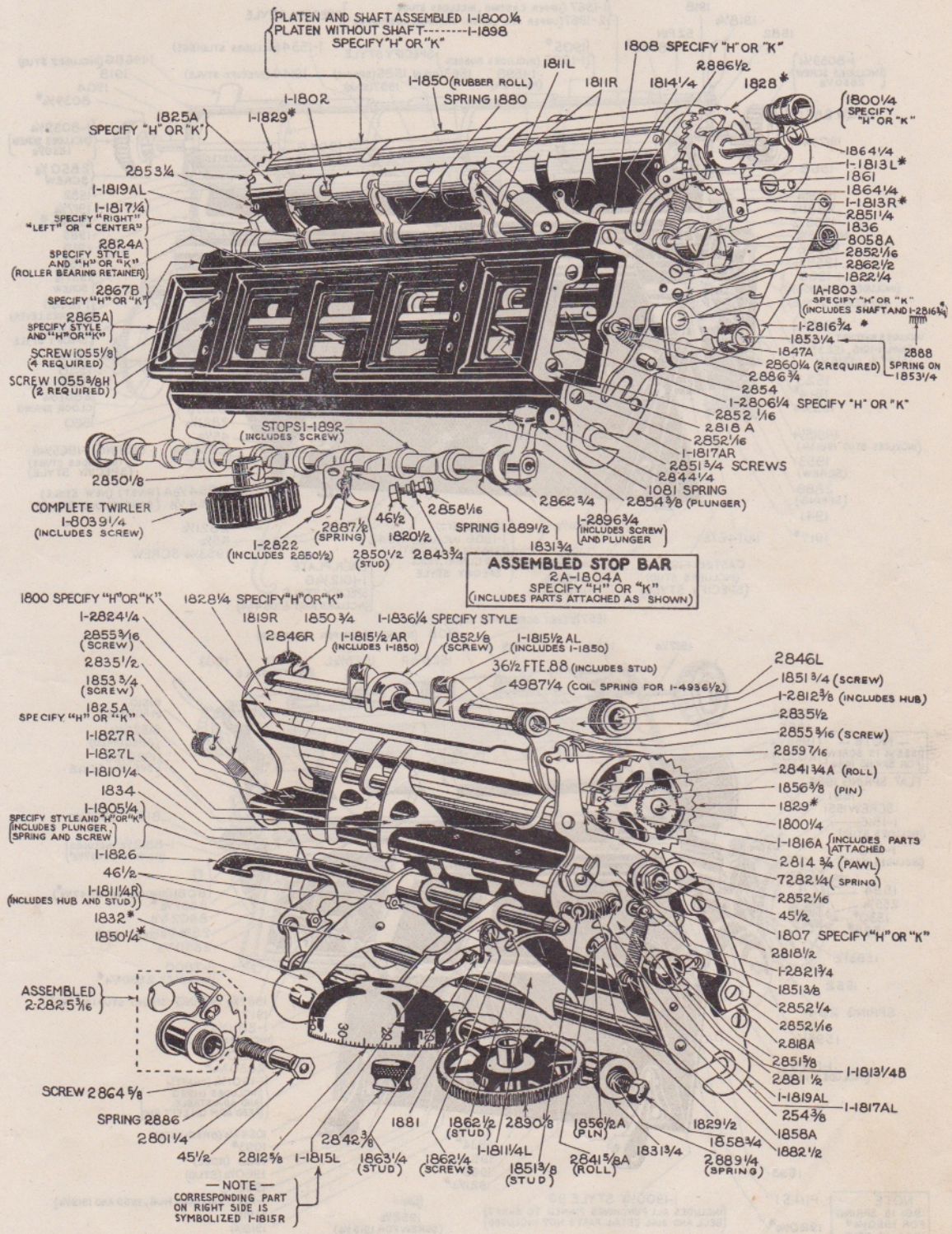
The above instructions should be followed in all cases, when making platen changes on Style 4, Style 5, Style 6, Style 7, Style 8, Class 3, Class 4, and 1700 carriages.

We will also furnish the small bell gear, Symbol No. 2830½A for Styles 6 and 8 carriages, the small injector gear, Symbol No. 4830 and 4830A, for Styles 6 and 8 carriages, with the injector feature and small injector gear for Class 3 carriages, Symbol No. 8830¼. The 2830½A will be drilled for the 52 pin and the 4830, 4830A and 8830¼ will be drilled for the 4850 pin.

Class 1

1800 SECTION

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



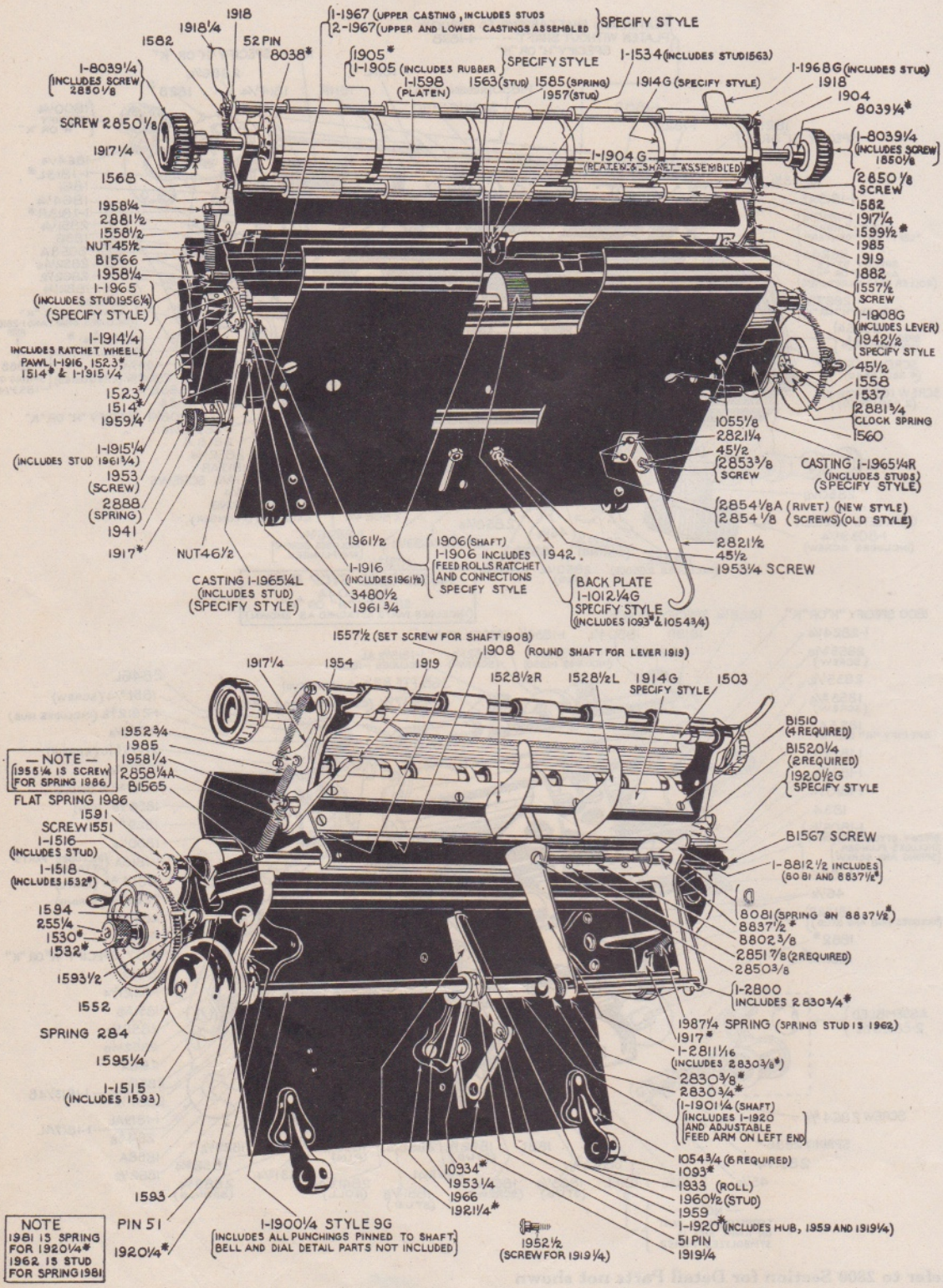
Refer to 2800 Section for Detail Parts not shown

(*) Parts not supplied

Class 1

1900 SECTION

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



(*) **Parts not supplied**

Class 1

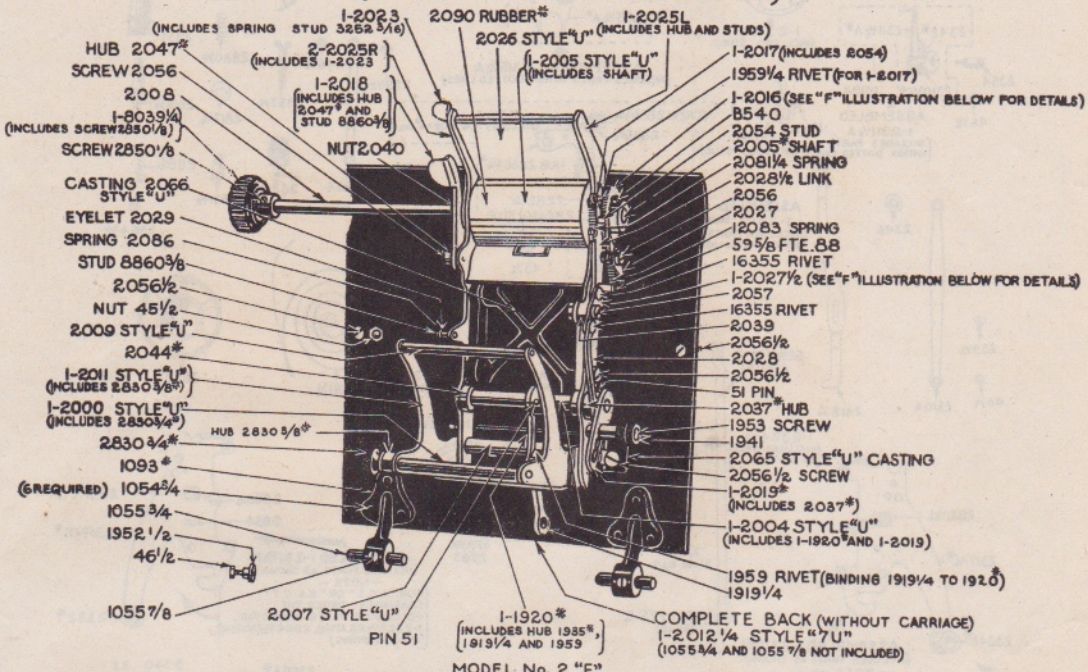
2000 SECTION

MODEL No. 2 "U"

COMPLETE CARRIAGE 1-2066 STYLE "U" (2 5/16")

SPECIFY MACHINE NUMBER

(INCLUDES PARTS SHOWN BELOW EXCEPT BACK PLATE)

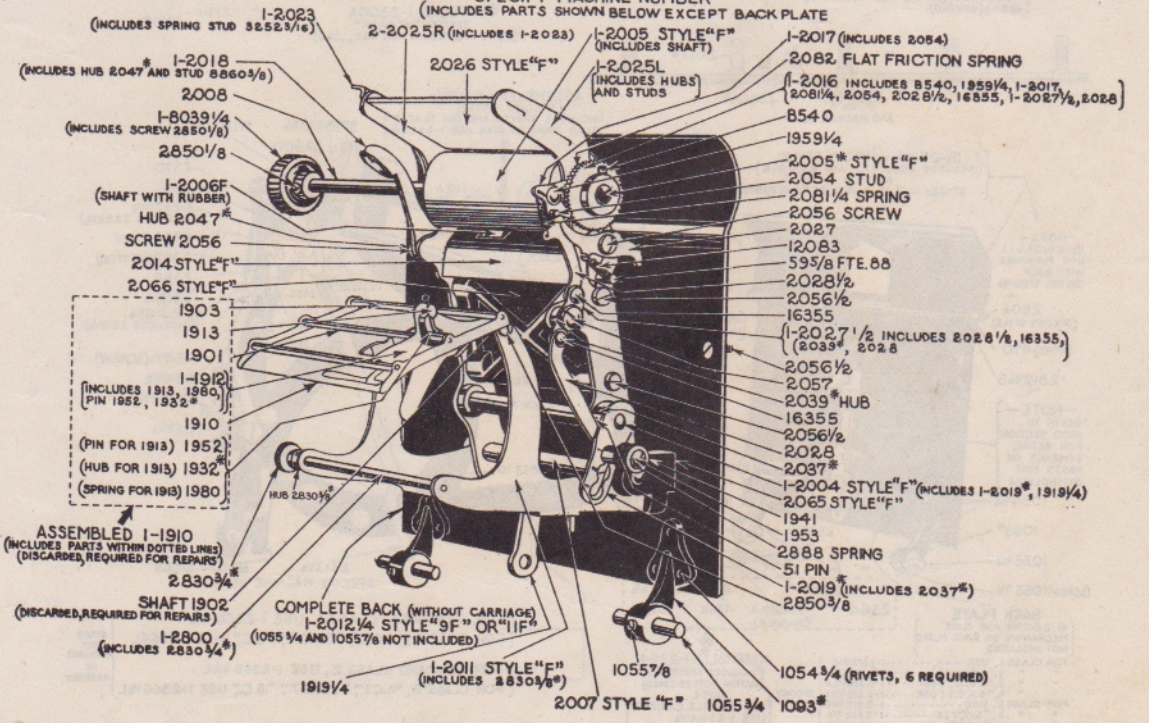


MODEL No. 2 "F"

COMPLETE CARRIAGE 1-2066 STYLE "F" (3 15/32")

SPECIFY MACHINE NUMBER

(INCLUDES PARTS SHOWN BELOW EXCEPT BACK PLATE

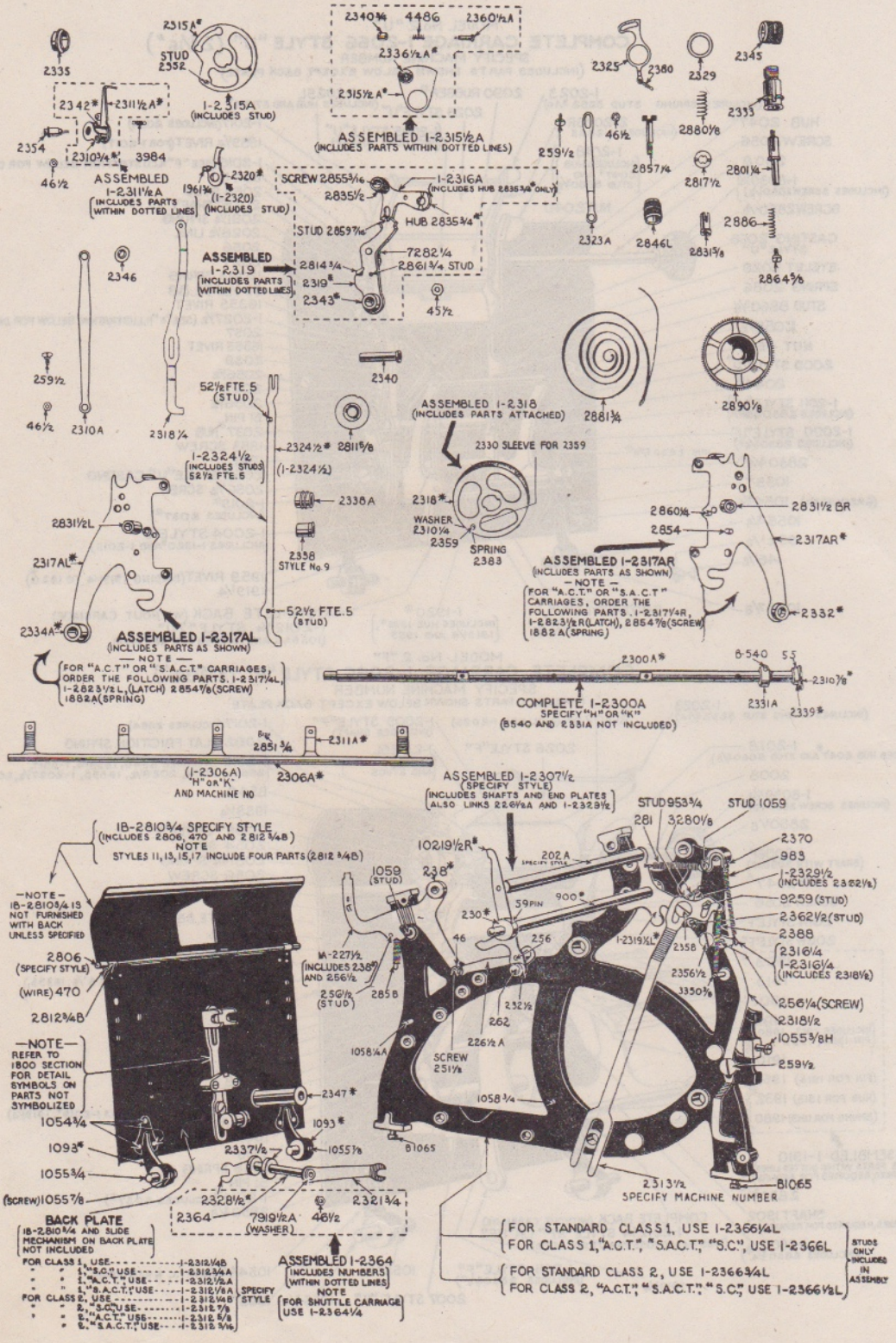


(*) Parts not supplied

Class 1

2300 SECTION

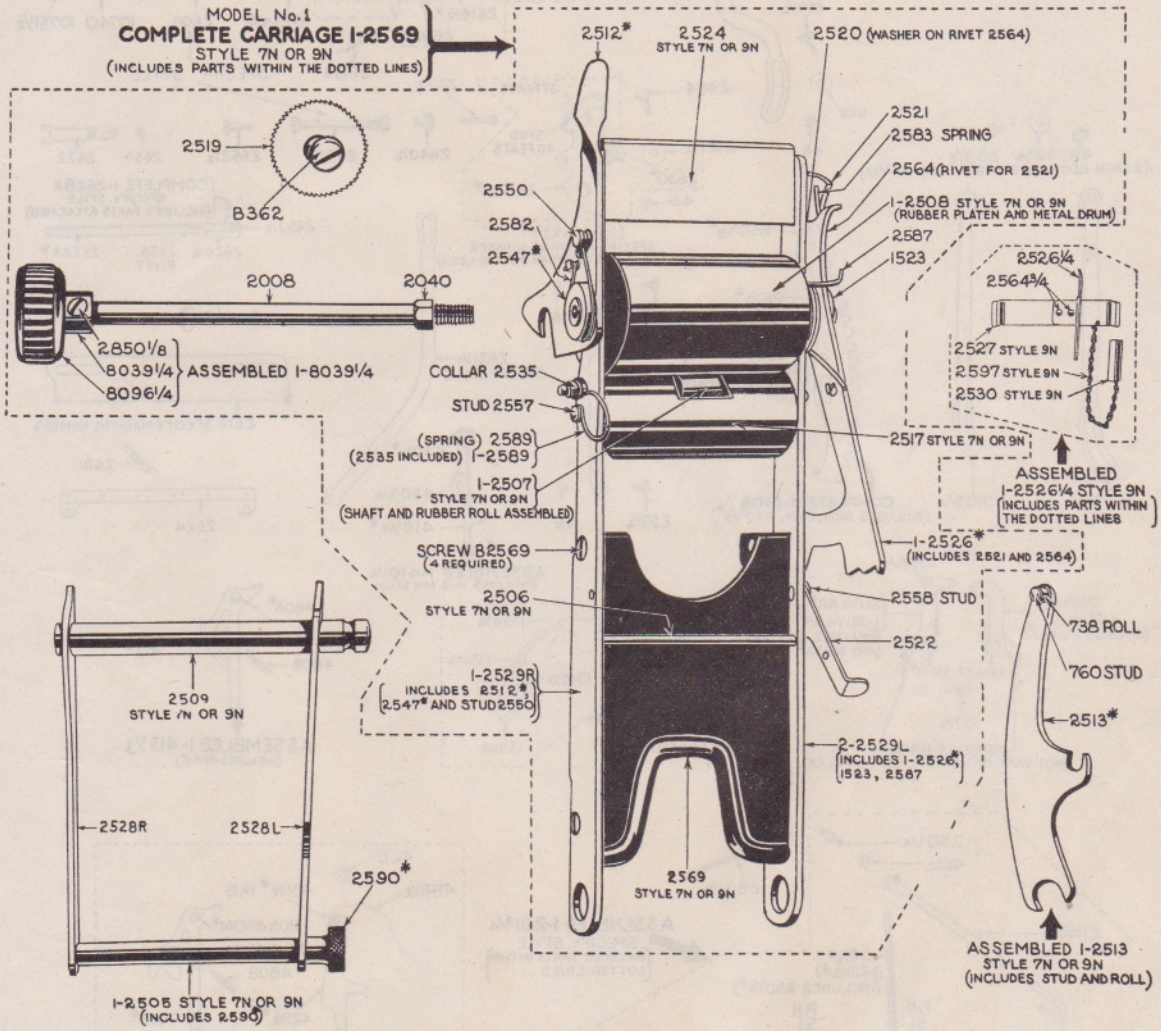
Keyboard Lock Mechanism



(*) Parts not supplied

Class 1

2500 SECTION

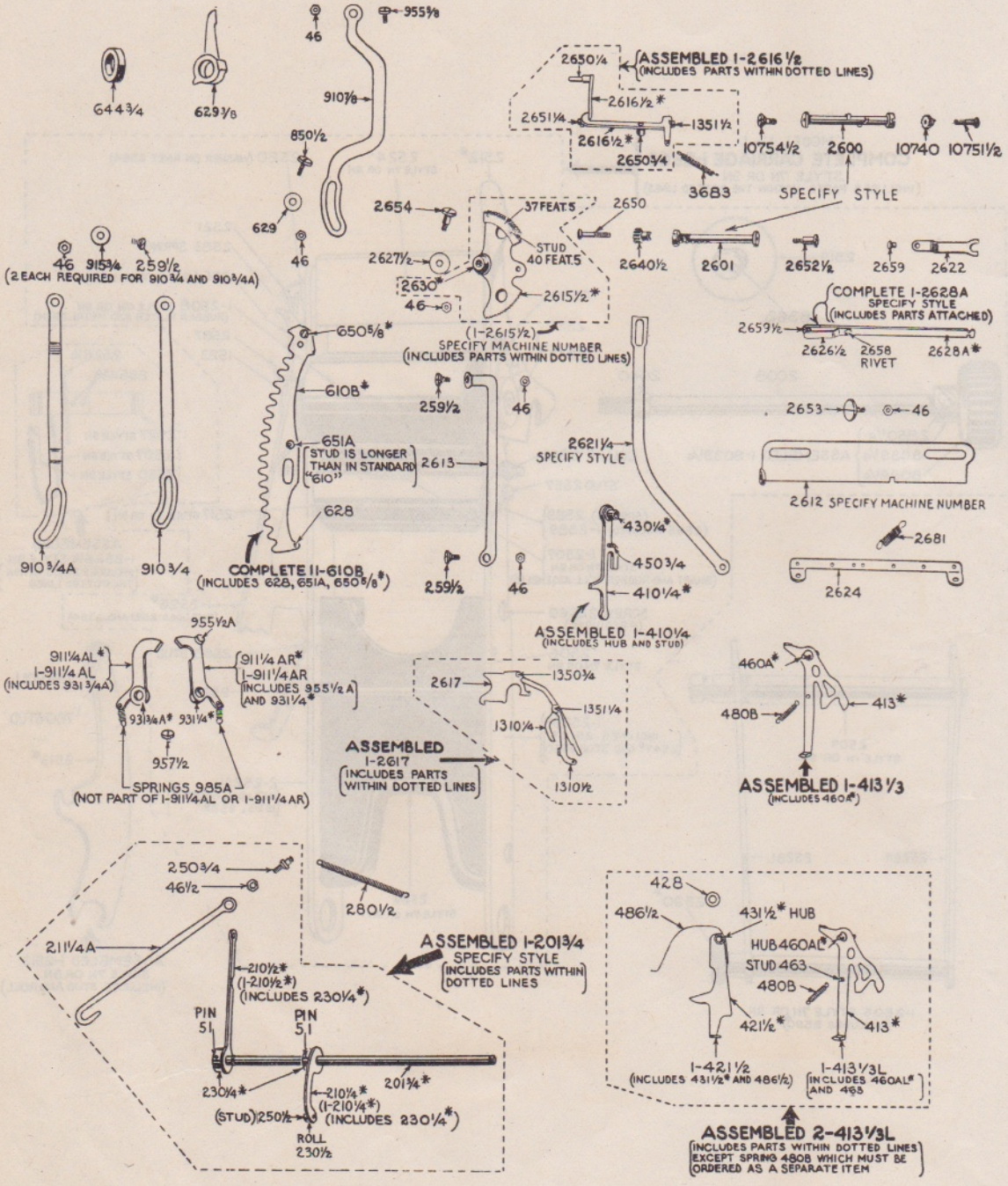


(*) Parts not supplied

Class 1

2600 SECTION

Variable Split and Extended Total Mechanism

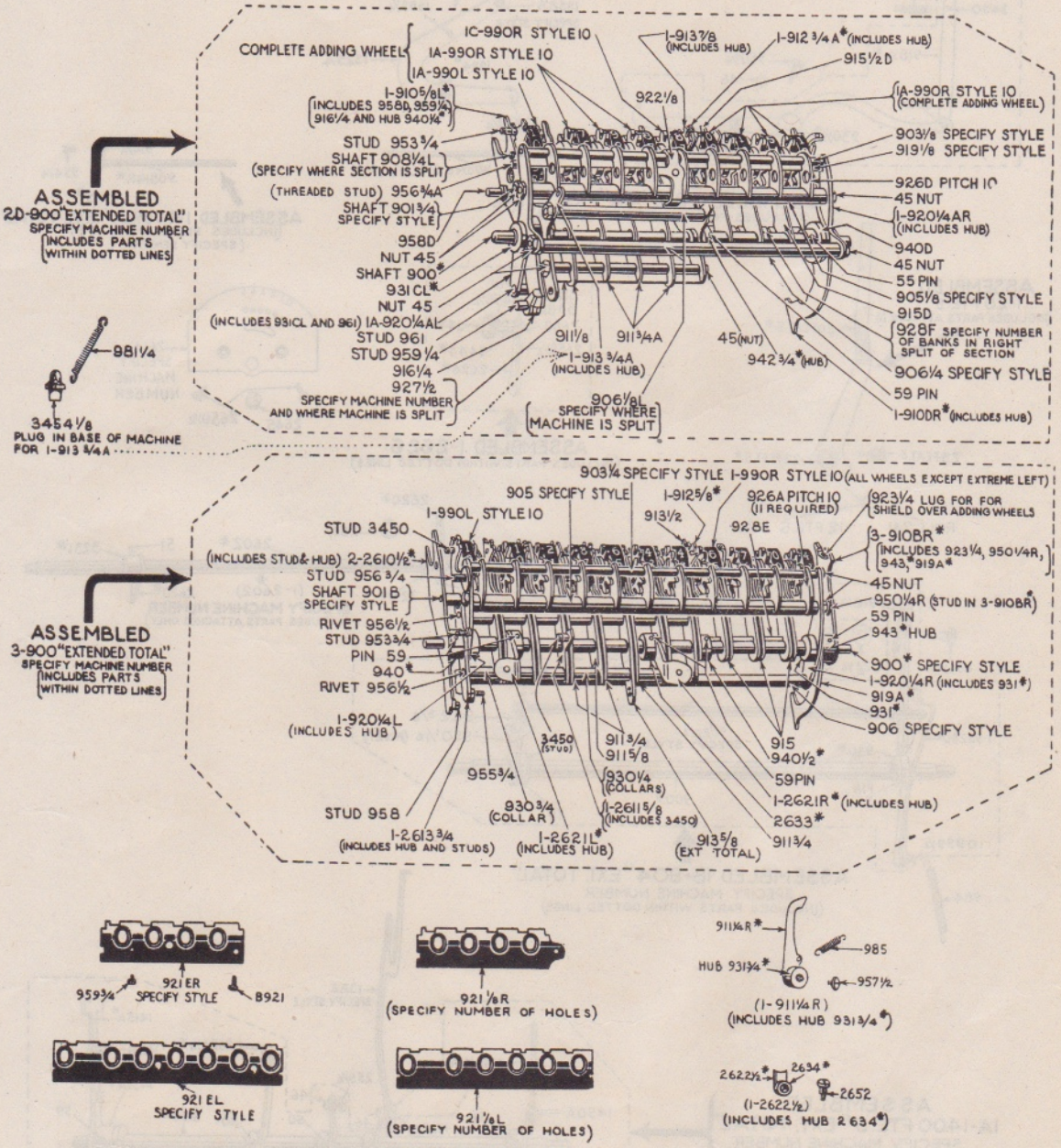


(*) Parts not supplied

Class 1

2600 SECTION

Variable Split and Extended Total Mechanism



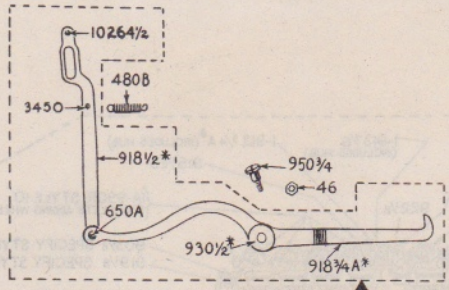
Refer to page 20 for Symbol Number on Base and Case

(*) Parts not supplied

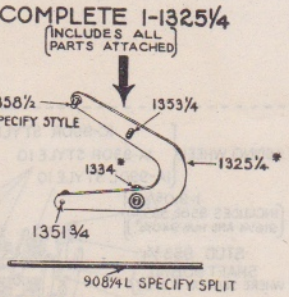
Class 1

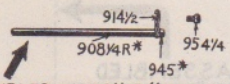
2600 SECTION

Variable Split and Extended Total Mechanism

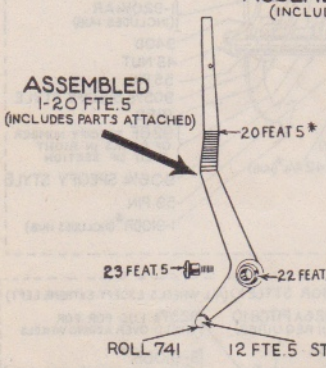


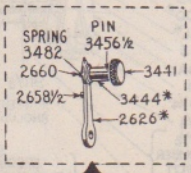
ASSEMBLED 1-918 ¾A "EXT. TOTAL"
(INCLUDES PARTS WITHIN DOTTED LINES)



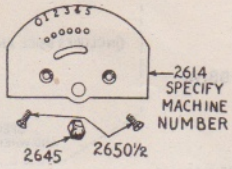


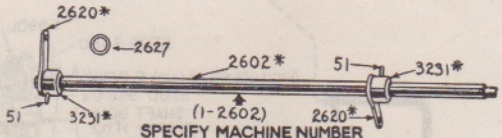
ASSEMBLED 1-908¼R "EXT. TOTAL"
(INCLUDES 914½ AND 945*)
(SPECIFY LENGTH)



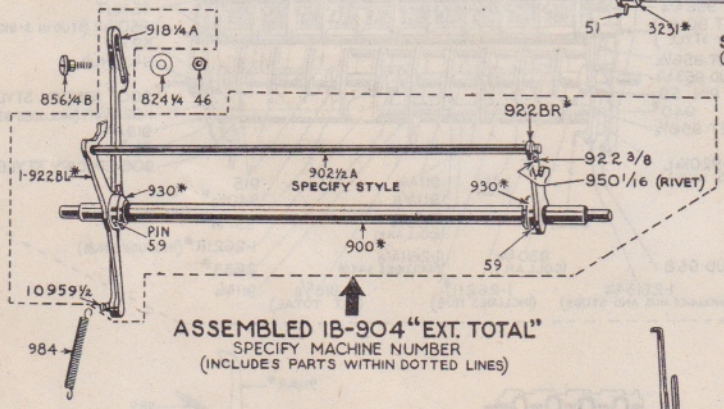


ASSEMBLED 1-2626
(INCLUDES PARTS WITHIN DOTTED LINES)



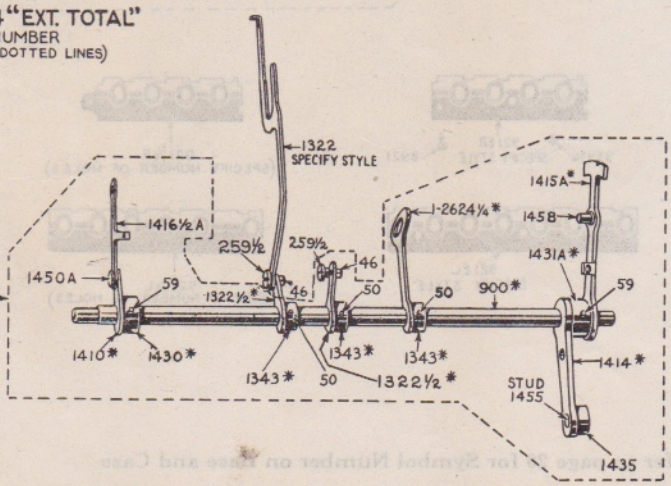


SPECIFY MACHINE NUMBER
(INCLUDES PARTS ATTACHED ONLY)



ASSEMBLED 1B-904 "EXT. TOTAL"
SPECIFY MACHINE NUMBER
(INCLUDES PARTS WITHIN DOTTED LINES)

ASSEMBLED
1A-1400 FTE. 5 "EXT. TOTAL"
SPECIFY MACHINE NUMBER
(INCLUDES SYMBOL NUMBERS OF PARTS WITHIN DOTTED LINES)

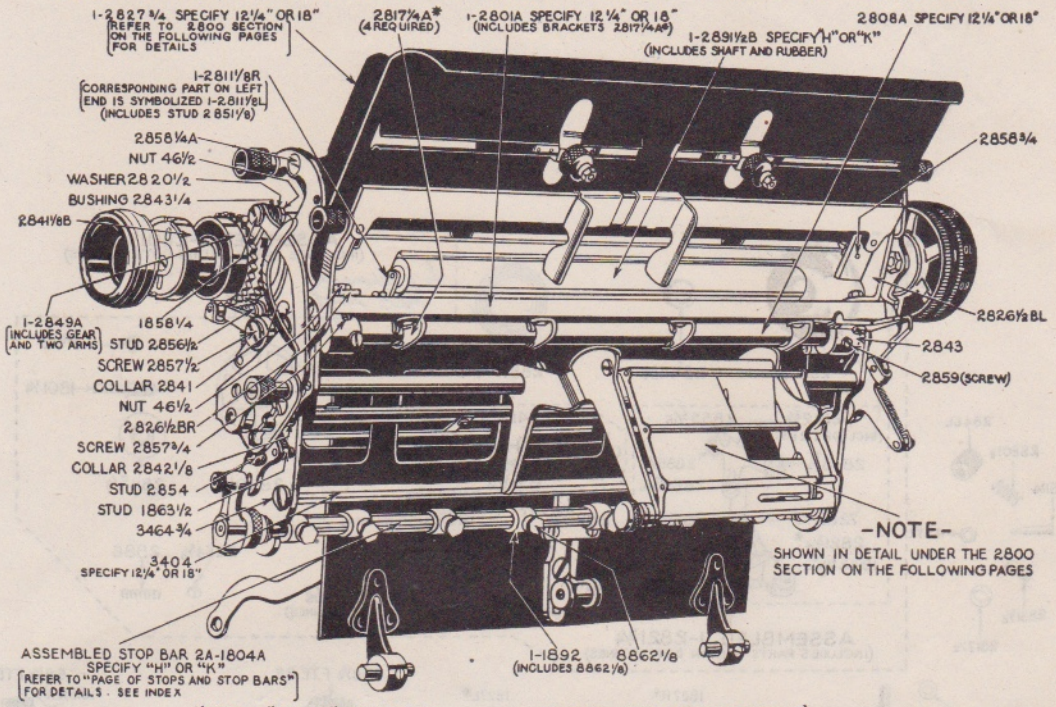


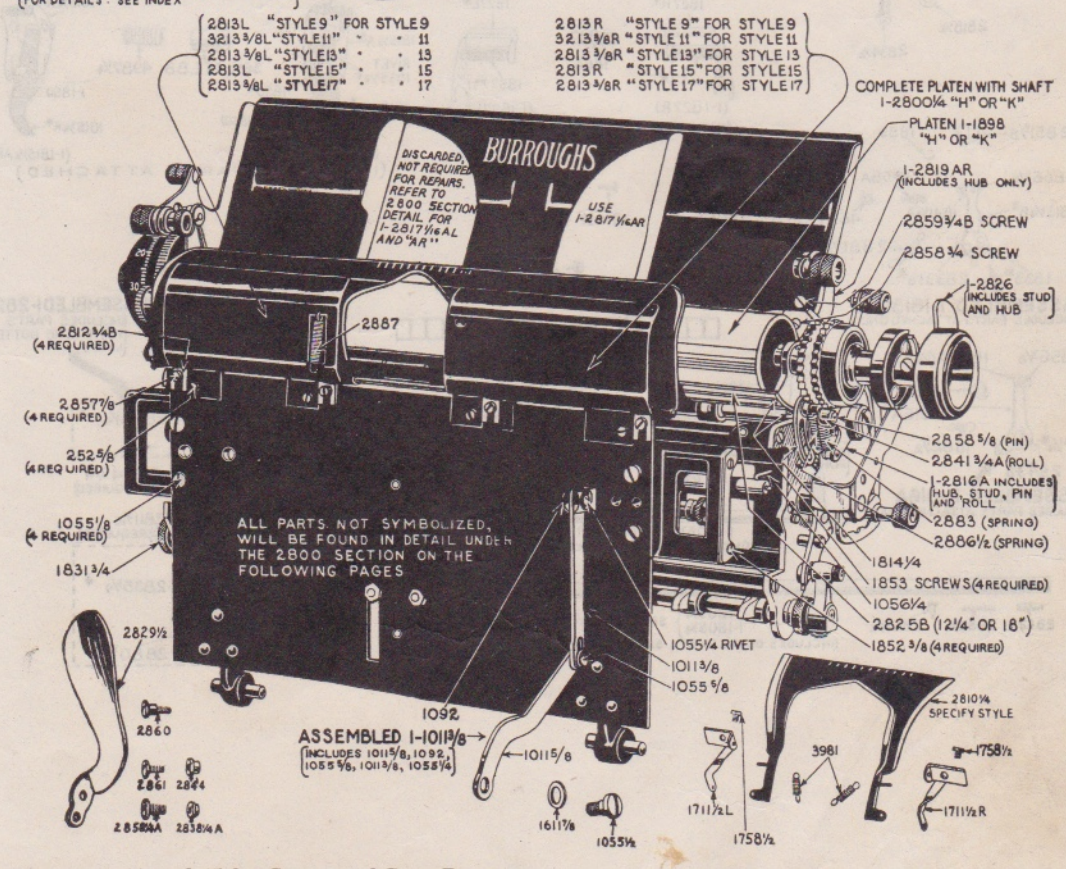
(*) Parts not supplied

Class 1

2800 SECTION (Old Style)

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



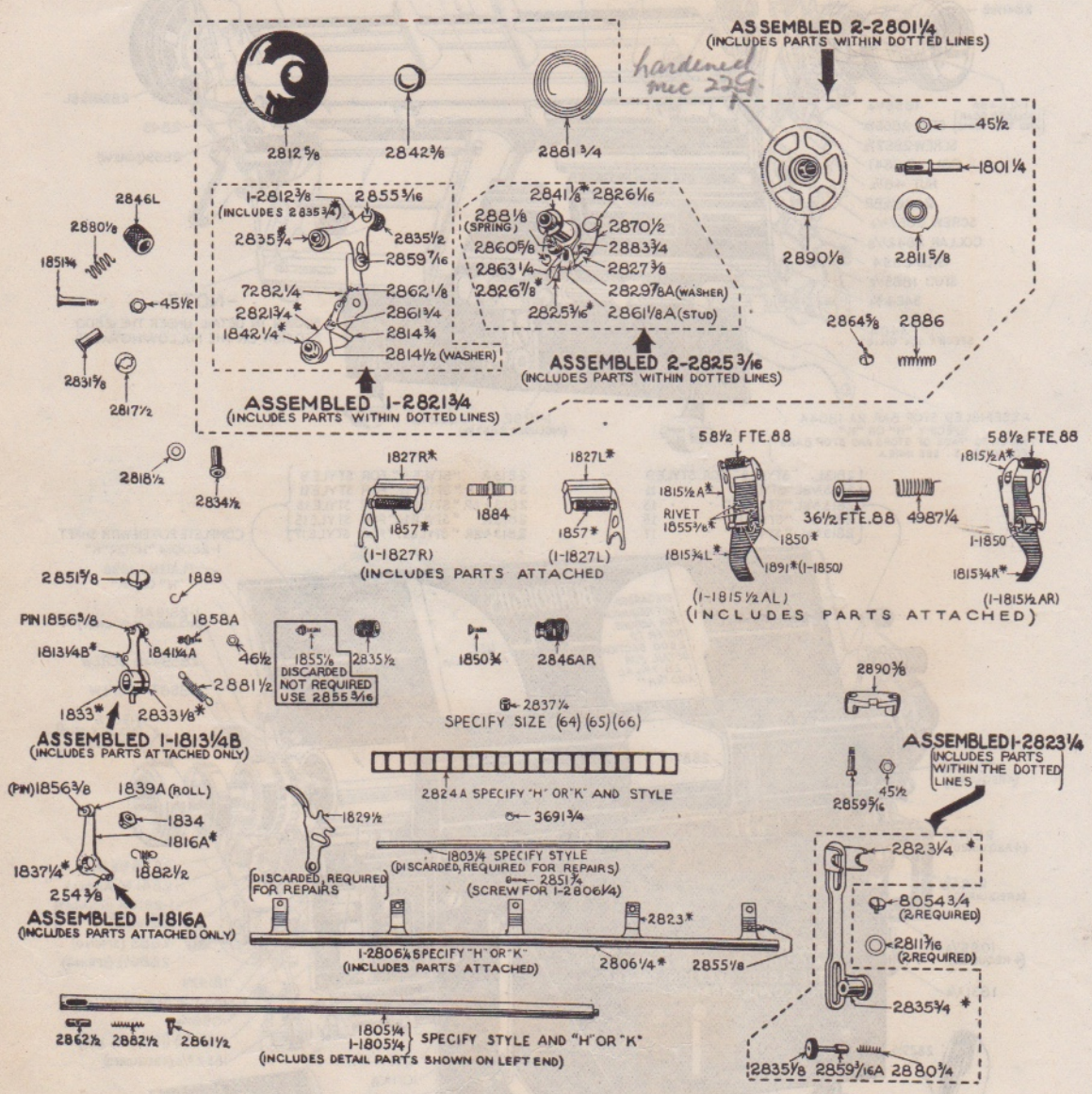


Refer to pages 44 and 45 for Stops and Stop Bars

(*) Parts not supplied

Class 1

2800 SECTION



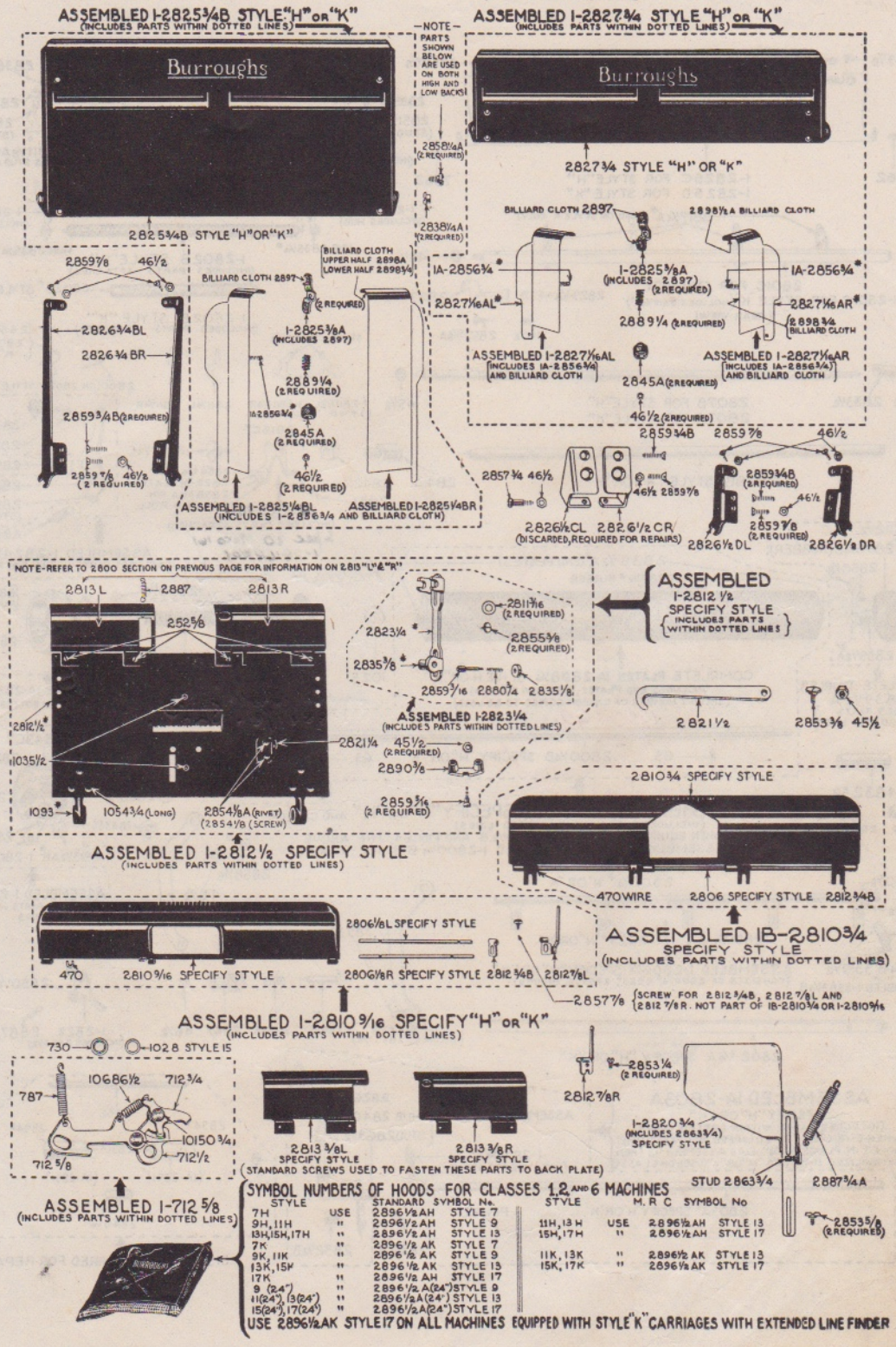
(*) Parts not supplied

Class 1

2800 SECTION

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"

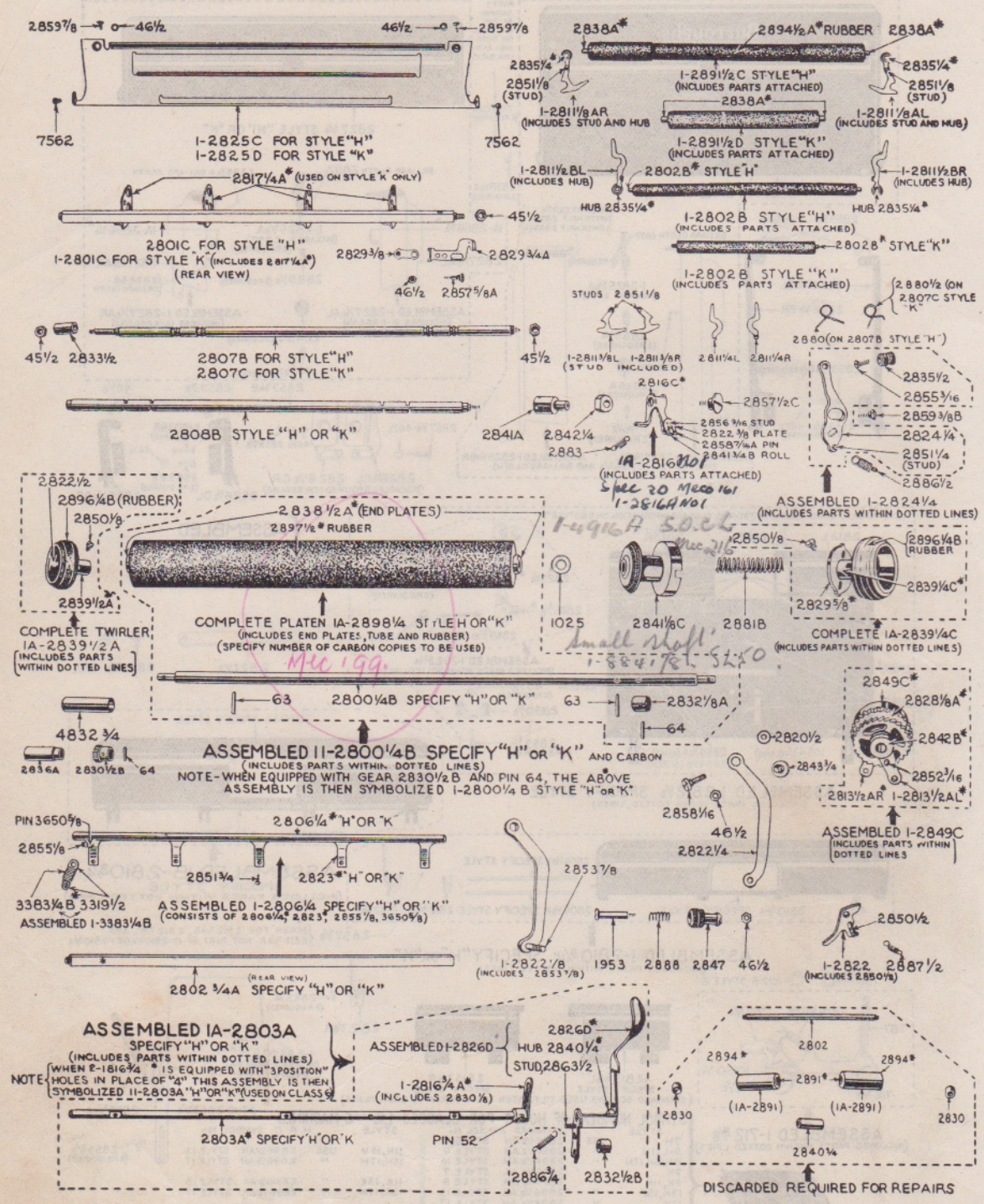
(DISCARDED, REQUIRED FOR REPAIRS)



(*) Parts not supplied

Class 1

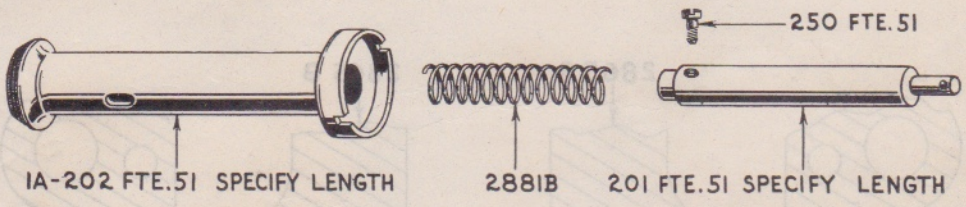
2800 SECTION



(*) Parts not supplied

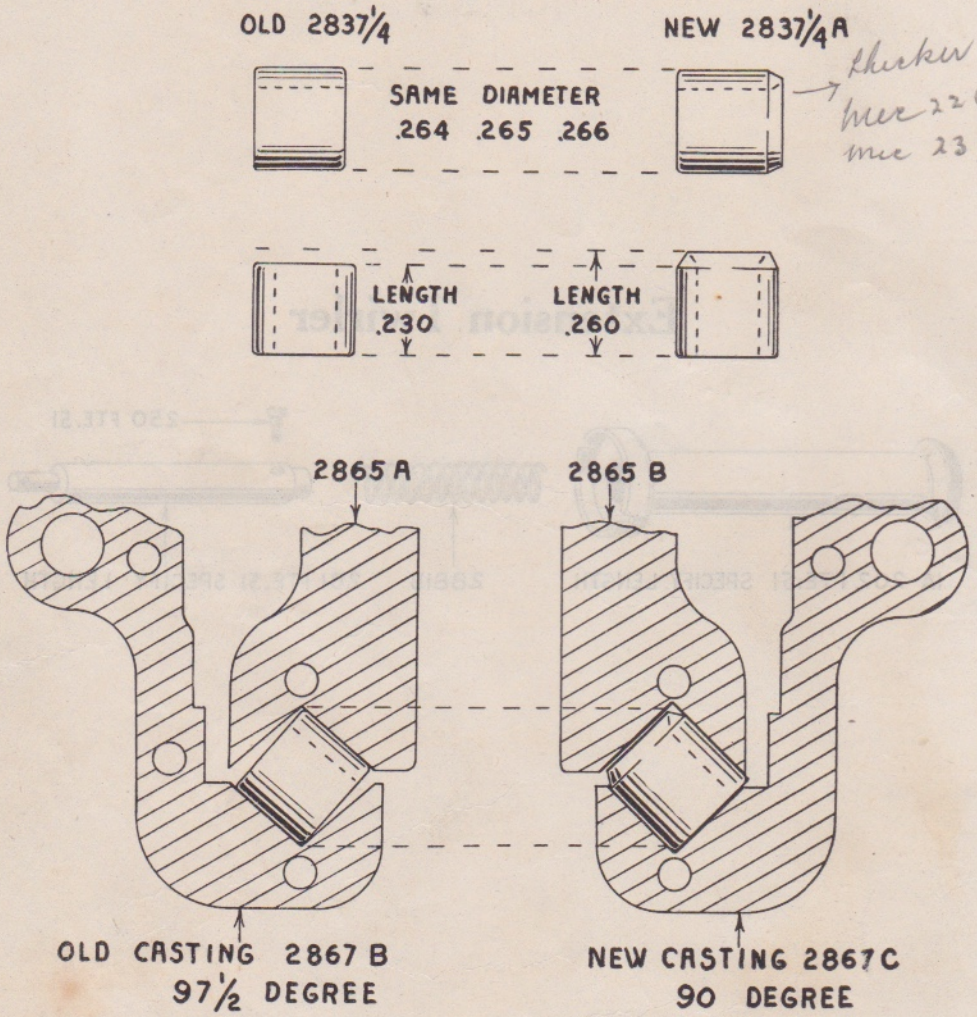
Class 1

Extension Twirler



Class 1

Carriage Castings with 90 Degree and 97½ Degree Raceways



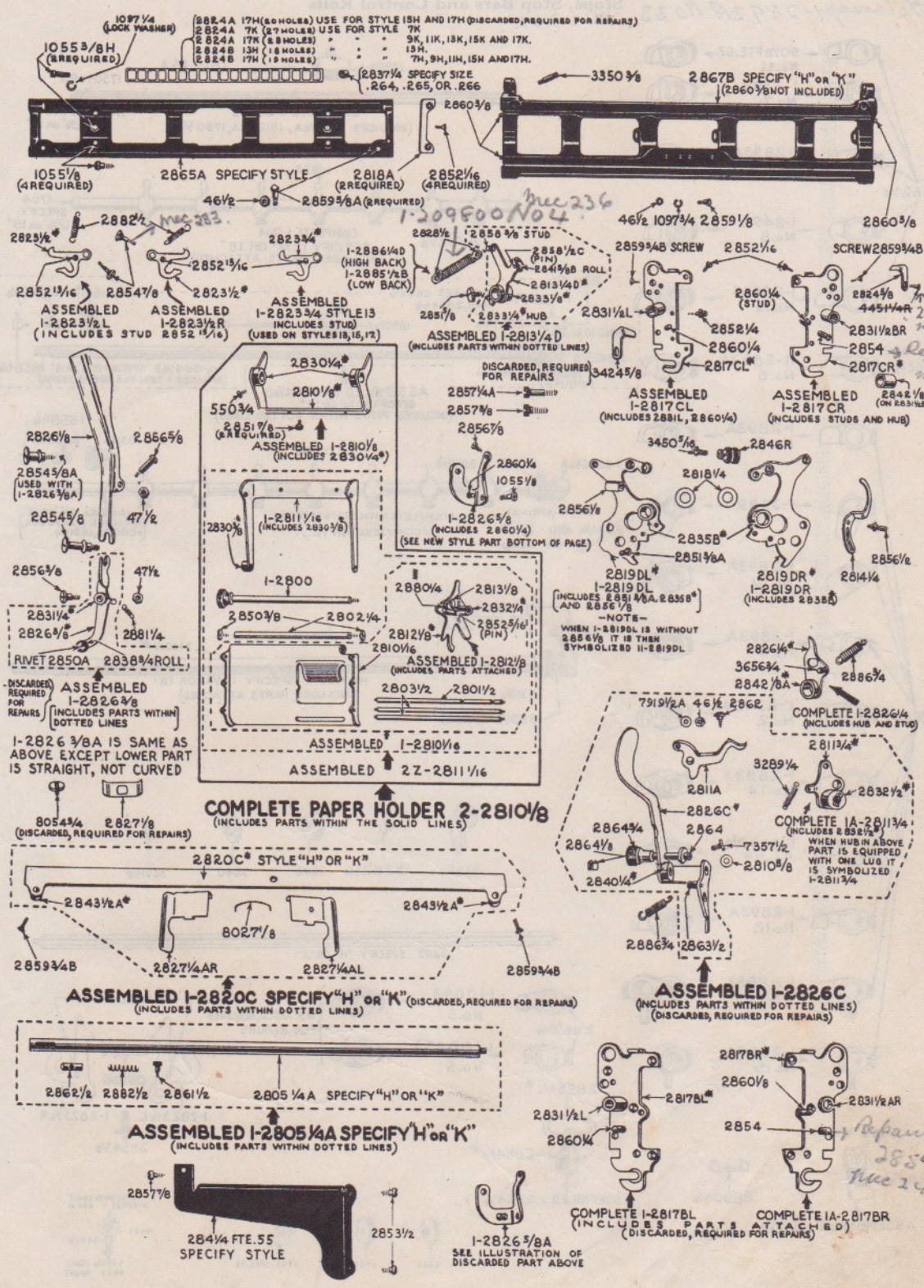
In the above illustration is shown the position of two bearings of different lengths. The short bearing is used in the 97½ degree raceway, the long one in the 90 degree raceway.

The long bearing 2837¼A can not be used with the 97½ degree raceway because of its additional length.

Repair Casting
2865 CZ Mec 236

Class 1

2800 SECTION



(*) Parts not supplied

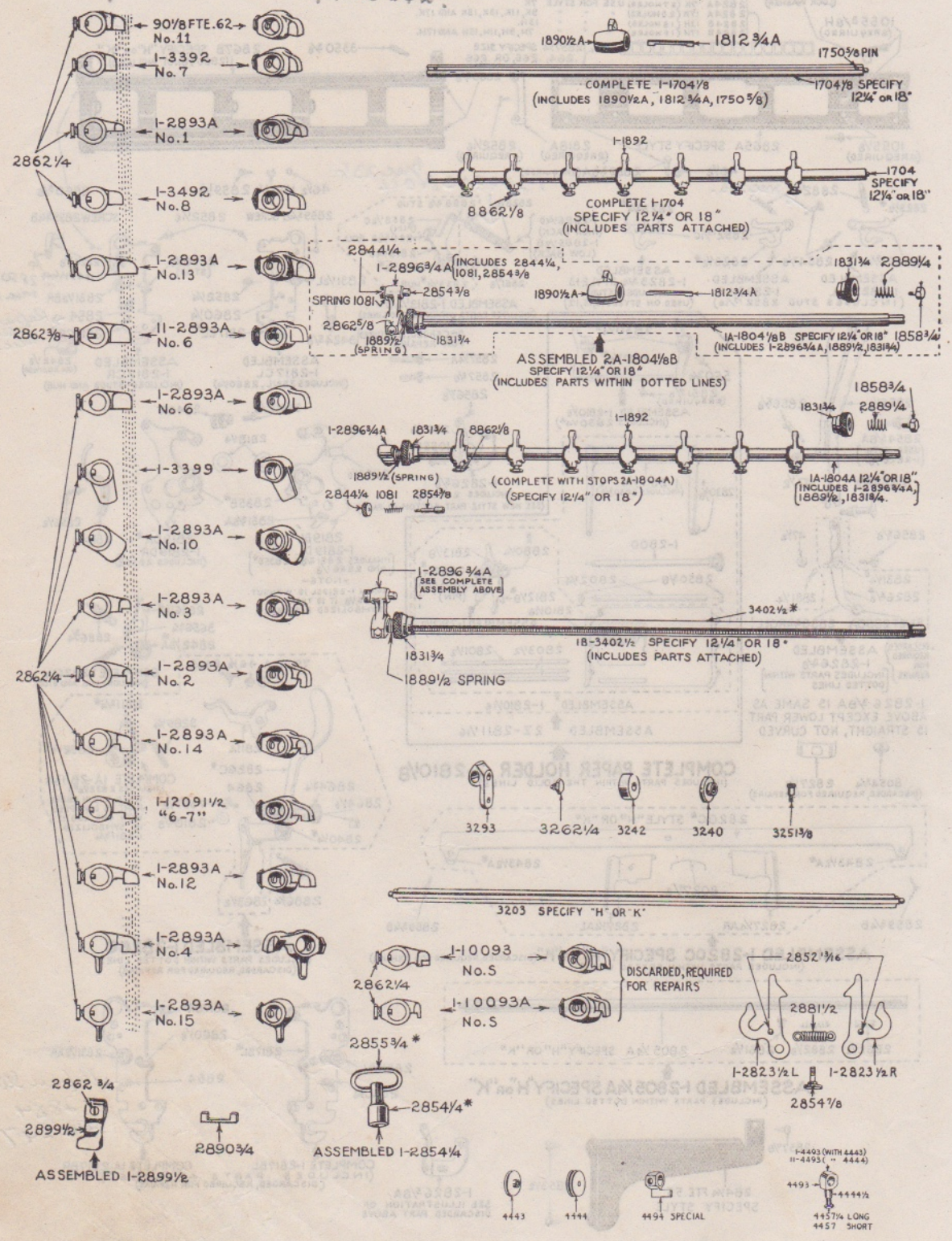
Stops hardened
mec 229

Class 1

2800 SECTION

Shuttle Carriage 1-2893A No 33. mec 242.

Stops, Stop Bars and Control Rolls

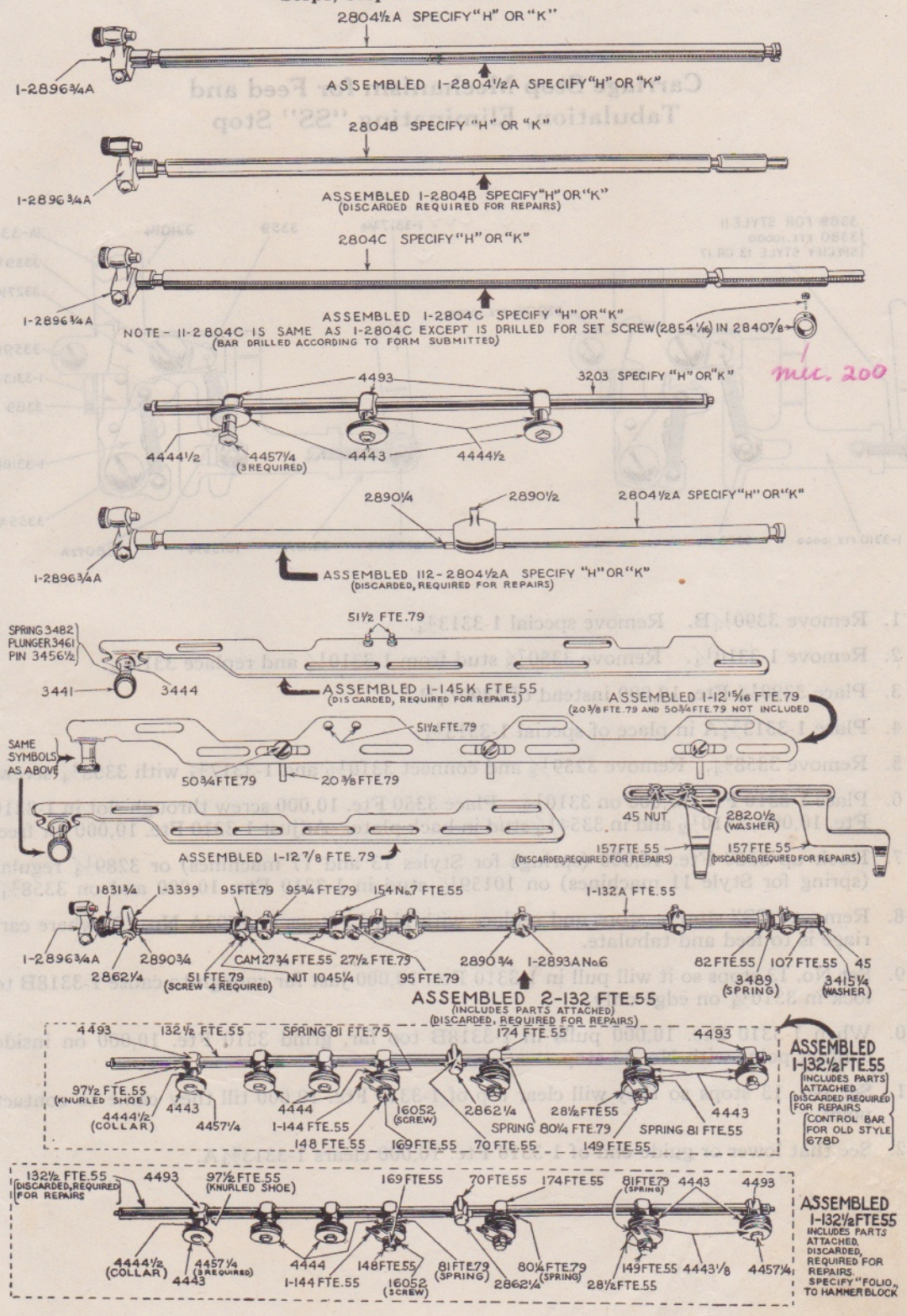


(*) Parts not supplied

Class 1

2800 SECTION

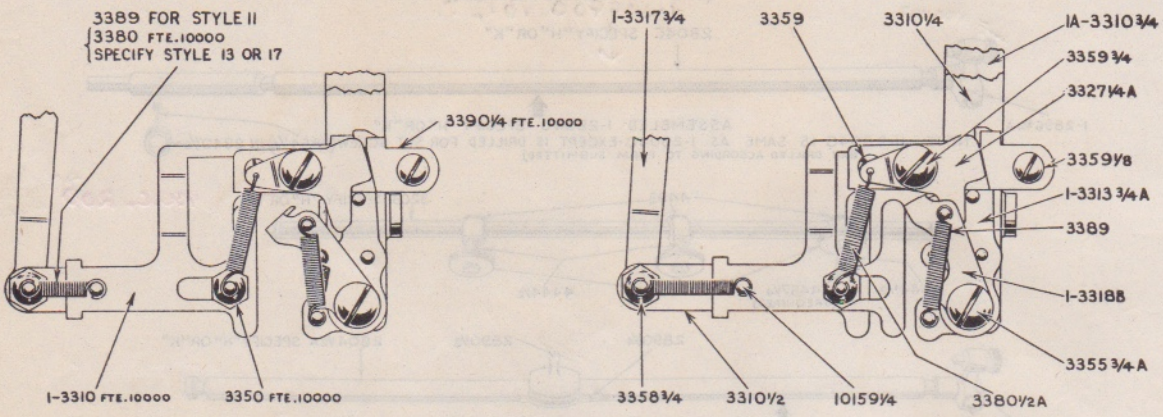
Stops, Stop Bars and Control Rolls



(*) Parts not supplied

Class 1

Carriage Stop Mechanism for Feed and Tabulation, Eliminating "SS" Stop

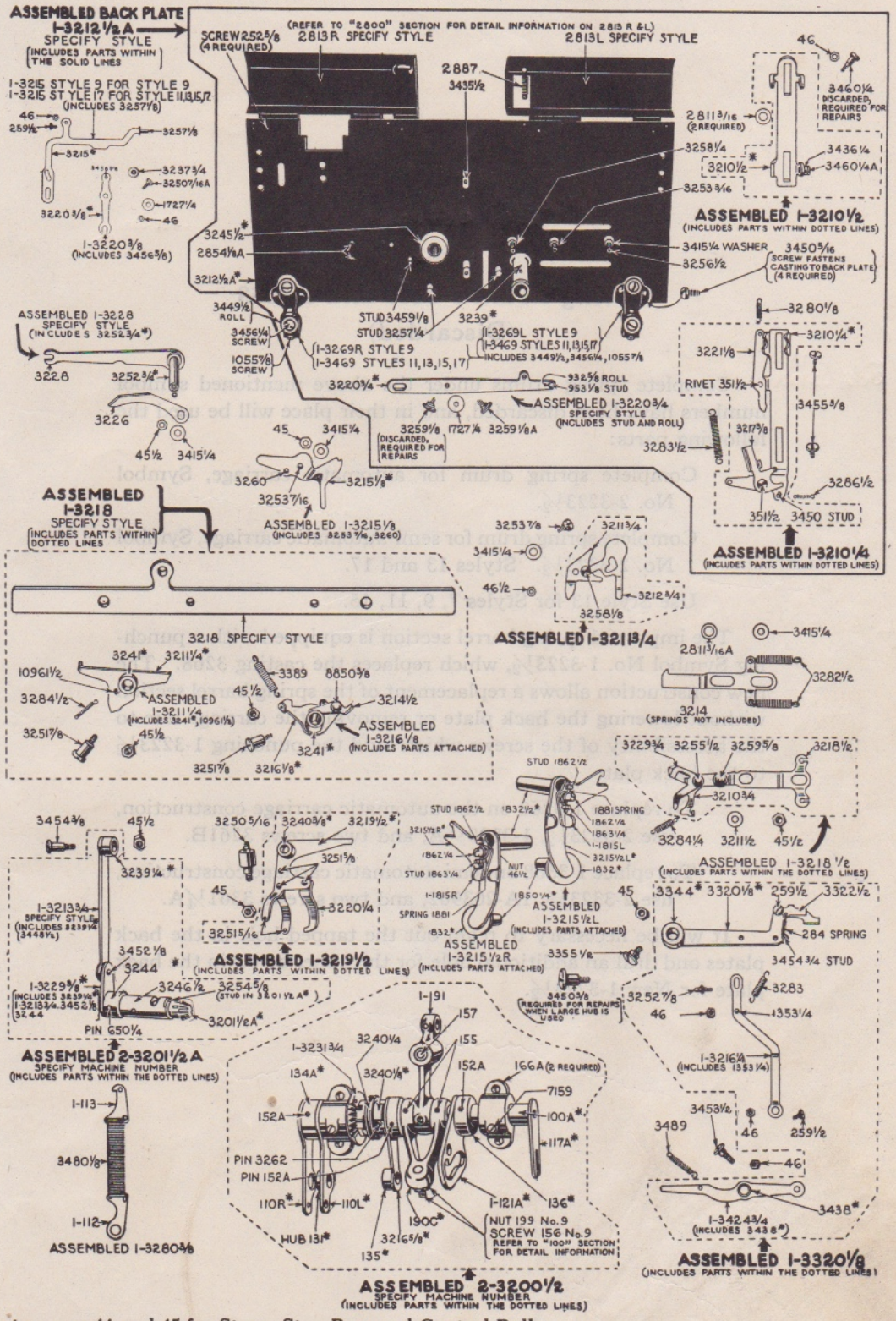


1. Remove 3390¼B. Remove special 1-3313¾.
2. Remove 1-3310¼. Remove 3350⅞ stud from 1-3310¼ and replace 3310¼.
3. Place 3390¼ Fte. 10,000 instead of 3390¼B.
4. Place 1-3313¾A in place of special 1-3313¾.
5. Remove 3358¾. Remove 3259⅛ and connect 3310½ and 1-3317¾ with 3358¾ screw.
6. Place 1-3310 Fte. 10,000 on 3310½. Place 3350 Fte. 10,000 screw through slot in 1-3310 Fte. 10,000, 3310½ and in 3354½ stud in back plate. Adjust 1-3310 Fte. 10,000 for free.
7. Hook up 3380 Fte. 10,000 (springs for Styles 13 and 17 machines) or 3289¼ regular (spring for Style 11 machines) on 10159¼ stud in 1-3310 Fte. 10,000 and on 3358¾.
8. Remove "SS" stop or stops and replace with No. 13 stops (1-2893A No. 13) where carriage is to feed and tabulate.
9. Set No. 13 stops so it will pull in 1-3310 Fte. 10,000 just far enough to cause 1-3318B to lock in 3310¼ on edge only.
10. When 1-3310 Fte. 10,000 pulls in 1-3318B too far, grind 3310 Fte. 10,000 on inside contact point with No. 13 stop.
11. Set No. 13 stops so they will clear top of 1-3310 Fte. 10,000 till they come to contact point.
12. See that lower or guide end of 1-3310 Fte. 10,000 clears 1-3313¾A.

Class 1

3200 SECTION

Automatic Cross Tabulator Mechanism



Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls
Refer to page 20 for Symbol Number on Base

(*) Parts not supplied

Class 1

Spring Drum 1-3268 and 1-3368
(Discarded)

Complete spring drums under the above mentioned symbol numbers have been discarded, and in their place will be used the following parts:

Complete spring drum for automatic carriage, Symbol No. 2-3223½.

Complete spring drum for semi-automatic carriage, Symbol No. 2-3323½. Styles 13 and 17.

Use Style 13 for Styles 7, 9, 11, 15.

The improved spring barrel section is equipped with a punching Symbol No. 1-3223½, which replaces the casting 3268. The new construction allows a replacement of the spring barrel section without lowering the back plate or removing the carriage due to the accessibility of the screws which bind the punching 1-3223½ to the back plate.

To replace 1-3268 on the automatic carriage construction, use 2-3223½, 1-3290½A, and two screws 3261B.

To replace 1-3368 on semi-automatic carriage construction, use 2-3323½, 1A-203902, and two screws 3361¼A.

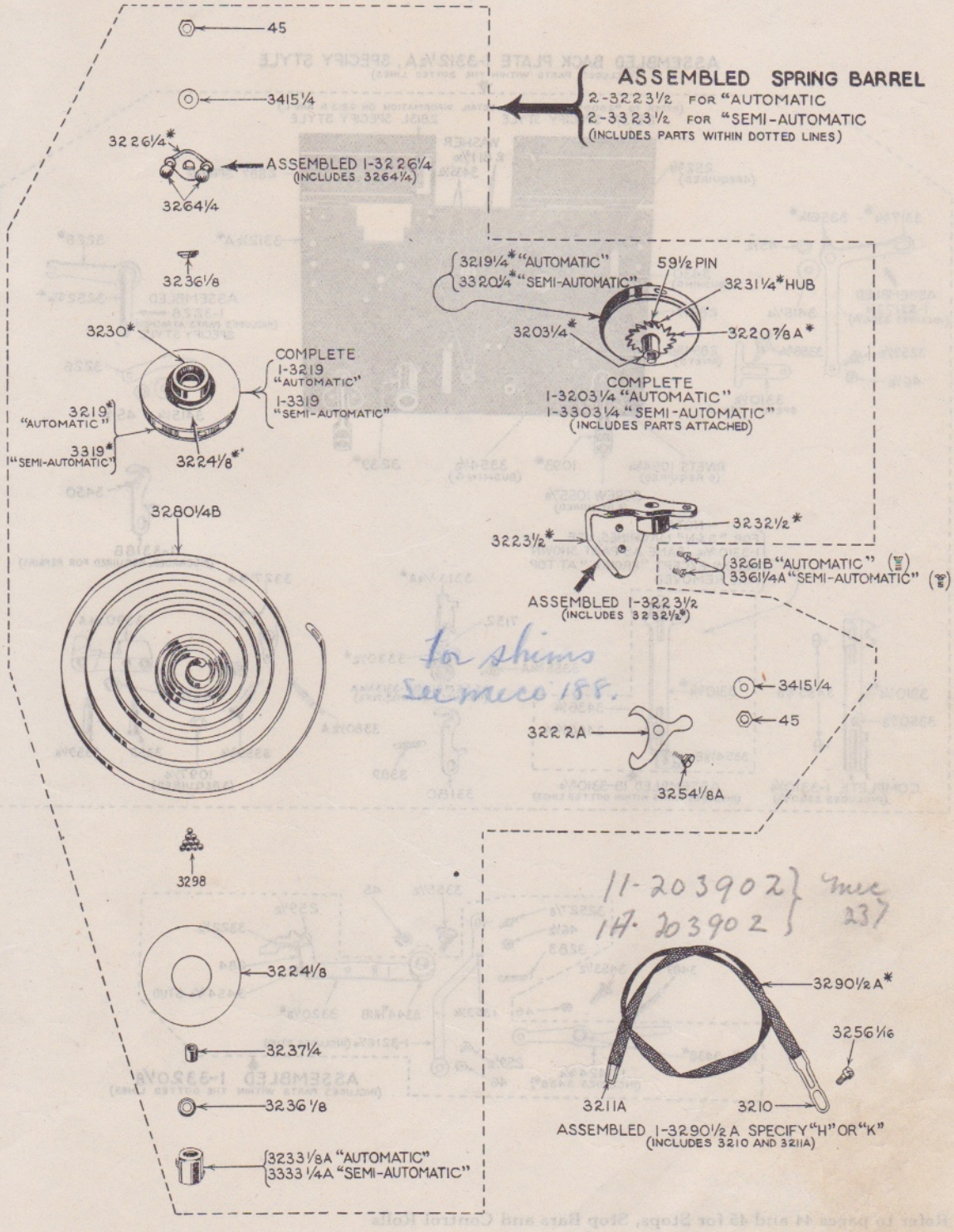
It will be necessary to ream out the tapped hole in the back plates and drill an additional hole for the upper screw in the back plate for New 1-3223½.

Carriage Castings
Z castings available
ACT mec 236

Class 1

3200 SECTION

Spring Barrel Mechanism for AC and SACT Carriages

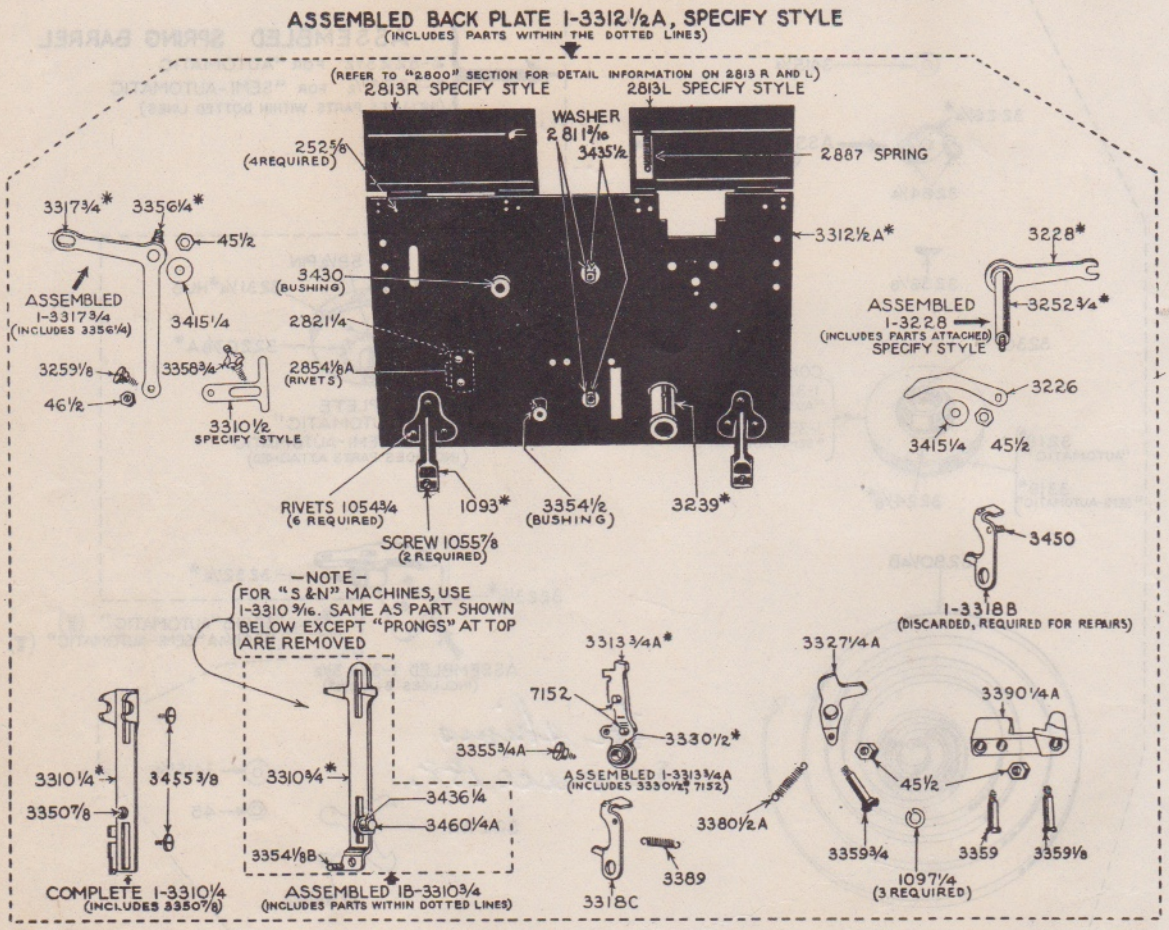


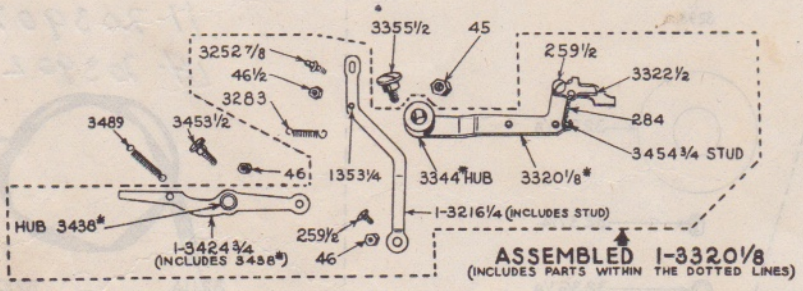
(*) Parts not supplied

Class 1

3300 SECTION

Semi-automatic Cross Tabulator Mechanism





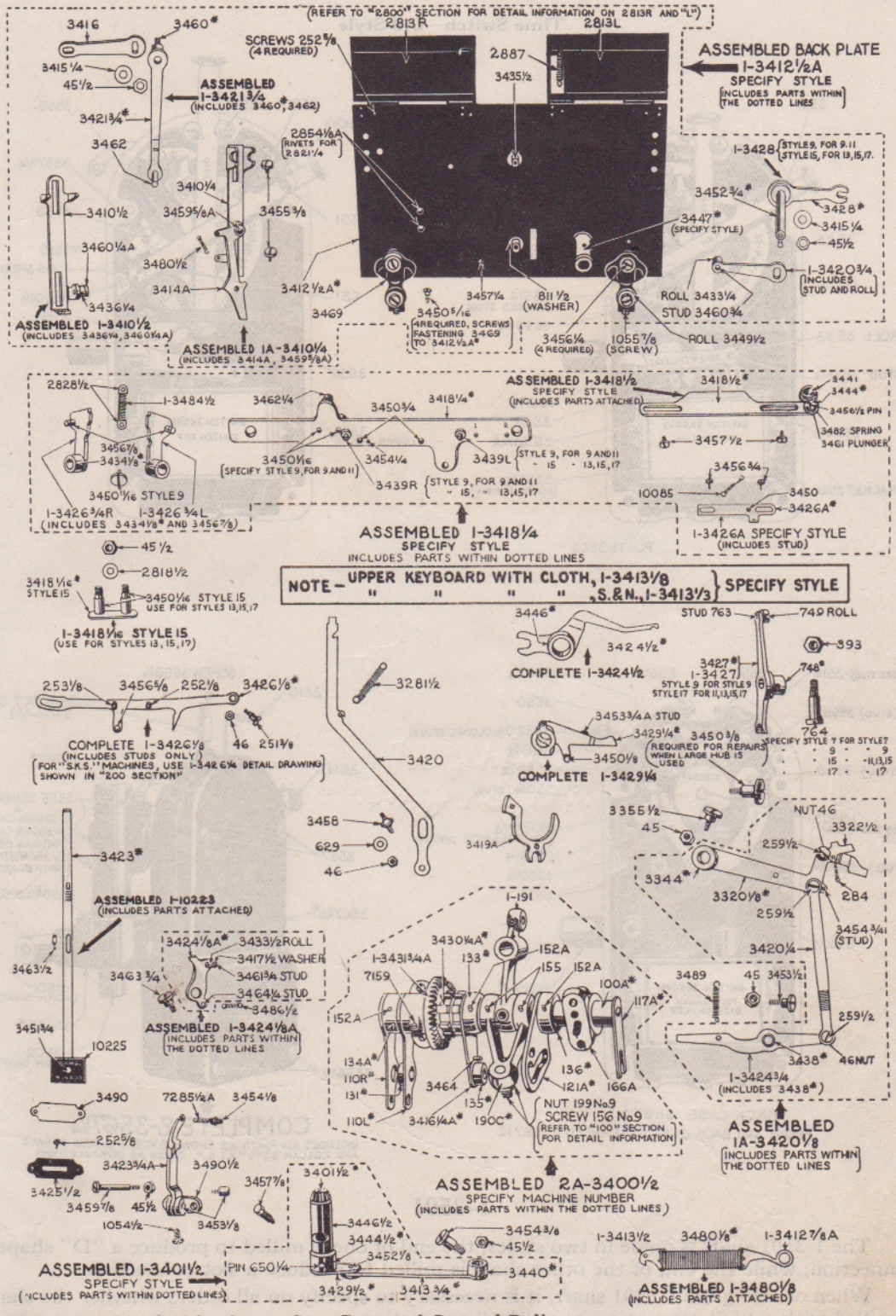
Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

(*) Parts not supplied

Class 1

3400 SECTION

Shuttle Carriage Counter Control Mechanism



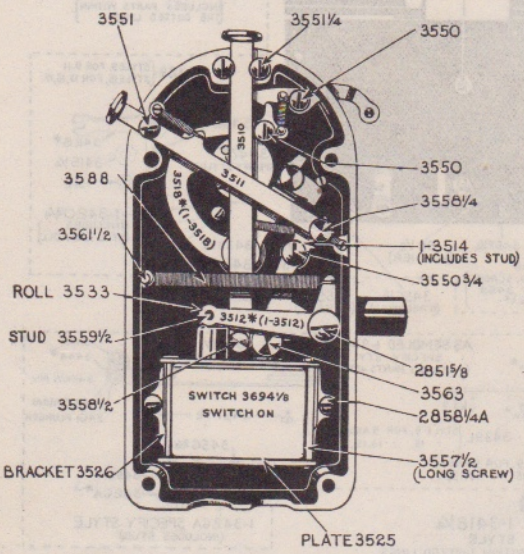
Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls
Refer to page 20 for Symbol Number on Base

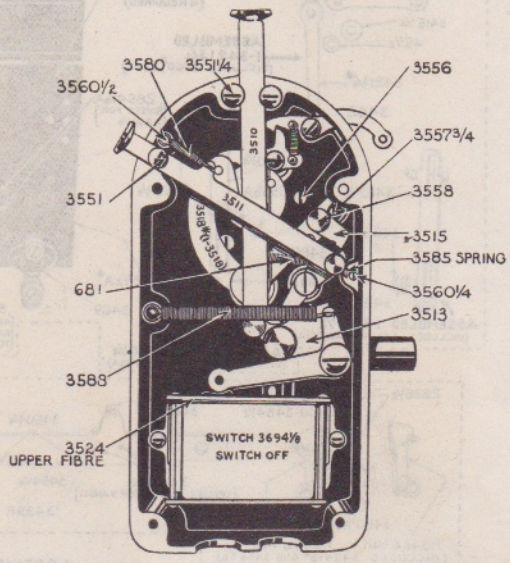
(*) Parts not supplied

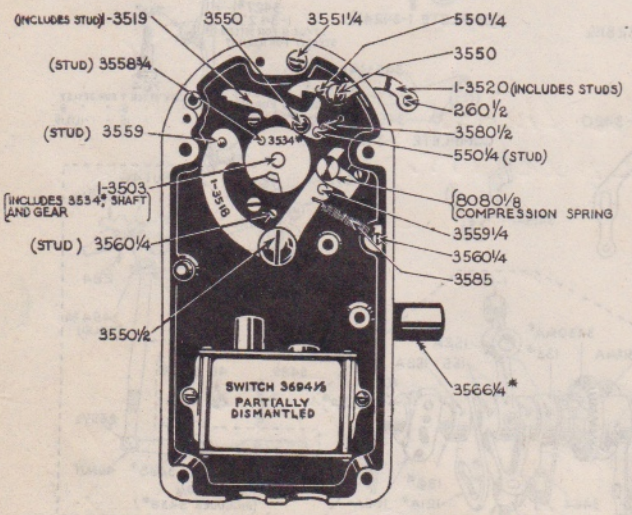
Class 1

3500 SECTION

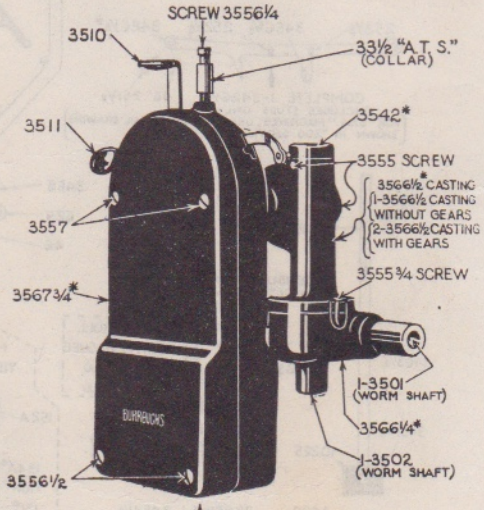
Time Switch—Old Style







BACK CASE 3567¼*
FRONT AND BACK CASE ASSEMBLED 1-3567¼



COMPLETE 2-3567¼
INCLUDES ALL PARTS AS SHOWN EXCEPT SCREW 3556¼ AND COLLAR 33½ "A.T.S.". ORDER AS SEPARATE ITEMS

1-3501

The 1-3501 shaft is made in two styles, the end of one is milled to produce a "D" shaped connection, while the end of the other shaft is milled to produce a slot connection.

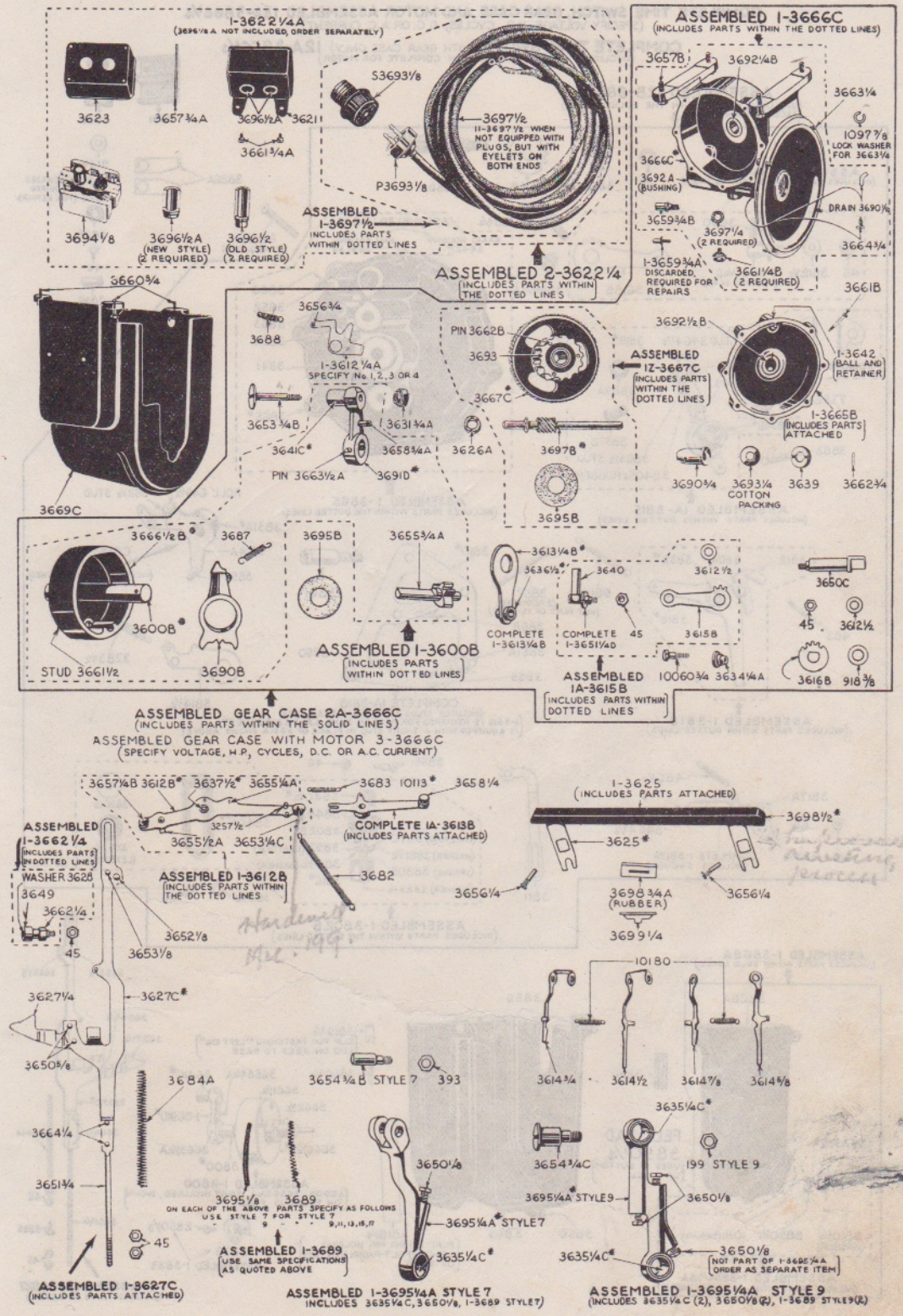
When ordering the 1-3501 shaft, it is necessary to specify on all orders whether the shaft is milled with a "D" connection or a "slot" connection.

(*) Parts not supplied

Class 1

3600 SECTION

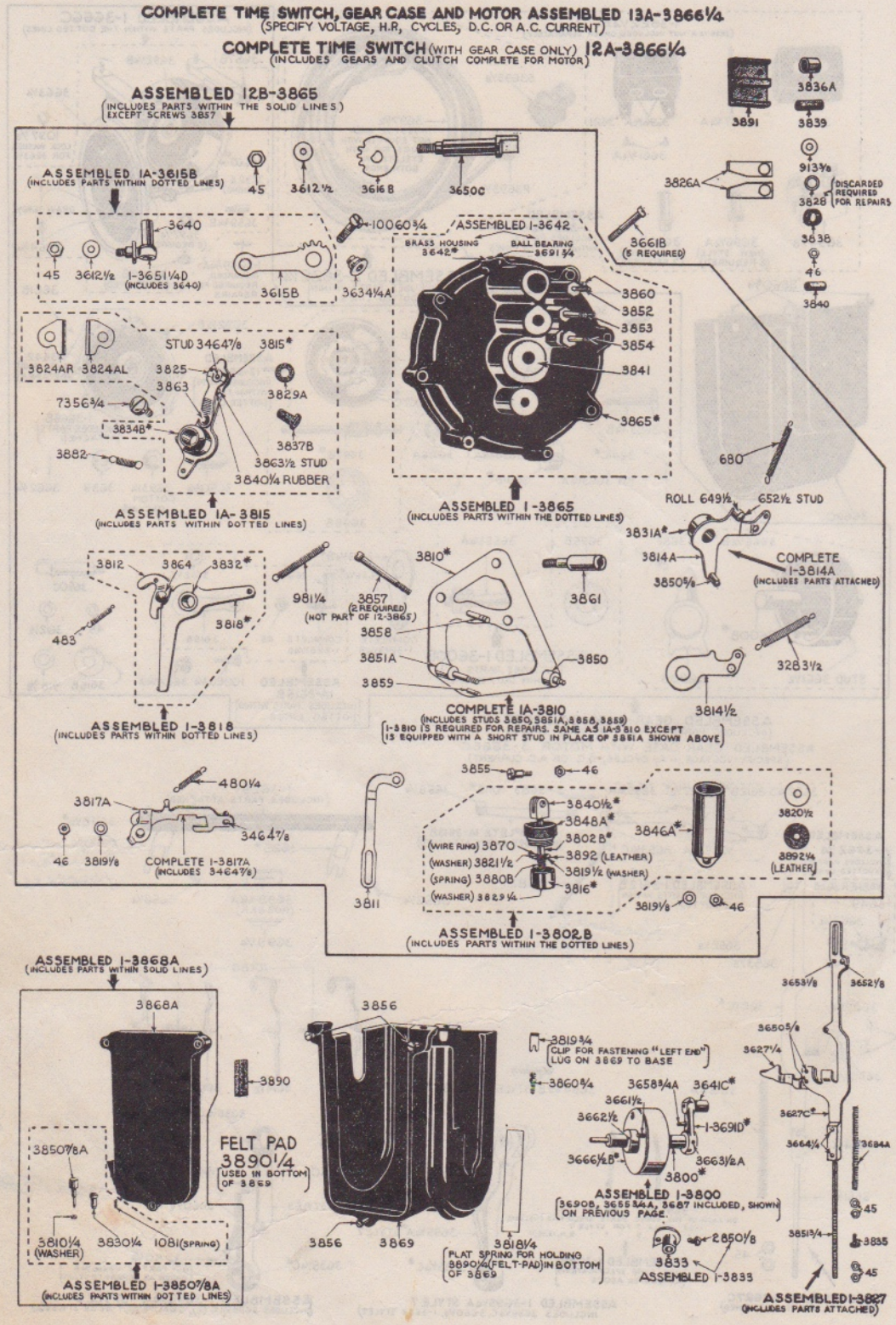
Electric Drive (Not Motors)



(*) Parts not supplied

Class 1

3800 SECTION

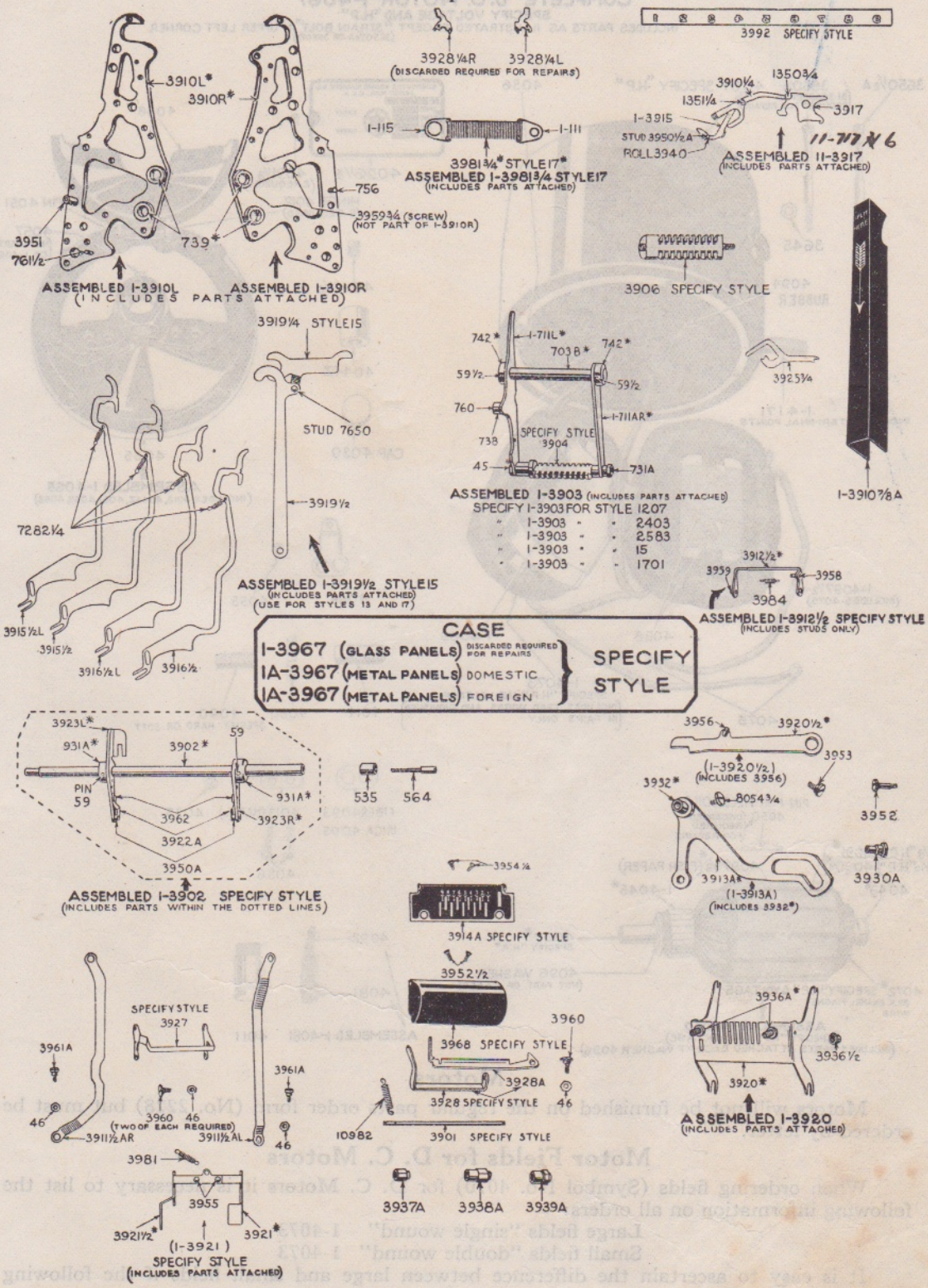


(*) Parts not supplied

Class 1

3900 SECTION

Unlimited Split Mechanism



NOTE—Refer to page 20 for Symbol Number on Case

(*) Parts not supplied

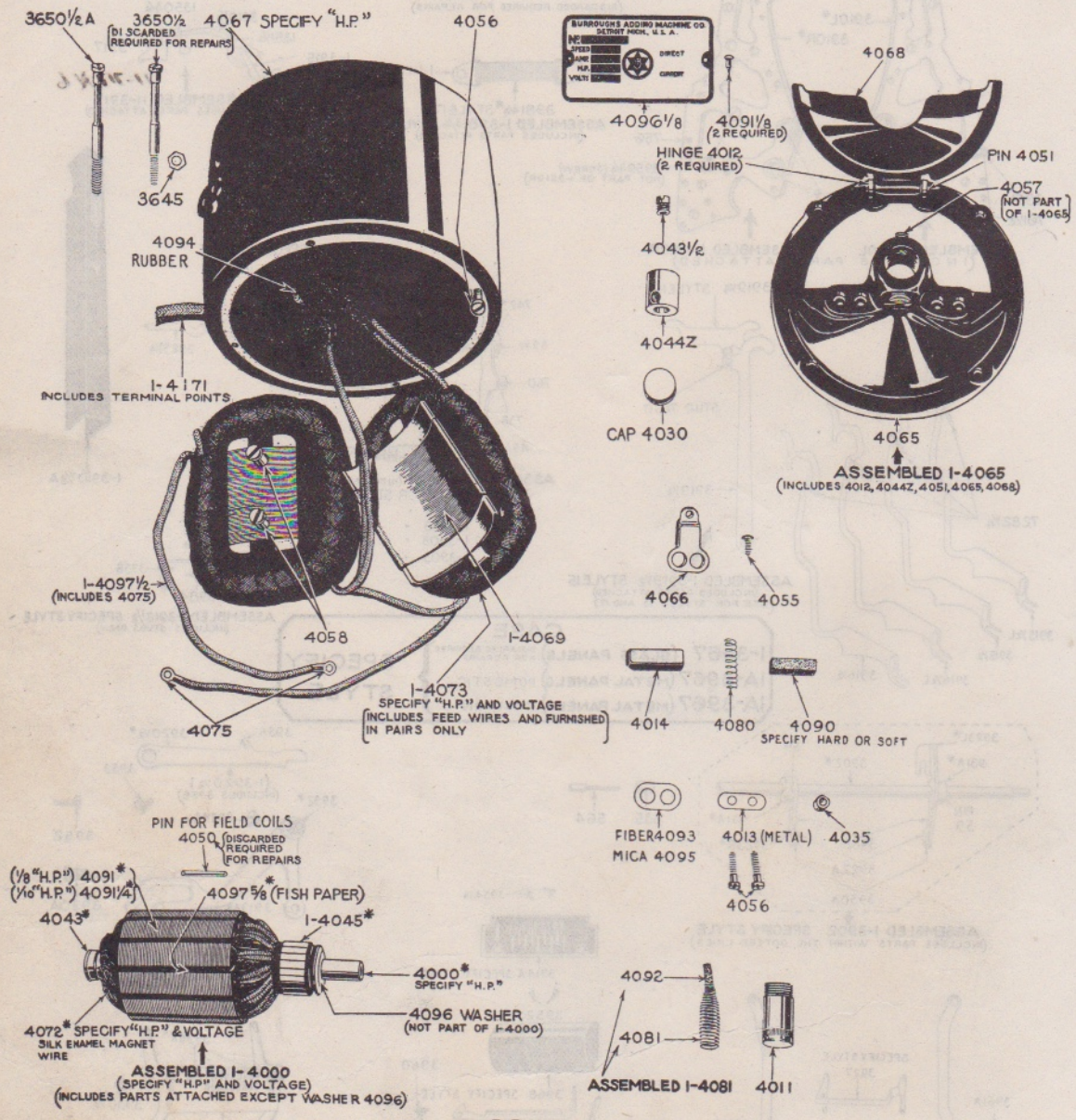
Class 1

4000 SECTION

COMPLETE D.C. MOTOR 1-4067

SPECIFY VOLTAGE AND "H.P"

INCLUDES PARTS AS ILLUSTRATED EXCEPT "STRAIN BOLT" IN UPPER LEFT CORNER (3650½A OR 3650½)



Motors

Motors will not be furnished on the regular parts order form (No. 2228) but must be ordered by letter.

Motor Fields for D. C. Motors

When ordering fields (Symbol No. 4070) for D. C. Motors it is necessary to list the following information on all orders:

Large fields "single wound" 1-4073
Small fields "double wound" 1-4073

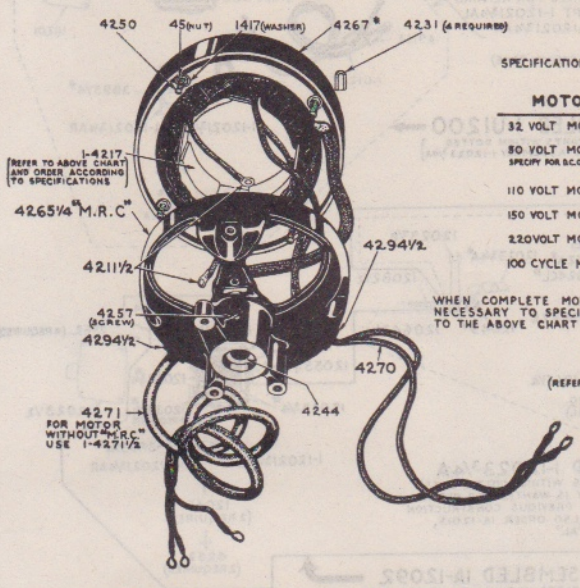
It is easy to ascertain the difference between large and small fields if the following instructions are adhered to:

Large field, single wound, held in motor with a pin.
Small field, double wound, held in motor with two screws.

(*) Parts not supplied

Class 1

Type 2 Motor



SPECIFICATIONS CHART FOR TYPE 2 MOTORS AND THEIR COMPONENT PARTS

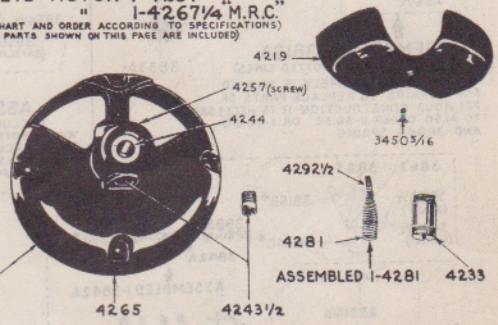
MOTORS	CURRENT	VOLTAGE	CYCLES	M.R.C. RESISTANCE (OHMS)
32 VOLT MOTOR	D.C. ONLY	32 TO 42		2.2,3.
80 VOLT MOTOR SPECIFY FOR D.C. OR A.C. CURRENT	D.C. ONLY A.C. ONLY	45 TO 65 50 TO 60	25 TO 80	SPECIAL SPECIAL
110 VOLT MOTOR	D.C. & A.C.	85 TO 125	25 TO 80	7.5, 10, 15, 20, 25.
150 VOLT MOTOR	D.C. & A.C.	130 TO 160	25 TO 80	20, 25, 30, 40.
220 VOLT MOTOR	D.C. & A.C.	175 TO 260	25 TO 80	30, 40, 60, 80, 100
100 CYCLE MOTOR	A.C. ONLY	SPECIFY 110 OR 220 VOLTS	80 TO 133	SPECIAL

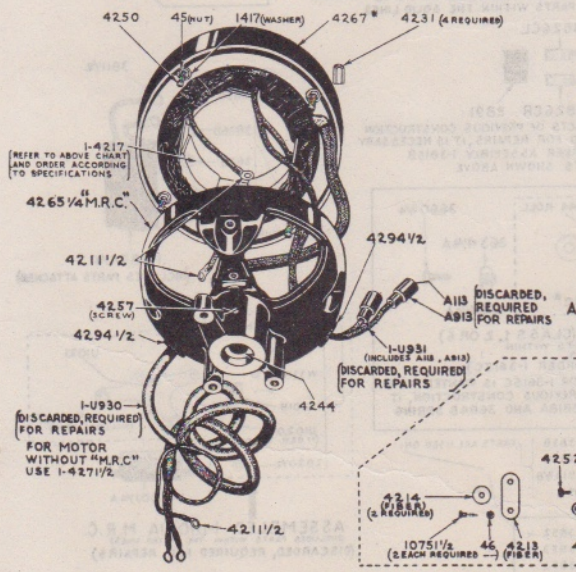
SPECIFICATIONS UNDER HEADING "M.R.C. RESISTANCE" ARE ESSENTIAL ONLY WHEN 1-U1001A M.R.C. AND 1-U1001¼A ARE USED

PARTS WILL BE FOUND ON REVERSE SIDE OF THIS PAGE, LOWER RIGHT HAND CORNER

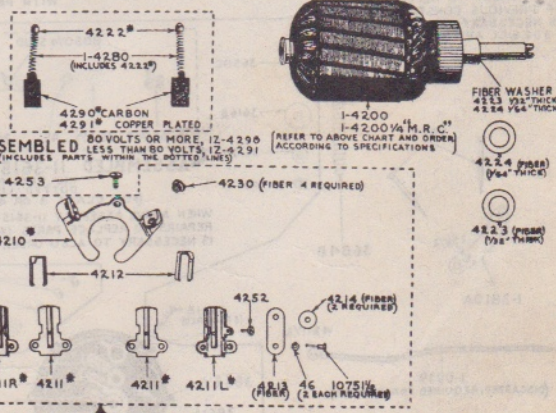
WHEN COMPLETE MOTORS OR THEIR COMPONENT PARTS ARE ORDERED AND IT IS NECESSARY TO SPECIFY VOLTAGE, CYCLES AND CURRENT, **ALWAYS** REFER TO THE ABOVE CHART AND FOLLOW SPECIFICATIONS IMPLICITLY

COMPLETE MOTOR 1-4267
" " 1-4267¼ "M.R.C."
(REFER TO ABOVE CHART AND ORDER ACCORDING TO SPECIFICATIONS)
(ALL PARTS SHOWN ON THIS PAGE ARE INCLUDED)



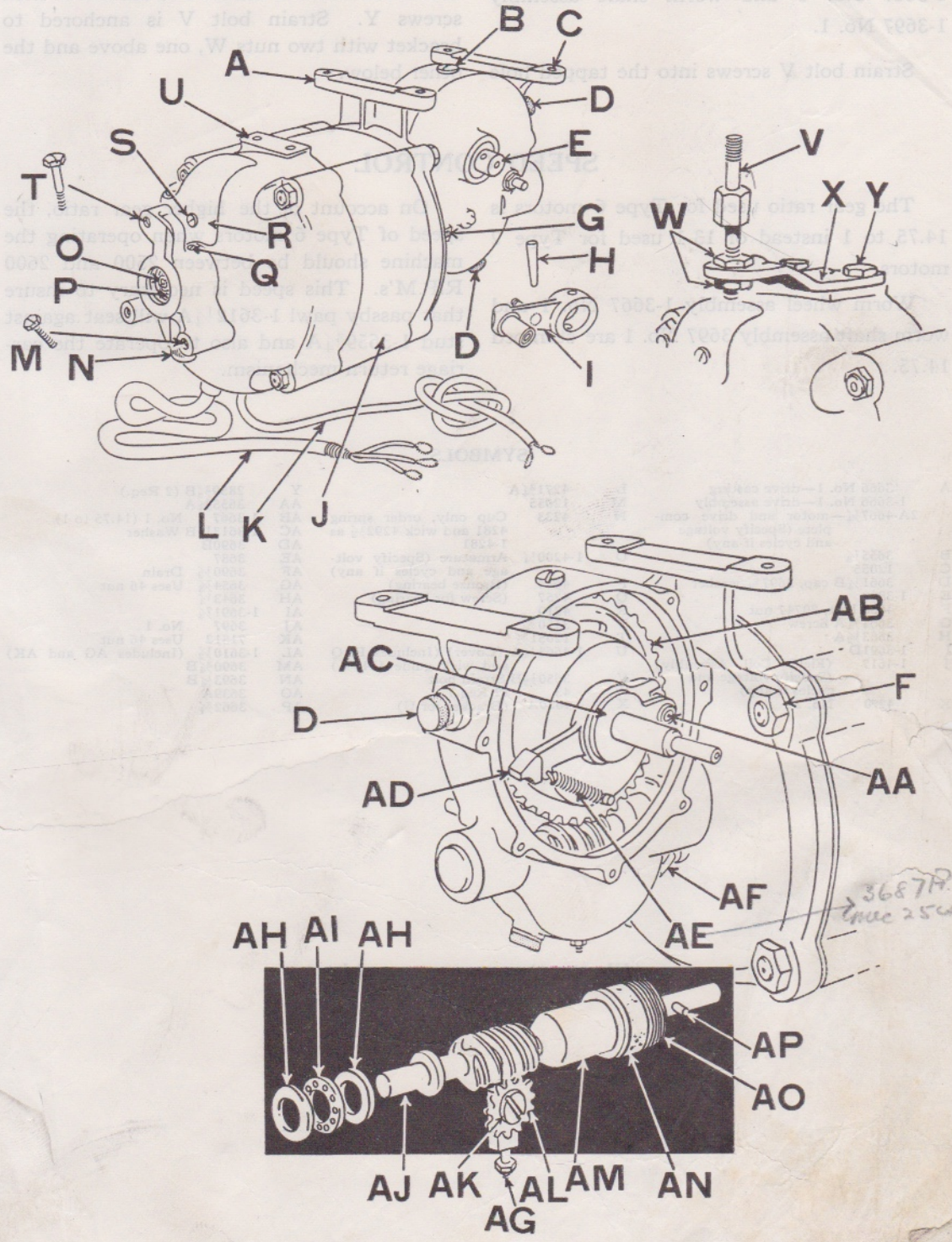


Cleaning Brushes
Mec 209.



New Style Brush holder
Use screw 1054 1/2 Mec 22 c4

Type 6 Motor and Drive for Classes 11-16, 20-26 and 30 Machines



Type 6 Motor and Drive for Classes 11-16, 20-26 and 30 Machines

This motor has worm wheel assembly 1-3667 No. 1 and worm shaft assembly 1-3697 No. 1.

Strain bolt V screws into the tapped hole in the base from below, passes into a hole in bracket X which is fastened to the motor with screws Y. Strain bolt V is anchored to bracket with two nuts W, one above and the other below.

SPEED CONTROL

The gear ratio used for Type 6 motors is 14.75 to 1 instead of 13-1 used for Type 2 motors.

Worm wheel assembly 1-3667 No. 1 and worm shaft assembly 3697 No. 1 are stamped 14.75.

On account of the higher gear ratio, the speed of Type 6 motors when operating the machine should be between 2500 and 2600 R.P.M's. This speed is necessary to insure that passby pawl 1-3612¼A will seat against stud 1-3659¾A and also to operate the carriage return mechanism.

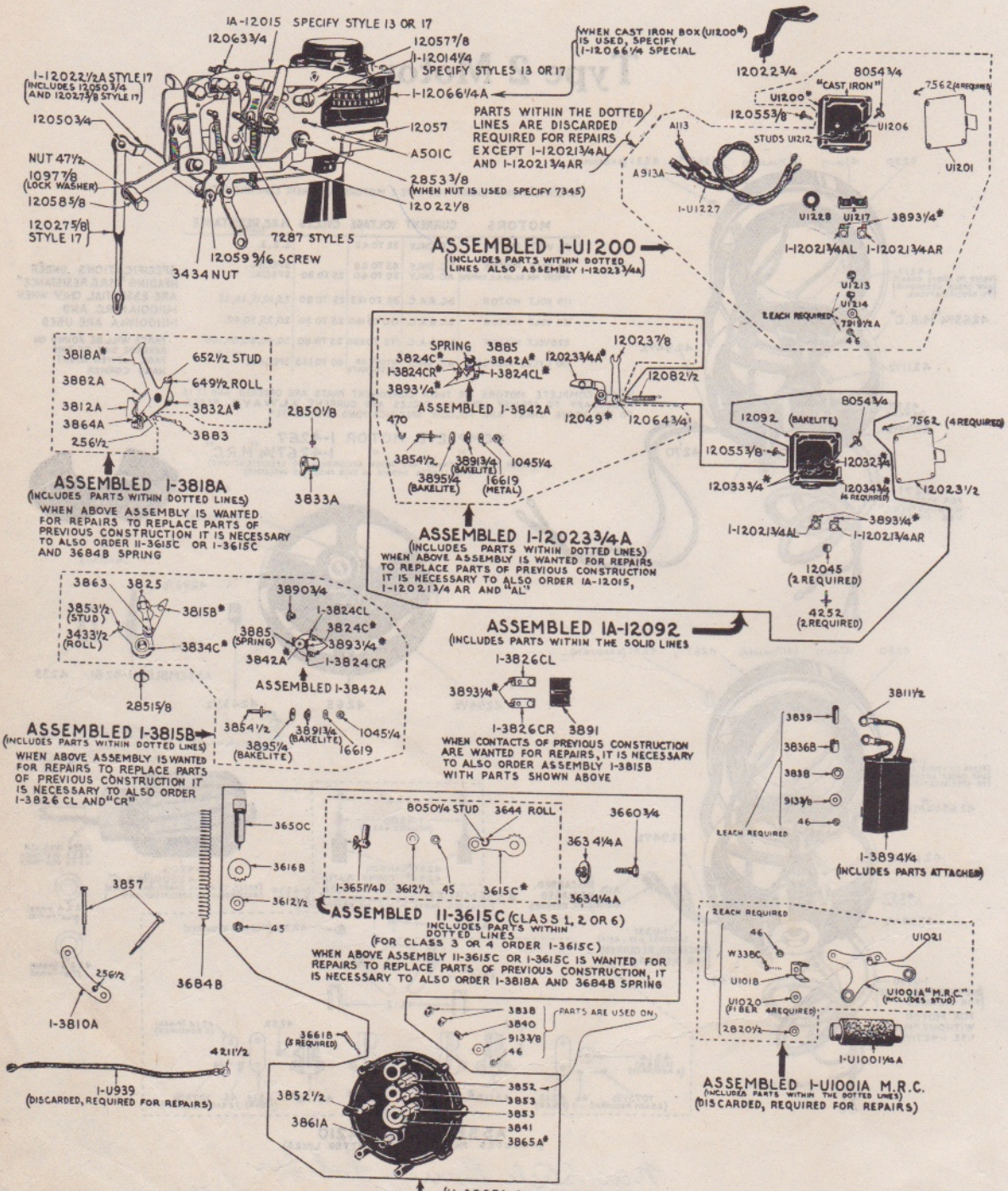
SYMBOLS

A	3666 No. 1	—drive casting
	1-3666 No. 1	—drive assembly
	2A-4667¼	—motor and drive complete (Specify voltage and cycles if any)
B	3655⅞	
C	12055	
D	3661¼B cap, 3697¼ washer	
E	1-3800	
F	4650 bolt, 20747 nut	
G	3664¾A Screw	
H	3663½A	
I	1-3691D	
J	1-4617	(Field Coil Assembly) (Specify voltage and cycles if any)
K	4270	No. 2
L	4271¾A	
M	12055	
N	4233	Cup only, order spring 4281 and wick 4292½ as 1-4281
O	1-4200¼	Armature (Specify voltage and cycles if any)
P	4644	(Bronze bearing)
Q	4257	(Screw for bearing)
R	4219	
S	3450 5/16	
T	12051¾	
U	1-4665¼A	(Cover) (Includes P, Q and wick guide 4243½)
V	3650½B	Strain bolt
W	45	(2 Req.)
X	4620A	(Bracket for U)
Y	2859⅜B	(2 Req.)
AA	3655¾A	
AB	1-3667	No. 1 (14.75 to 1)
AC	1-3613¼B	Washer
AD	3690B	
AE	3687	
AF	3690½	Drain
AG	3654⅞	Uses 46 nut
AH	3643¼	
AI	1-3691⅞	
AJ	3697	No. 1
AK	71512	Uses 46 nut
AL	1-3610½	(Includes AG and AK)
AM	3690¾B	
AN	3693¼B	
AO	3639A	
AP	3662¾	

(Illustration on reverse side)

Produced by Burroughs, Detroit, Michigan

Class 1


1A-12015 SPECIFY STYLE 13 OR 17
12063 3/4
12057 7/8
1-12014 1/4 SPECIFY STYLES 13 OR 17
1-12066 1/4 A
WHEN CAST IRON BOX (U1200*) IS USED, SPECIFY 1-12066 1/4 SPECIAL
1-12022 1/2 A STYLE 17 (INCLUDES 12050 3/4 AND 12027 5/8 STYLE 17)
12050 3/4
12057
A501C
NUT 47 1/2
1097 7/8 (LOCK WASHER)
12058 5/8
12027 5/8 STYLE 17
2853 3/8 (WHEN NUT IS USED SPECIFY 7345)
12022 1/8
7287 STYLE 5
12059 3/16 SCREW
3434 NUT
PARTS WITHIN THE DOTTED LINES ARE DISCARDED REQUIRED FOR REPAIRS EXCEPT 1-12021 3/4 AL AND 1-12021 3/4 AR
12022 3/4
8054 3/4
"CAST IRON"
7562 (4 REQUIRED)
U1200*
12055 3/8
U1206
STUDS U1212
U1201
A113
A913A
1-U1227
U1228
U1217
3893 1/4*
1-12021 3/4 AL
1-12021 3/4 AR
ASSEMBLED 1-U1200
(INCLUDES PARTS WITHIN DOTTED LINES ALSO ASSEMBLY 1-12023 3/4 A)
U1213
U1214
2 EACH REQUIRED
7913 1/2 A
46
3818A*
652 1/2 STUD
3882A
649 1/2 ROLL
3812A
3832A*
3864A
3883
256 1/2
ASSEMBLED 1-3818A
(INCLUDES PARTS WITHIN DOTTED LINES)
WHEN ABOVE ASSEMBLY IS WANTED FOR REPAIRS TO REPLACE PARTS OF PREVIOUS CONSTRUCTION IT IS NECESSARY TO ALSO ORDER 11-3615C OR 1-3615C AND 3684B SPRING
2850 1/8
3833A
SPRING 3885
3824C*
3842A*
12023 3/4 A*
1-3824CR*
1-3824CL*
3893 1/4*
12082 1/2
ASSEMBLED 1-3842A
12049*
12064 3/4
470
3854 1/2
3891 3/4 (BAKELITE)
1045 1/4
3895 1/4 (BAKELITE)
16619 (METAL)
ASSEMBLED 1-12023 3/4 A
(INCLUDES PARTS WITHIN DOTTED LINES)
WHEN ABOVE ASSEMBLY IS WANTED FOR REPAIRS TO REPLACE PARTS OF PREVIOUS CONSTRUCTION IT IS NECESSARY TO ALSO ORDER 1A-12015, 1-12021 3/4 AR AND "AL"
12092 (BAKELITE)
8054 3/4
7562 (4 REQUIRED)
12055 3/8
12032 3/4
12033 3/4*
12034 3/4 (6 REQUIRED)
12023 1/2
3893 1/4*
1-12021 3/4 AL
1-12021 3/4 AR
12045 (2 REQUIRED)
4252 (2 REQUIRED)
ASSEMBLED 1A-12092
(INCLUDES PARTS WITHIN THE SOLID LINES
3863
3825
3853 1/2 (STUD)
3433 1/2 (ROLL)
3815B*
3834C*
2851 5/8
ASSEMBLED 1-3815B
(INCLUDES PARTS WITHIN DOTTED LINES)
WHEN ABOVE ASSEMBLY IS WANTED FOR REPAIRS TO REPLACE PARTS OF PREVIOUS CONSTRUCTION IT IS NECESSARY TO ALSO ORDER 1-3826 CL AND "CR"
3890 3/4
1-3824CL
3885 (SPRING)
3824C*
3893 1/4*
3842A
1-3824CR
ASSEMBLED 1-3842A
3854 1/2
3891 3/4 (BAKELITE)
1045 1/4
3895 1/4 (BAKELITE)
16619
1-3826CL
3893 1/4*
1-3826CR
3891
WHEN CONTACTS OF PREVIOUS CONSTRUCTION ARE WANTED FOR REPAIRS, IT IS NECESSARY TO ALSO ORDER ASSEMBLY 1-3815B WITH PARTS SHOWN ABOVE
3811 1/2
3839
3836B
3838
913 3/8
46
2 EACH REQUIRED
1-3894 1/4
(INCLUDES PARTS ATTACHED)
3650C
3616B
3612 1/2
45
8050 1/4 STUD
3644 ROLL
3660 3/4
3634 1/4 A
1-3651 1/4 D
3612 1/2
45
3615C*
3634 1/4 A
ASSEMBLED 11-3615C (CLASS 1, 2 OR 6)
INCLUDES PARTS WITHIN DOTTED LINES
(FOR CLASS 3 OR 4 ORDER 1-3615C)
WHEN ABOVE ASSEMBLY 11-3615C OR 1-3615C IS WANTED FOR REPAIRS TO REPLACE PARTS OF PREVIOUS CONSTRUCTION, IT IS NECESSARY TO ALSO ORDER 1-3818A AND 3684B SPRING
3857
256 1/2
1-3810A
3684B
2 EACH REQUIRED
46
W338C
U1021
U1018
U1020 (FIBER 4 REQUIRED)
U1001A "M.R.C." (INCLUDES STUD)
2820 1/2
1-U1001 1/4 A
ASSEMBLED 1-U1001A M.R.C.
(INCLUDES PARTS WITHIN THE DOTTED LINES)
(DISCARDED, REQUIRED FOR REPAIRS)
3838
3840
913 3/8
46
PARTS ARE USED ON
3661B (3 REQUIRED)
4211 1/2
1-U939
(DISCARDED, REQUIRED FOR REPAIRS)
3852 1/2
3861A
3852
3853
3853
3841
3865A*
ASSEMBLED ~~11-3865A (CLASS 1, 2 & 6)~~ 1-3865A ~~(CLASS 3 & 4)~~ All Classes Meco 1376.
(REFER TO CLASS 3 SYMBOL LIST FOR DETAIL SYMBOLS ON CLASS 3 AND 4 MACHINES)

Type 2 Motor and Drive Complete with MRC Unit

Listed below are dash symbols covering the type 2 motor and drive with MRC unit, which have been provided for the convenience of ordering these assemblies without the necessity of preparing an itemized list.

20-4267¼ Style (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 2 and 6 machines *with* skip tabulation mechanism.

21-4267¼ Style (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 2 and 6 machines *without* skip tabulation mechanism.

22-4267¼ Style (11) (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 2 and 6 machines *with* selective Dr. and Cr. mechanism, but *without* selective column return mechanism.

23-4267¼ Style (11) (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 2 and 6 machines *with* selective Dr. and Cr. and selective column return mechanisms.

40-4267¼ Style (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 11, 12, 13, 14, 15, and 16 machines *with* skip tabulation mechanism.

41-4267¼ Style (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 11, 12, 13, 14, 15, and 16 machines *without* skip tabulation mechanism.

42-4267¼ Style (11) (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 11, 12, 13, 14, 15, and 16 machines *with* selective Dr. and Cr. mechanism, but *without* selective column return mechanism.

32-4267¼ Style (11) (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 11, 12, 13, 14, 15, and 16 machines *with* selective Dr. and Cr. and selective column return mechanisms.

Class 1

Type 2 Motor and Drive Complete with MRC Unit

Listed below are dash symbols covering the type 2 motor and drive with MRC unit, which have been provided for the convenience of ordering these assemblies without the necessity of preparing an itemized list.

20-4267 Style (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 2 and 6 machines with skip tabulation mechanism.

21-4267 Style (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 2 and 6 machines without skip tabulation mechanism.

22-4267 Style (11) (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 2 and 6 machines with selective Dr. and Cr. mechanism, but without selective column return mechanism.

23-4267 Style (11) (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 2 and 6 machines with selective Dr. and Cr. and selective column return mechanisms.

40-4267 Style (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 11, 12, 13, 14, 15, and 16 machines with skip tabulation mechanism.

41-4267 Style (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 11, 12, 13, 14, 15, and 16 machines without skip tabulation mechanism.

42-4267 Style (11) (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 11, 12, 13, 14, 15, and 16 machines with selective Dr. and Cr. mechanism, but without selective column return mechanism.

43-4267 Style (11) (13) (17) (H) (K) (Specify Volts)

Includes type 2 motor and drive, complete MRC unit and all connecting parts for Classes 11, 12, 13, 14, 15, and 16 machines with selective Dr. and Cr. and selective column return mechanisms.

Class 1

Insert No. 26 for Symbol List No. 105 Issued January 9, 1930

To be pasted over Insert No. 25 on Page 57. Insert No. 25 should be on Page 57

Starting Device 1-4140½

Holtzer-Cabot Alternating Current

(Formerly Symbolized 1-4140 and A903XX)

When ordering starting devices for Holtzer-Cabot Alternating Current Motors, specify by the R.P.M. number stamped on the starting device.

The number stamped on the starting device (1-4140½) is the revolutions per minute required to disengage the shoes from the commutator which is assembled on the motor back plate 1-4165.

(**Note—"R.P.M." Signifies Revolutions Per Minute**)

R.P.M. marked on starting device	R.P.M. marked on motor name plate 4196⅜
700	880, 970, 980 R.P.M.
900	1180, 1225, 1300, 1325, 1370 R.P.M.
1100	1470, 1570 R.P.M.
1300	1760, 1825, 1840, 1980 R.P.M.

Use starting device marked "700" for motors running between 850 R.P.M. to 1000 R.P.M.

Use starting device marked "900" for motors running between 1000 R.P.M. to 1370 R.P.M.

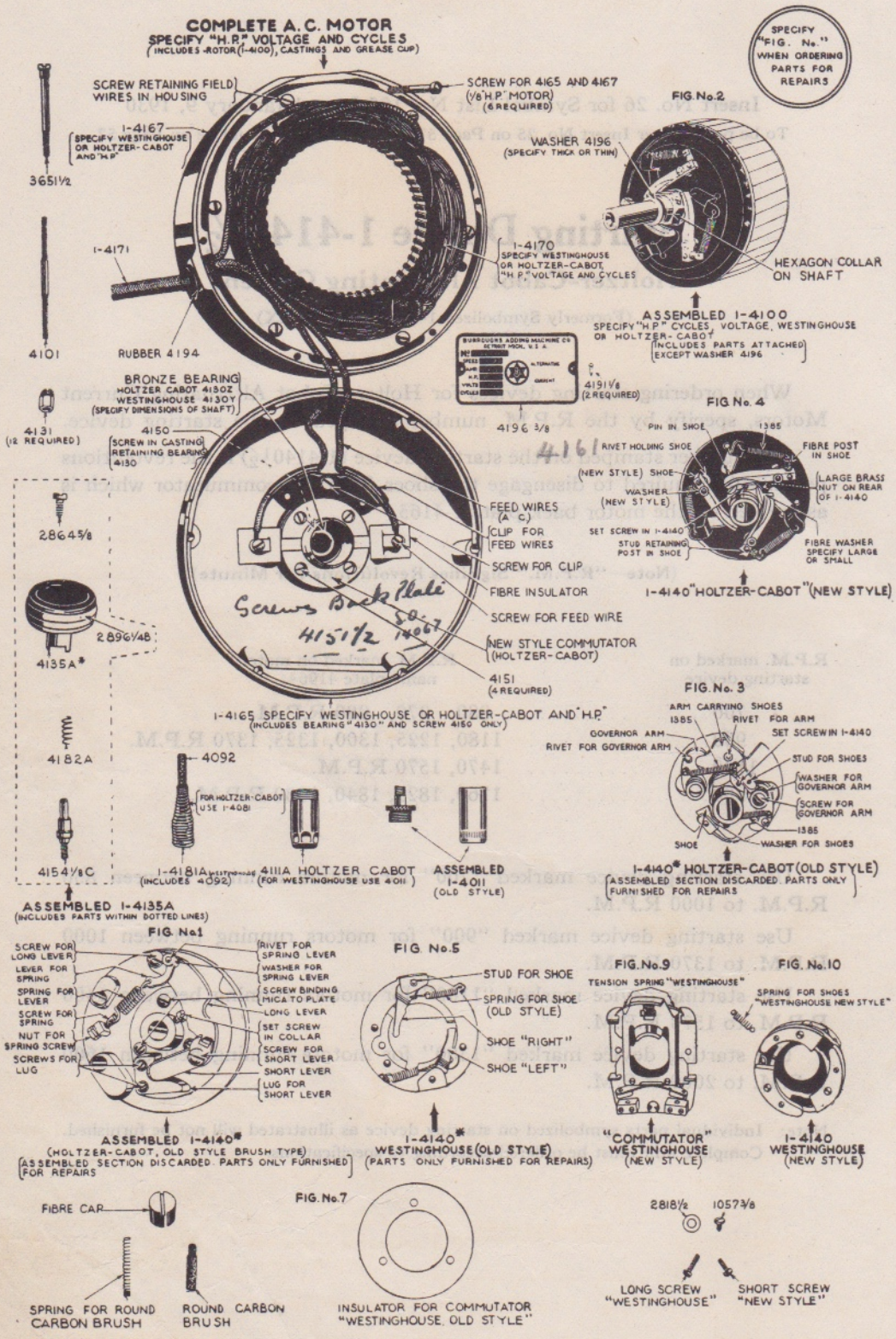
Use starting device marked "1100" for motors running between 1400 R.P.M. to 1570 R.P.M.

Use starting device marked "1300" for motors running between 1600 R.P.M. to 2000 R.P.M.

Note: Individual parts symbolized on starting device as illustrated will not be furnished. Complete unit must be ordered according to specifications.

Class 1

4100 SECTION

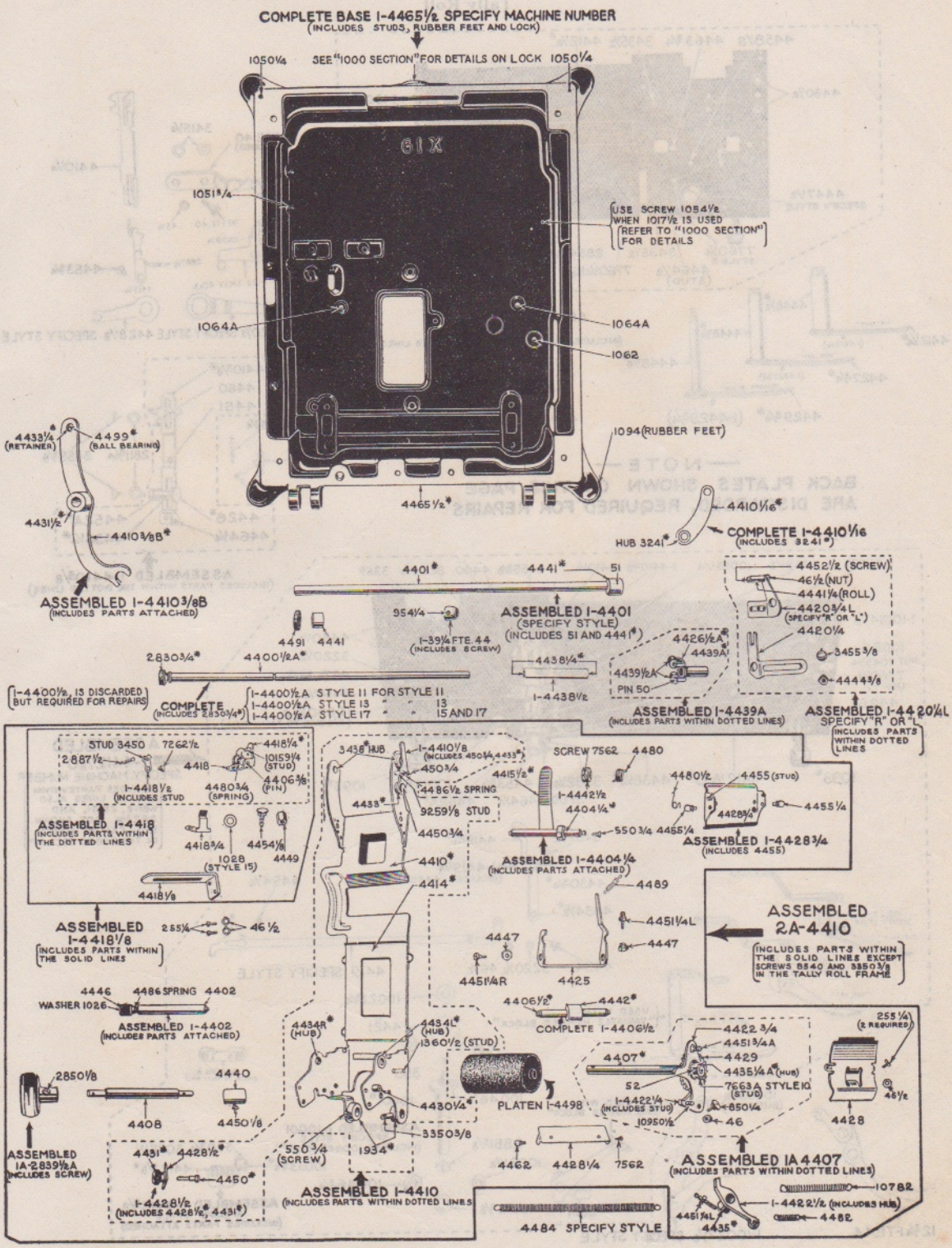


(*) Parts not supplied

Class 1

4400 SECTION

Tally Roll



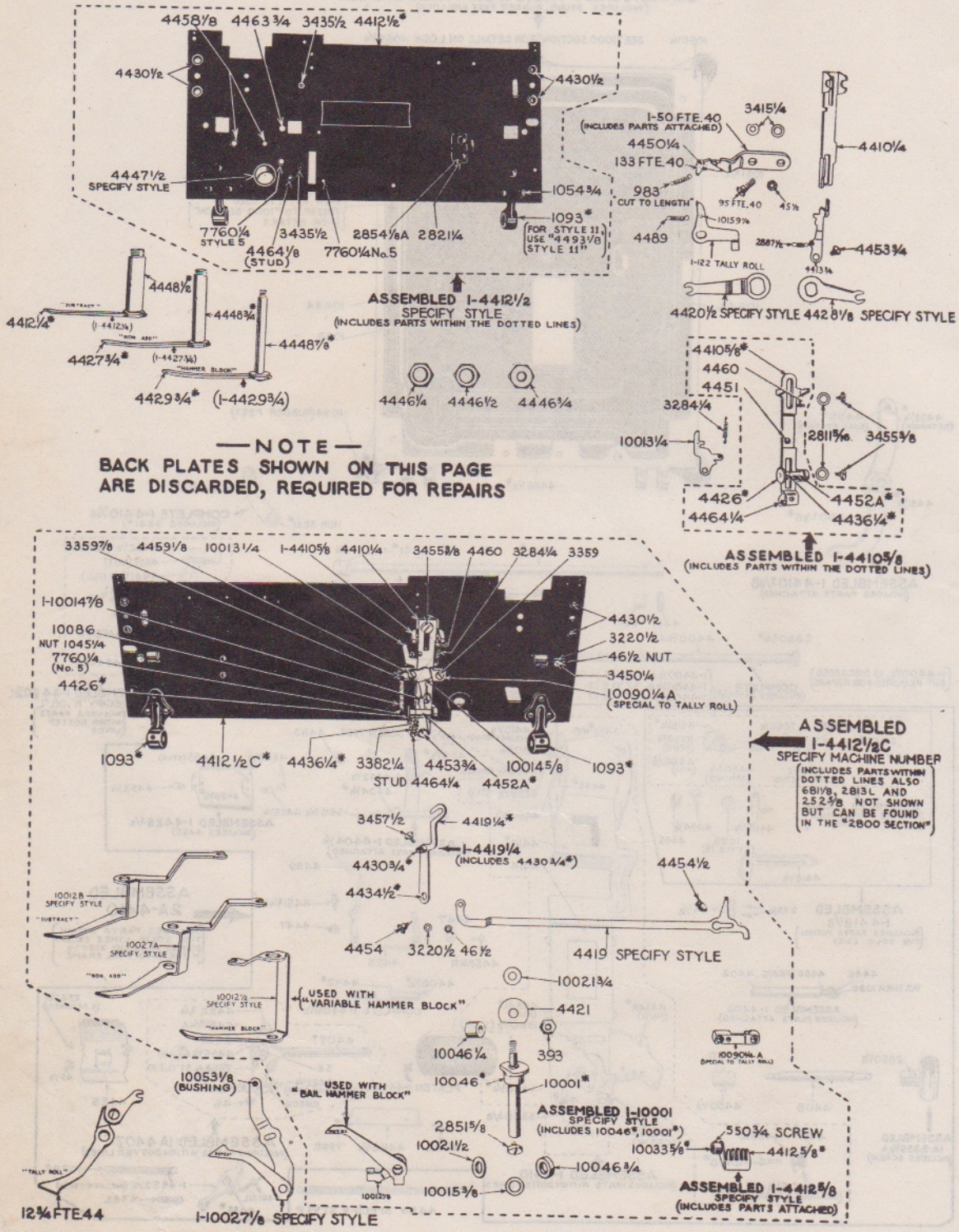
NOTE—Refer to page 20 "Bases and Cases" for Symbol Number on Case

(*) Parts not supplied

Class 1

4400 SECTION

Tally Roll



—NOTE—
BACK PLATES SHOWN ON THIS PAGE ARE DISCARDED, REQUIRED FOR REPAIRS

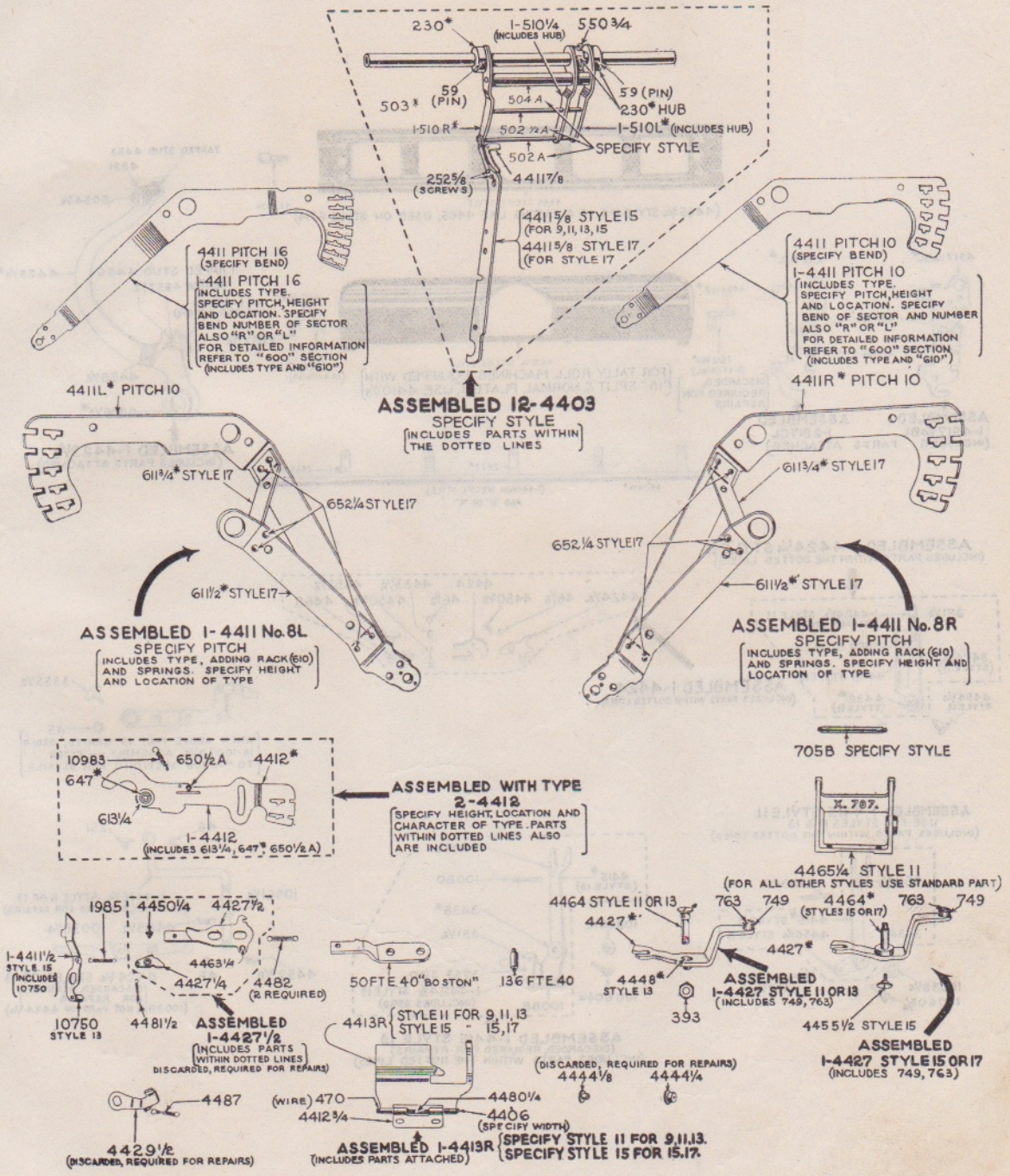
Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

(*) **Parts not supplied**

Class 1

4400 SECTION

Tally Roll



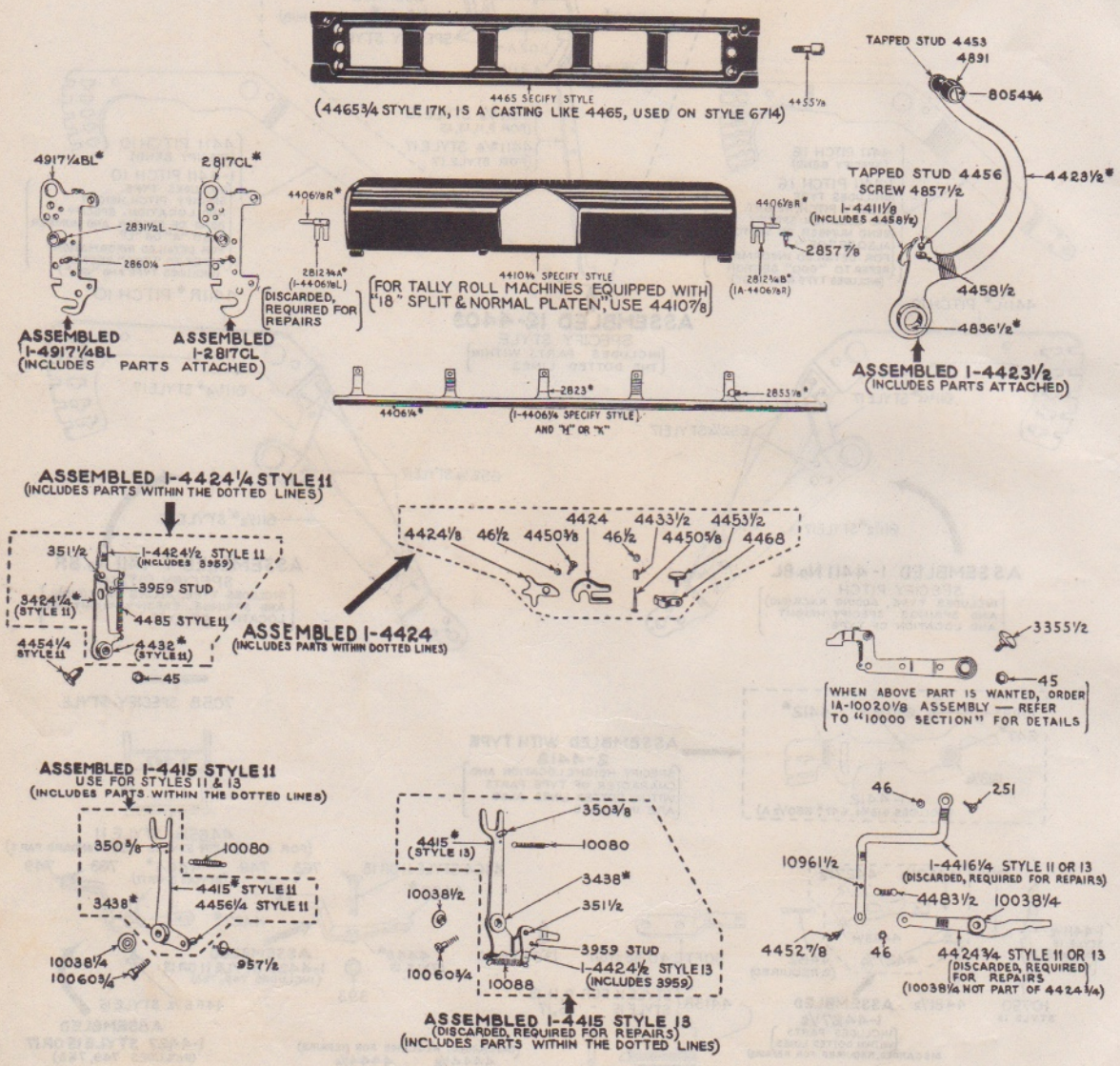
(*) Parts not supplied

Class 1

4400 SECTION

Tally Roll

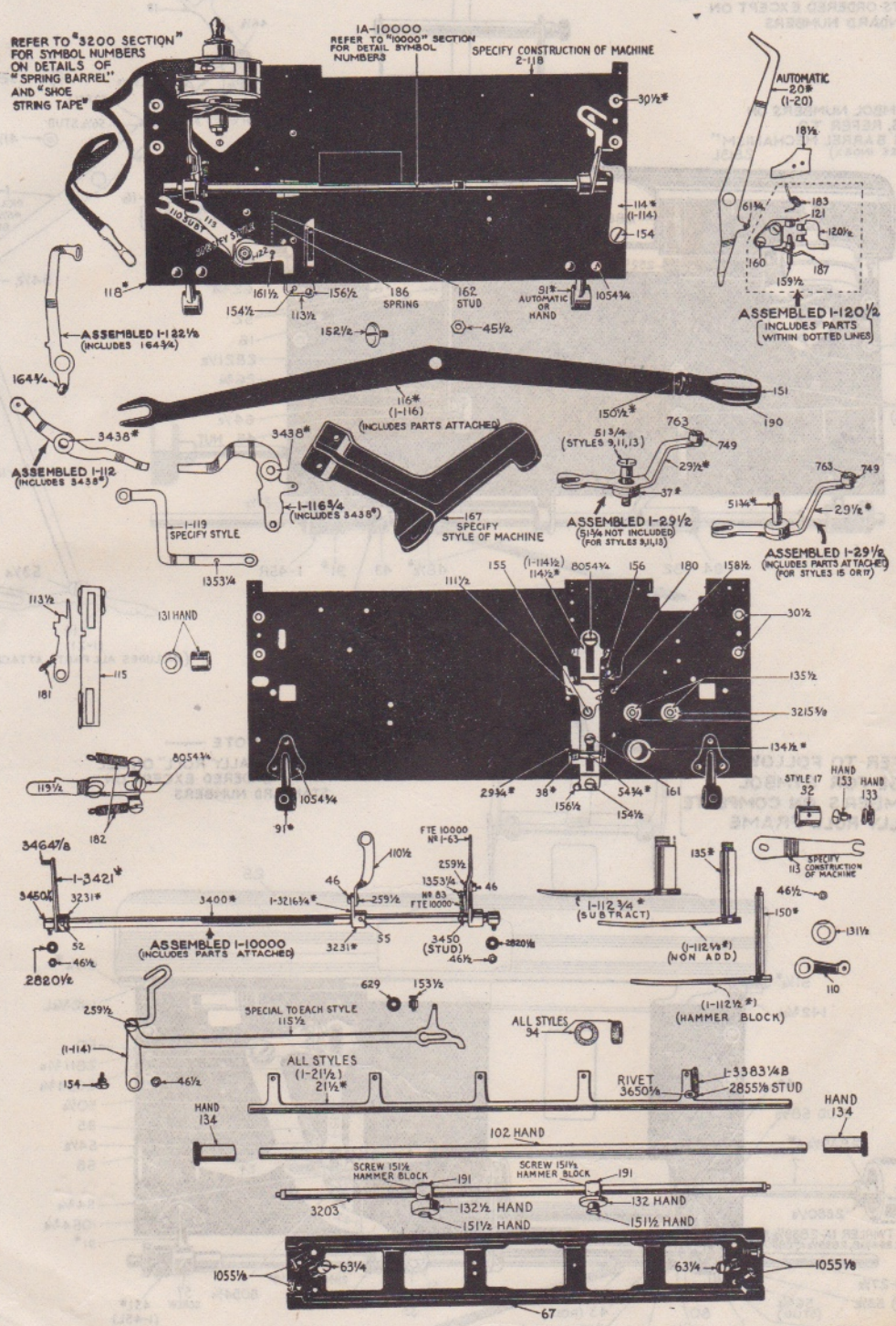
For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



(*) Parts not supplied

Class 1

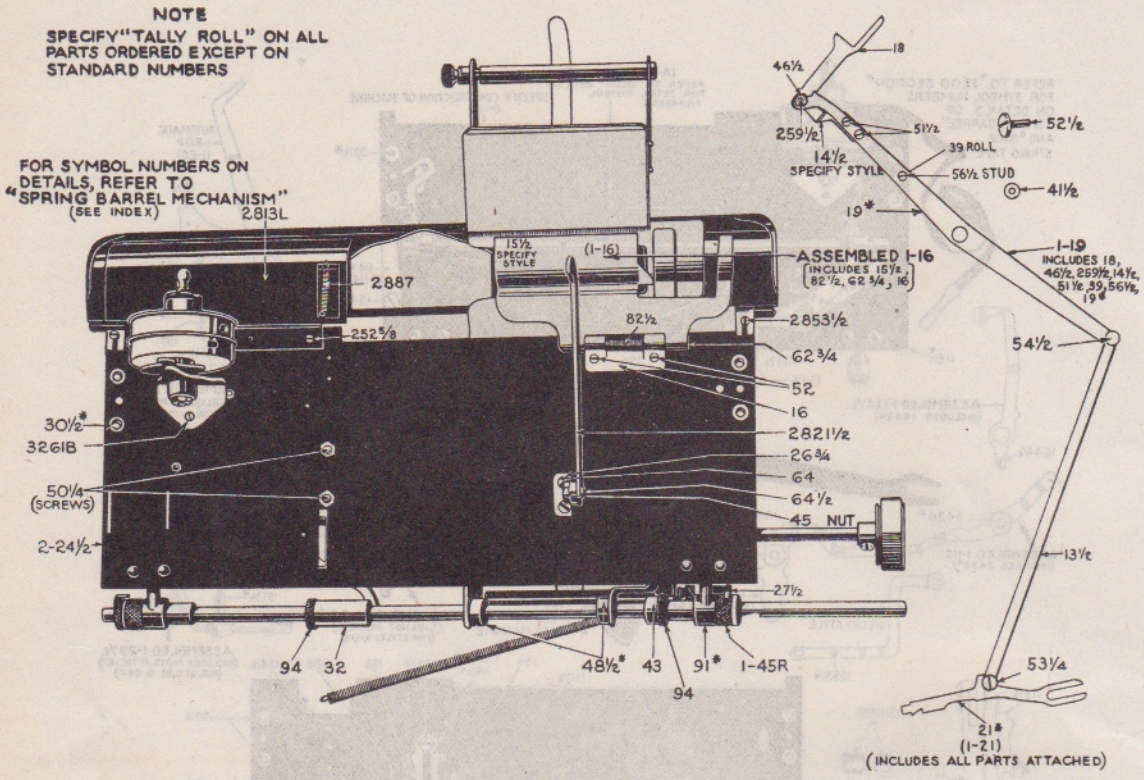
Old Style—Tally Roll

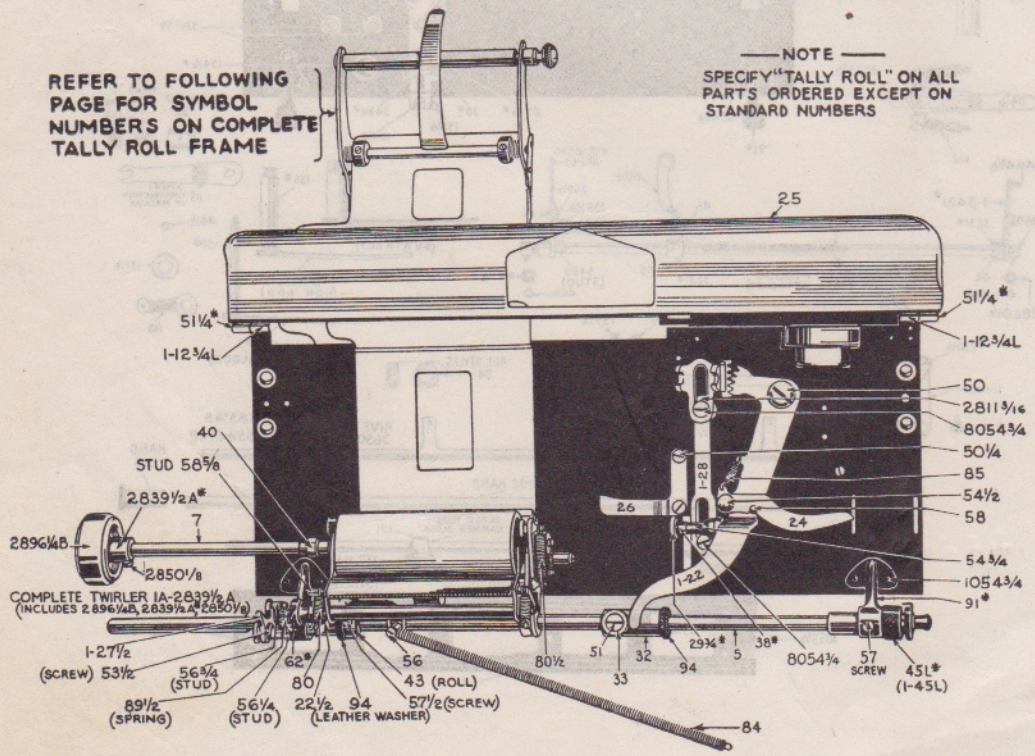


(*) Parts not supplied

Class 1

Old Style—Tally Roll





(*) Parts not supplied

Class 1

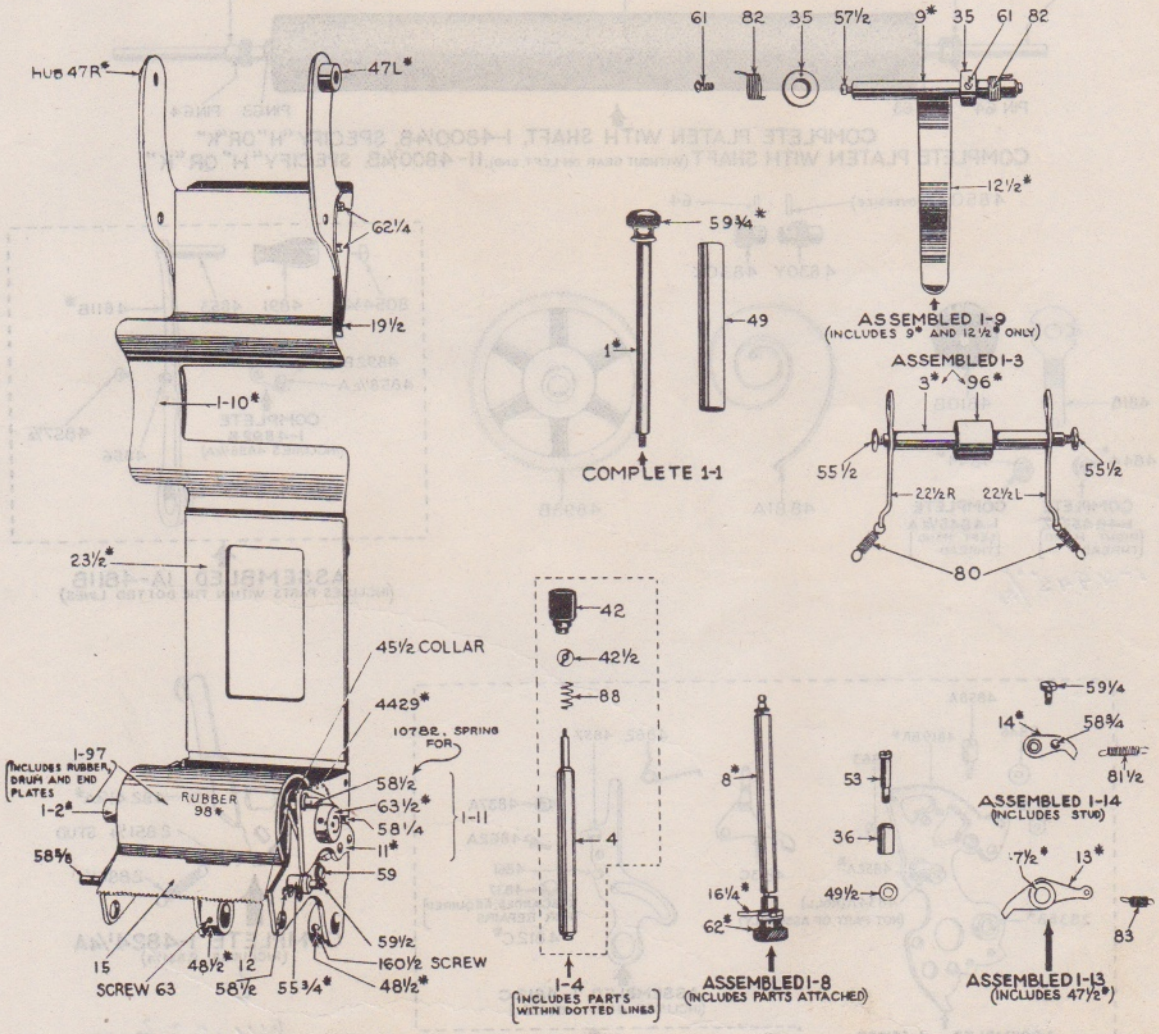
Old Style—Tally Roll

—NOTE—

SPECIFY "TALLY ROLL" ON ALL PARTS ORDERED

COMPLETE SECTION 2-10 SPECIFY "NARROW" OR "WIDE"

(INCLUDES ALL PARTS SHOWN ON THIS PAGE)



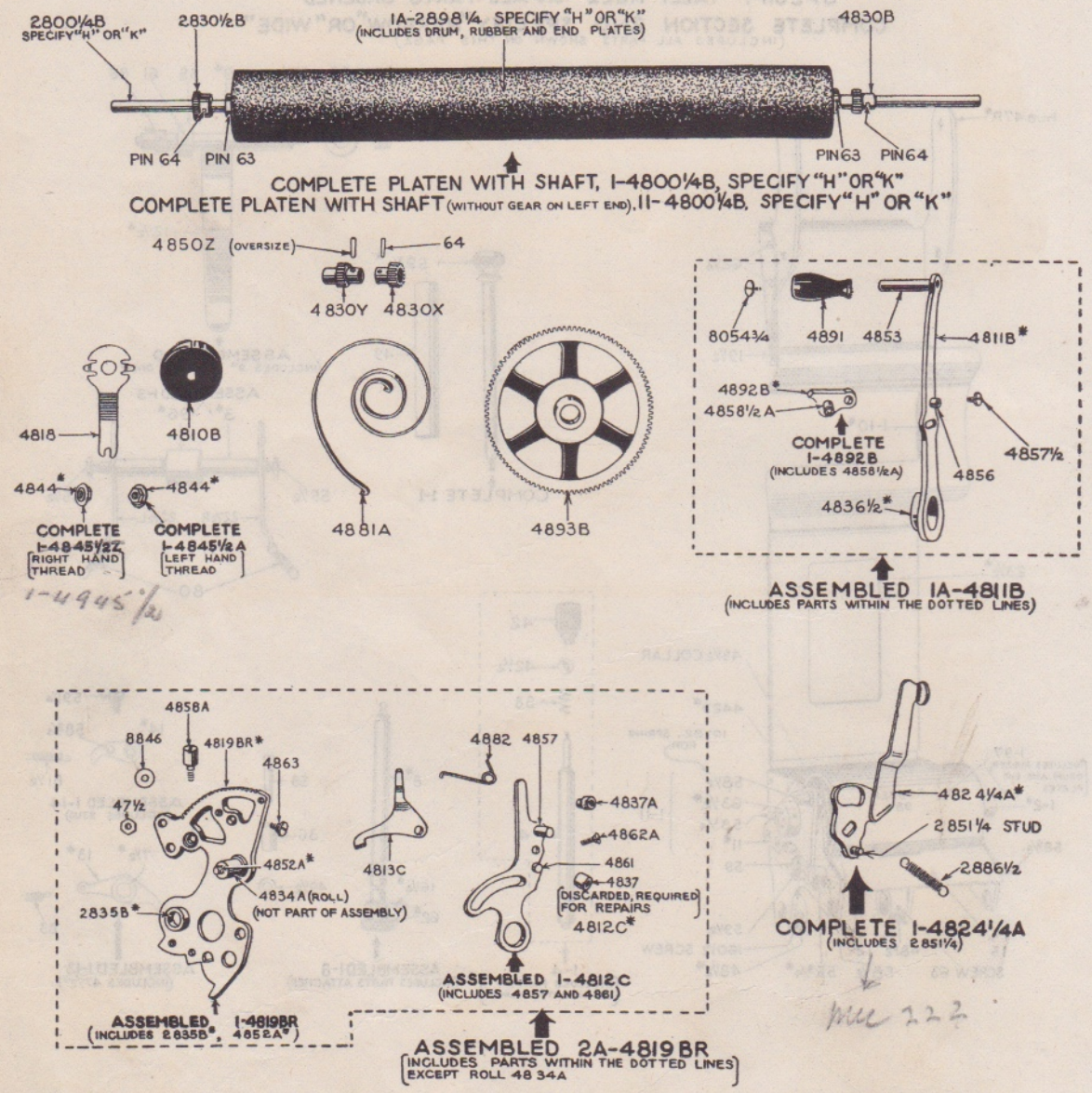
(*) **Parts not supplied**

Class 1

4800 SECTION

Injector and Ejector

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



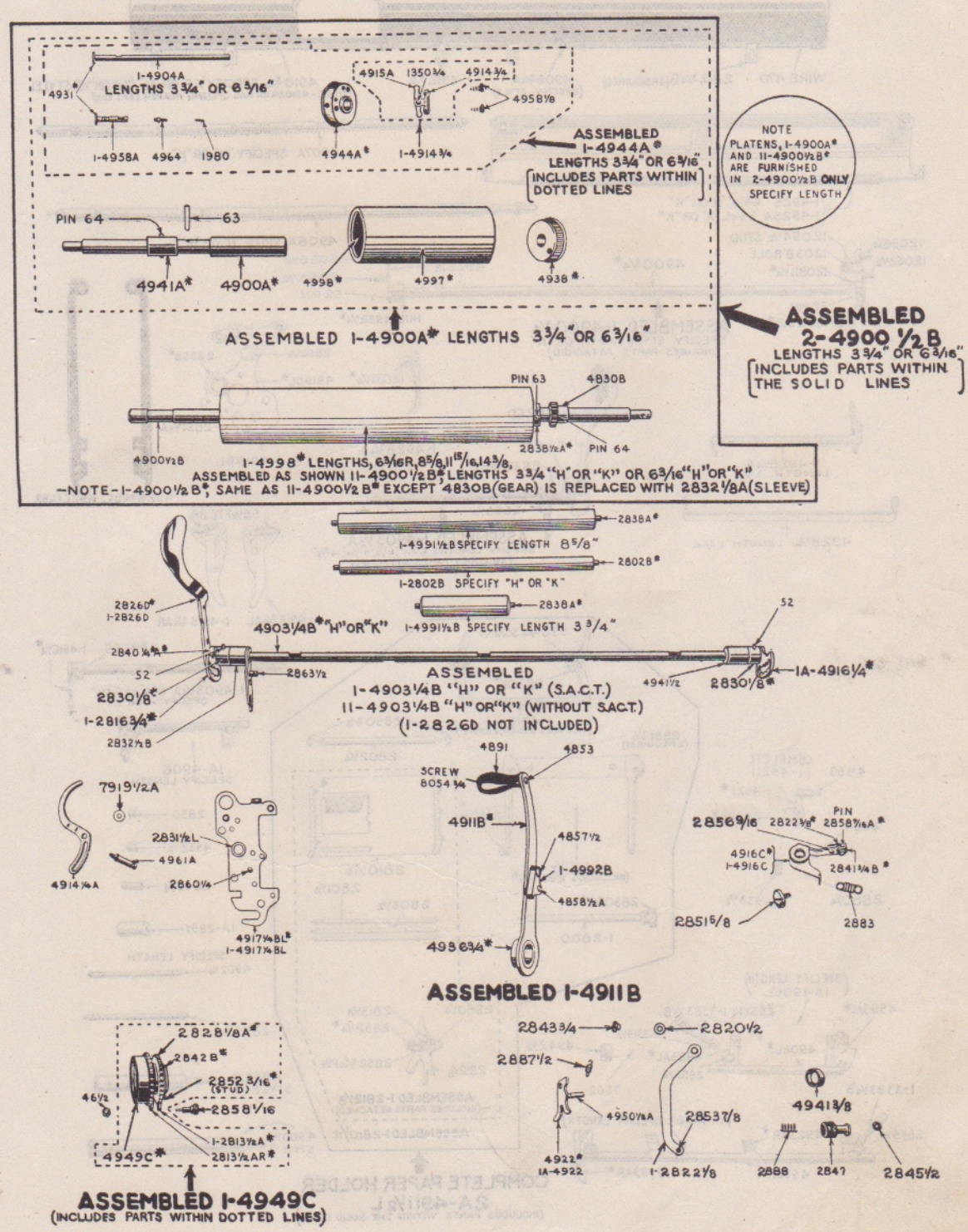
(*) Parts not supplied

Class 1

4900 SECTION

Split and Normal Platen

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



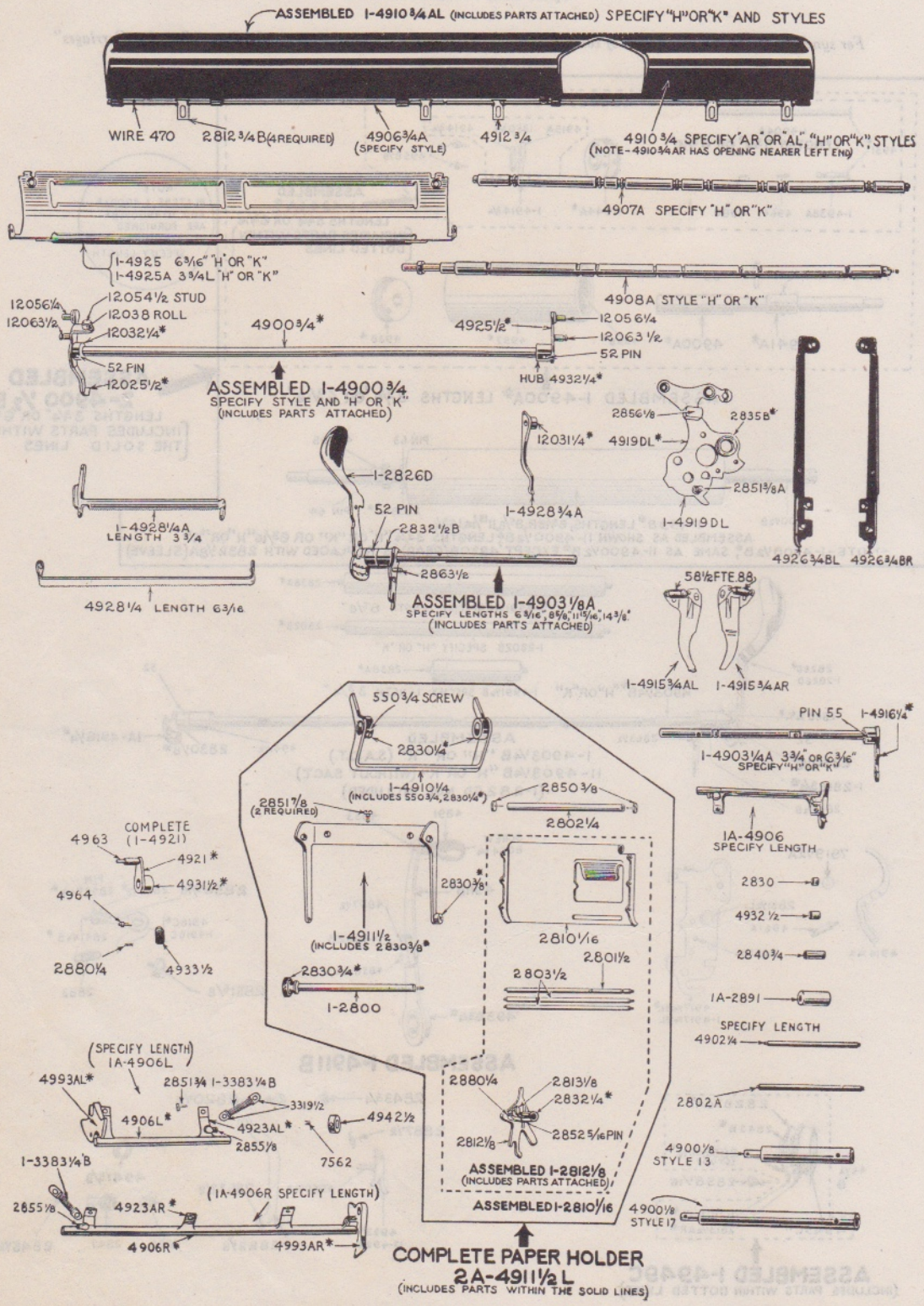
(*) Parts not supplied

Spec. Leafinders
Mec 243.

Class 1

4900 SECTION

Split and Normal Platen

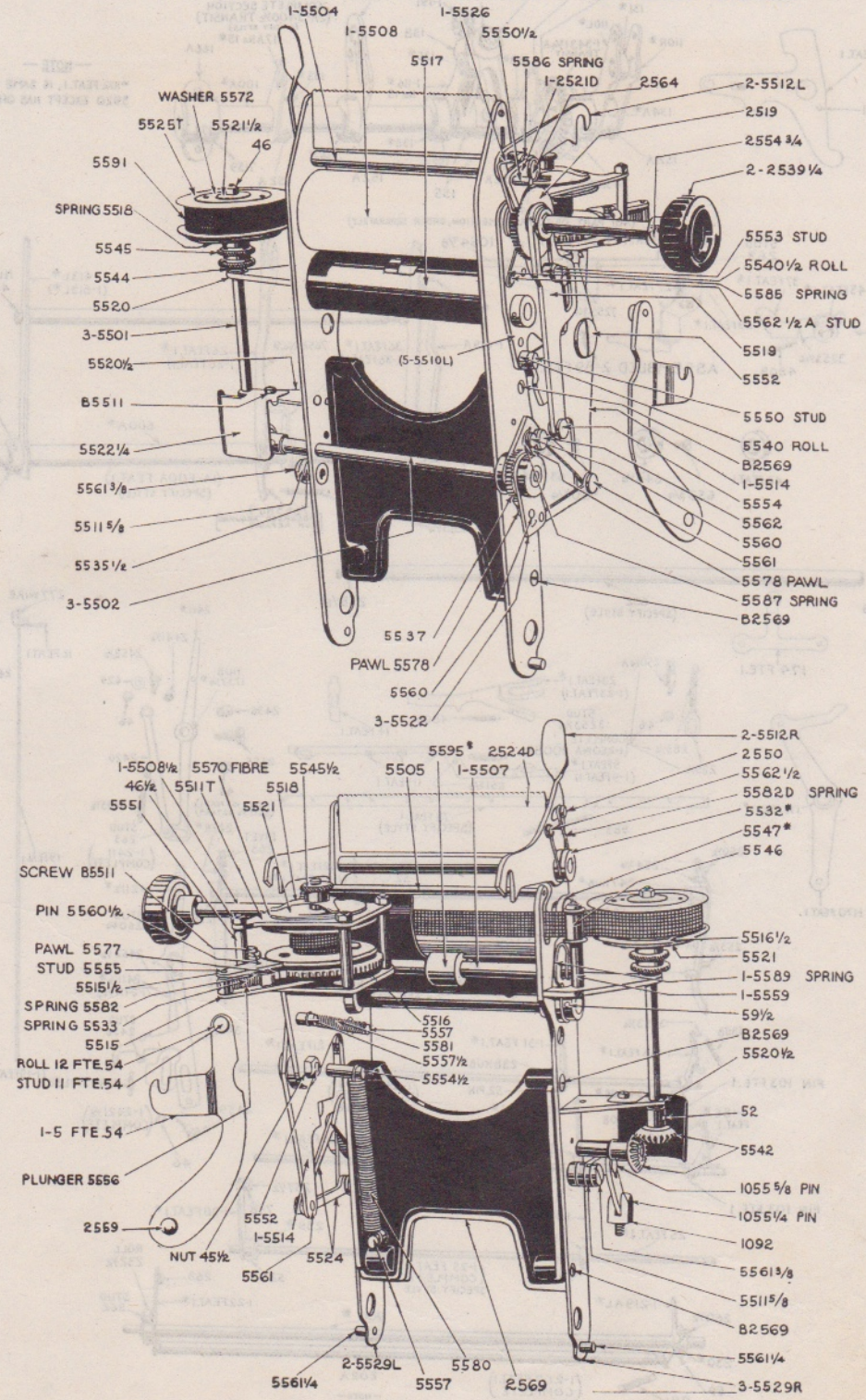


(*) Parts not supplied

Class 1

Duplicator Carriage

WHEN PARTS ARE ORDERED FOR THIS SECTION SPECIFY "DUPLICATOR CARRIAGE"

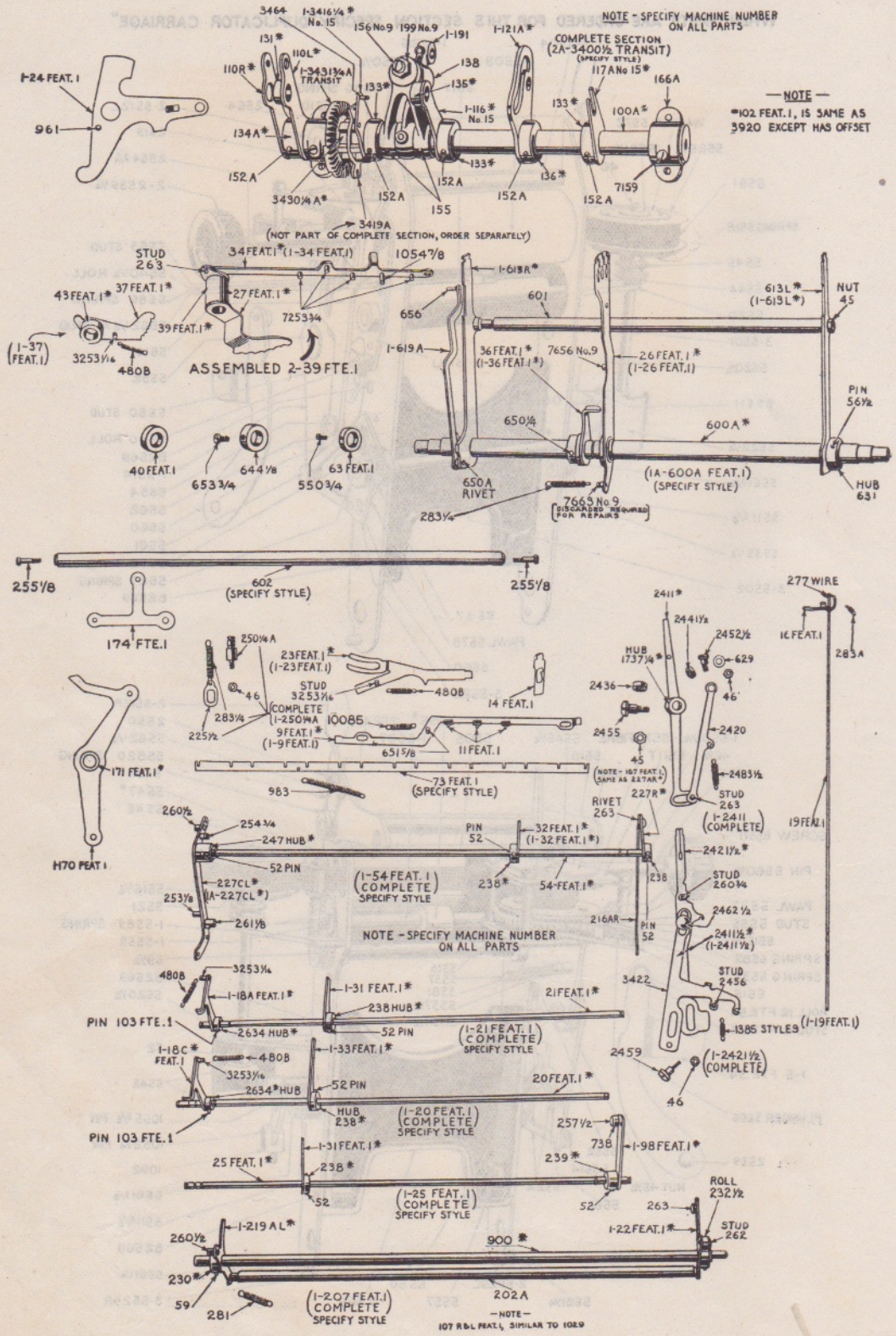


(*) Parts not supplied

Class 1

FEATURE 1

Transit Machine Mechanism

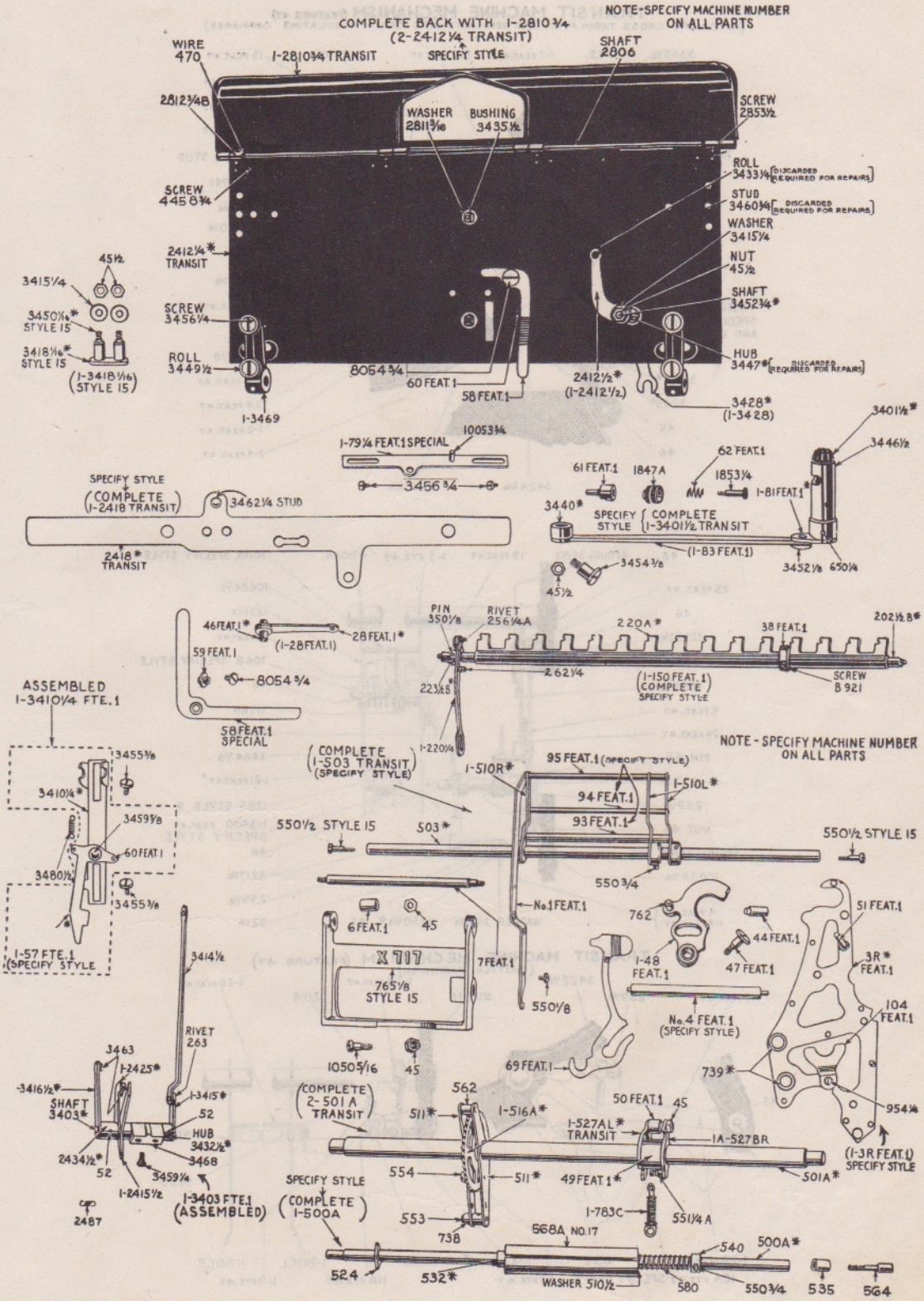


(*) Parts not supplied

Class 1

FEATURE 1

Transit Machine Mechanism

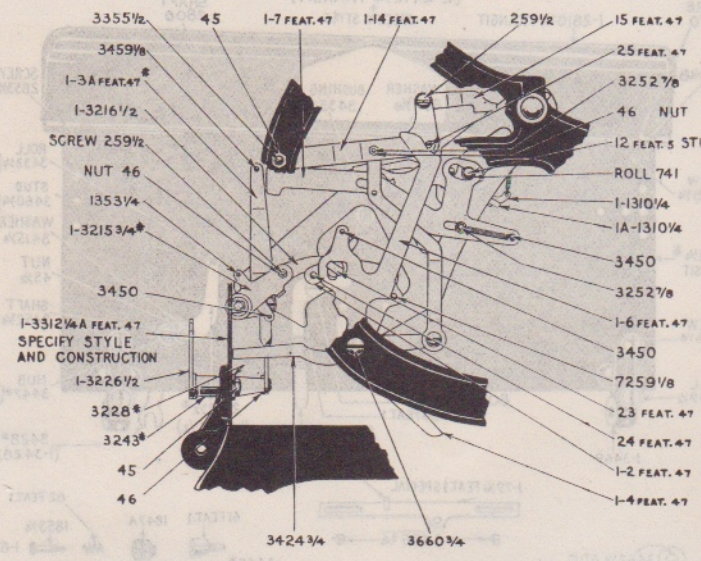


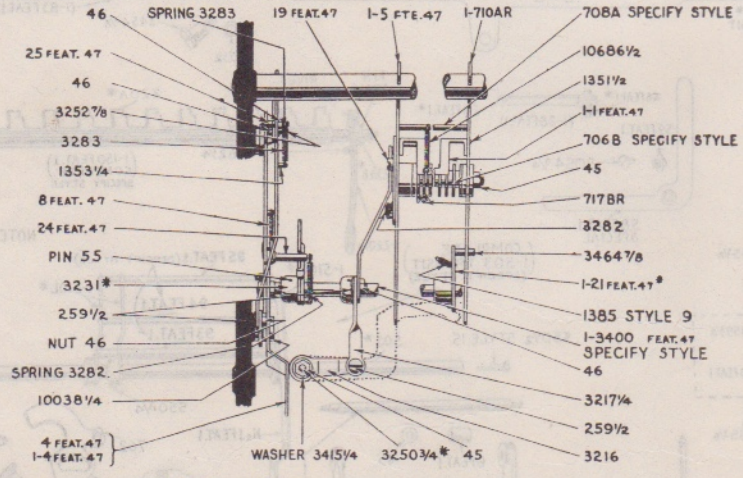
(*) Parts not supplied

Class 1

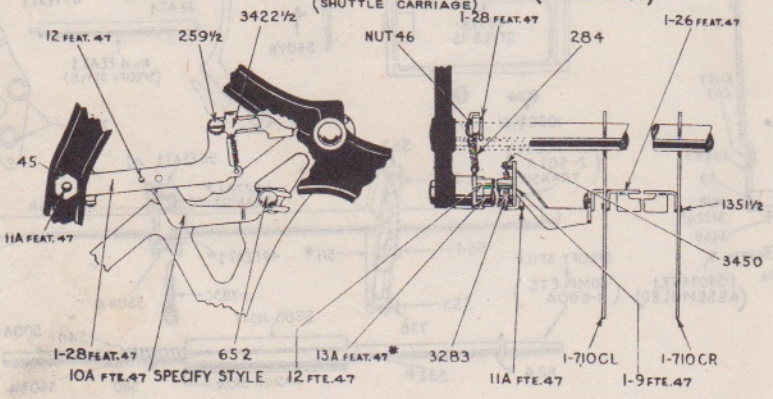
FEATURE 47

TRANSIT MACHINE MECHANISM (FEATURE 47)
(AUTOMATIC CROSS TABULATING AND SEMI-AUTOMATIC CROSS TABULATING CARRIAGES)





TRANSIT MACHINE MECHANISM (FEATURE 47)
(SHUTTLE CARRIAGE)

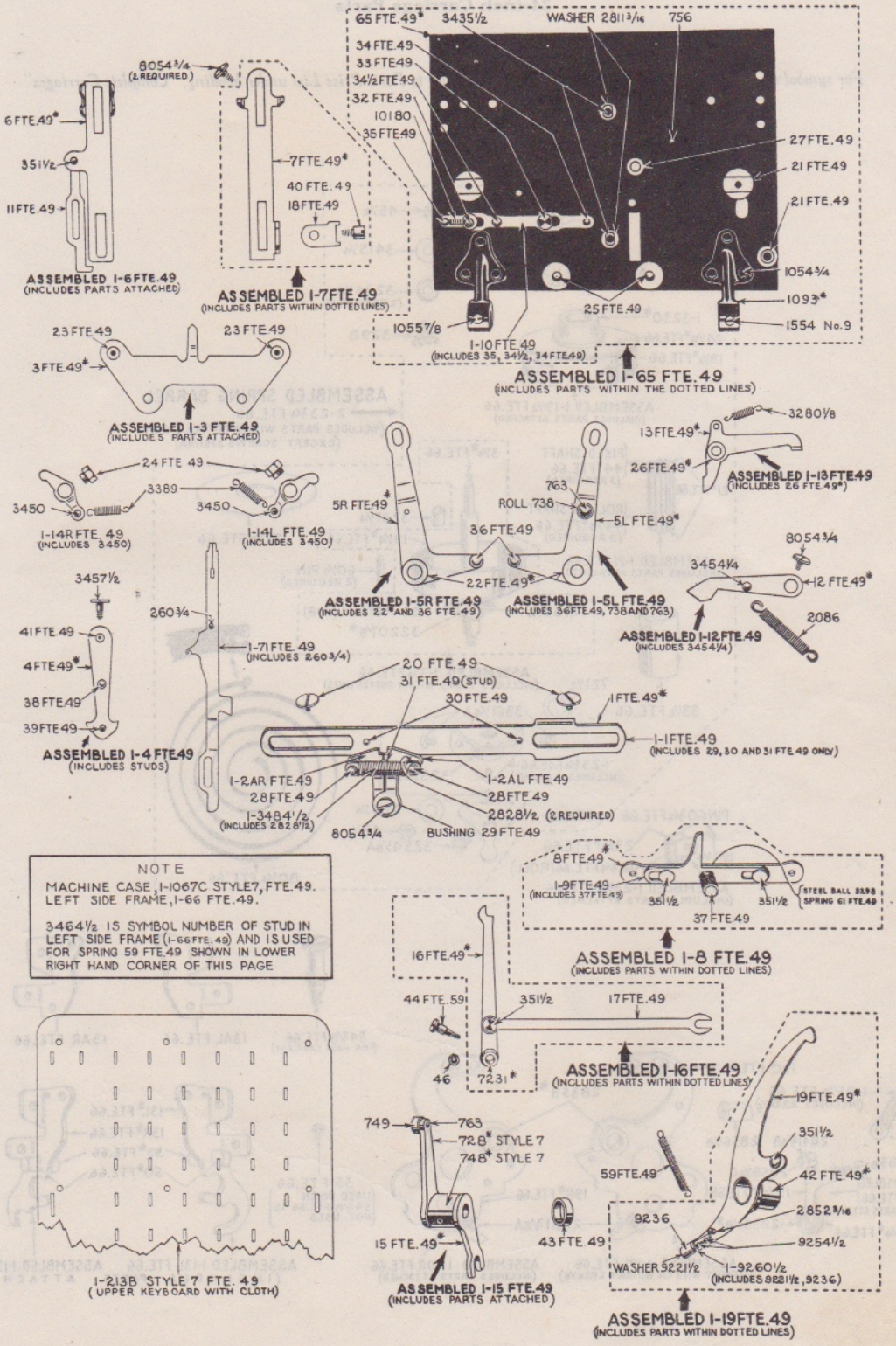


(*) Parts not supplied

Class 1

FEATURE 49

Railroad Shuttle Carriage



NOTE

MACHINE CASE, 1-1067C STYLE 7, FTE.49.
LEFT SIDE FRAME, 1-66 FTE.49.

3464½ IS SYMBOL NUMBER OF STUD IN LEFT SIDE FRAME (1-66 FTE.49) AND IS USED FOR SPRING 59 FTE.49 SHOWN IN LOWER RIGHT HAND CORNER OF THIS PAGE

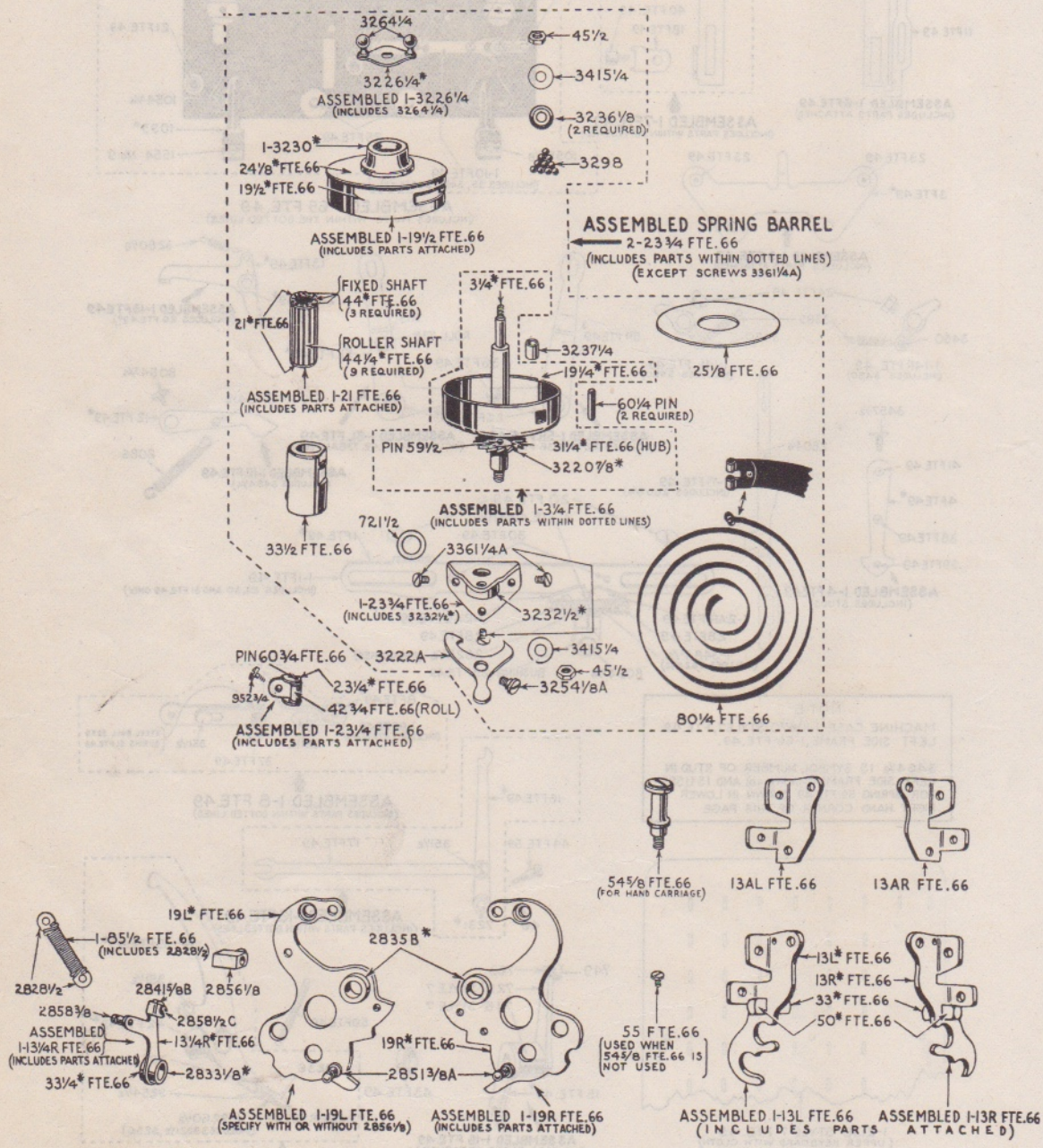
(*) Parts not supplied

Class 1

FEATURE 66

24-inch Carriage Parts

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"

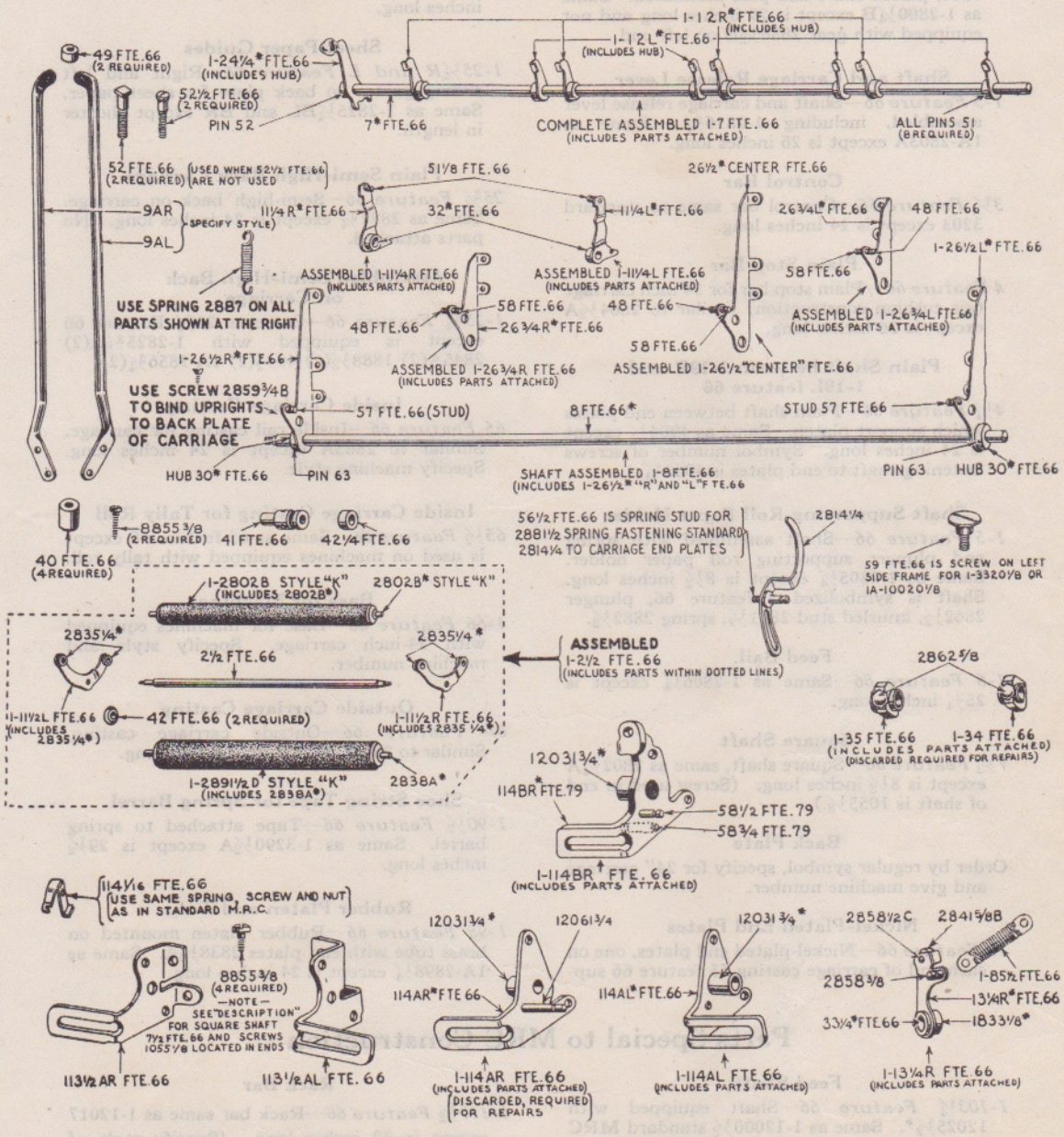


(*) Parts not supplied

Class 1

FEATURE 66

24-inch Carriage Parts



Refer to page 20 for Symbol Number on Base

(*) Parts not supplied

Class 1

Parts Special to 24-inch Carriage

Platen Shaft

1 Feature 66—Platen shaft 29 inches long.

Rubber Platen Assembled with Shaft

1-1 Feature 66—Consists of rubber platen, brass tube, platen shaft and pins assembled. Same as 1-2800¼B except is 29 inches long and not equipped with gear 2830½B on left end.

Shaft and Carriage Release Lever

1-3 Feature 66—Shaft and carriage release lever assembled, including 1-2816¾. Same as 1A-2803A except is 26 inches long.

Control Bar

3½ Feature 66—Control bar same as standard 3203 except is 24 inches long.

Plain Stop Bar

4 Feature 66—Plain stop bar for 24 inch carriage (air cushion construction) similar to 2804½A except is 26 inches long.

Plain Shaft between 1-19R and 1-19L feature 66

4¼ Feature 66—Plain shaft between end plates which support platen. Same as 4904¼ except is 24 inches long. Symbol number of screws fastening shaft to end plates is 4960¼.

Shaft Supporting Roll Paper Holder

1-5 Feature 66—Shaft assembled with spring and plunger supporting roll paper holder. Same as 1-2805¼ except is 8½ inches long. Shaft is symbolized 5 feature 66, plunger 2862½, knurled stud 2861½, spring 2882½.

Feed Bail

1-6 Feature 66—Same as 1-2806¼ except is 25¾ inches long.

Square Shaft

7½ Feature 66—Square shaft, same as 2802¾A except is 8½ inches long. (Screw used in end of shaft is 1055⅛.)

Back Plate

Order by regular symbol, specify for 24″ carriage and give machine number.

Nickel-Plated End Plates

18 Feature 66—Nickel-plated end plates, one on each end of carriage casting 65 feature 66 supported by screws 2852 1/16. Parts are similar to 2818A.

Roller Bearing Retainer

24A Feature 66—Roller bearing retainer on carriage casting. Same as 2824A except is 13 inches long.

Sheet Paper Guides

1-25¼R and L Feature 66—Right and left sliding guides on back plate for sheet paper. Same as 1-2825¼BL and BR except shorter in length.

Plain Semi-High Back Carriage

25¾ Feature 66—Semi-high back on carriage. Same as 2827¾ except is 24 inches long. No parts attached.

Assembled Semi-High Back on Carriage

1-25¾ Feature 66—Same as 25¾ Feature 66 except is equipped with 1-2825⅜A(2) 2845A(2) 1888½(2) 46½(2) 1A-2856¾(2).

Inside Carriage Casting

65 Feature 66—Inside rail casting for carriage. Similar to 2865A except is 24 inches long. Specify machine style.

Inside Carriage Casting for Tally Roll

65½ Feature 66—Same as 65 feature 66 except is used on machines equipped with tally roll.

Base for Machine

1-66 Feature 66—Base for machines equipped with 24-inch carriage. Specify style and machine number.

Outside Carriage Casting

67 Feature 66—Outside carriage casting. Similar to 2867B except is 24 inches long.

Shoe String Tape for Spring Barrel

1-90½ Feature 66—Tape attached to spring barrel. Same as 1-3290½A except is 29½ inches long.

Rubber Platen and Tube

1-98 Feature 66—Rubber platen mounted on brass tube with end plates 2838½A. Same as 1A-2898¼ except is 24 inches long.

Parts Special to MRC Construction

Feed Shaft

1-103¼ Feature 66—Shaft equipped with 12025½*. Same as 1-12000½ standard MRC construction except is 25 inches long.

Stop Bar

104½A Feature 66—Plain stop bar for 24-inch carriage when back plate is equipped with air cushion mechanism. Similar to 2804½A except is 25 inches long.

Rack Bar

1-117½ Feature 66—Rack bar same as 1-12017 except is 32 inches long. (Specify style of machine.)

Skip Stop Bail

1-121¼ Feature 66—Same as 1-12011⅛ except is 25 inches long.

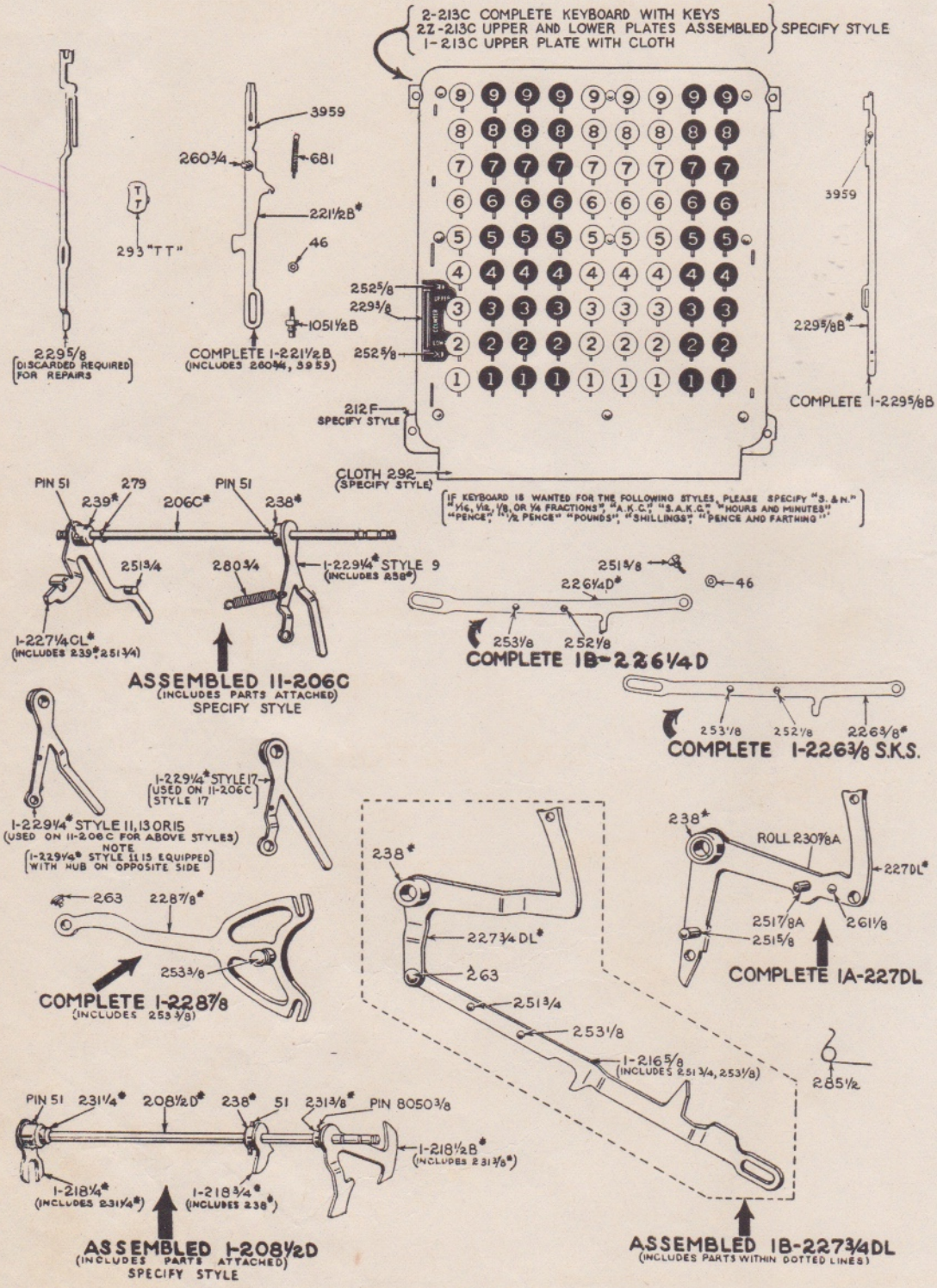
Class 1

Class 2

200 SECTION

Complete "200 Section" (without Keyboard), 1B-201½—Specify "Class 2" and Machine Number

ALL PARTS NOT SYMBOLIZED WILL BE FOUND IN "200 SECTION" CLASS 1

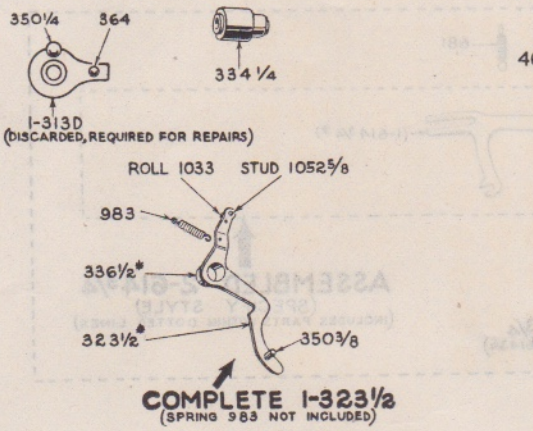


(*) Parts not supplied

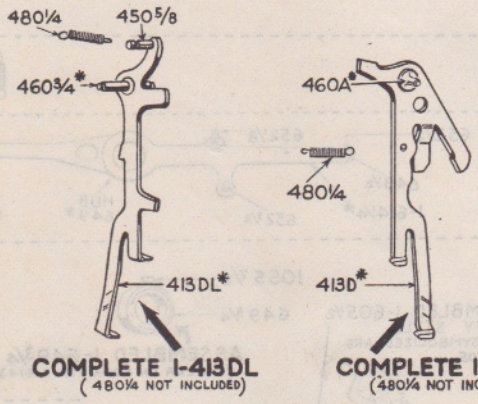
Class 2

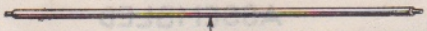
300, 400 AND 500 SECTIONS

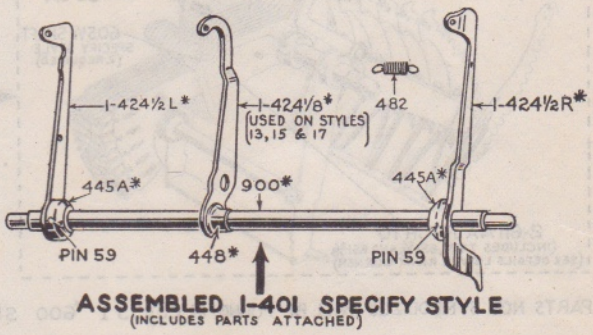
300 SECTION

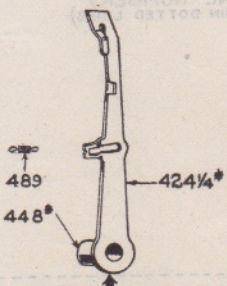


400 SECTION

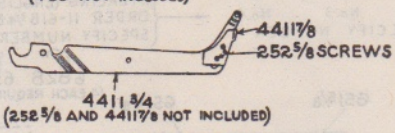




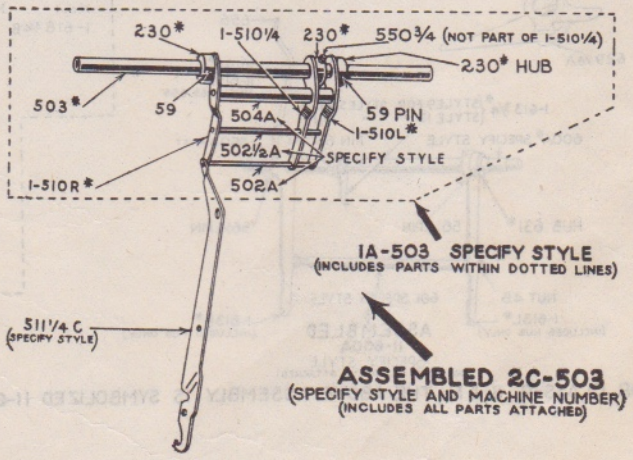




500 SECTION



NOTE
WHEN ABOVE PARTS ARE ASSEMBLED WITH 1A-503, THE ASSEMBLY IS SYMBOLIZED 2-4403

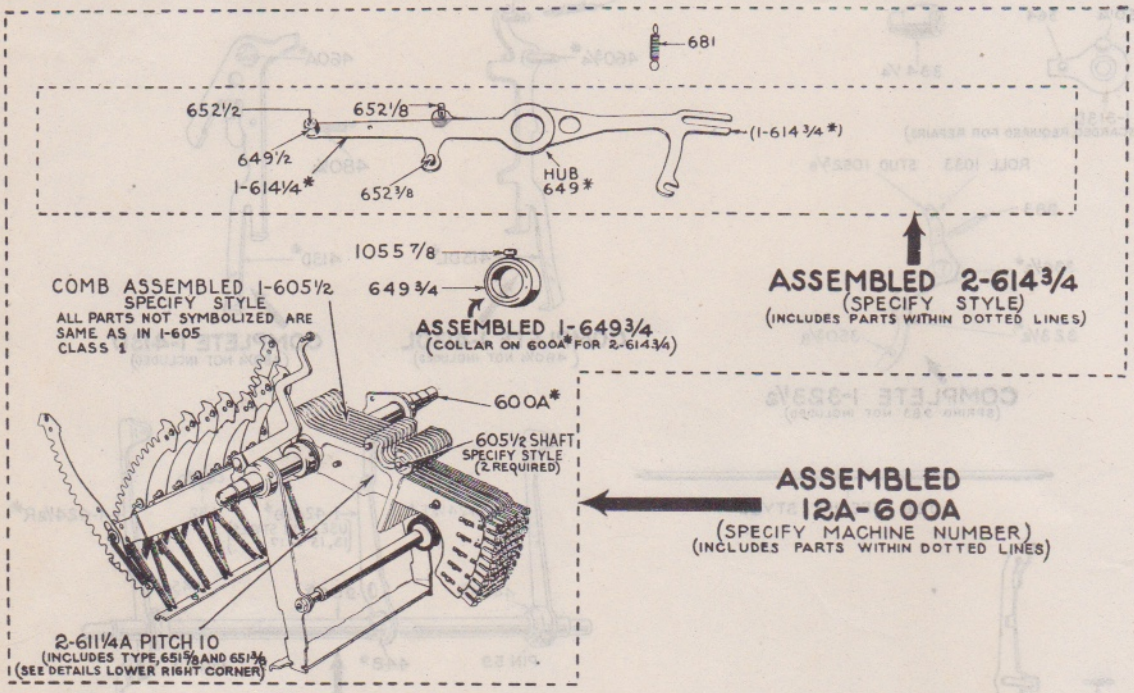


Refer to page 13 for Ribbon Specifications

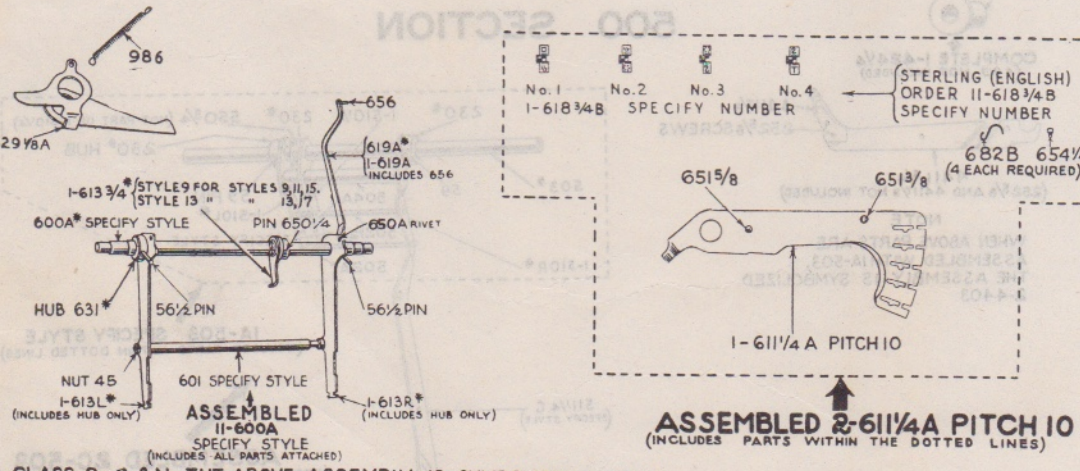
(*) Parts not supplied

Class 2

600 SECTION



PARTS NOT SYMBOLIZED WILL BE FOUND IN CLASS 1 "600 SECTION"



FOR CLASS 2 S.&N., THE ABOVE ASSEMBLY IS SYMBOLIZED 11-600 1/2

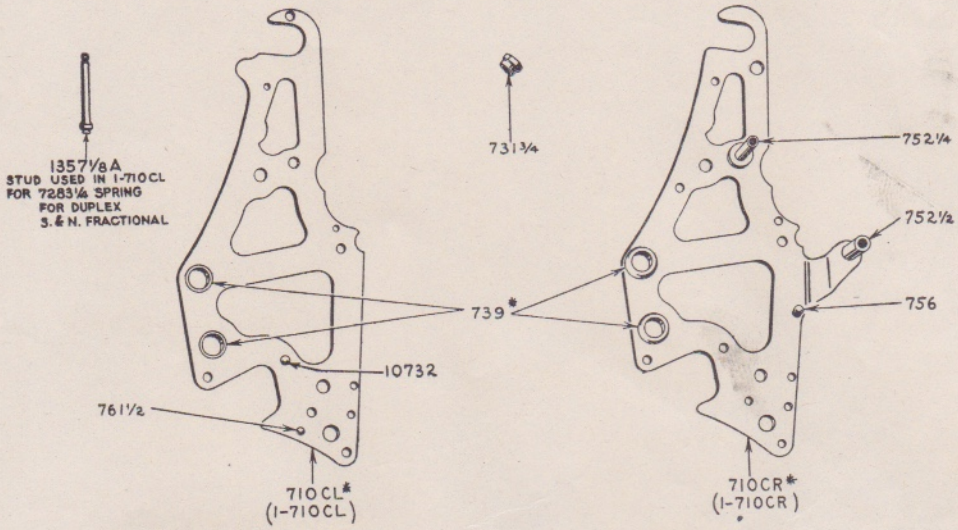
(*) Parts not supplied

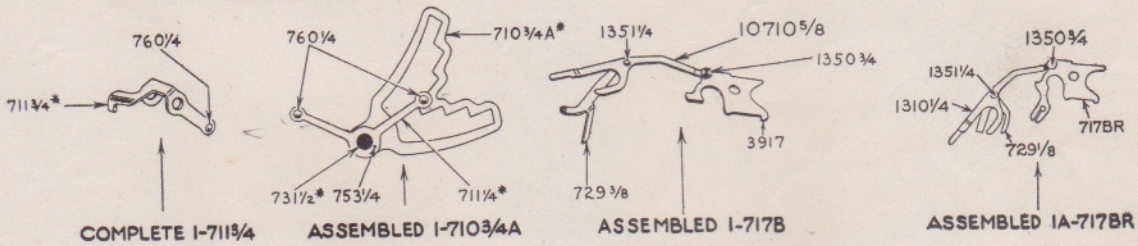
Class 2

700 AND 800 SECTIONS

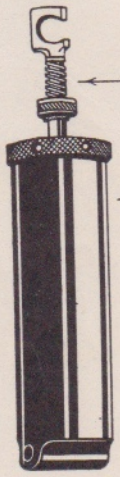
NOTE—Complete Hammer Section 2A-710C—Specify Machine Number

700 SECTIONS





800 SECTION

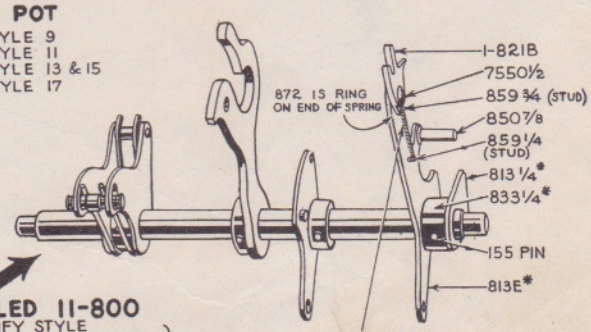


COMPLETE PLUNGER

1-847A STYLE 37 FOR STYLE 9
1-847A STYLE 57 FOR STYLE 11
1-847A STYLE 50 FOR STYLE 13 & 15
1-847A STYLE 44 FOR STYLE 17

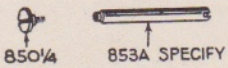
COMPLETE DASH POT

2-847A STYLE 37 FOR STYLE 9
2-847A STYLE 57 FOR STYLE 11
2-847A STYLE 50 FOR STYLE 13 & 15
2-847A STYLE 44 FOR STYLE 17



ASSEMBLED 11-800
SPECIFY STYLE

INCLUDES PARTS ATTACHED EXCEPT SPRING 1-883½A WHICH MUST BE ORDERED AS A SEPARATE ITEM ALL PARTS NOT SYMBOLIZED WILL BE FOUND IN THE CLASS 1 "800 SECTION"



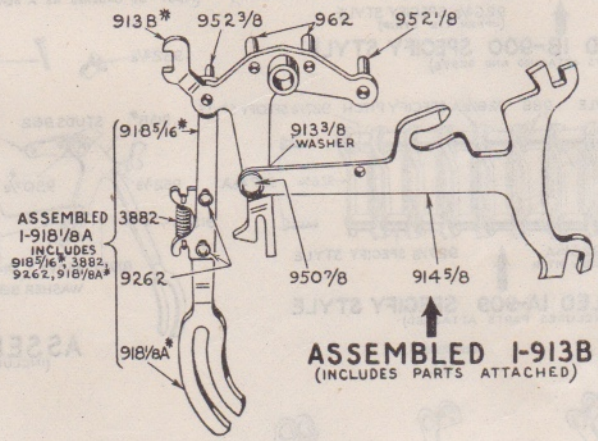
850¼ 853A SPECIFY STYLE

(*) Parts not supplied

Class 2

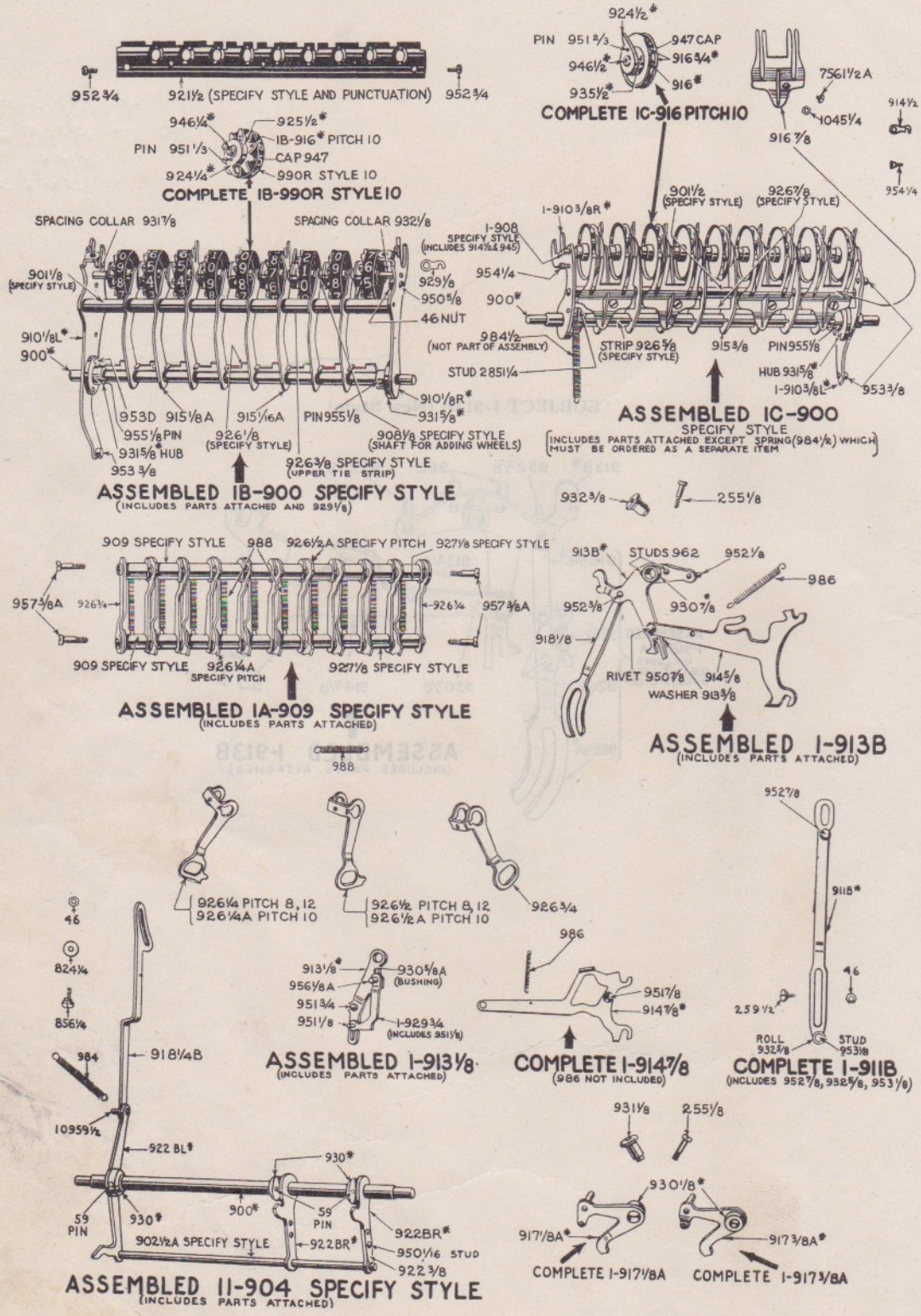
Class 2

SUBJECT 1-913B (New Style)



Class 2

900 SECTION

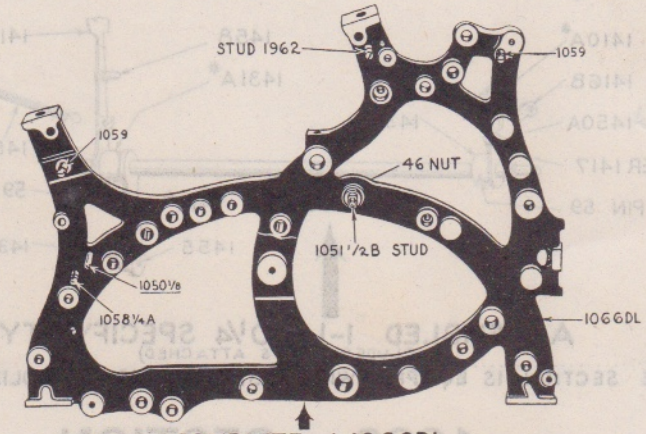


NOTE—Refer to page 19 for 923¾

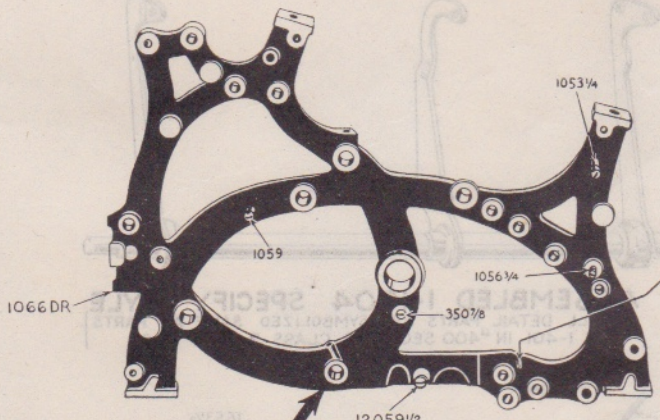
(*) Parts not supplied

Class 2

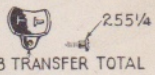
1000 SECTION



COMPLETE 1-1066DL
(INCLUDES STUDS AND 1-1010 1/4A FOUND AT BOTTOM OF THIS PAGE)

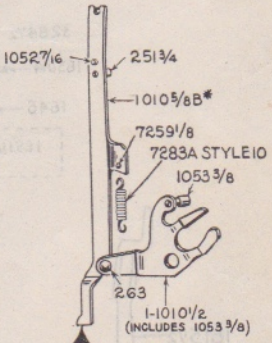


1056 1/4 STUD
DISCARDED, REQUIRED FOR REPAIRS

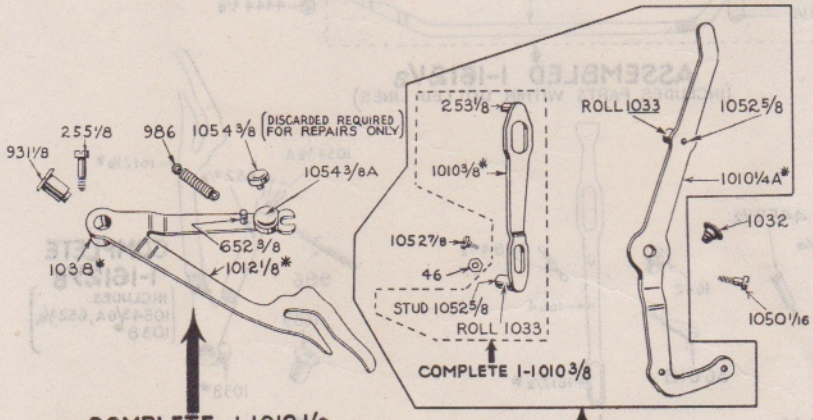


2.55 1/4
2.93 TRANSFER TOTAL

COMPLETE 1-1066DR
(INCLUDES STUDS ALSO 1A-311 1/8, 1-323 1/2, 1-313E, 1-314 1/2 AND THEIR CONNECTIONS WHICH WILL BE FOUND IN THE CLASS 1 "300" SECTION THIS BOOK)



ASSEMBLED 1-1010 5/8B
(INCLUDES PARTS ATTACHED. SPRING (7283A STYLE 10) NOT INCLUDED)



COMPLETE 1-1012 1/8
(INCLUDES PARTS ATTACHED)

COMPLETE 1-1010 3/8

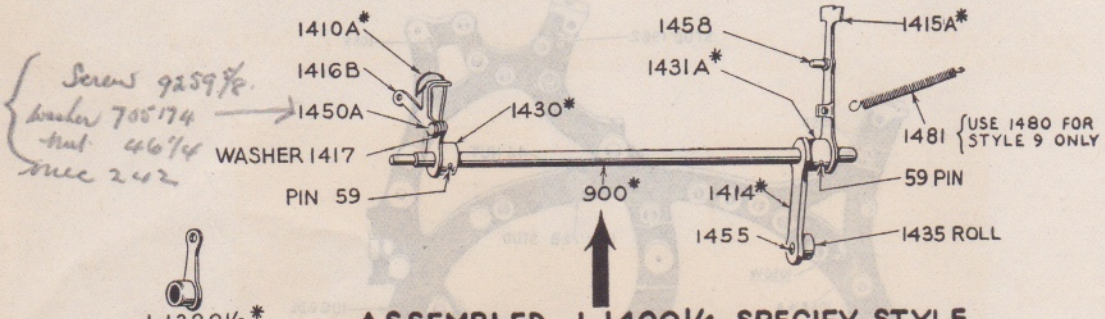
ASSEMBLED 1-1010 1/4A
(INCLUDES PARTS WITHIN SOLID LINES)

COMPLETE 1-1011 1/8A

(*) Parts not supplied

Class 2

1400 AND 1600 SECTIONS

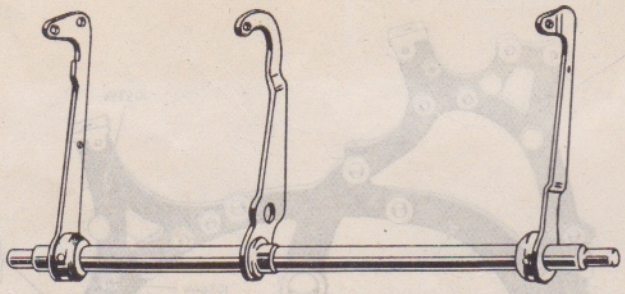


Screw 9259 7/8
washer 705174
nut 46 7/4
nuc 2 42

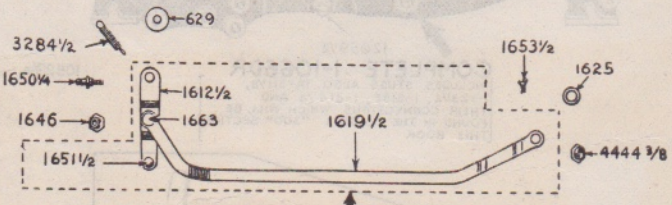
ASSEMBLED 1-1400¼ SPECIFY STYLE
(INCLUDES PARTS ATTACHED)

WHEN ABOVE SECTION IS EQUIPPED WITH 1-1322½*, IT IS SYMBOLIZED 1-1400¾

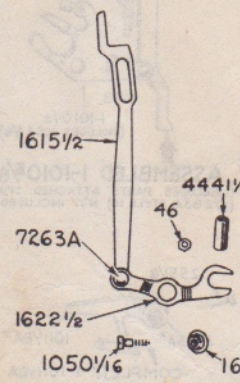
1600 SECTION



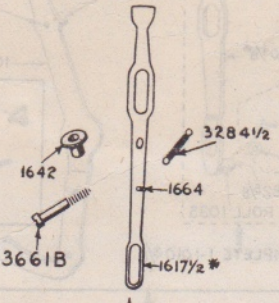
ASSEMBLED 1-1604 SPECIFY STYLE
ALL DETAIL PARTS ARE SYMBOLIZED SAME AS PARTS IN 1-401 IN "400 SECTION" CLASS 2 THIS BOOK



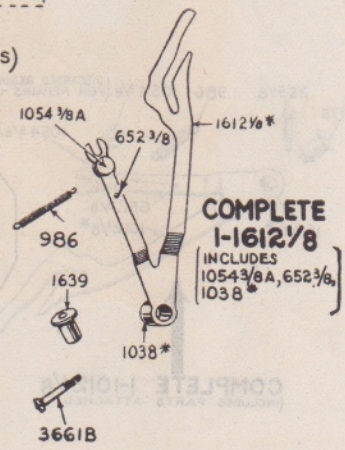
ASSEMBLED 1-1612½
(INCLUDES PARTS WITHIN DOTTED LINES)



ASSEMBLED 1-1615½
(INCLUDES 1615½, 1622½, 7263A)



COMPLETE 1-1617½
(INCLUDES 1664)



COMPLETE 1-1612⅛
INCLUDES 1054 3/8A, 652 3/8, 1038*

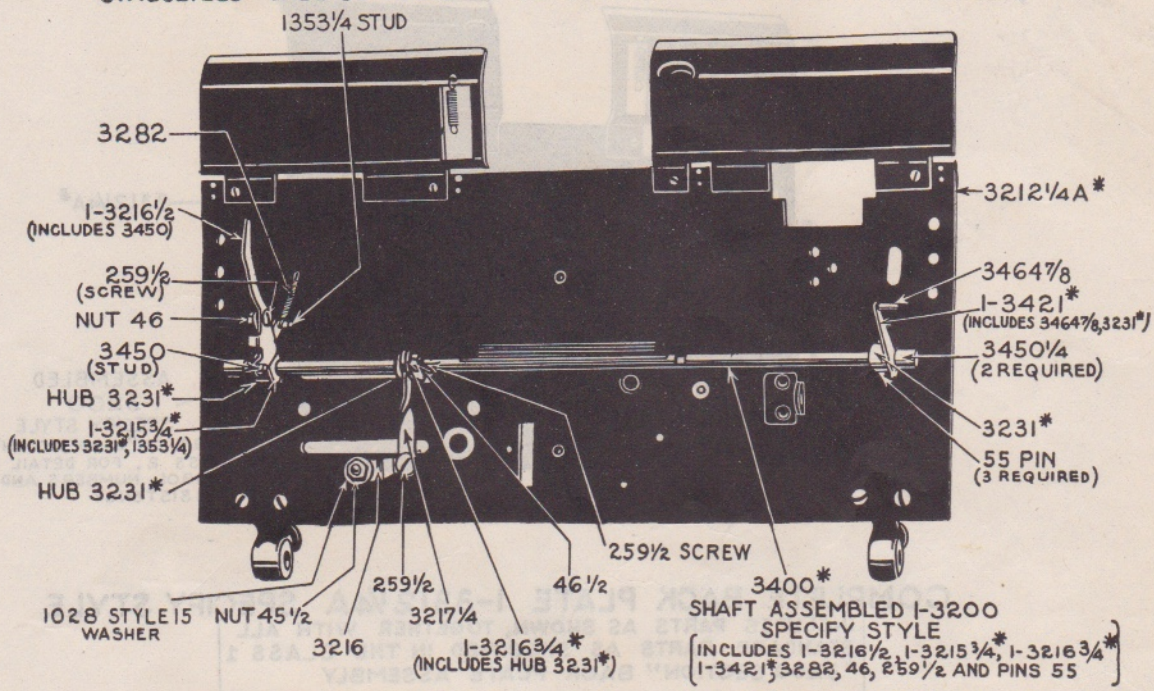
(*) Parts not supplied

Class 2

3200 SECTION

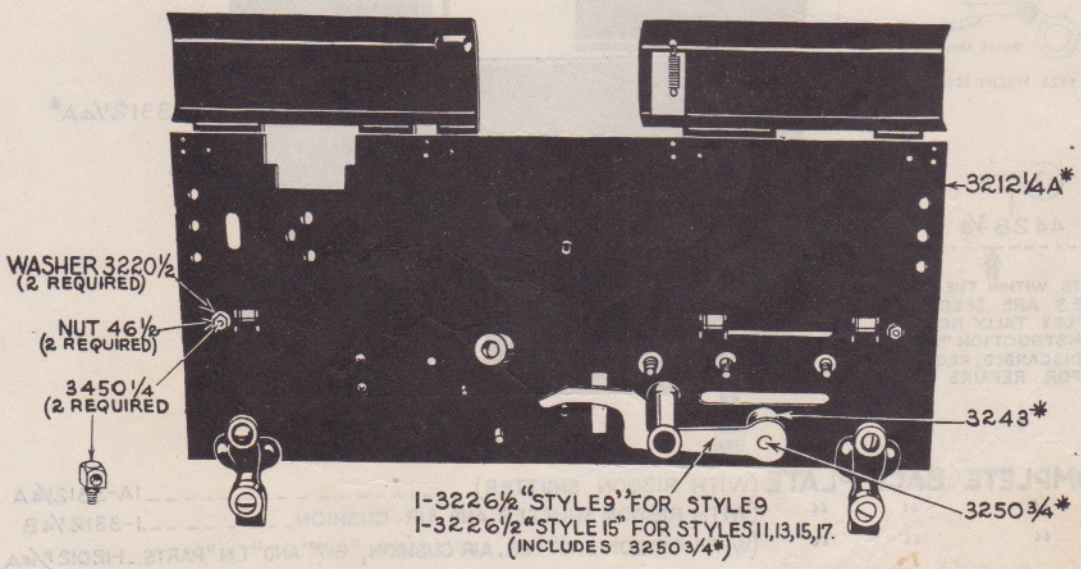
Automatic Cross Tabulator Mechanism

PARTS SYMBOLIZED ARE SPECIAL TO "CLASS 2" CONSTRUCTION. ALL PARTS NOT SYMBOLIZED WILL BE FOUND IN THE STANDARD "3200 SECTION" CLASS 1



COMPLETE BACK PLATE 1-3212¼A SPECIFY STYLE

INCLUDES ALL PARTS AS SHOWN, TOGETHER WITH ALL STANDARD PARTS AS SPECIFIED IN THE CLASS 1 "3200 SECTION" BACK PLATE ASSEMBLY



Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

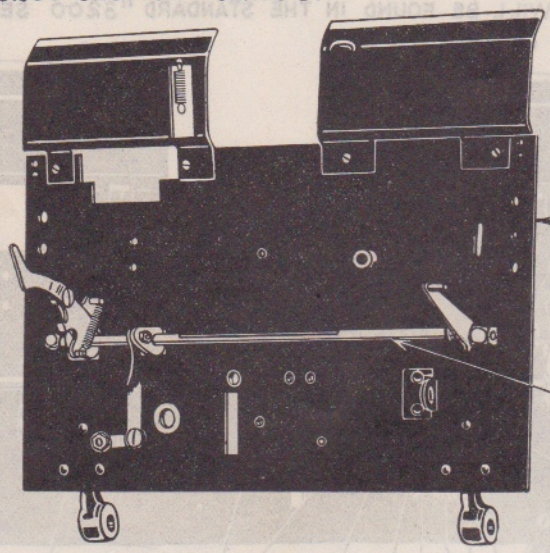
(*) Parts not supplied

Class 2

3300 SECTION

Semi-automatic Cross Tabulator Mechanism

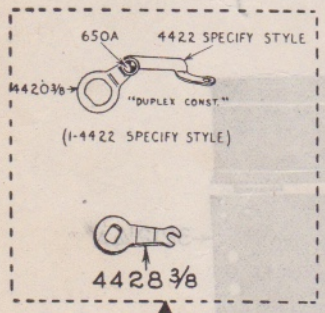
PARTS NOT SYMBOLIZED WILL BE FOUND IN THE "3200 SECTION" CLASS 2 AND STANDARD "3200 SECTION" CLASS 1.



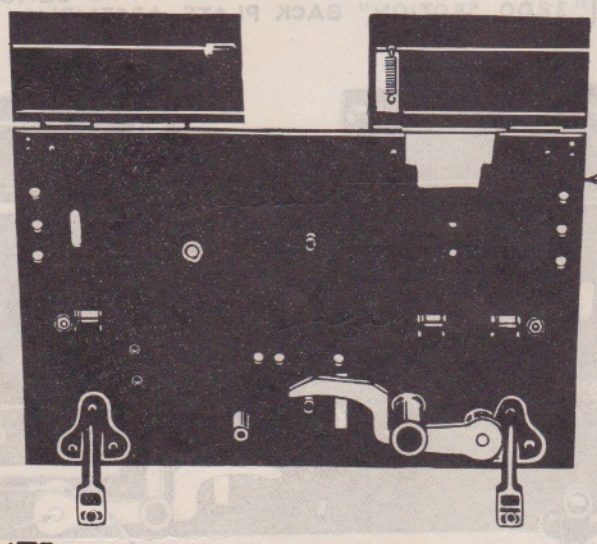
COMPLETE BACK PLATE 1-3312¼A SPECIFY STYLE

[INCLUDES PARTS AS SHOWN, TOGETHER WITH ALL STANDARD PARTS AS SPECIFIED IN THE CLASS 1 "3200 SECTION" BACK PLATE ASSEMBLY]

(SEE OTHER BACK PLATE SPECIFICATIONS BELOW)



PARTS WITHIN THE DOTTED LINES ARE SPECIAL TO "DUPLEX TALLY ROLL CONSTRUCTION" [DISCARDED, REQUIRED FOR REPAIRS]



COMPLETE BACK PLATE	(WITH RIBBON SHUTTER)	1A-3312¼A
" " "	(WITH RIBBON SHUTTER AND AIR CUSHION	1-3312¼B
" " "	(WITH RIBBON SHUTTER, AIR CUSHION, "6-7" AND "T.N." PARTS	1-12012 7/16A

Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

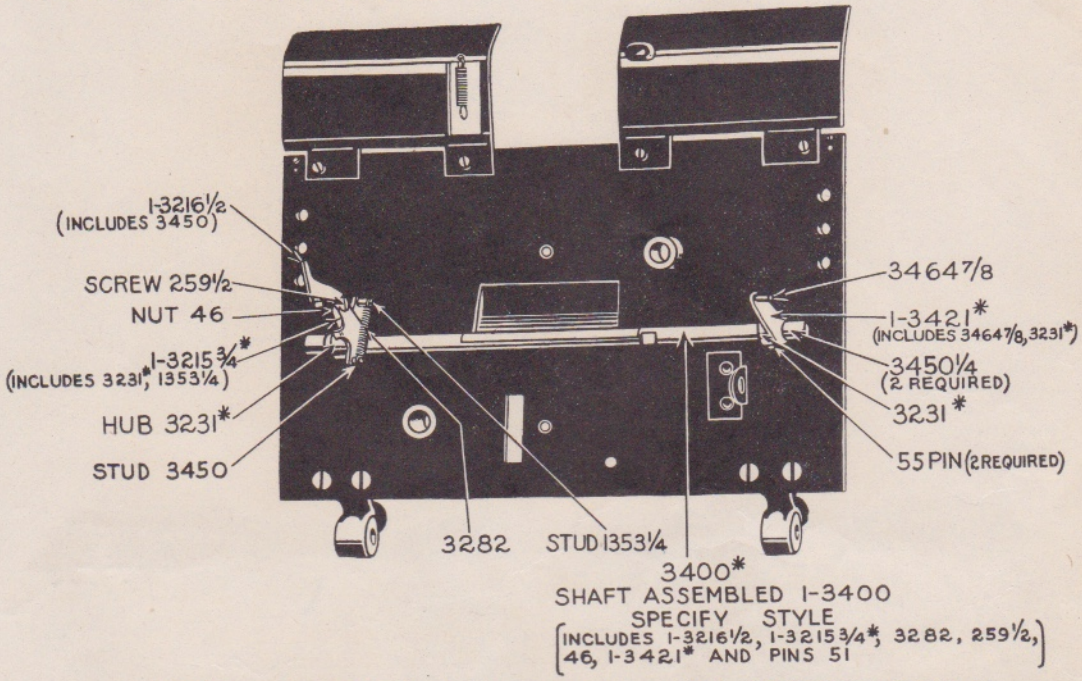
(*) Parts not supplied

Class 2

3400 SECTION

Shuttle Carriage Counter Control Mechanism

PARTS SYMBOLIZED ARE SPECIAL TO "CLASS 2" CONSTRUCTION. ALL PARTS NOT SYMBOLIZED WILL BE FOUND IN THE CLASS 1 "3400 SECTION"



COMPLETE BACK PLATE 1-3412¼A SPECIFY STYLE
(INCLUDES ALL PARTS AS SHOWN, TOGETHER WITH ALL STANDARD PARTS AS SPECIFIED IN THE CLASS 1 "3400 SECTION" BACK PLATE ASSEMBLY)

COMPLETE BACK PLATE (WITH AIR CUSHION) 1-3412¼B SPECIFY STYLE

Base

For Symbol Number of BASE, refer to page 20 under heading of "Bases and Cases."

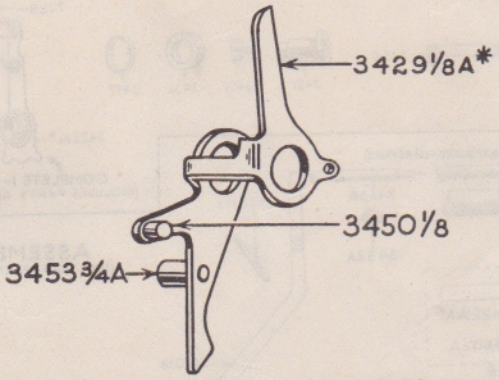
Keyboards

Symbol Number		Description
1–3413	(Specify Style)	Upper Keyboard with cloth.
2–3413	(Specify Style)	Upper and lower plates assembled with key-stems, buttons, 1–423, 229⅜ and 1–10223.
1–3413 5/12	(Specify Style)	Upper keyboard with cloth. Used for 1/12 fraction with SC, SACT or MRC, with DRK or FRK.
1–3413¼	(Specify Style)	Upper keyboard with cloth. Used with SC, SACT, ACT or MRC, with DRK.
1–3413⅝	(Specify Style)	Upper keyboard with cloth. Used with SACT, ACT, SC, or MRC, with DRK and FRK.
1–3413⅔	(Specify Style)	Upper keyboard with cloth. Used with S&N.

Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

Class 2

Class 2



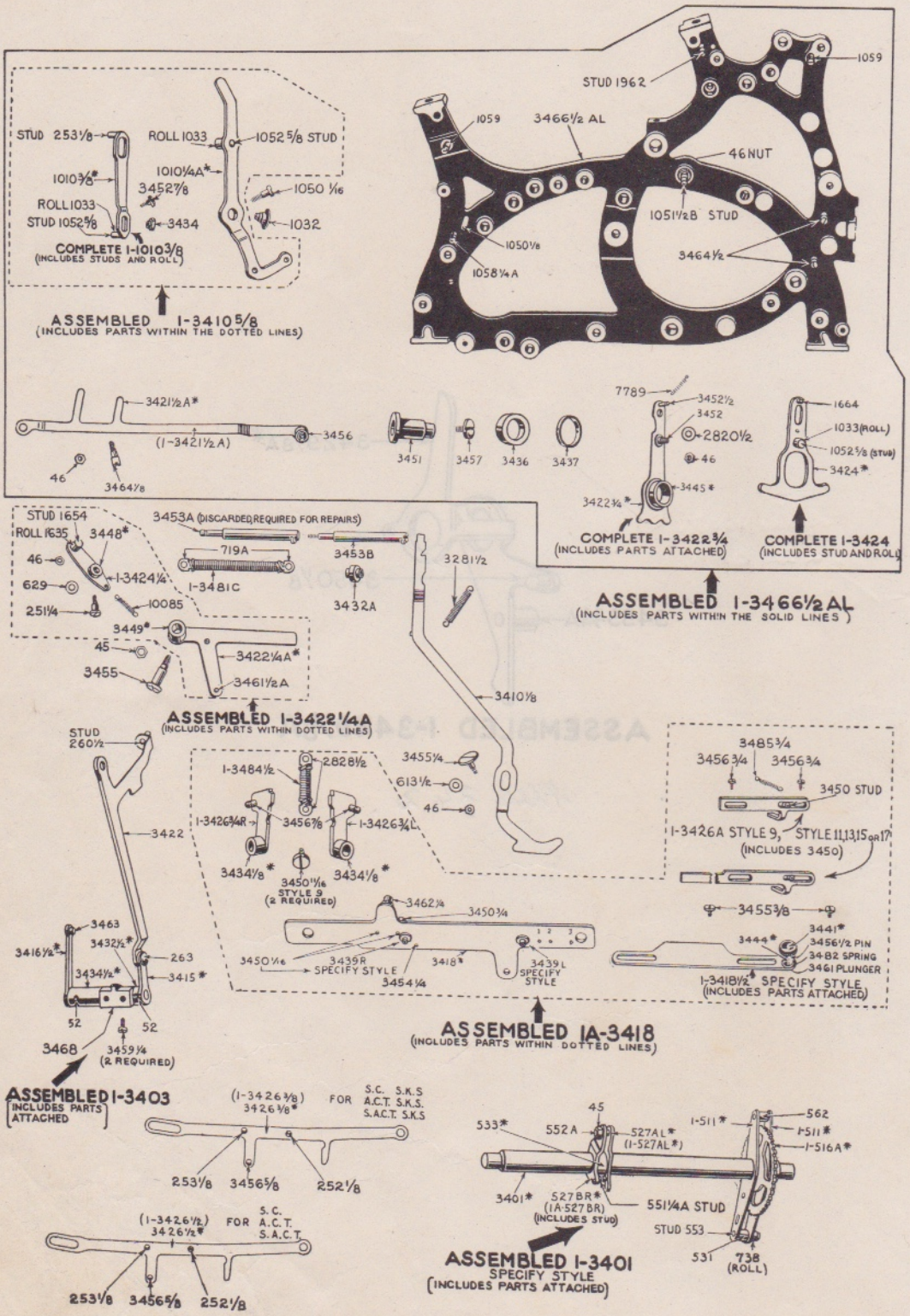
ASSEMBLED 1-3429⅛A

Mec 242

Class 2

3400 SECTION

Shuttle Carriage Counter Control Mechanism

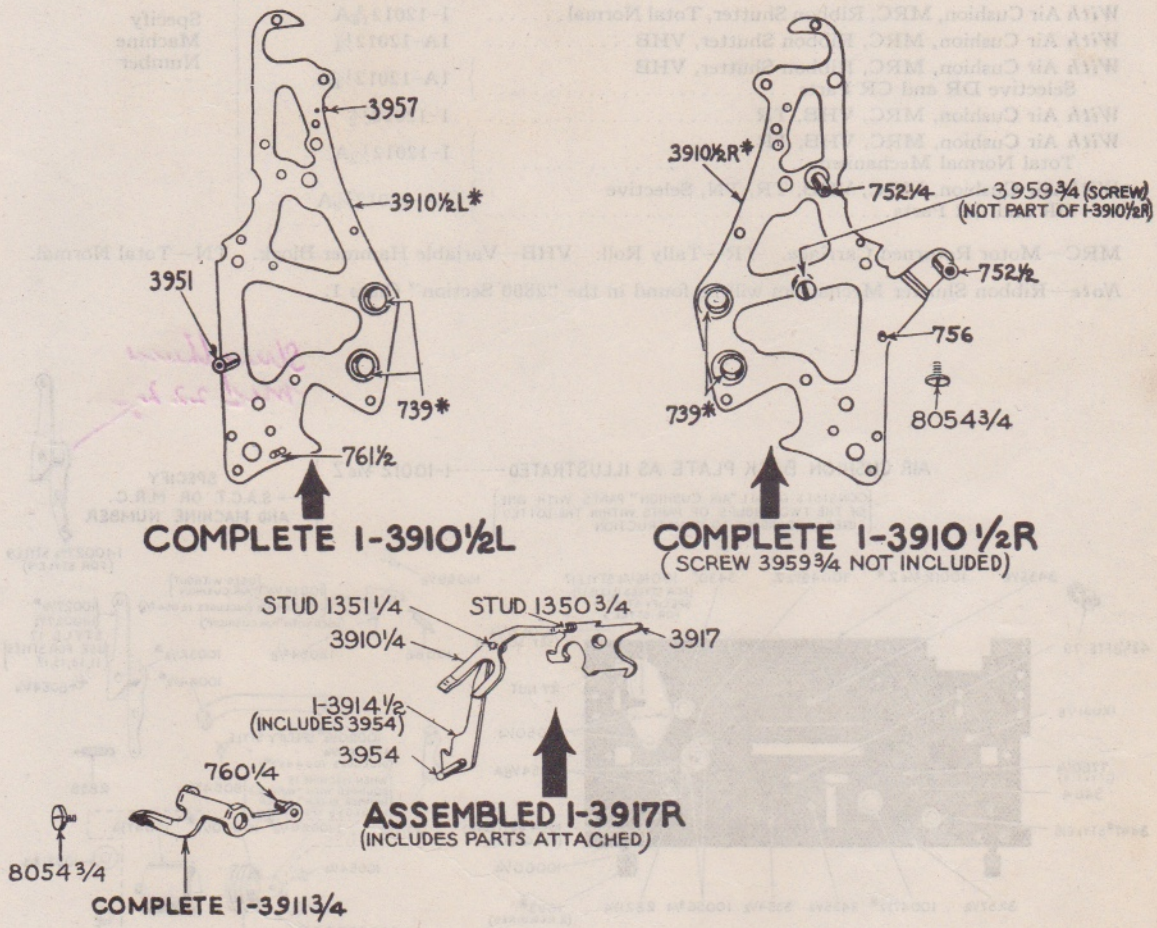


(*) Parts not supplied

Class 2

3900 SECTION

Unlimited Split Mechanism



ASSEMBLED SECTION 2-3910½ SPECIFY MACHINE NUMBER

INCLUDES PARTS SHOWN ABOVE, TOGETHER WITH ALL STANDARD PARTS SPECIFIED IN THE ASSEMBLY OF THE CLASS 1 "700 SECTION"

(*) Parts not supplied

Class 6

10000 AND 12000 SECTIONS—BACK PLATES

(For Class 6 Machines)

COMPLETE BACK PLATES—

With Air Cushion and ***Without*** Ribbon Shutter Discarded, required for repairs. Replaced with Back Plate 1A-12012¼A	1–10012¼F	Specify Machine Number
With MRC and Air Cushion Discarded, required for repairs. Replaced with Back Plate 1A-12012 3/16	1–12012 3/16	
With Air Cushion, MRC, Ribbon Shutter	1A–12012 3/16	
With Air Cushion, MRC, Ribbon Shutter, Total Normal	1–12012 3/16A	
With Air Cushion, MRC, Ribbon Shutter, VHB	1A–12012¼	
With Air Cushion, MRC, Ribbon Shutter, VHB Selective DR and CR Parts	1A–12012¼A	
With Air Cushion, MRC, VHB, TR	1–12012½	
With Air Cushion, MRC, VHB, TR Total Normal Mechanism	1–12012½A	
With Air Cushion, MRC, VHB, TR, TN, Selective DR and CR Parts	1A–12012½A	

MRC—Motor Returned Carriage. TR—Tally Roll. VHB—Variable Hammer Block. TN—Total Normal.

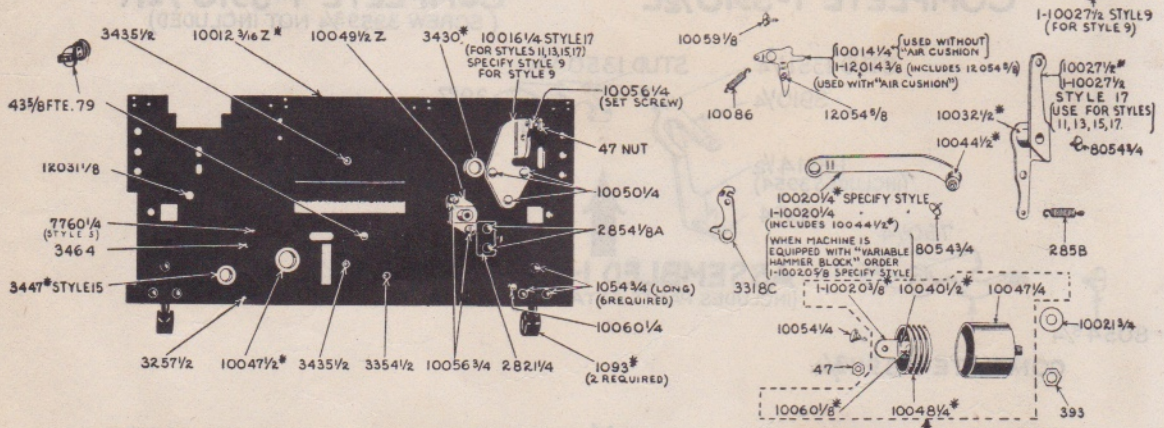
Note—Ribbon Shutter Mechanism will be found in the "2800 Section" Class 1.

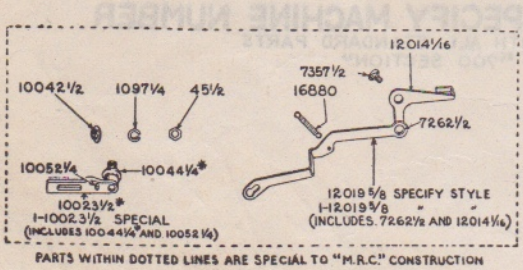
Strengthened MRC 22 2

AIR CUSHION BACK PLATE AS ILLUSTRATED ····· 1-10012 3/16 Z

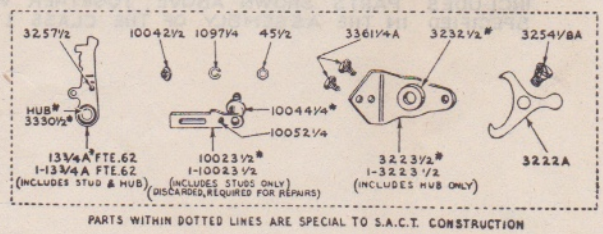
[CONSISTS OF ALL "AIR CUSHION" PARTS WITH ONE OF THE TWO GROUPS OF PARTS WITHIN THE DOTTED LINES ACCORDING TO CONSTRUCTION]

SPECIFY → S.A.C.T. OR M.R.C. AND MACHINE NUMBER





PARTS WITHIN DOTTED LINES ARE SPECIAL TO "M.R.C." CONSTRUCTION

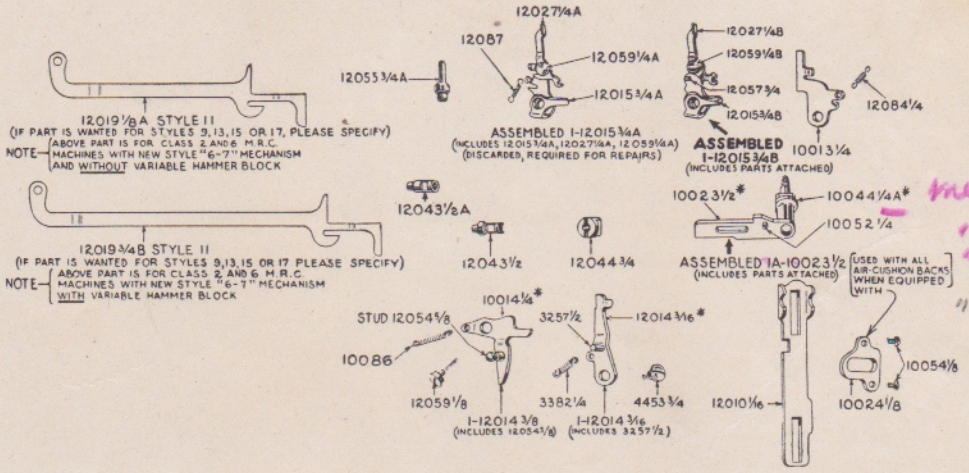


PARTS WITHIN DOTTED LINES ARE SPECIAL TO S.A.C.T. CONSTRUCTION

Class 6

10000 AND 12000 SECTIONS

Back Plates



new 109
" 173
" 208
" 257

COMPLETE BACK PLATE FOR CLASS 6 MACHINE WITHOUT "AIR CUSHION" AND WITHOUT "RIBBON SHUTTER" → 1A-10012 1/4E
(DISCARDED, REQUIRED FOR REPAIRS REPLACED WITH BACK PLATE 1A-10012 1/4F)

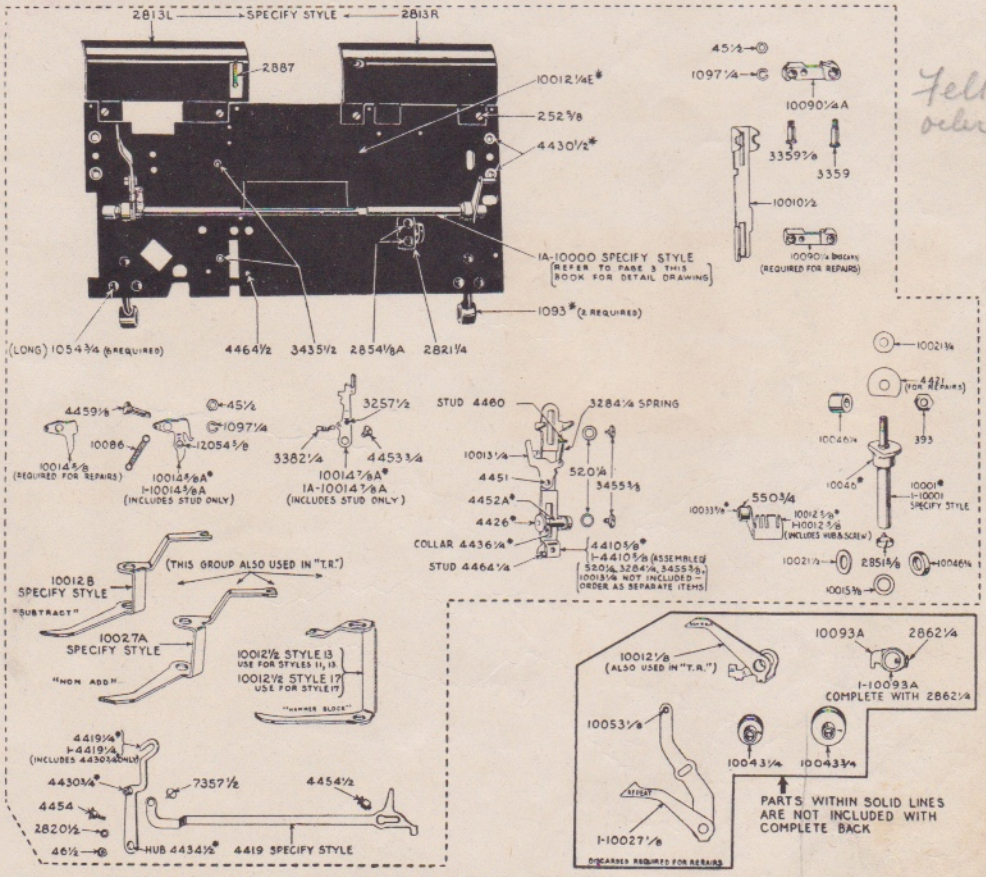
COMPLETE BACK PLATE FOR CLASS 6 MACHINE WITH "AIR CUSHION" AND "RIBBON SHUTTER" → 1A-10012 1/4F

→ SPECIFY MACHINE NUMBER

NOTE

SPRING BARREL (2-3323 1/2) AND LINE FINDER (1B-2810 3/4) NOT INCLUDED WITH COMPLETE BACKS, ORDER AS SEPARATE ITEMS

PARTS WITHIN DOTTED LINES ARE ASSEMBLED UNDER SYMBOL NUMBER 1A-10012 1/4E SAME ASSEMBLY WITH "AIR CUSHION" AND "RIBBON SHUTTER", SYMBOLIZED 1A-10012 1/4F



Felt Ring order 248

Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

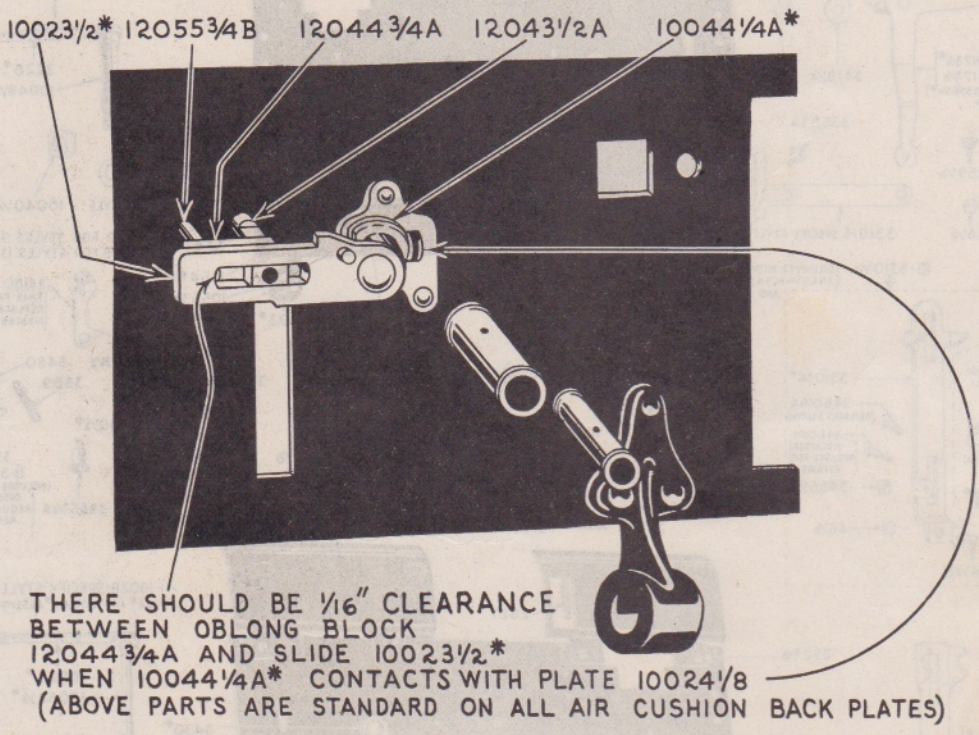
(*) Parts not supplied

Class 6

Class 6

Mrc 208.

Air Cushion Device Change



On MRC and SACT Carriages equipped with the present Air Cushion Device, the small oblong block 12044¾A now has $\frac{1}{16}''$ less stock on the right side, which prevents the slotted end of slide 10023½ from contacting the 12044¾A. This will relieve pin 12055¾B and post 12043½A from any impact.

A limited supply of the shorter 12044¾A is obtainable on supply order, and this part should also be installed on machines if it becomes necessary to replace pin 12055¾B and post 12043½A.

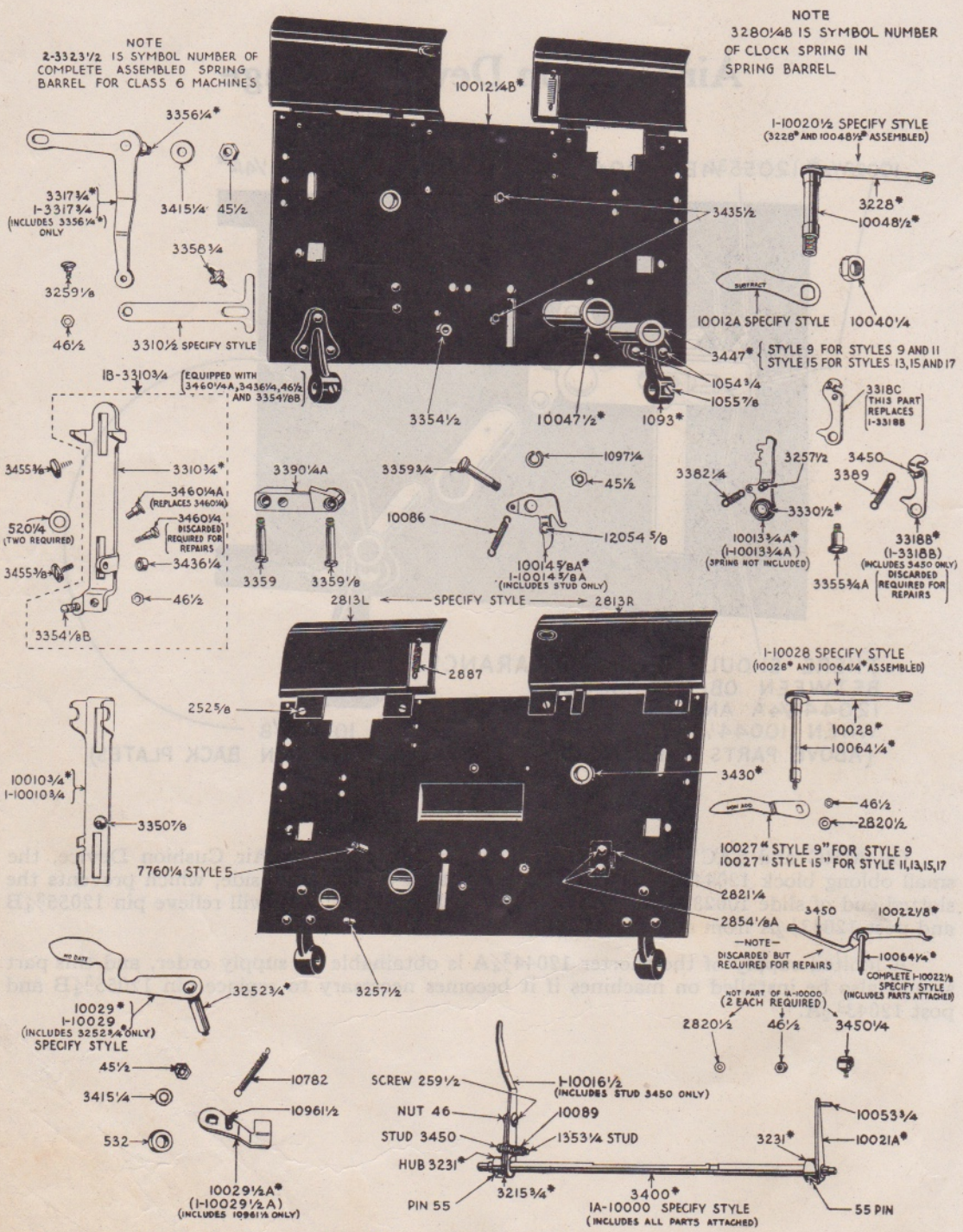
Class 6

10000 AND 12000 SECTIONS

Back Plates

COMPLETE BACK PLATE ASSEMBLED WITH PARTS AS SHOWN BELOW 1A-10012¼B
COMPLETE BACK PLATE ASSEMBLED WITH PARTS AS SHOWN BELOW AND EQUIPPED WITH AIR CUSHION MECHANISM 1A-12012 3/16
(SPRING BARREL (2-3323½) AND LINE FINDER (1B-2810 34) NOT INCLUDED — ORDER AS SEPARATE ITEMS)
} SPECIFY MACHINE NUMBER AND STYLE

BACK PLATES 1-10012¼B AND 1-10012 5/16 ARE DISCARDED BUT REQUIRED FOR REPAIRS.

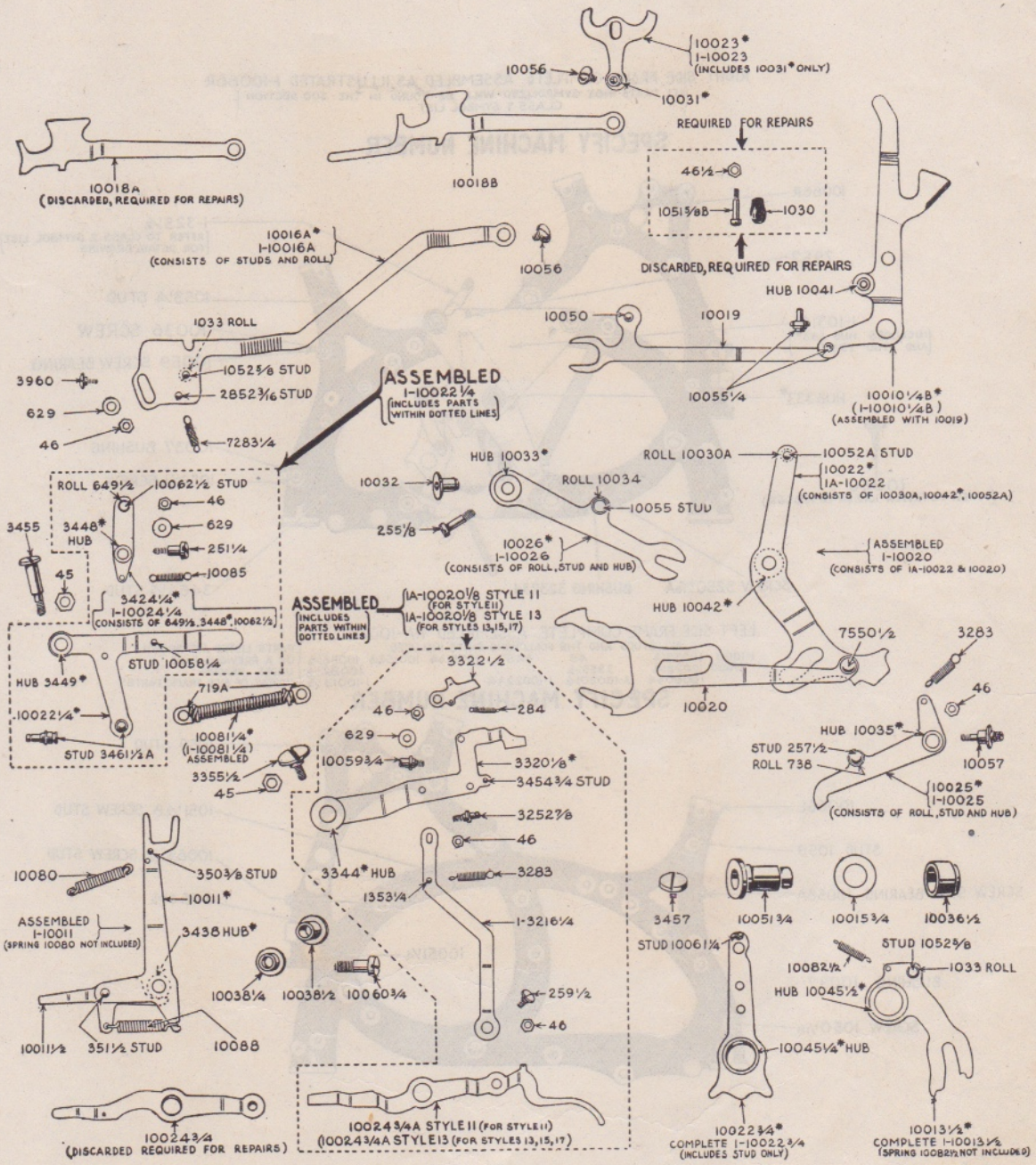


Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

(*) Parts not supplied

Class 6

10000 SECTION



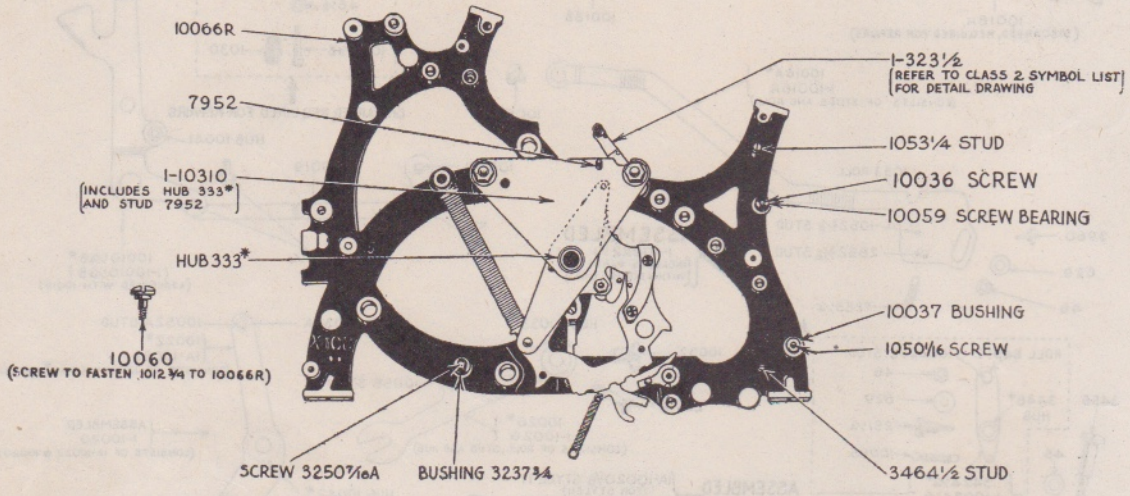
(*) **Parts not supplied**

Class 6

10000 AND 10300 SECTIONS

RIGHT SIDE FRAME COMPLETE ASSEMBLED AS ILLUSTRATED 1-10066R
(ALL PARTS NOT SYMBOLIZED WILL BE FOUND IN THE 800 SECTION CLASS 1 SYMBOL LIST)

SPECIFY MACHINE NUMBER

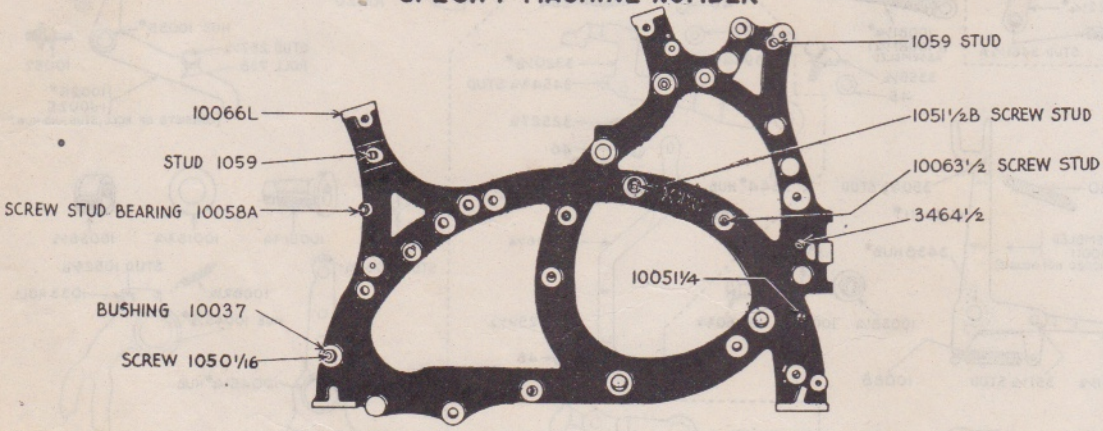


LEFT SIDE FRAME COMPLETE ASSEMBLED 11A-10066L
ALL STUDS AND THE FOLLOWING PARTS INCLUDED

1-10011	10038¼	45	3457	10051¾	10015¾	10036½
10080	10038½	3355½				10082½
	10060¾	1A-10020 1/8	1-10022¾			1-10013½

PARTS LISTED ARE SHOWN ON A PREVIOUS PAGE UNDER HEADING "DETAIL OF SIDE FRAME PARTS"

SPECIFY MACHINE NUMBER



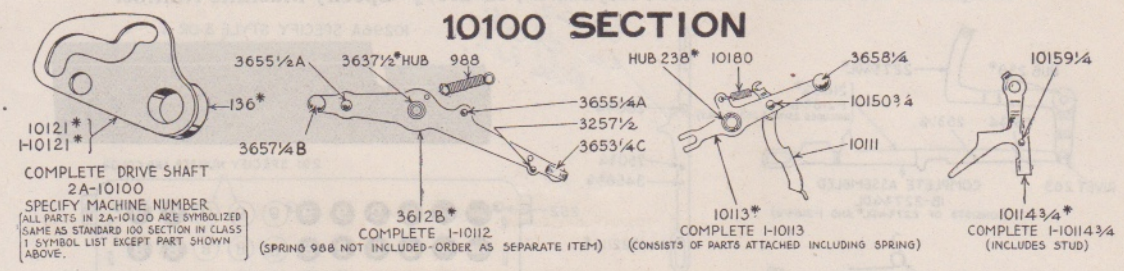
Refer to page 20 for "Bases and Cases"

(*) Parts not supplied

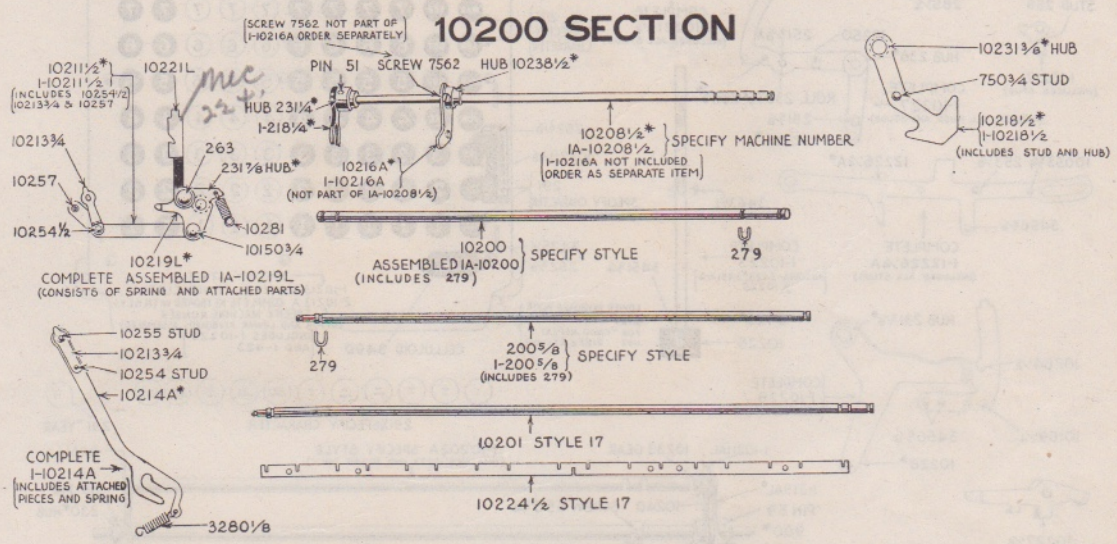
Class 6

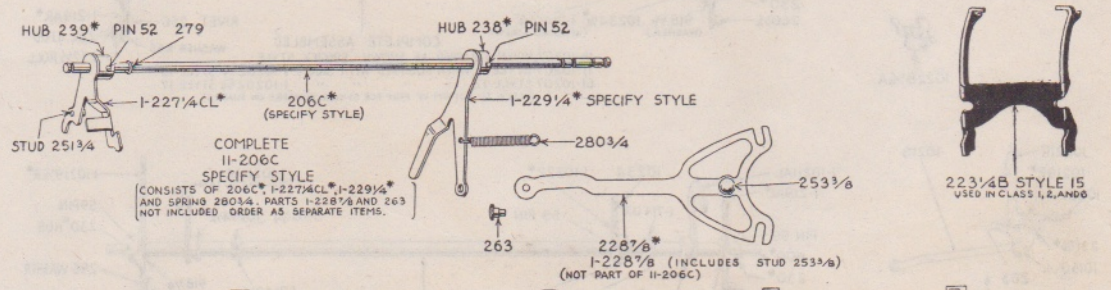
10100 AND 10200 SECTIONS

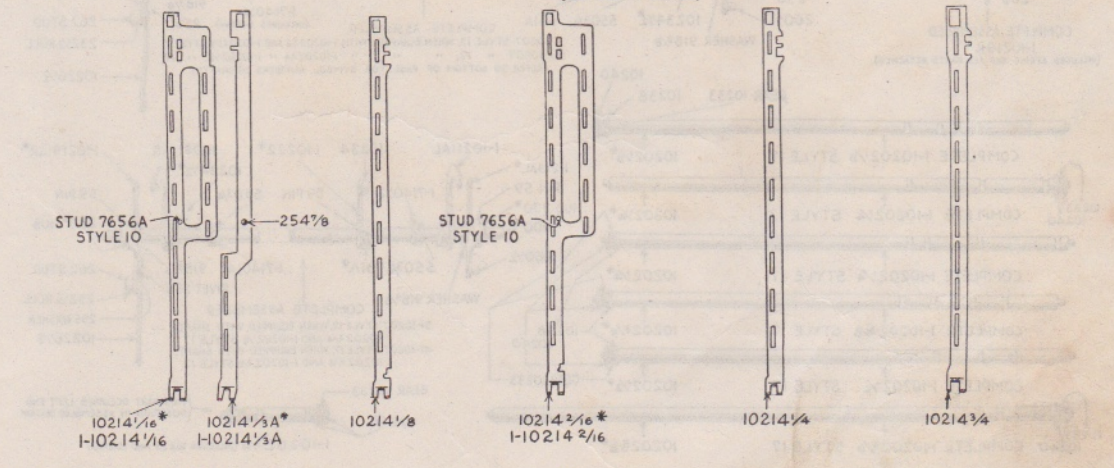
10100 SECTION



10200 SECTION





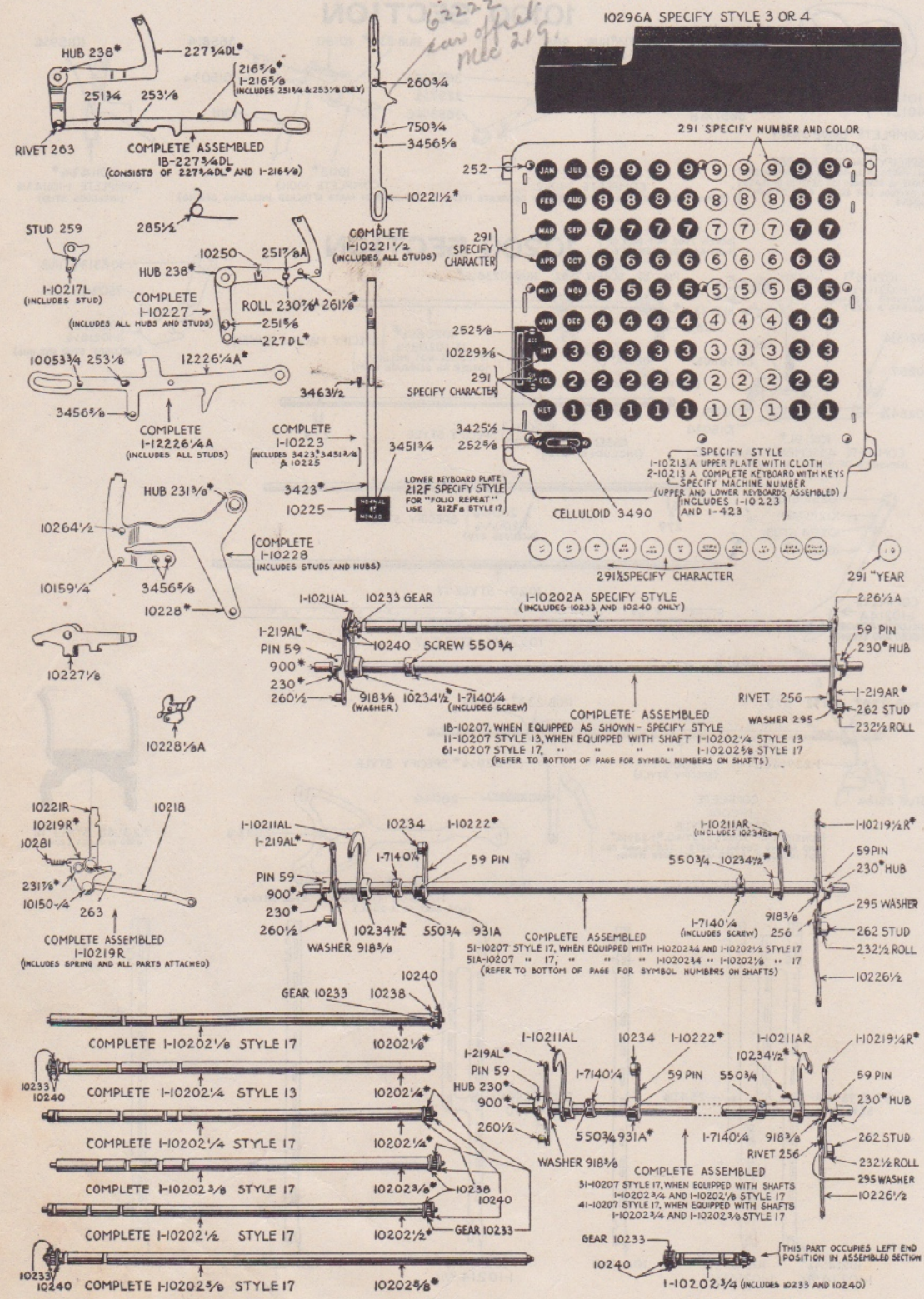


(*) Parts not supplied

Class 6

10200 SECTION

Complete "200 Section" (Without Keyboard), 1B-201½—Specify Machine Number

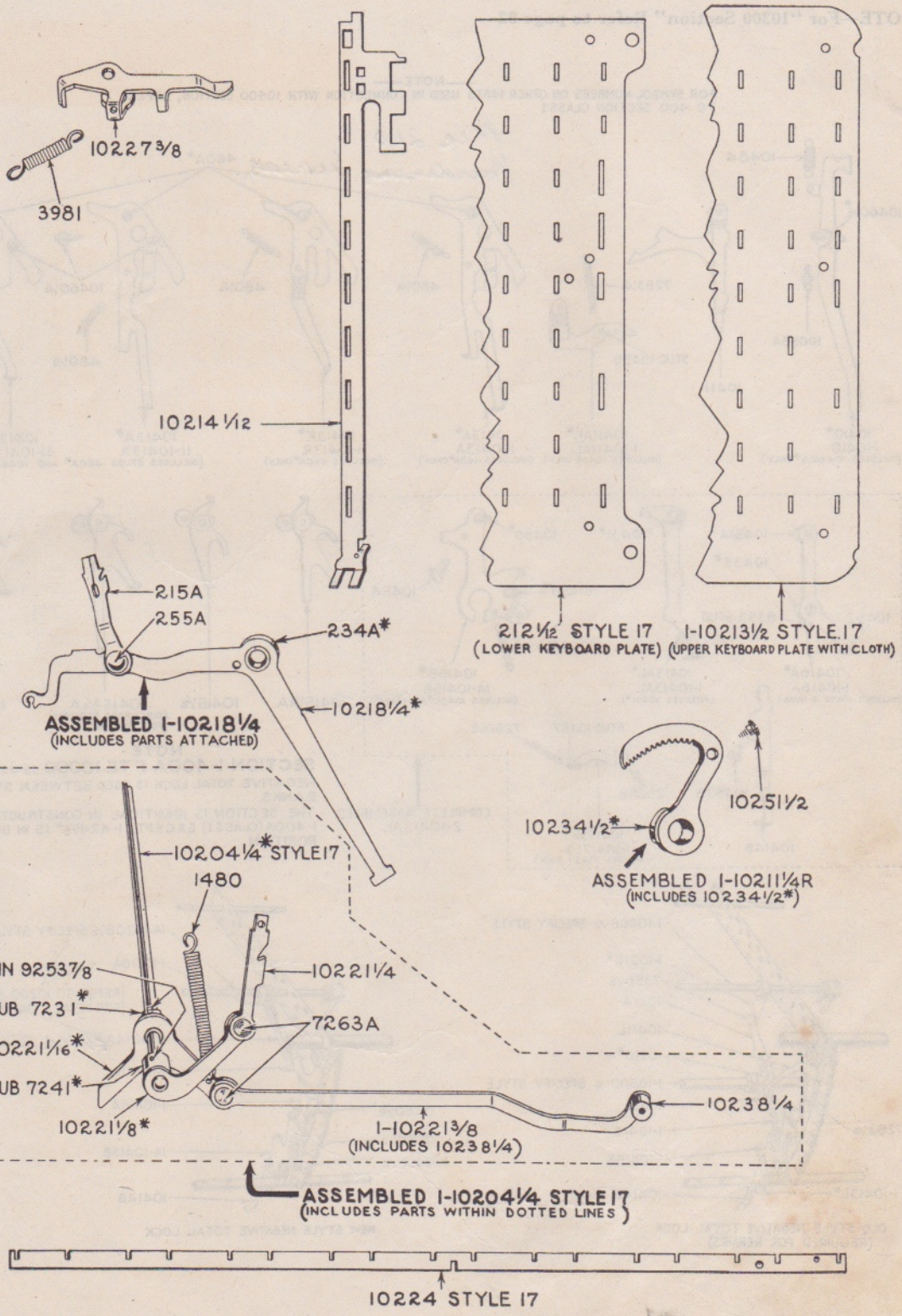


(*) Parts not supplied

Class 6

10200 SECTION

Folio Repeat Key Mechanism for £, s, d. Machines



(*) Parts not supplied

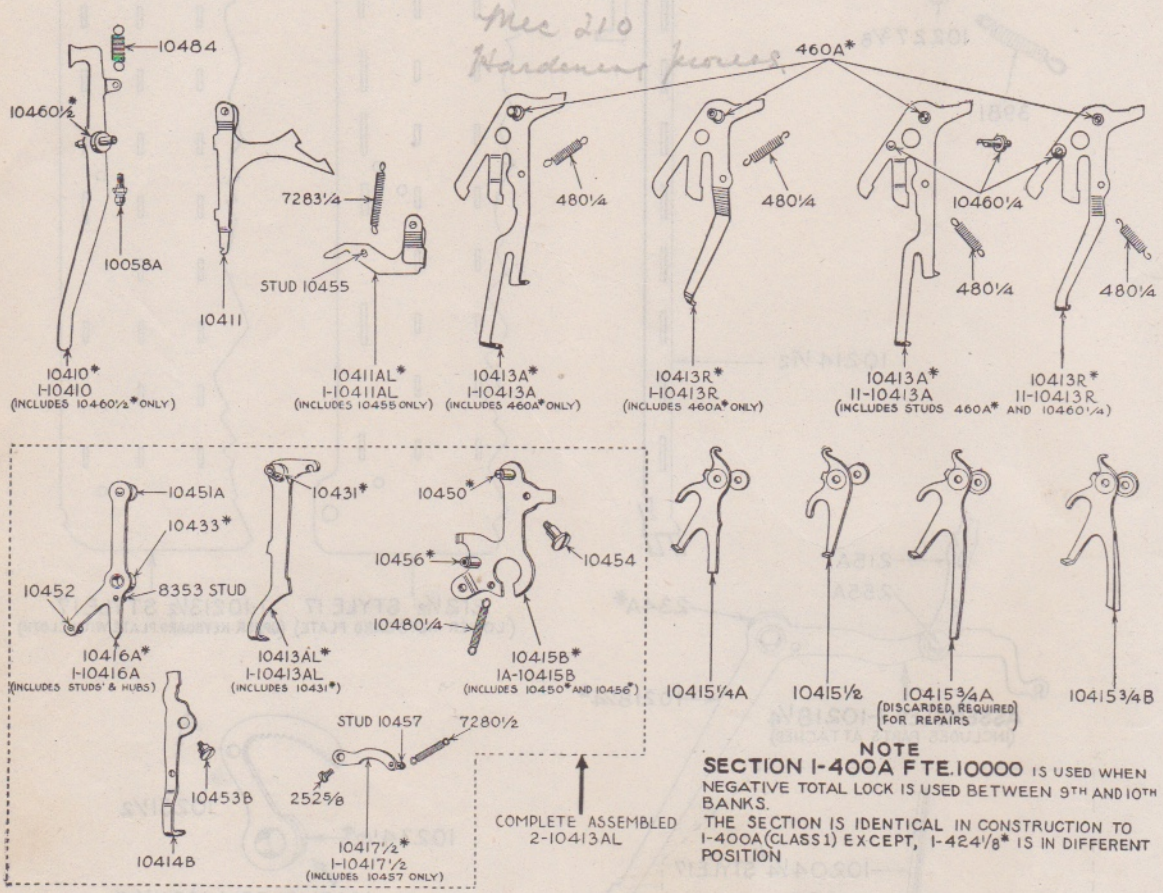
Class 6

10400 SECTION

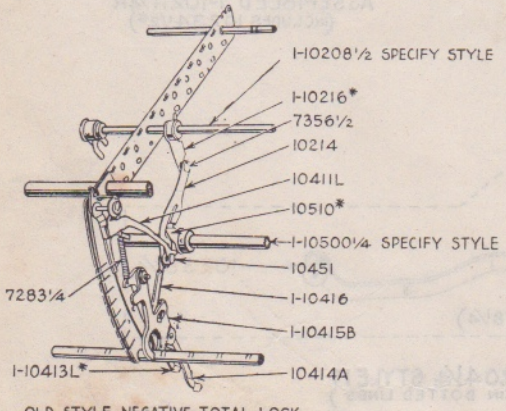
NOTE—For "10300 Section" Refer to page 92

—NOTE—
FOR SYMBOL NUMBERS ON OTHER PARTS USED IN CONNECTION WITH 10400 SECTION, REFER TO 400 SECTION CLASS1

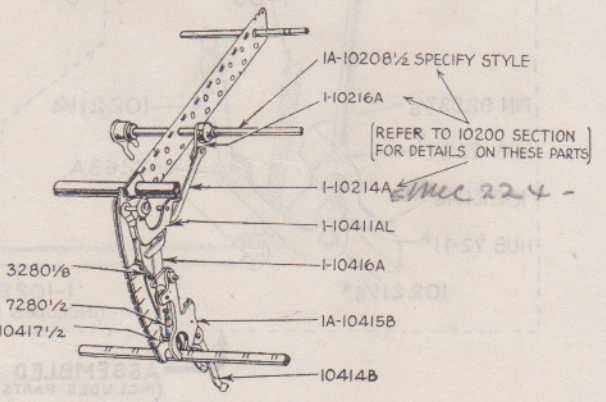
Mec 210
Hardening process



NOTE
SECTION I-400A F TE.10000 IS USED WHEN NEGATIVE TOTAL LOCK IS USED BETWEEN 9TH AND 10TH BANKS.
THE SECTION IS IDENTICAL IN CONSTRUCTION TO I-400A (CLASS 1) EXCEPT, I-424⅛* IS IN DIFFERENT POSITION



OLD STYLE NEGATIVE TOTAL LOCK
(REQUIRED FOR REPAIRS)

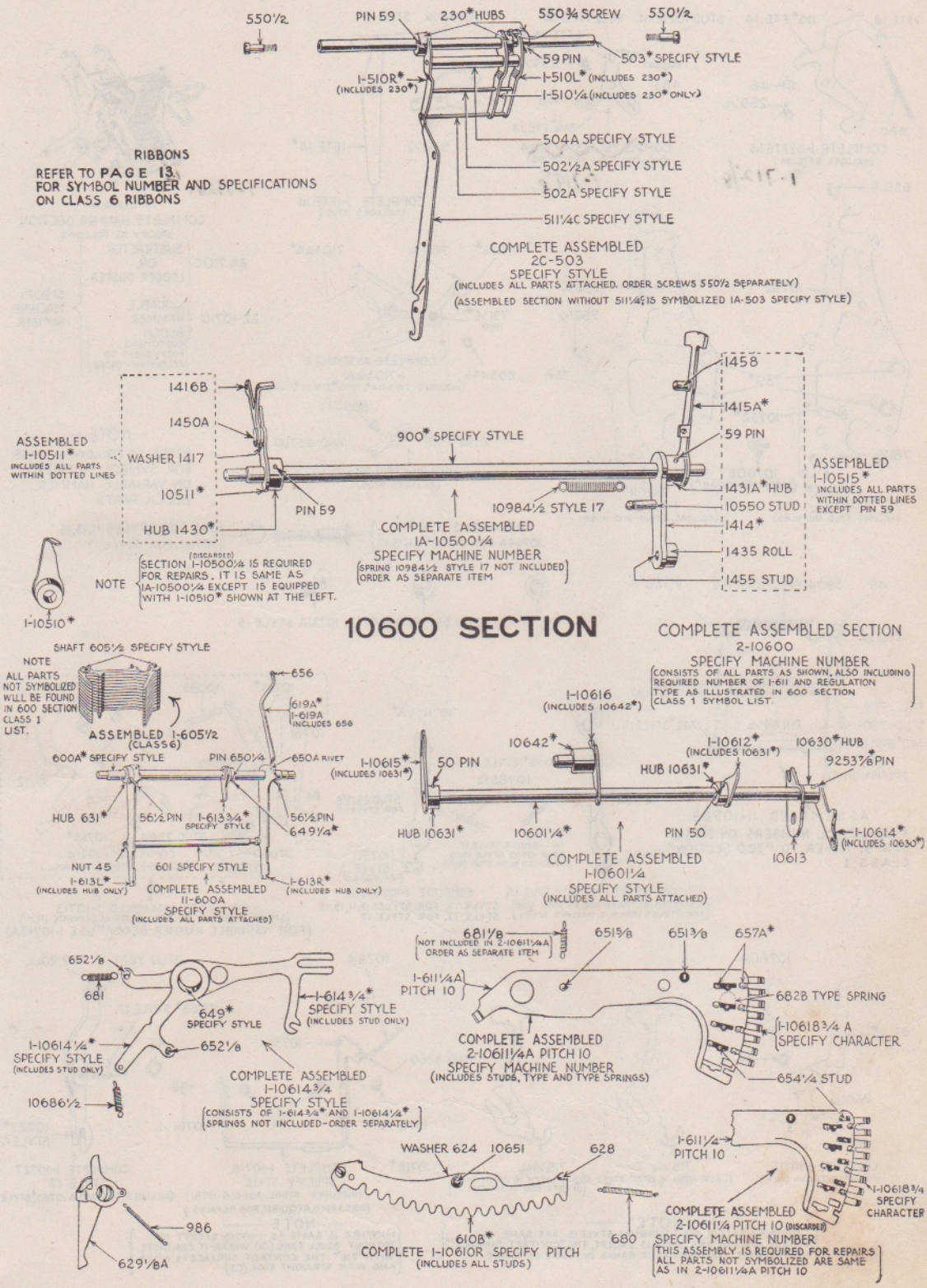


NEW STYLE NEGATIVE TOTAL LOCK

(*) **Parts not supplied**

Class 6

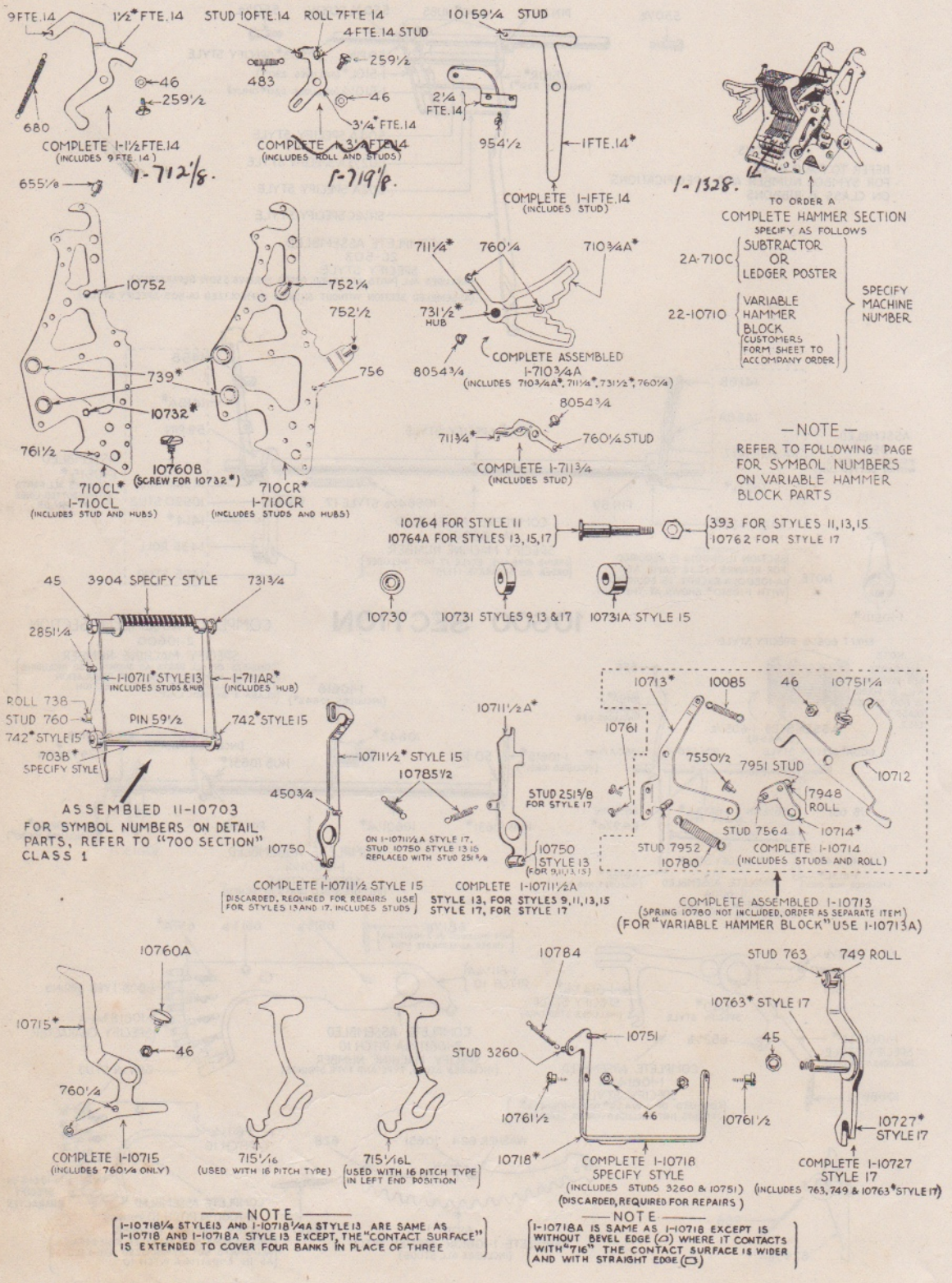
10500 AND 10600 SECTIONS



(*) Parts not supplied

Class 6

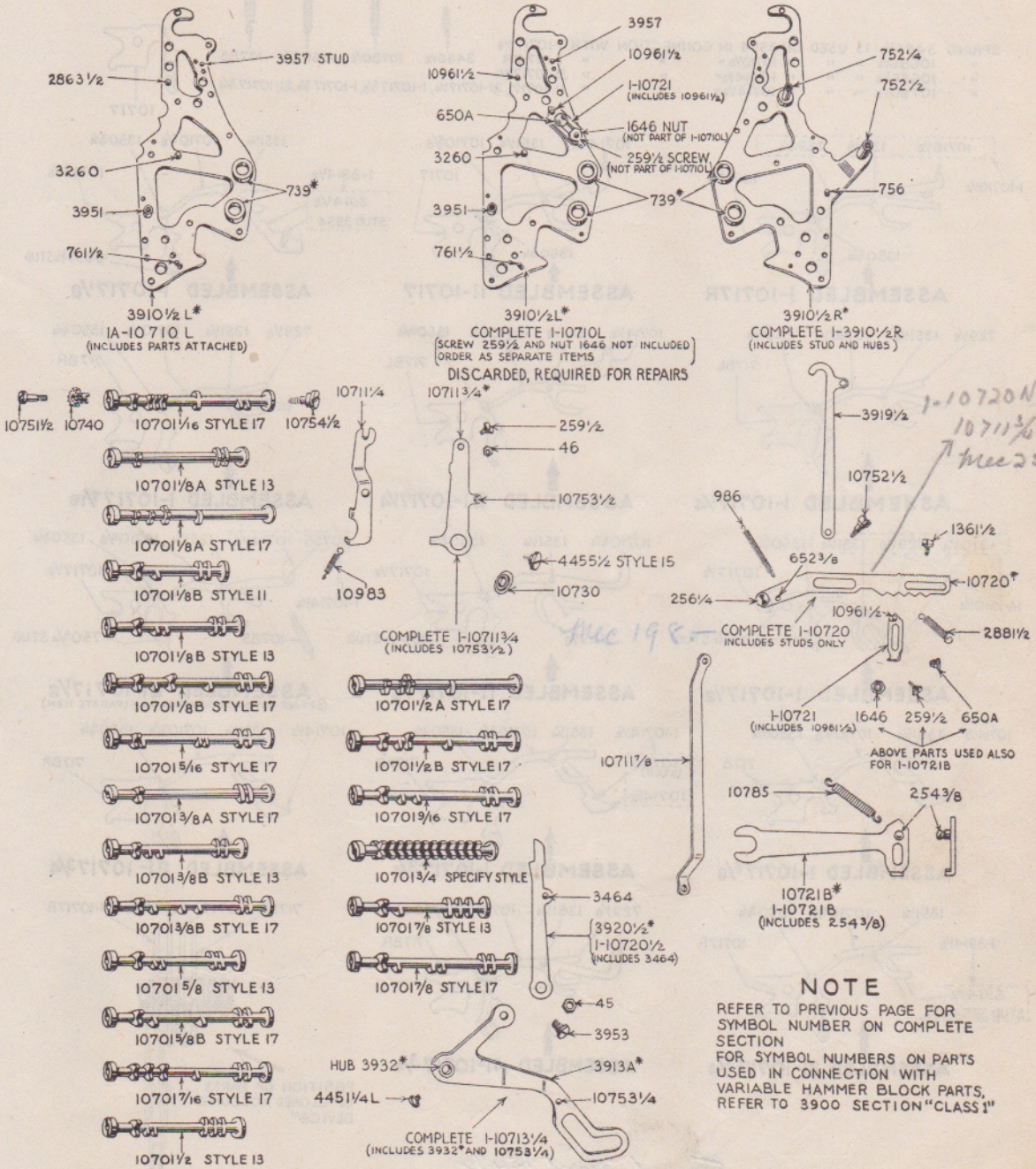
10700 SECTION



(*) **Parts not supplied**

Class 6

10700 SECTION



NOTE

REFER TO PREVIOUS PAGE FOR SYMBOL NUMBER ON COMPLETE SECTION

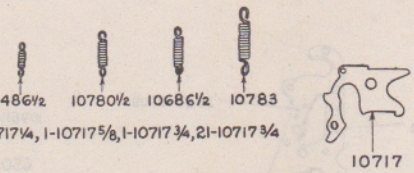
FOR SYMBOL NUMBERS ON PARTS USED IN CONNECTION WITH VARIABLE HAMMER BLOCK PARTS, REFER TO 3900 SECTION "CLASS 1"

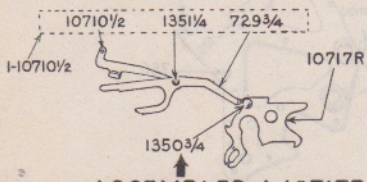
(*) Parts not supplied

Class 6

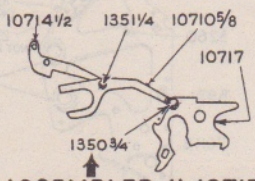
10700 SECTION

SPRING 3486½ IS USED ON 3954 IN CONNECTION WITH 1-10717⅛
" 10686½ " " " 10710½" " " 1-10717R
" 10686½ " " " 1-3914½" " " 31-10717¾
" 10780½ " " " 10714½" " " 11-10717, 21-10717¼, 1-10717⅝, 1-10717¾, 21-10717¾

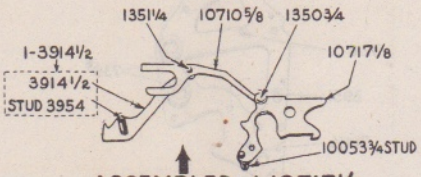




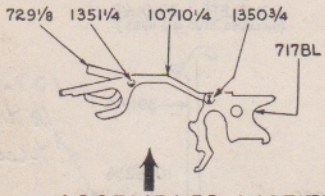
ASSEMBLED 1-10717R



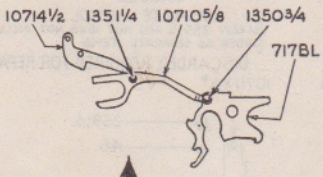
ASSEMBLED 11-10717



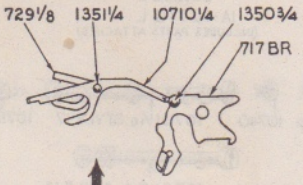
ASSEMBLED 1-10717⅛



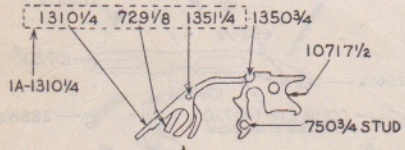
ASSEMBLED 1-10717¼



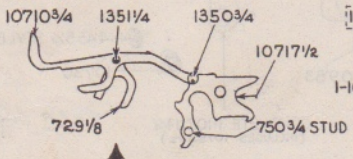
ASSEMBLED 21-10717¼



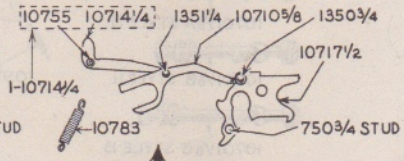
ASSEMBLED 1-10717 7/16



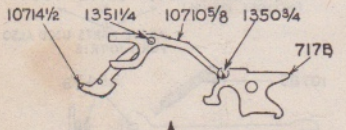
ASSEMBLED 1-10717½



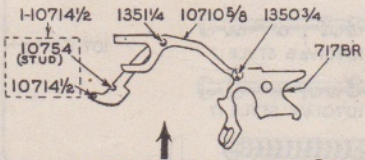
ASSEMBLED 11-10717½



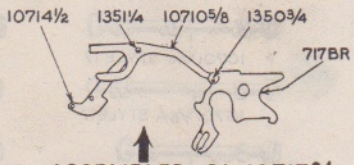
ASSEMBLED 21-10717½
(SPRING NOT INCLUDED, ORDER AS SEPARATE ITEM)



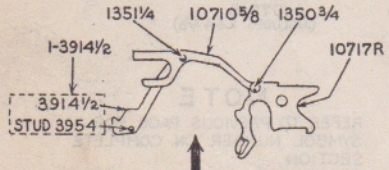
ASSEMBLED 1-10717⅝



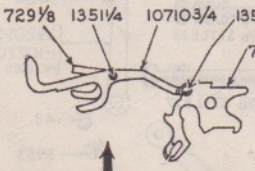
ASSEMBLED 1-10717¾



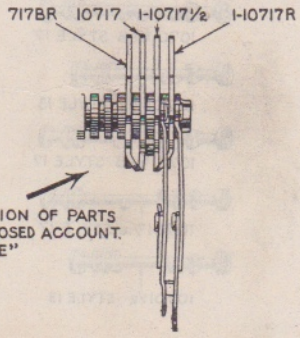
ASSEMBLED 21-10717¾



ASSEMBLED 31-10717¾



ASSEMBLED 41-10717¾



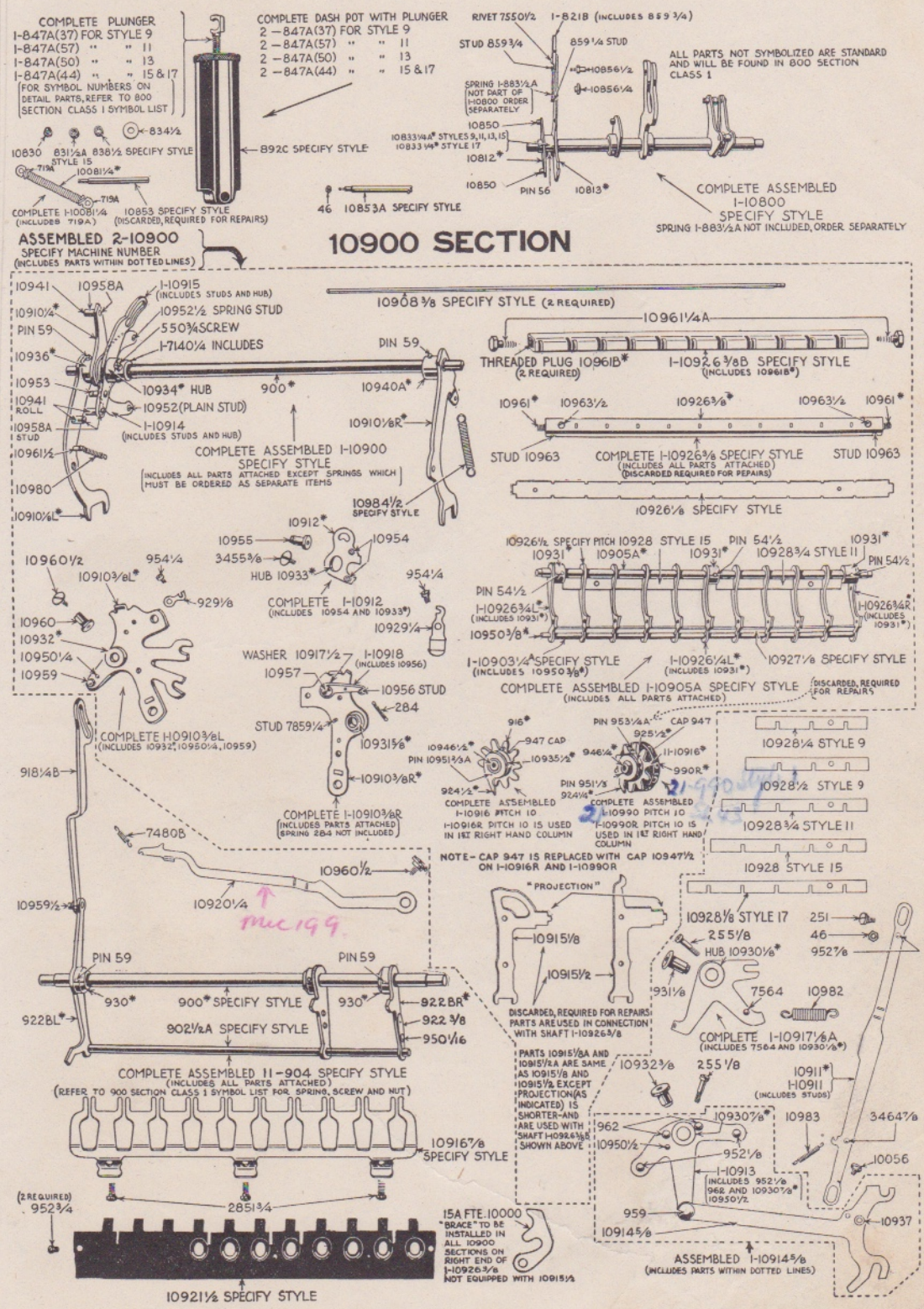
POSITION OF PARTS IN "CLOSED ACCOUNT DEVICE"

tapered stud 754⅞
on 1-729⅜ see 236

(*) Parts not supplied

Class 6

10800 AND 10900 SECTIONS

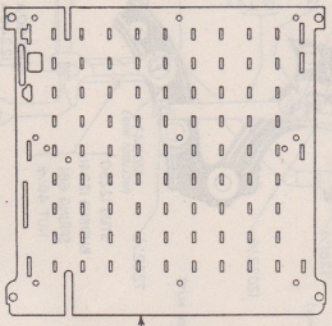


(*) Parts not supplied

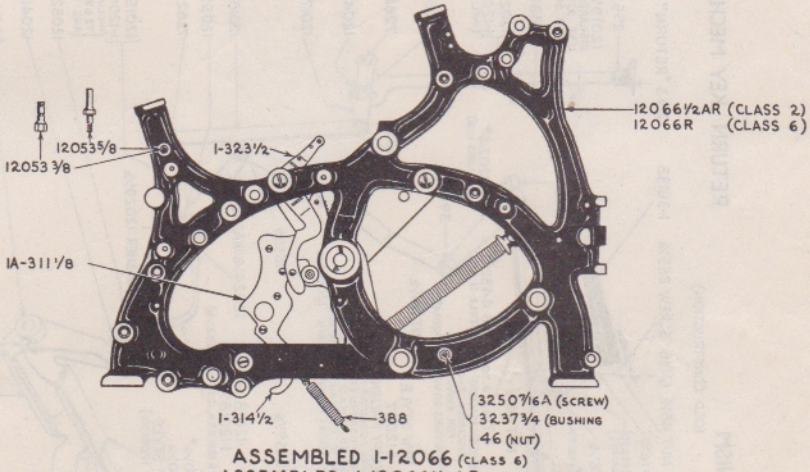
Class 6

Class 6

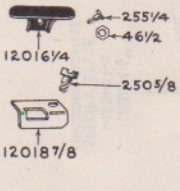
Vertical Posting Bar

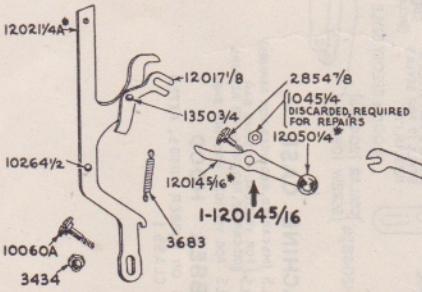


212F SPECIFY STYLE
(SPECIFY IF FOR FRACTIONS)

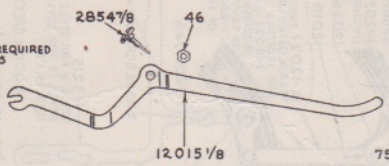


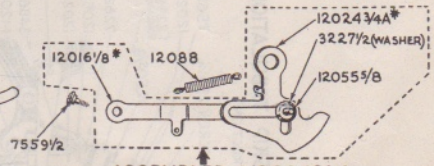
ASSEMBLED 1-12066 (CLASS 6)
ASSEMBLED 1-12066½AR (CLASS 2)
INCLUDES PARTS ATTACHED
PARTS NOT SYMBOLIZED WILL BE FOUND IN CLASSES 1 AND 2 "300" SECTION





ASSEMBLED 1-12021¼A
(INCLUDES PARTS ATTACHED)





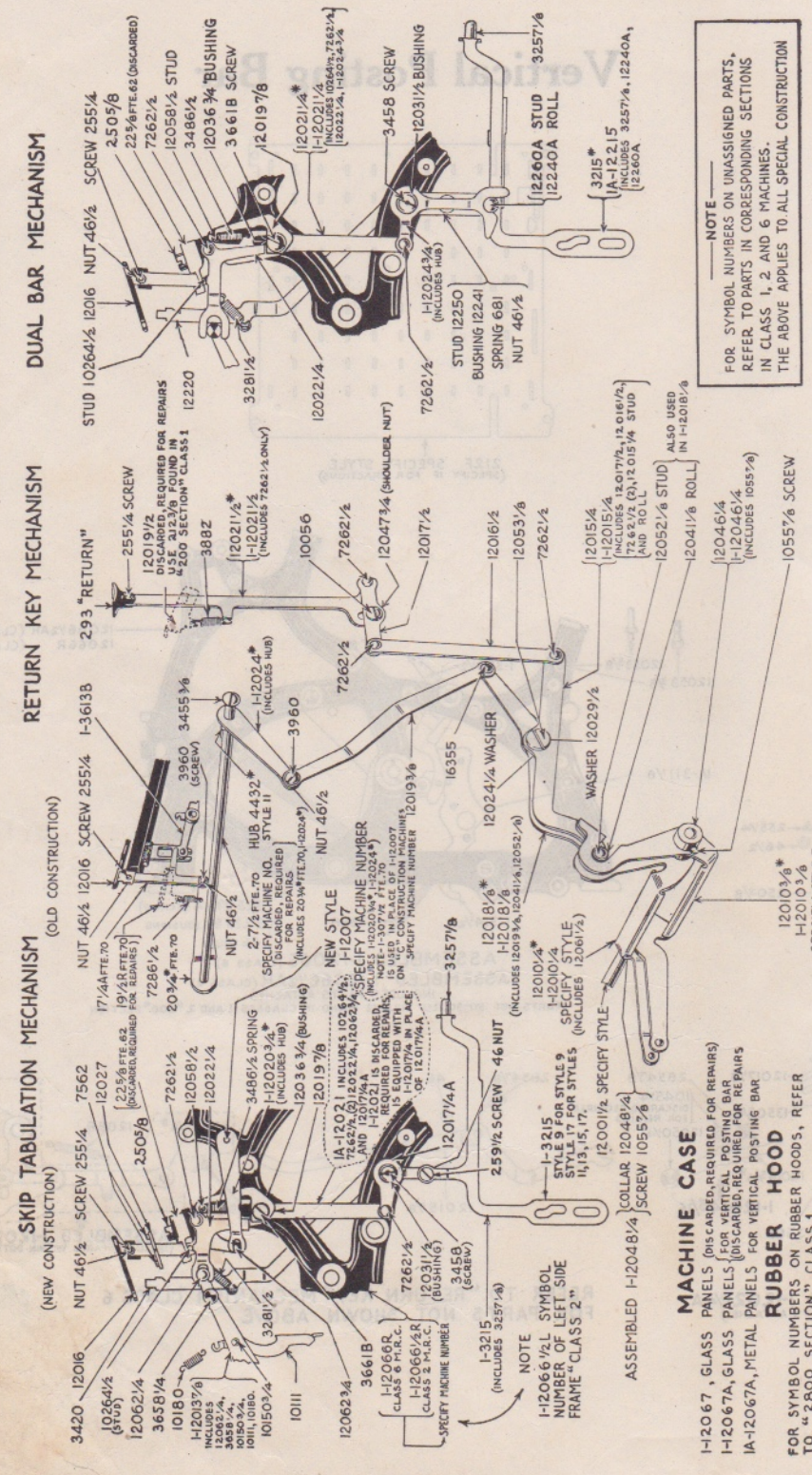
ASSEMBLED 1-12024¾A
(INCLUDES PARTS WITHIN DOTTED LINES)

REFER TO "RETURN KEY" MECHANISM CLASS 6
FOR PARTS NOT SHOWN ABOVE

Class 6

12000 SECTION (MRC)

Skip Tabulation, Return Key and Dual Bar Mechanism



(*) Parts not supplied

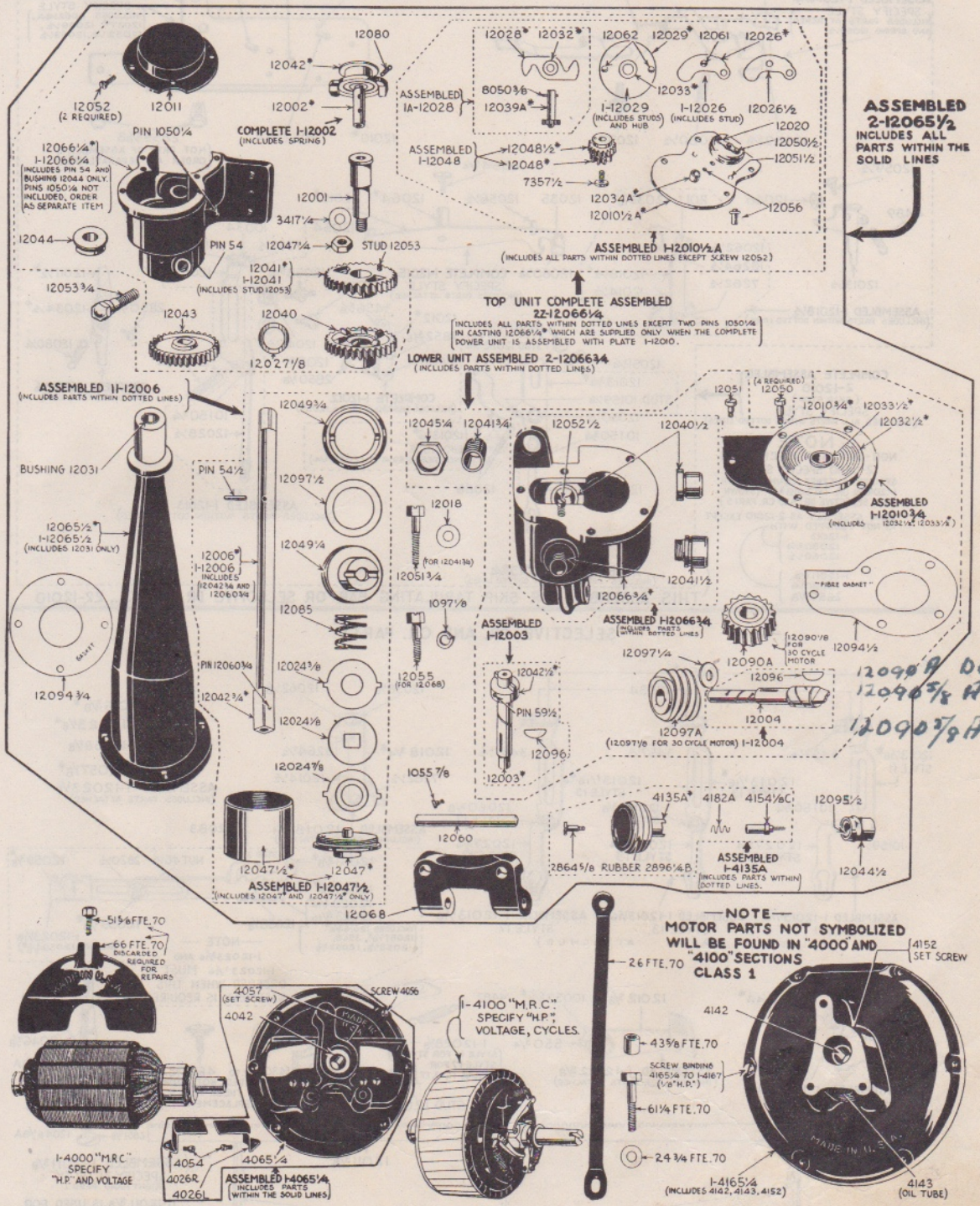
Class 6

NOTE
Gear 12090A and 12097A for 1200 RPM Motor
Gear 12090⅛ and 12097⅛ for 900 RPM Motor
Gear 12090⅝ and 12097⅝ for 1500 RPM Motor

12000 SECTION (MRC)

Power Unit

Complete Unit (2-12065½) and Skip Stop Plate (2-12010) assembled **3-12065½**
Complete Unit (2-12065½) and Non-skip Stop Plate (12-12010) assembled **13-12065½**
Complete Unit (2-12065½) and Selective DR and CR Plate (22-12010) assembled **23-12065½**



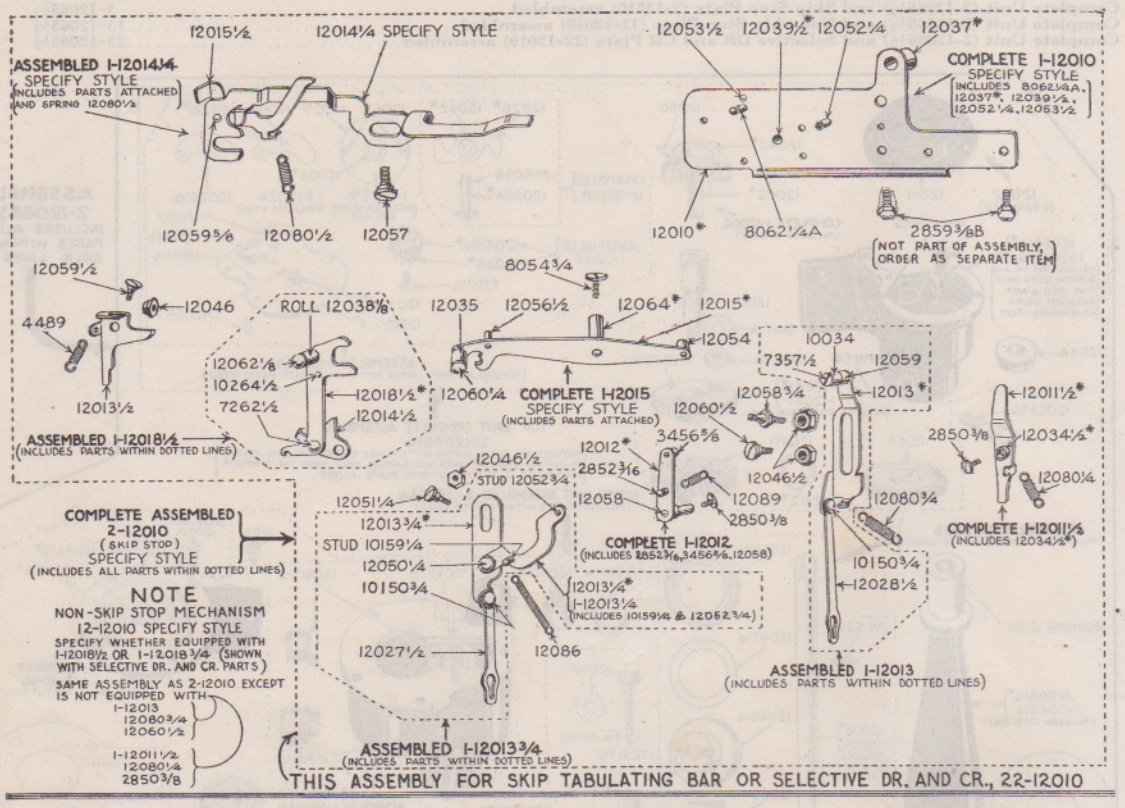
NOTE—When complete motor is desired, follow these instructions—Specify MRC, HP, Voltage, Cycles and whether AC or DC—No symbol number covering complete AC Motor.

(*) Parts not supplied

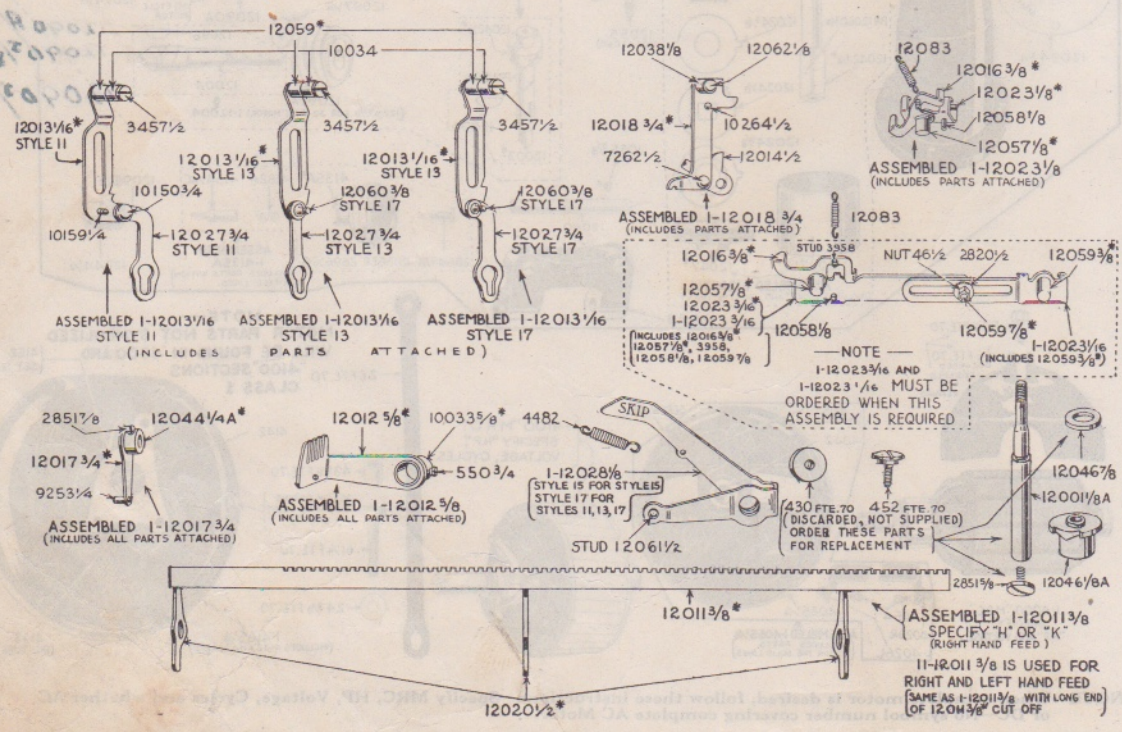
Class 6

12000 SECTION (MRC)

Power Unit Plate and Selective DR and CR Parts



SELECTIVE DR. AND CR. PARTS

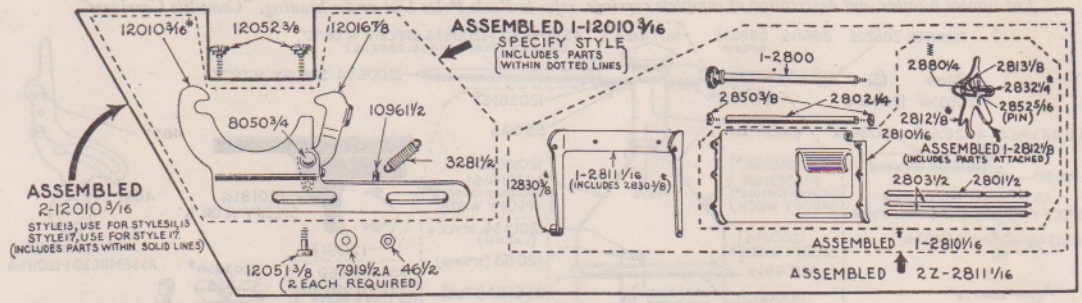


(*) Parts not supplied

Class 6

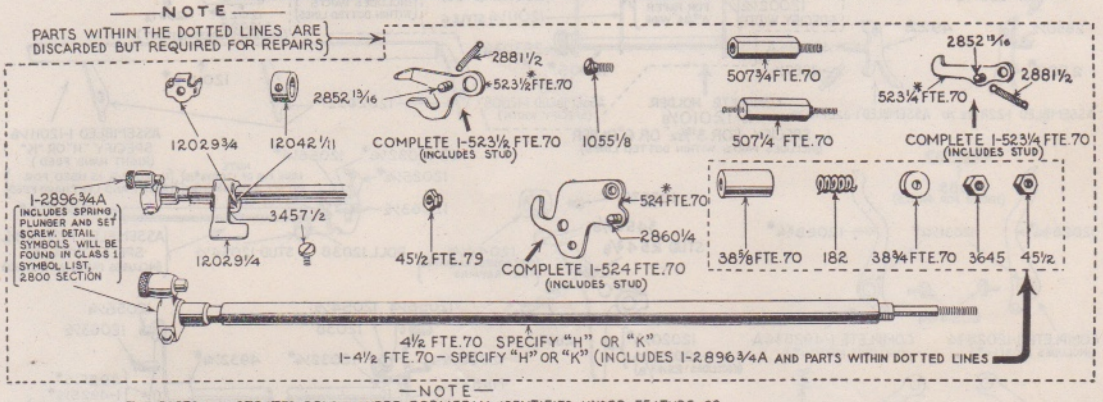
12000 SECTION (MRC)

Carriage Detail, Total Normal, "6-7" Mechanism, Side Frames, Keyboard



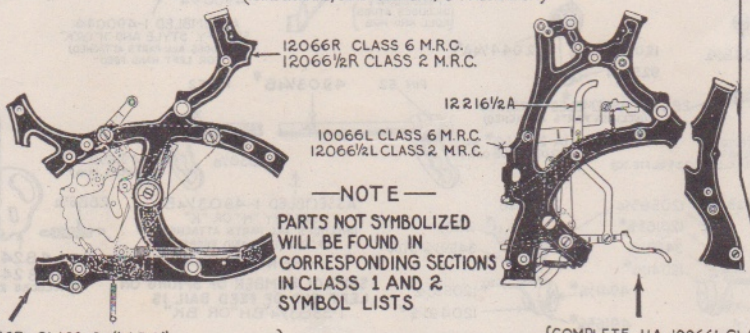
—NOTE—

PARTS WITHIN THE DOTTED LINES ARE DISCARDED BUT REQUIRED FOR REPAIRS



—NOTE—

THE PARTS ILLUSTRATED BELOW WERE FORMERLY IDENTIFIED UNDER FEATURE 62
(TOTAL NORMAL, DUAL TOUCH BAR, 6-7 MECHANISM)



—NOTE—

PARTS NOT SYMBOLIZED WILL BE FOUND IN CORRESPONDING SECTIONS IN CLASS 1 AND 2 SYMBOL LISTS

—NOTE—

2-10213A UPPER KEYBOARD WITH CLOTH CLASS 6 SPECIFY STYLE

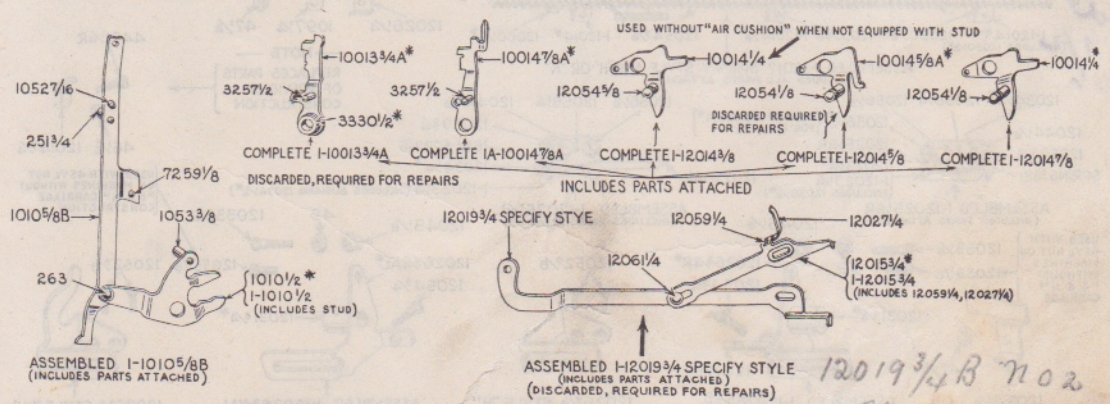
2-3413 UPPER KEYBOARD WITH CLOTH CLASS 2 SPECIFY STYLE

WHEN THE ABOVE MENTIONED KEYBOARDS ARE USED TO REPLACE KEYBOARDS ON MACHINES EQUIPPED WITH THE OLD STYLE "TOTAL NORMAL" MECHANSM, (PREVIOUS TO CONSTRUCTION AS SHOWN) ORDER THE FOLLOWING PARTS. 1-12226 1/2A, 12216 1/2A AND 10180

1-12066R CLASS 6 "M.R.C."
1-12066 1/2R CLASS 2 "M.R.C"
1-12066 1/2AR CLASS 2 "M.R.C.", "V.P.B."
(INCLUDES PARTS ATTACHED AS ILLUSTRATED)

SPECIFY MACHINE NUMBER

COMPLETE 11A-10066L CLASS 6 "M.R.C."
COMPLETE 21-10066L CLASS 6 "M.R.C.", "V.H.B."
COMPLETE 1-12066 1/2L CLASS 2 "M.R.C."
(INCLUDES PARTS ATTACHED AS ILLUSTRATED)



12019 3/4 B No 2
Specify Style.

Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

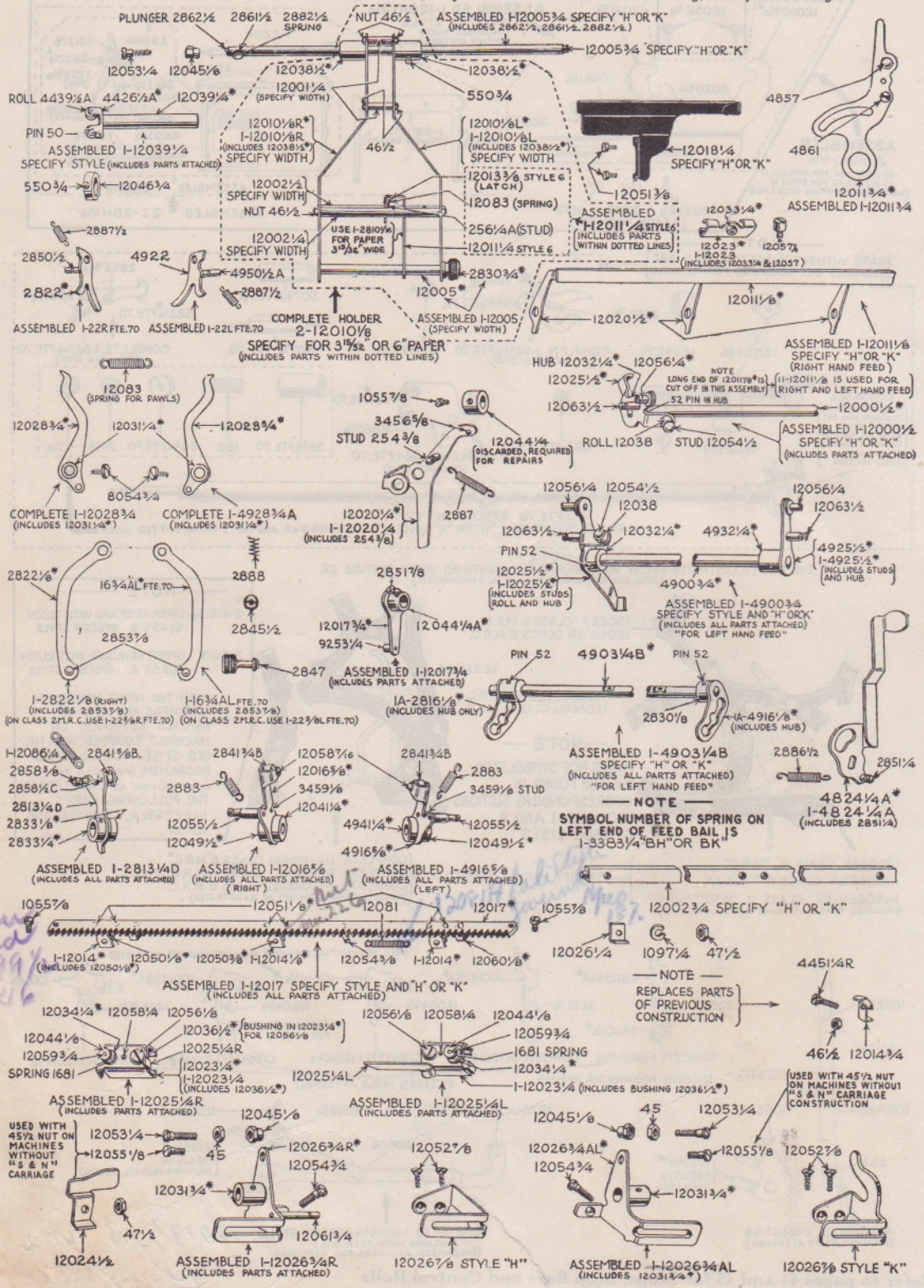
(*) Parts not supplied

Class 6

12000 SECTION

Carriage Detail

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



(*) Parts not supplied

Class 6

12000 SECTION

Rack Bar 1-12017

When Rack Bar, 1-12017, is ordered for a carriage equipped with brackets 1-14R & 1-14L FTE 70 which have the slotted ears bent in the opposite direction to those shown at bottom of page 18 under Symbol Number 1-12026¾R&L, it will be necessary to order the following parts:

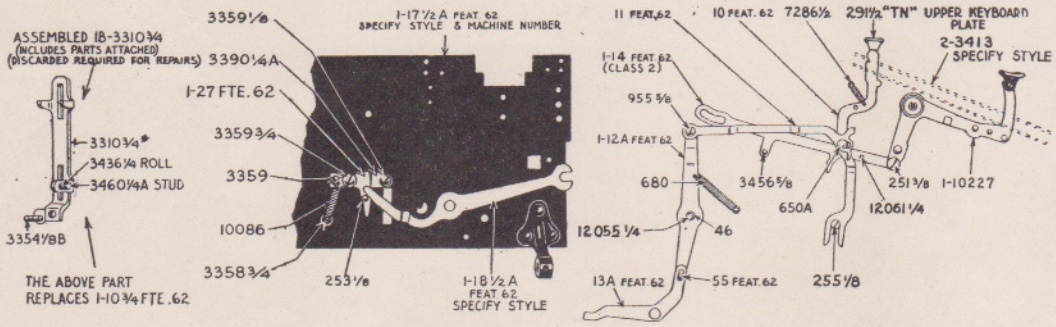
Symbol Number		Number Required
46½		1
4451¼R		1
12014¾		1
12002¾	Specify "H" or "K"	1
1–12017	Specify Style and "H" or "K"	1
12052⅞		2
12054¾		2
12026⅞	"H" or "K"	1 each
1–12026¾	"R" and "L"	1 each
1–12025¼	"R" and "L"	1 each

Class 6

FEATURE 62 AND 12000 SECTION (MRC)

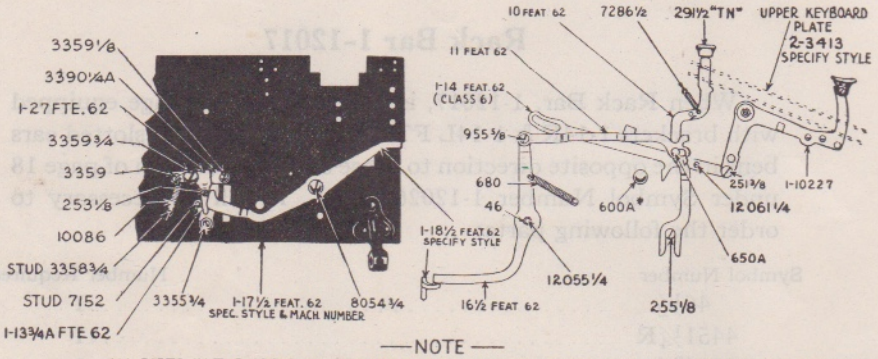
Back plates for "Total Normal" and "6-7" Parts

For other Back Plates and Air Cushion Parts, refer to pages 88, 89 and 90



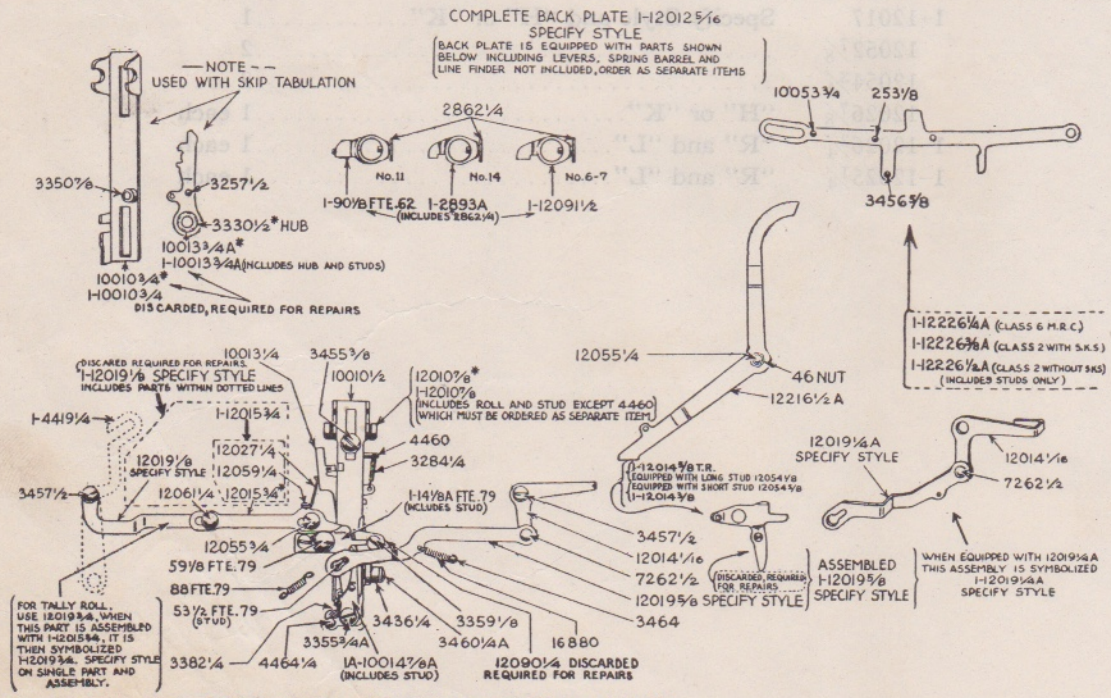
—NOTE—

ALL PARTS IN THE ABOVE ILLUSTRATION ARE DISCARDED BUT REQUIRED FOR REPAIRS AND ARE SUPPLIED AS SINGLE UNITS ONLY WHERE COMPLETE SECTION IS REQUIRED, LATE STYLE PARTS WILL BE FURNISHED.



—NOTE—

ALL PARTS IN THE ABOVE ILLUSTRATION ARE DISCARDED BUT REQUIRED FOR REPAIRS AND ARE SUPPLIED AS SINGLE UNITS ONLY. WHERE COMPLETE SECTION IS REQUIRED, LATE STYLE PARTS WILL BE FURNISHED.



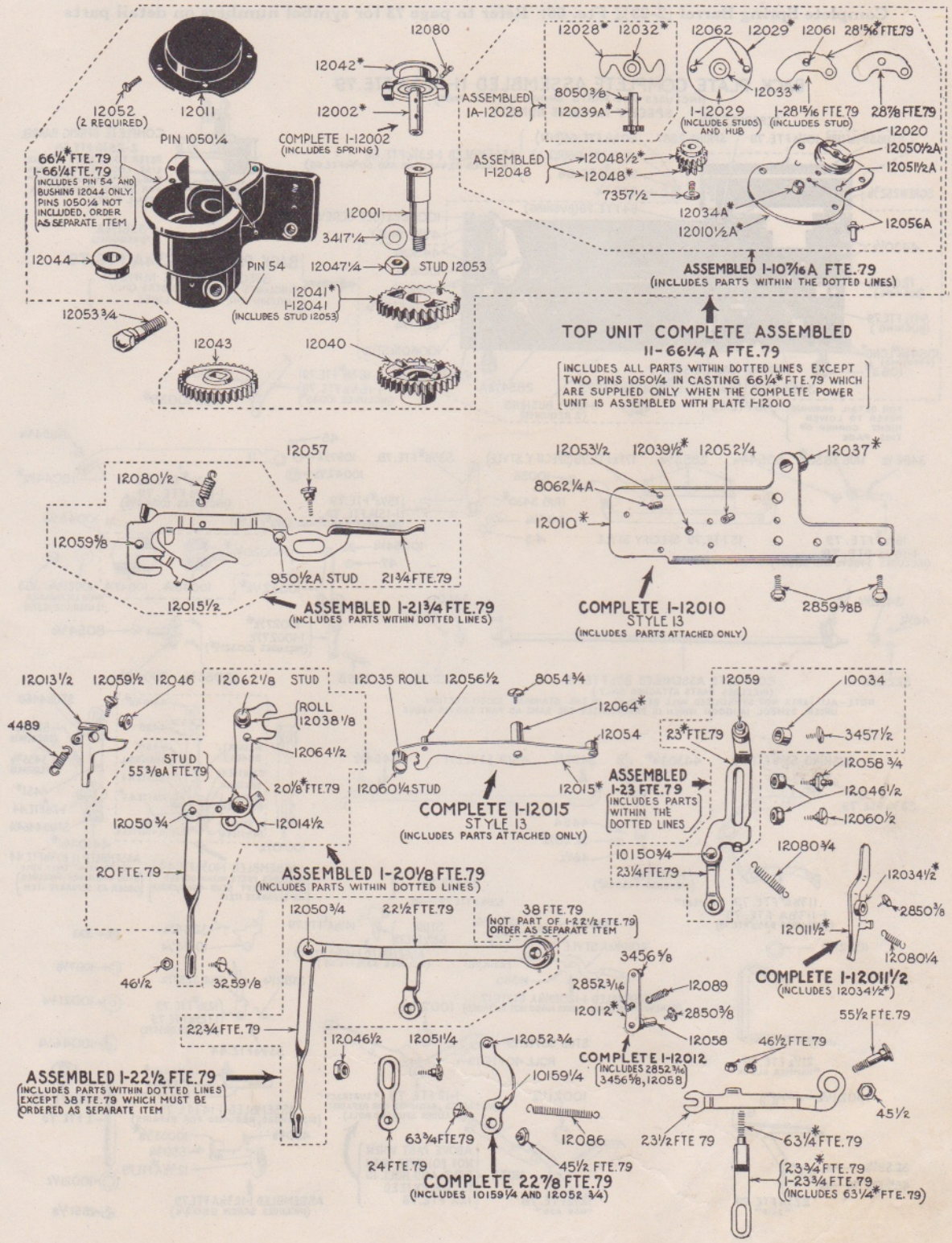
Refer to pages 44 and 45 for Stops, Stop Bars and Control Rolls

(*) Parts not supplied

Class 6

STYLE 6714 MACHINE (FEATURE 79)

Power Unit



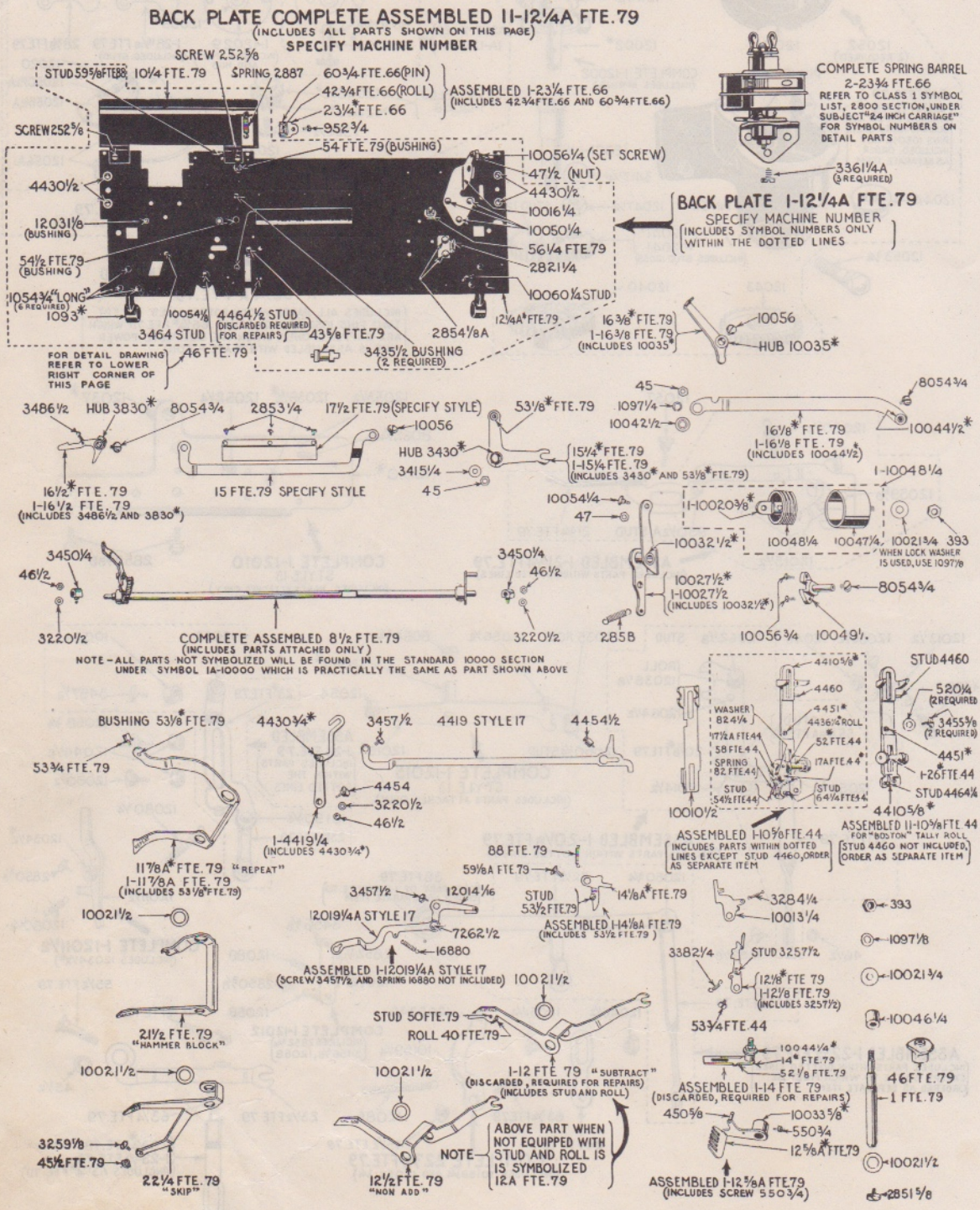
(*) Parts not supplied

Class 6

STYLE 6714 MACHINE (FEATURE 79)

Back Plate

Complete Spring Barrel (2-23¾ Fte. 66) Refer to page 73 for symbol numbers on detail parts

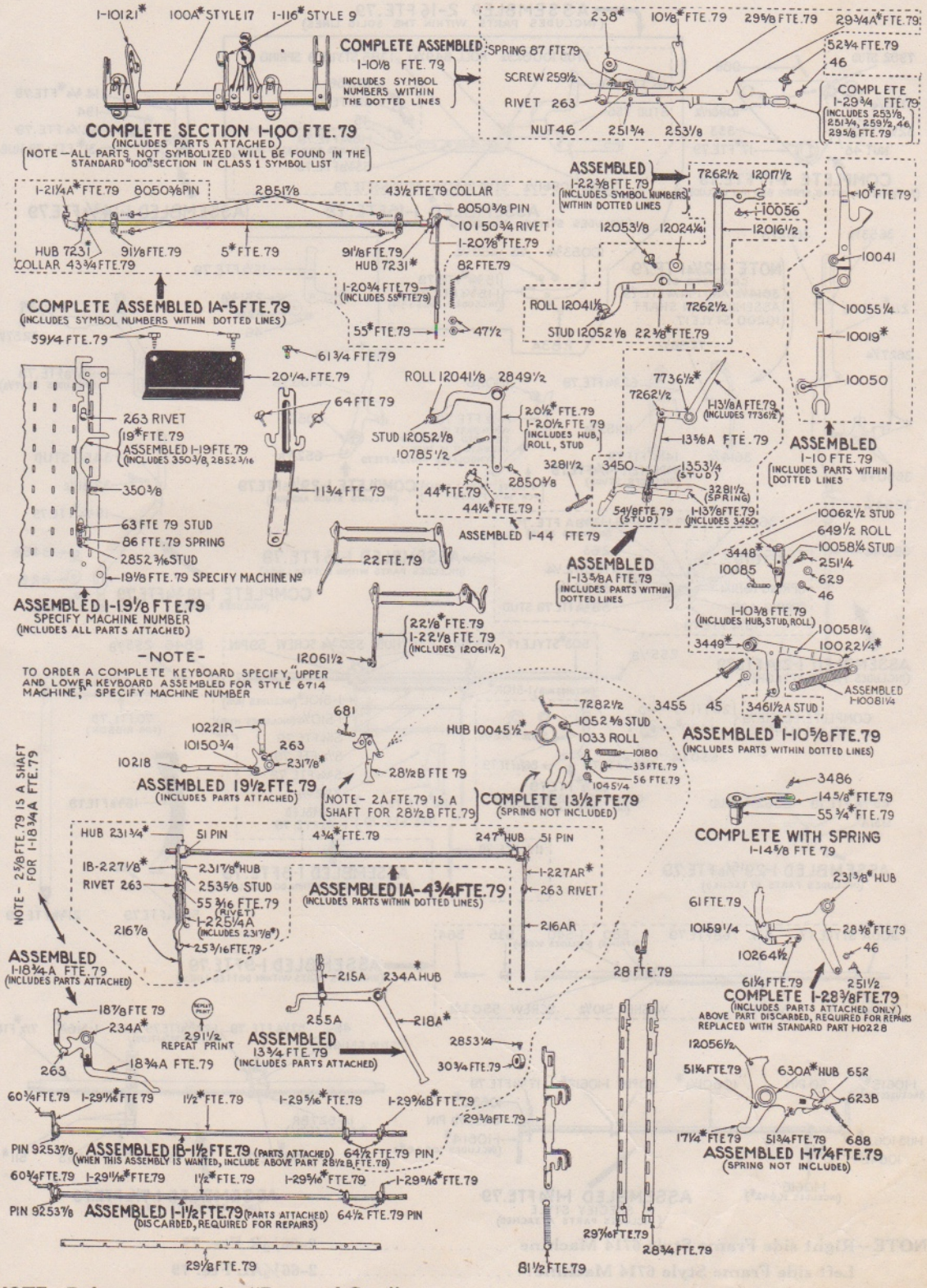


(*) Parts not supplied

Class 6

STYLE 6714 (FEATURE 79)

Main Drive Shaft, Keyboard Detail, Base and Case



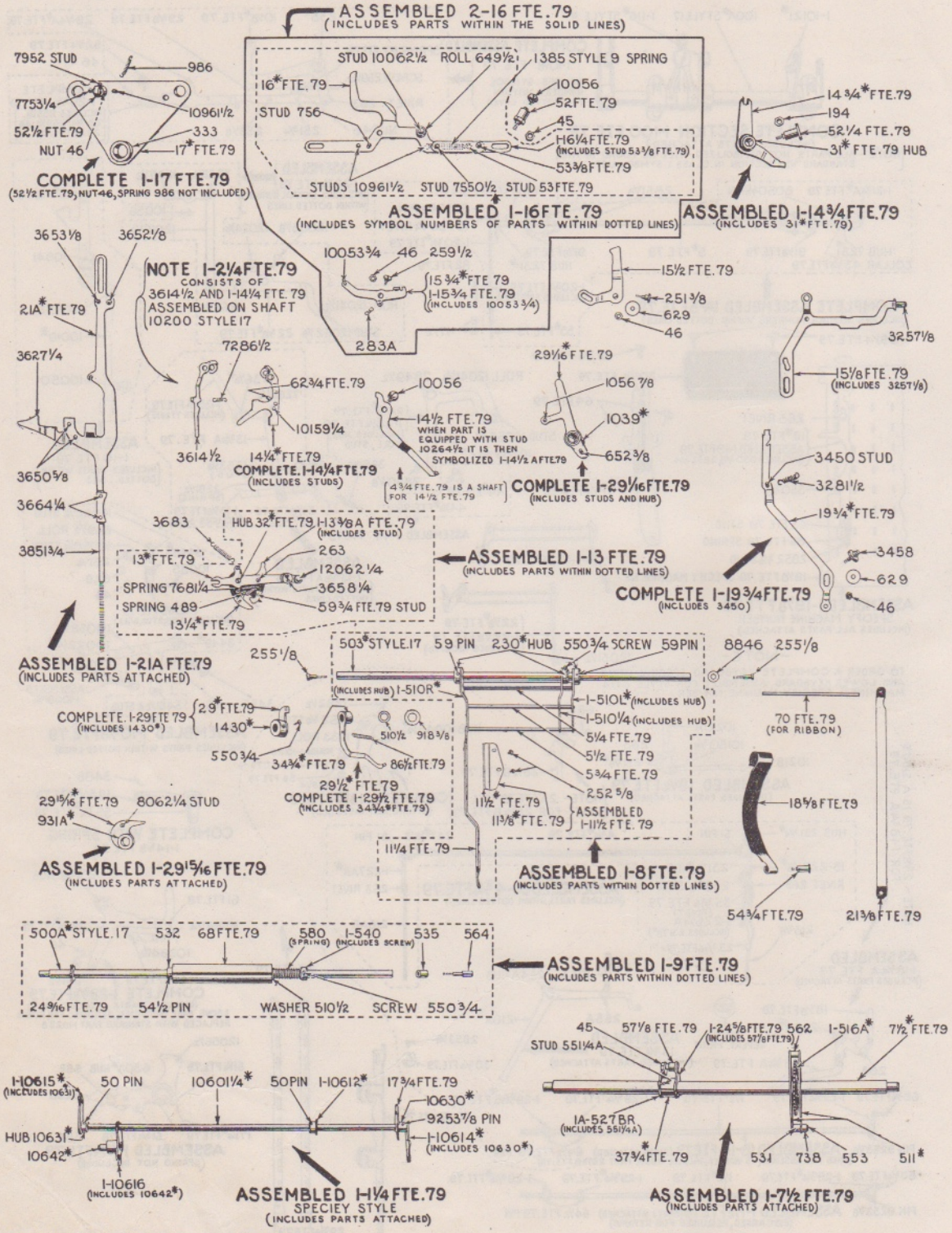
NOTE—Refer to page 20 for "Base and Case"

(*) Parts not supplied

Class 6

STYLE 6714 MACHINE (FEATURE 79)

Electric Drive Parts, Right Side Frame Detail, Ribbon Mechanism



NOTE—Right side Frame Style 6714 Machine.....2-66½R Fte. 79

Left side Frame Style 6714 Machine.....2-66½AL Fte. 79

(*) Parts not supplied

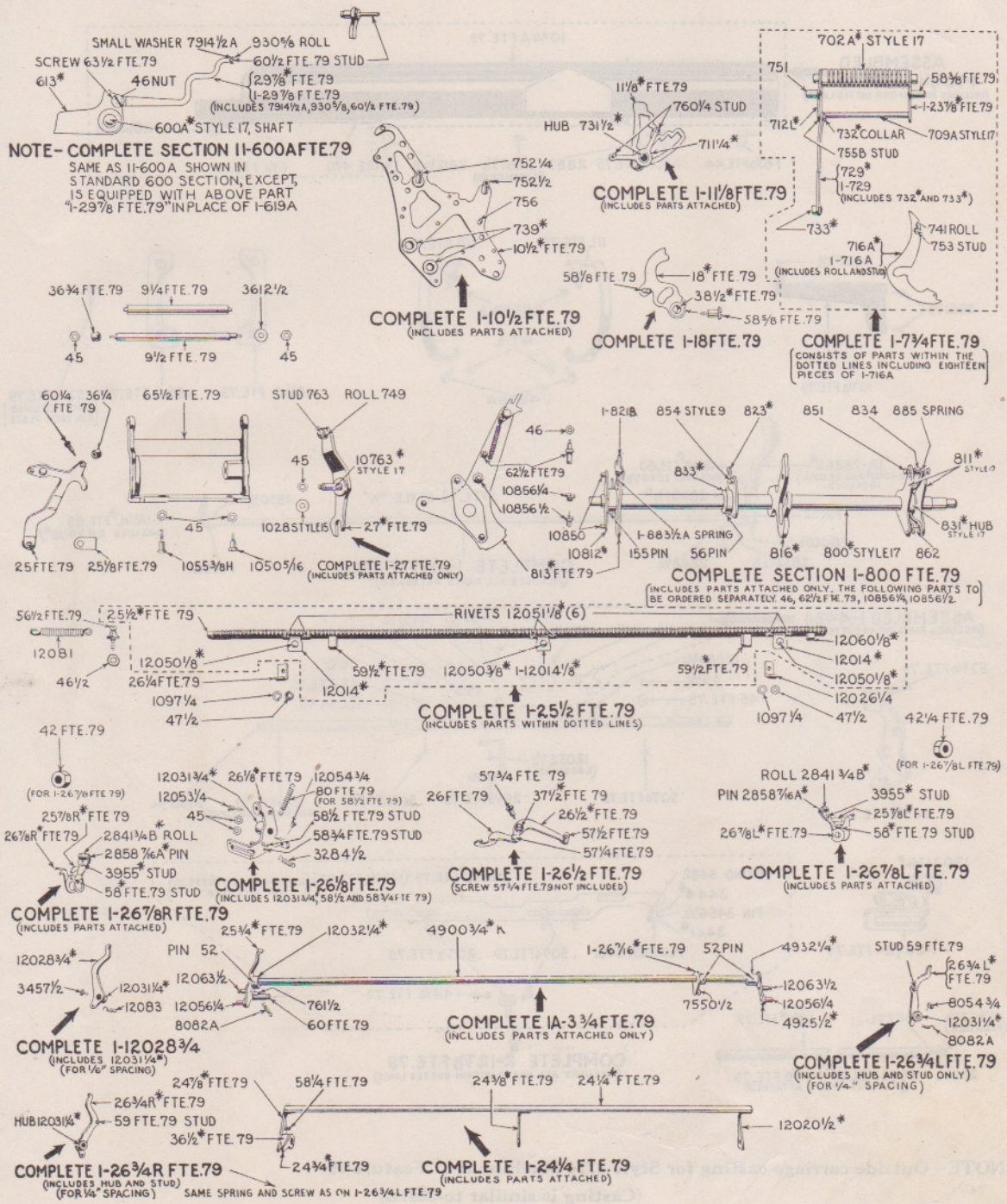
Class 6

STYLE 6714 MACHINE (FEATURE 79)

Type Section, Hammer Section, Main Operating Section, Carriage Detail

Complete "600" Section with Type, 12-600A Feature 79 (includes 11-600A Feature 79)

COMPLETE HAMMER SECTION 2-10½ FEATURE 79



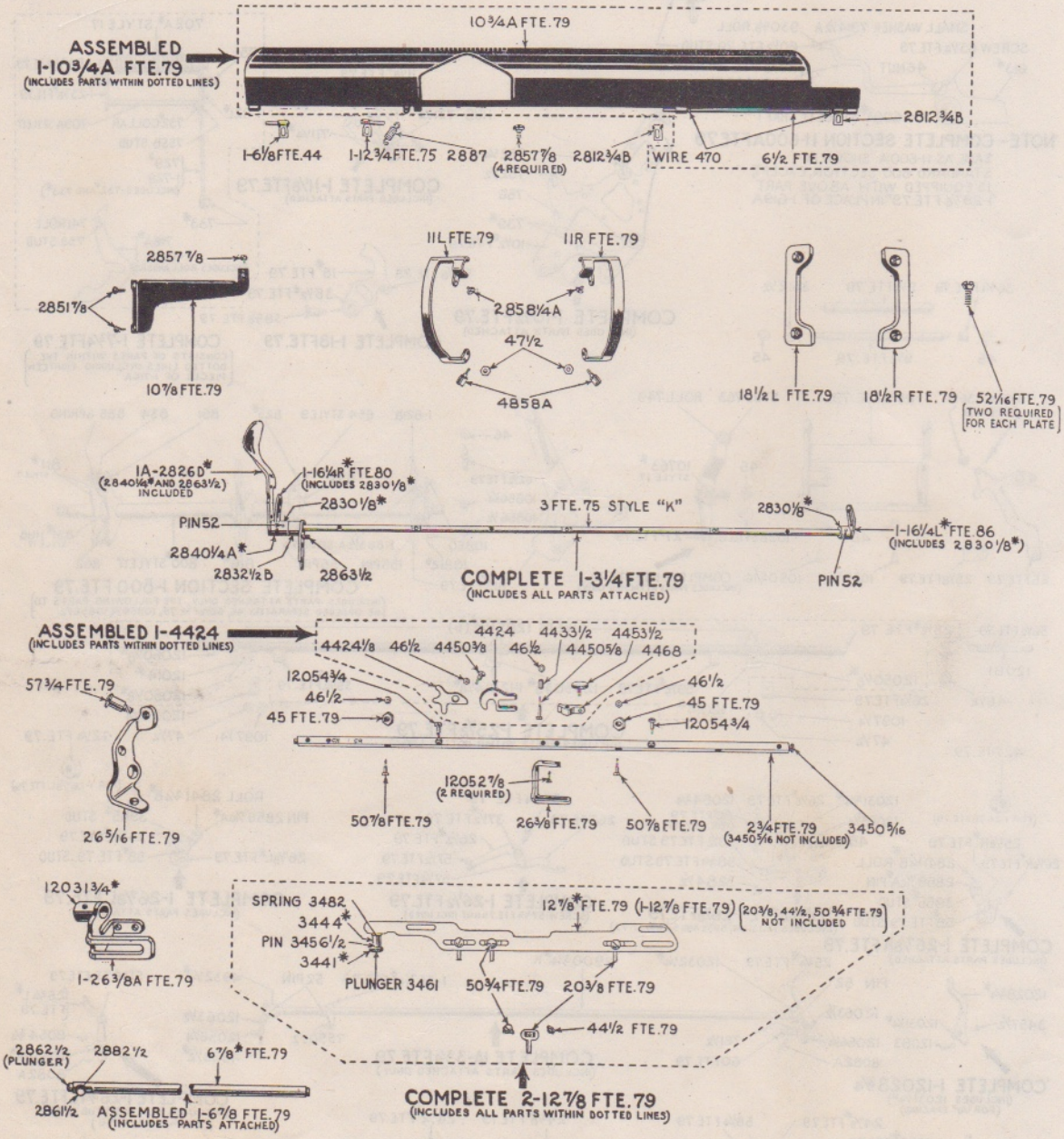
(*) Parts not supplied

Class 6

STYLE 6714 MACHINE (FEATURE 79)

Carriage Detail

For symbol number and description of complete carriage, refer to Parts Price List under heading, "Complete Carriages"



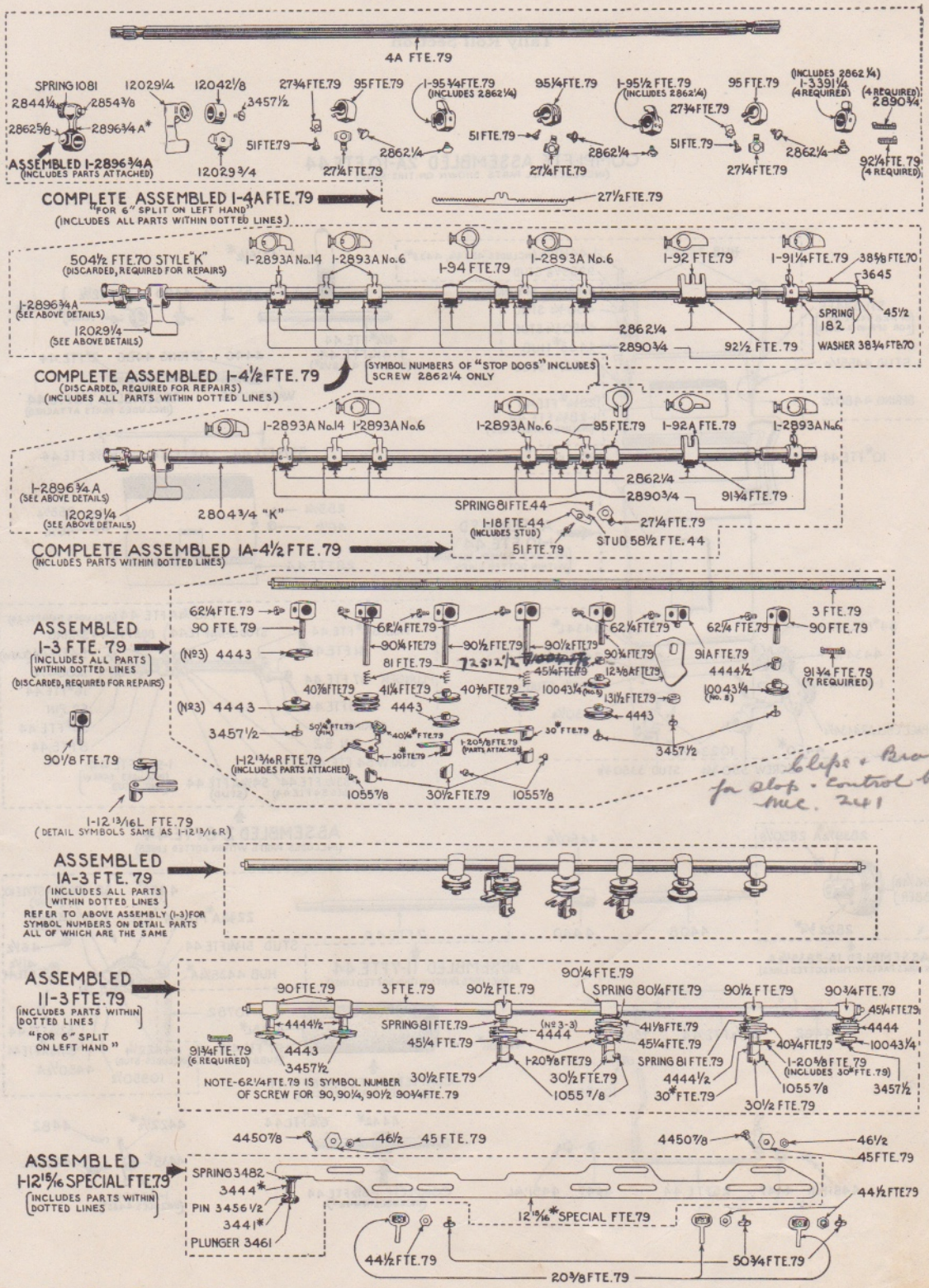
NOTE—Outside carriage casting for Style 6714 Machine is 67 Feature 79
(Casting is similar to 2867B)

(*) Parts not supplied

Class 6

STYLE 6714 MACHINE (FEATURE 79)

Stop and Control Bars



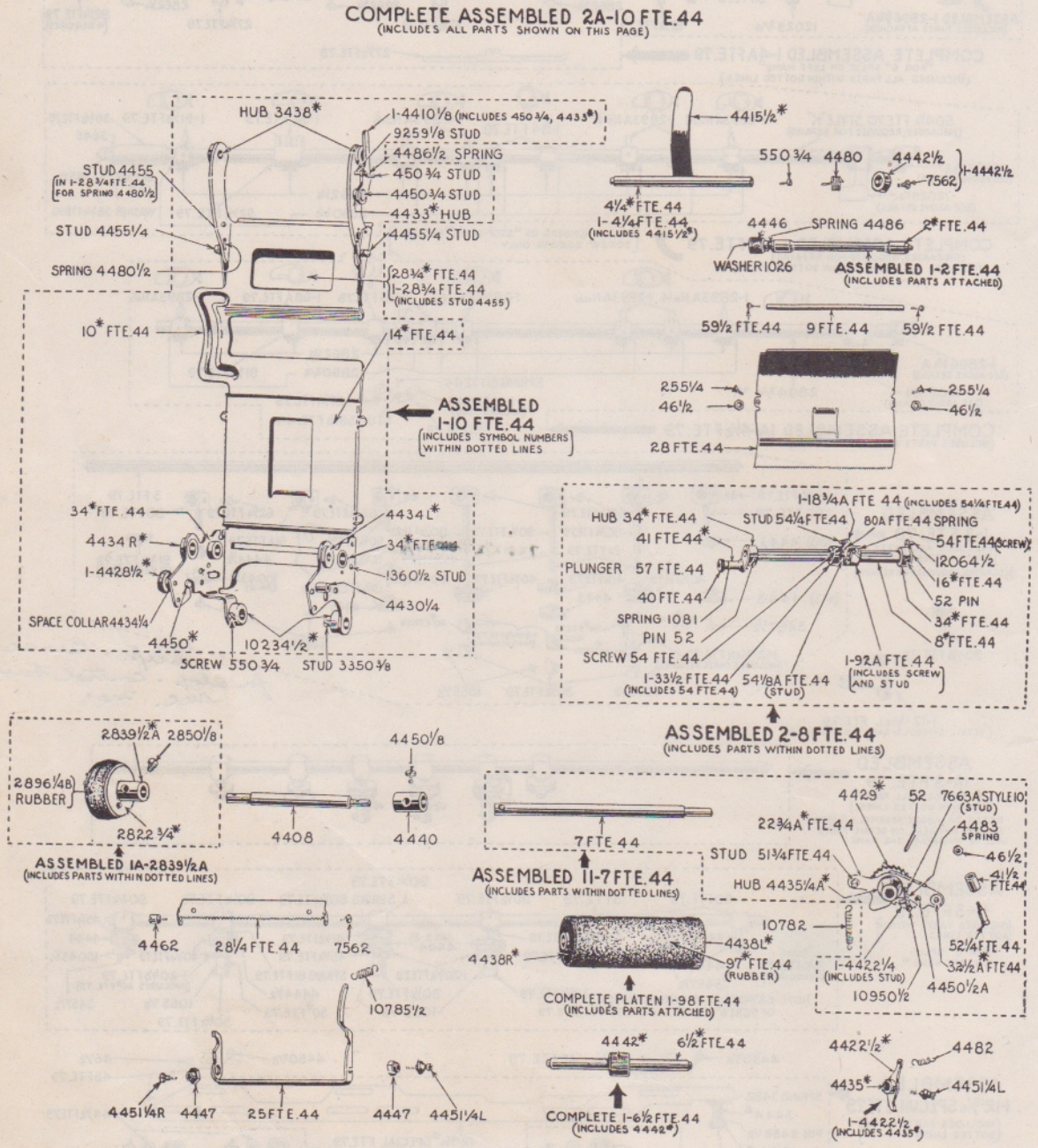
For other Stop Bars refer to pages 44 and 45

(*) Parts not supplied

Class 6

STYLE 6714 MACHINE (FEATURE 79)

Tally Roll Section

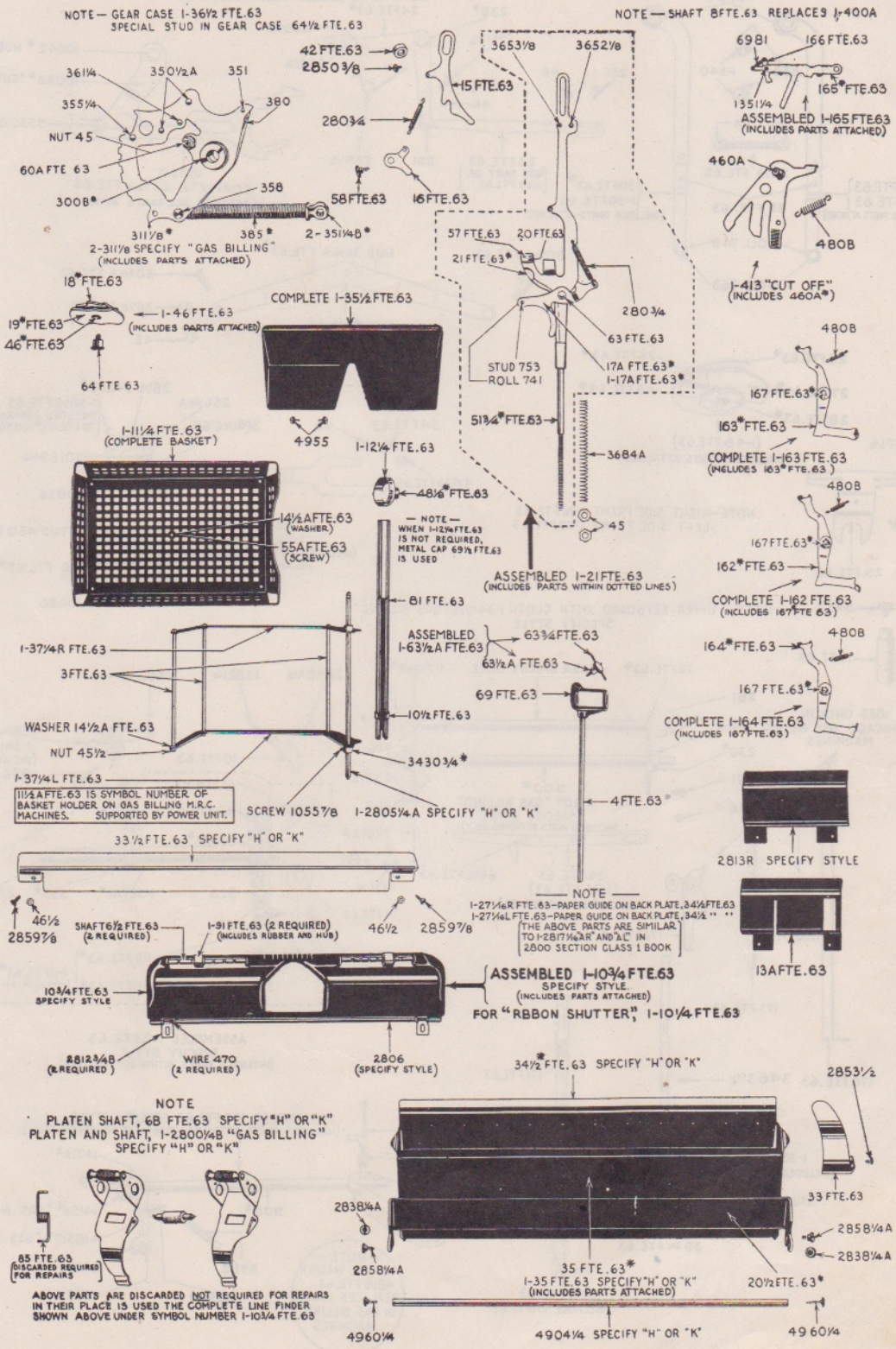


(*) Parts not supplied

Class 6

FEATURE 63

Gas Billing (or Meter Reading) Machine Parts

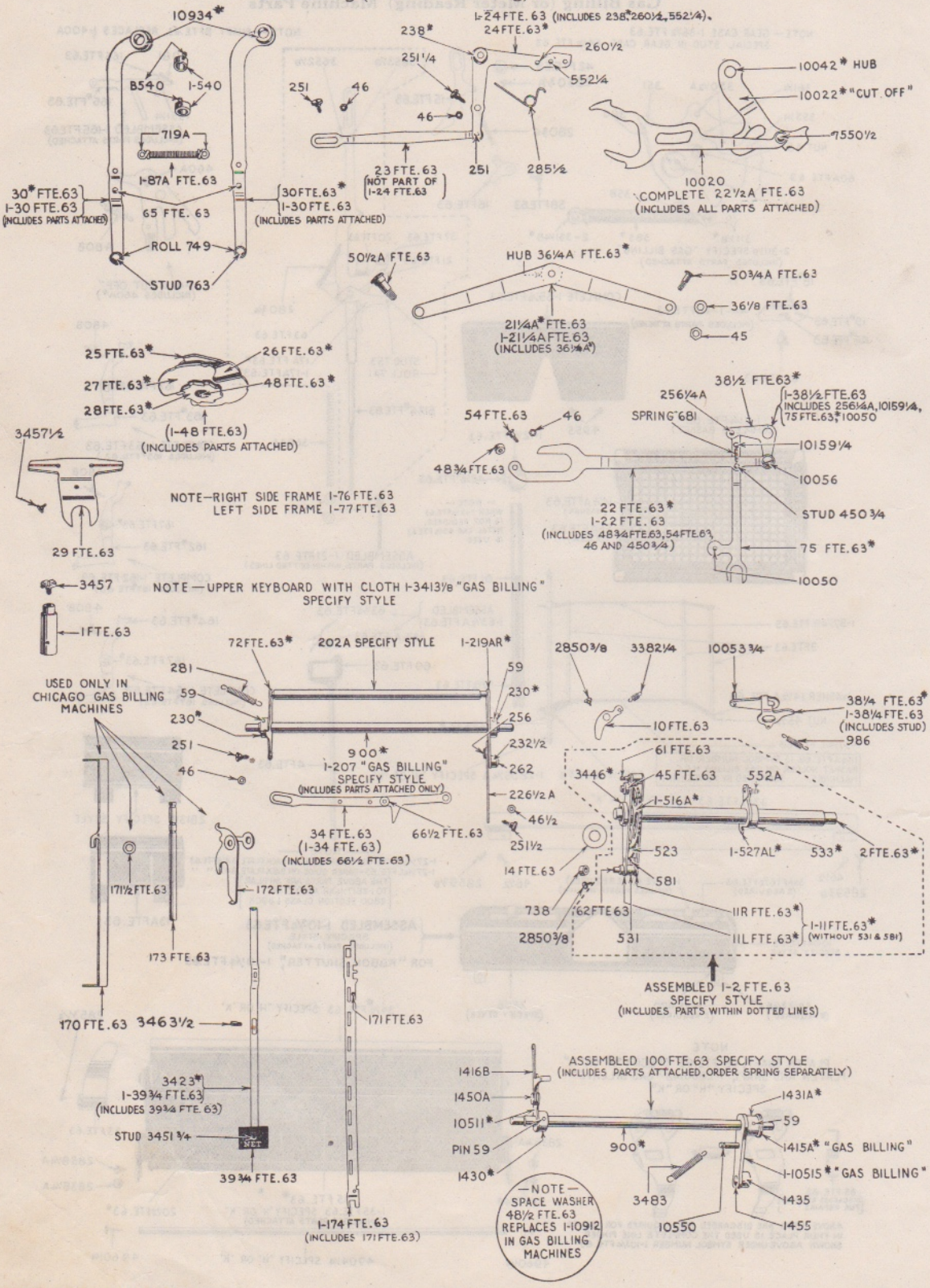


(*) Parts not supplied

Class 6

FEATURE 63

Gas Billing (or Meter Reading) Machine Parts

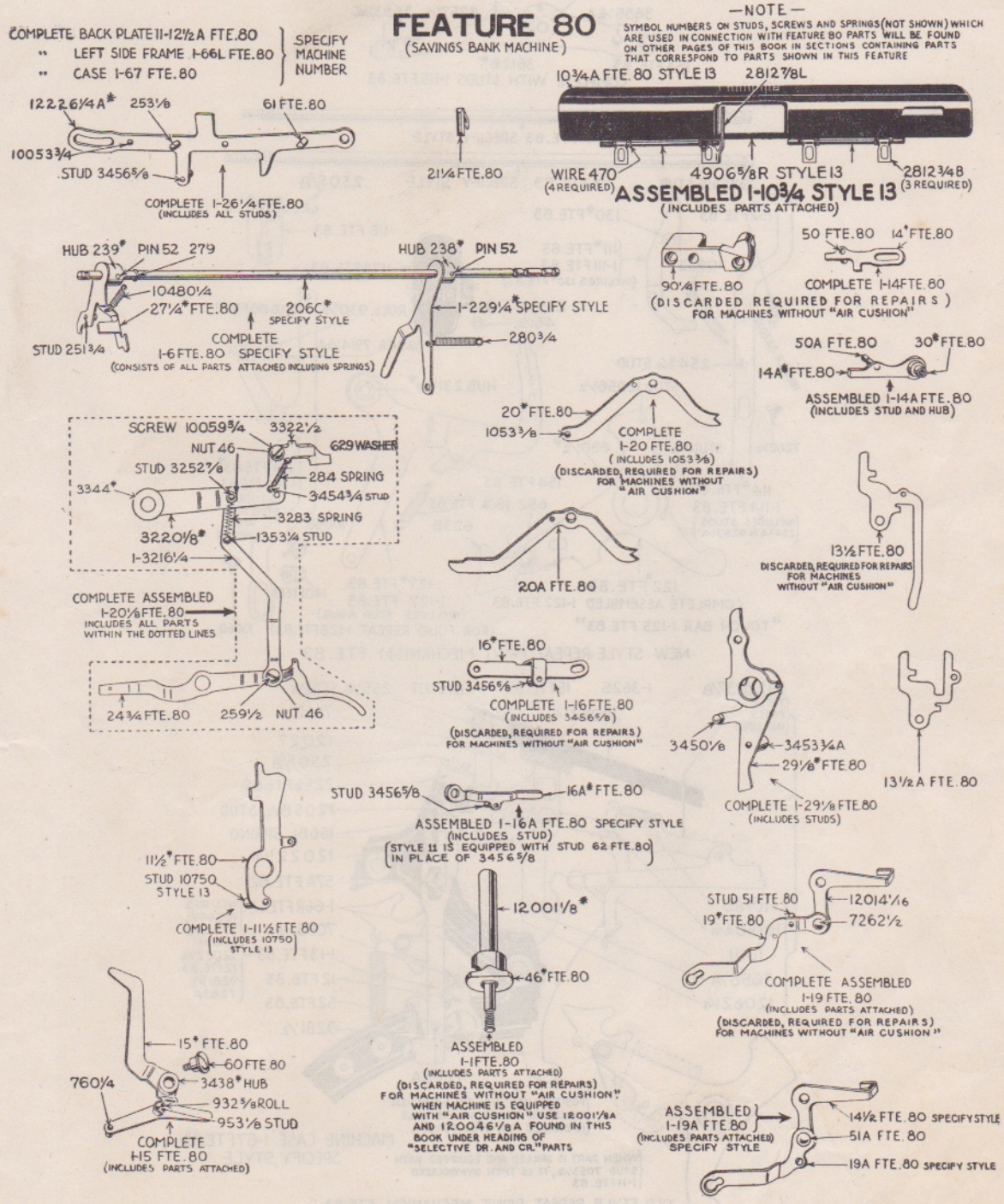


(*) Parts not supplied

Class 6

STYLE 6512

Savings Bank Machine

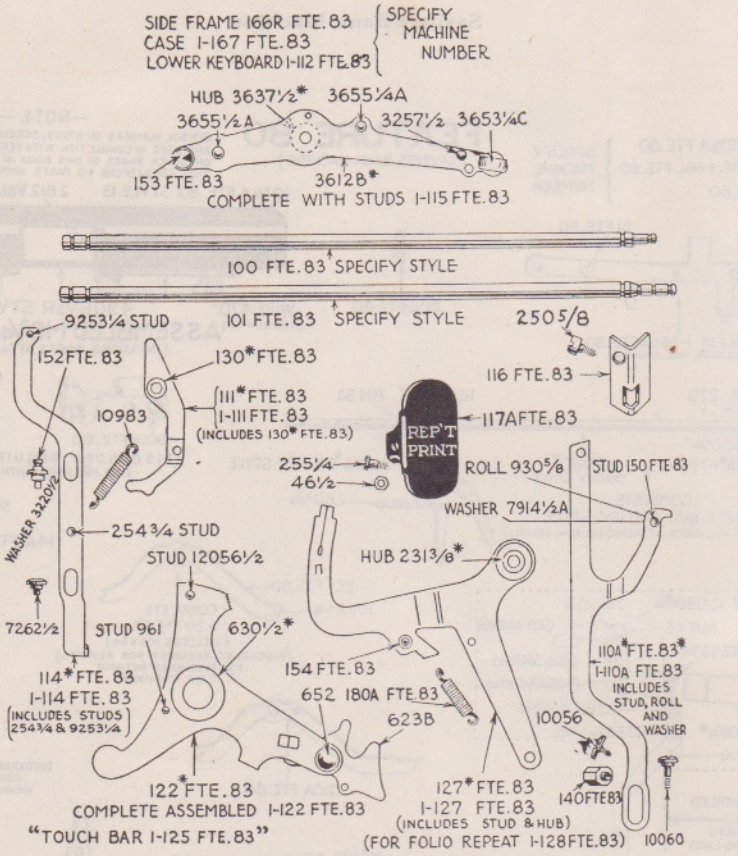


(*) Parts not supplied

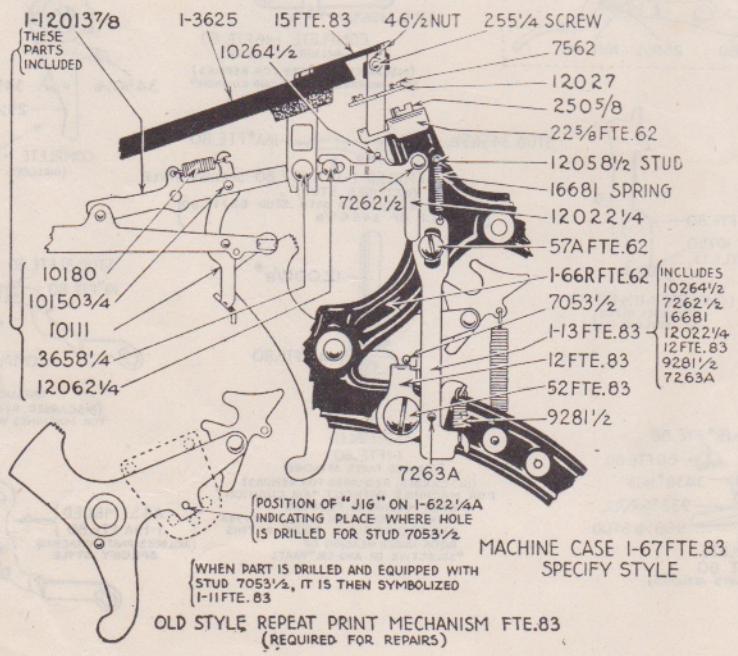
Class 6

FEATURE 83

Limited Repeat Print Mechanism



NEW STYLE REPEAT PRINT MECHANISM FTE.83

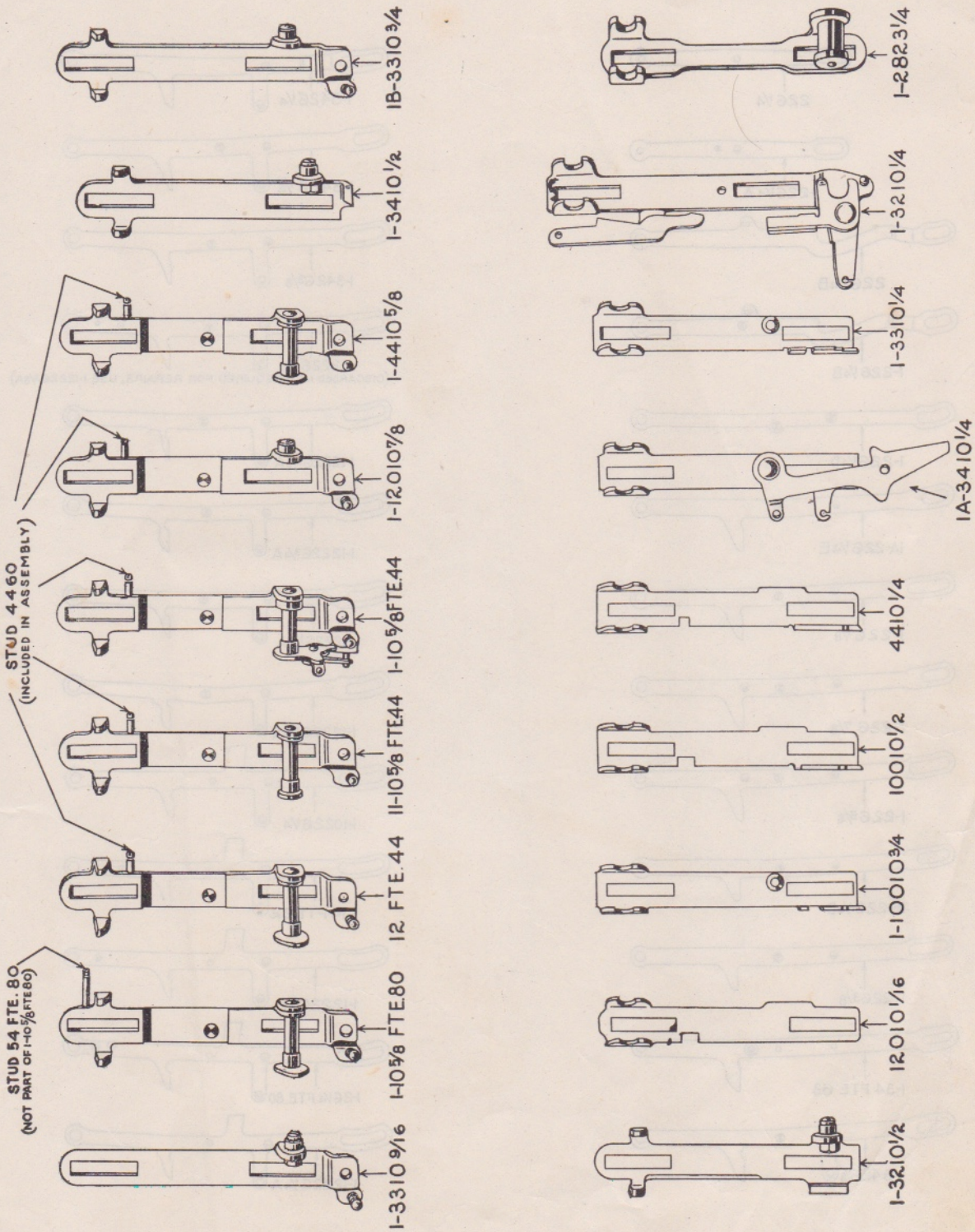


OLD STYLE REPEAT PRINT MECHANISM FTE.83
(REQUIRED FOR REPAIRS)

(*) Parts not supplied

BACK PLATE SLIDES

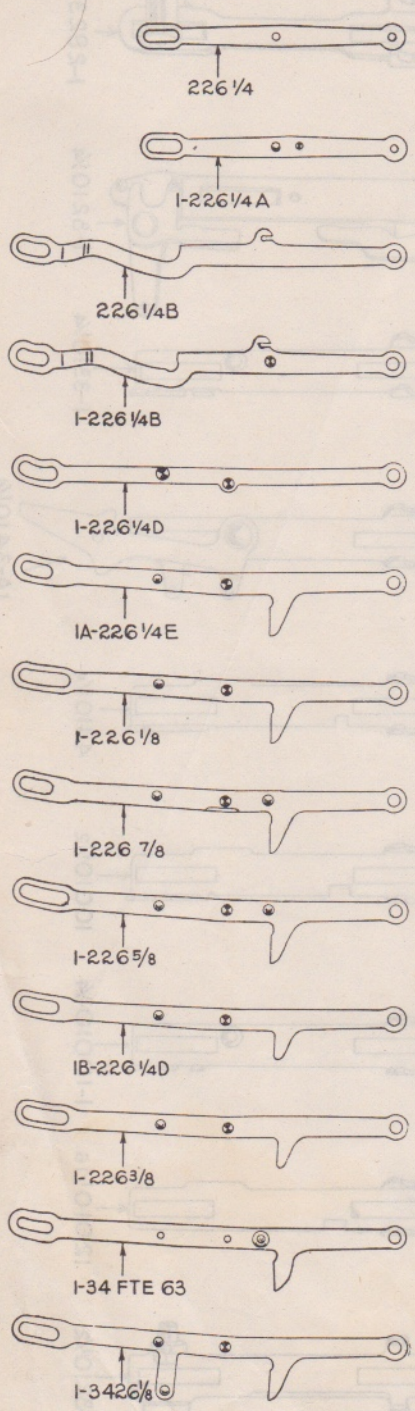
(Note change in construction by comparison)

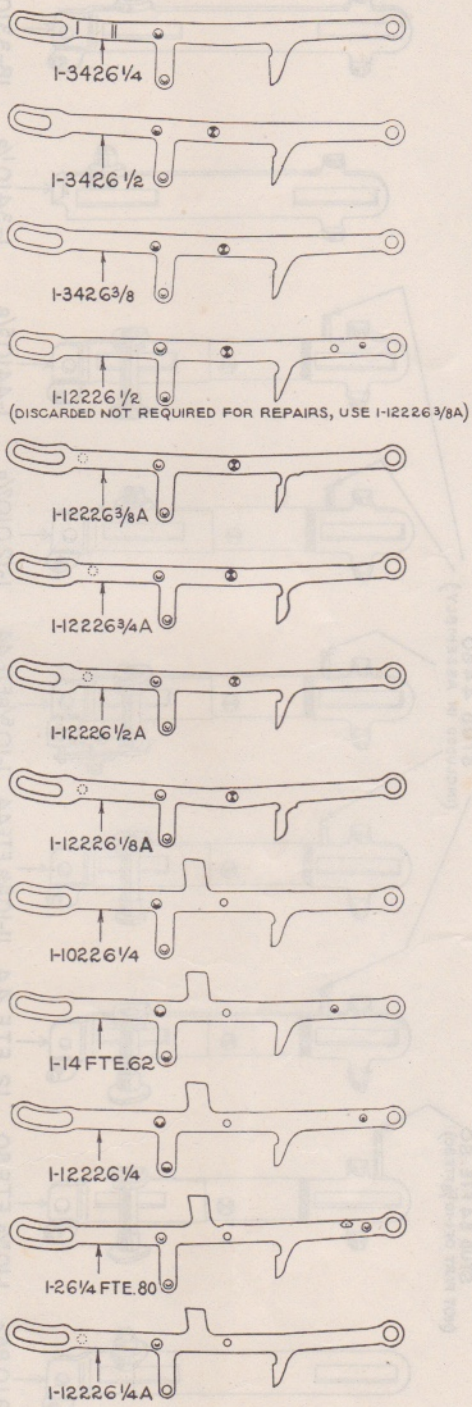


(*) Parts not supplied

KEYBOARD SECTION LINKS

(Note change in construction by comparison)

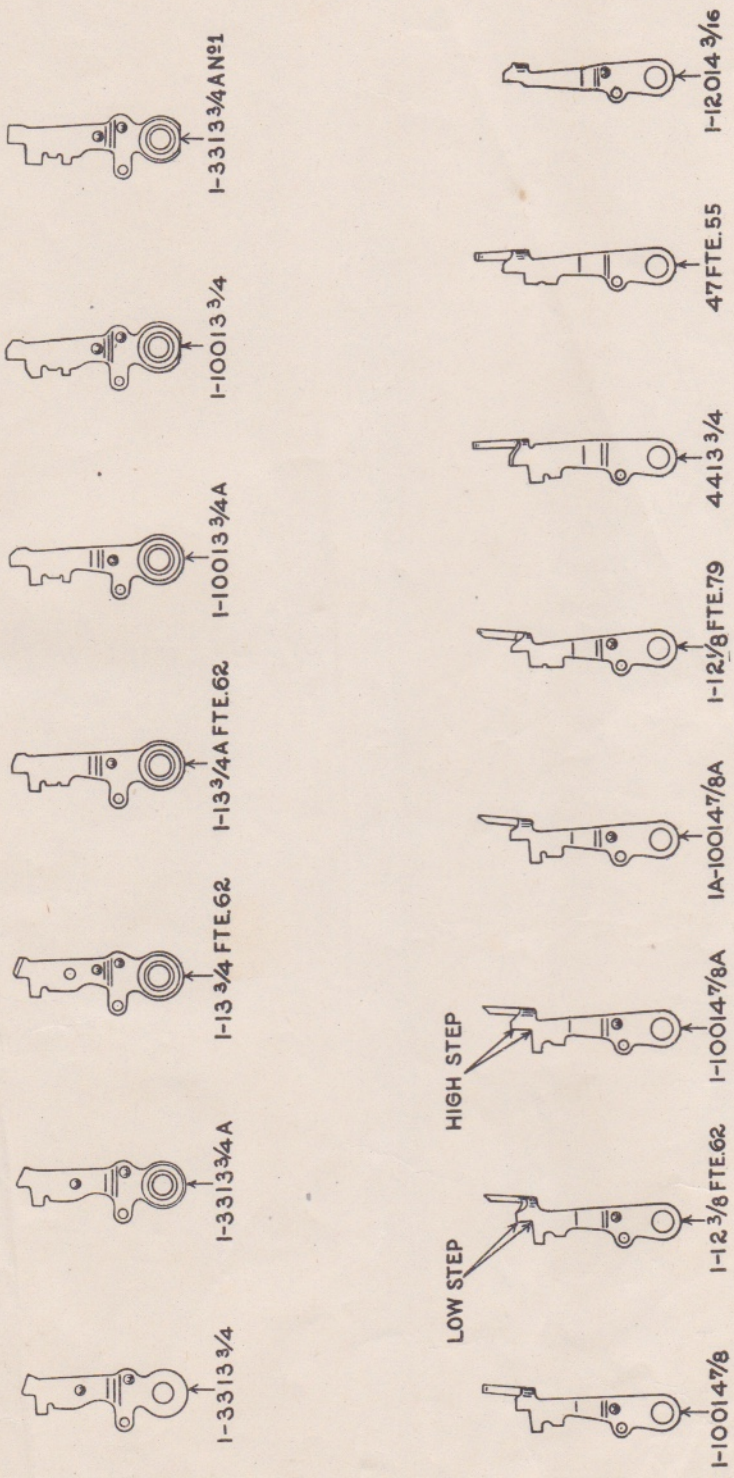




(*) Parts not supplied

BACK PLATE LATCHES

(Note change in construction by comparison)



(*) Parts not supplied

Produced by Burroughs, Detroit, Michigan

Form 2966-1500-5-31-Factory (J729)