

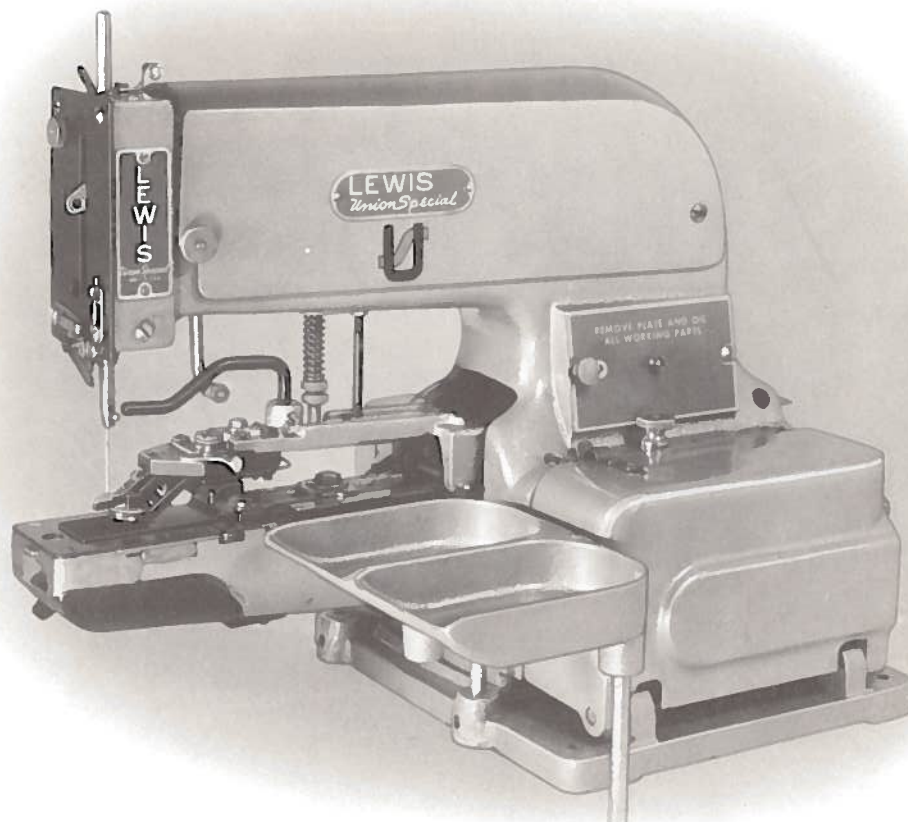


Union Special[®]
LEWIS[®] • COLUMBIA[®]

INDUSTRIAL
SEWING
MACHINES



STYLES
200-30
200-35



CATALOG
No.
T194-16
SECOND
EDITION

CLASS 200
BUTTON SEWING MACHINES

UNION SPECIAL CORPORATION
CHICAGO

Price \$1.00

From the library of: Superior Sewing Machine & Supply LLC

Catalog No. T194-16

(Supplement to Catalog No. 194-4)

INSTRUCTIONS

FOR

ADJUSTING AND OPERATING

LIST OF PARTS

Styles

200-30

200-35

Second Edition

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UNION SPECIAL CORPORATION

INDUSTRIAL SEWING MACHINES

CHICAGO

Printed in U. S. A.

July , 1976

IDENTIFICATION OF MACHINES

Each UNION SPECIAL LEWIS machine carries a style number, which in this class of machines, is stamped in the style plate on the left side of the arm.

The serial number of each machine is stamped in the right side of the cylinder toward the back.

APPLICATION OF CATALOG

This catalog is a supplement to catalog No. 194-4 and should be used in conjunction therewith. Consult catalog No. 194-4, machine styles 200-10 and 200-15 for all parts used on styles 200-30 and 200-35 respectively not illustrated or described in this catalog. At the back of the book the parts are illustrated and listed by part number, name and amount required.

This catalog applies specifically to the Standard Style of machine as listed herein. Reference to direction such as right, left, front, back, up or down, etc., are given from the operator's position while seated at the machine. Operating direction of the pulley is away from the operator.

DESCRIPTION OF MACHINES

High production, single thread, button sewing machines. Sews all popular sizes and types of flat two hole and four hole buttons. Attachments available to sew snaps, hooks and eyes, and for shank buttons. Lever adjusted stitch range to sew 8 or 16 stitches. Automatic stitching cycle, cam drive with stop motion clutch. Single treadle operation.

200-30 Right to Left Stitching of Flat Buttons With No Cross-over Stitch. Sews 8 stitches in two hole or a total of 16 parallel stitches in four hole buttons only. Equipped with improved trimming mechanism for cutting thread in the middle of the stitch cycle (between the two rows of parallel stitches) or at the end of cycle stitches of two hole buttons, also if desired at the end of cycle. Recommended for high quality garments such as men's sack coats, suit coats, ladies suits and coats.

200-35 Right to Left Stitching of Flat Buttons With a Cross-over Stitch. Sews 16 stitches in two hole buttons or a total of 16 parallel stitches in four hole buttons. Equipped with improved trimming mechanism for cutting thread at the end of stitch cycle and automatic button clamp opener.

Primarily used with heavy thread where thread cutter is needed. Recommended with certain types of automatic button feeders and for use with necking attachment. Can be used with or without the automatic button clamp opener, which releases the button during the raising of the clamp.

SPEED

The recommended speed of these machines is 1500 R. P. M.

NEEDLES

Use only genuine UNION SPECIAL LEWIS needles. The needles are packaged under our brand name *Union Special*.

Needle type 29 LSS-110/044 is recommended for Style 200-30 and needle type 29 S-100/040 is recommended for Style 200-35. Needle type 29 LSS-110/044 is a long, short shank, sharp point needle with an .044 inch (1.10 mm) diameter blade. Needle type 29 S-100/040 is a short, sharp point needle with an .040 inch (1.00 mm) diameter blade. Other diameter needles are available as follows:

SHORT	<u>BLADE</u> <u>DIA.</u>		LONG with SHORT SHANK	<u>BLADE</u> <u>DIA.</u>	
	<u>INCHES</u>	<u>MM.</u>		<u>INCHES</u>	<u>MM.</u>
29 S-090/036	.036	.90	29 LSS-090/036	.036	.90
29 S-100/040	.040	1.00	29 LSS-100/040	.040	1.00
29 S-110/044	.044	1.10	29 LSS-110/044	.044	1.10
29 S-125/049	.049	1.25	29 LSS-125/049	.049	1.25
			29 LSS-140/054	.054	1.40

NEEDLES (Continued)

Selection of proper needle size is determined by size of thread, weight of material and type of button used.

To have needle orders promptly and accurately filled, an empty container, a sample needle, or the type number should be forwarded. A complete order would read: "100 Needles, Type 29 LSS-110/044".

CHANGING NEEDLES

When changing the needle, make sure that it is inserted in the needle bar as far as it will go, with the long groove to the front and the spot or scarf to the rear, and that set screw is tightened securely.

A cross hole drilled in the needle bar can also be used to determine if the needle has been inserted as far as it will go.

Immediately discard any needle which may have a hooked or blunt point.

THREADING AND OILING

To thread machine, put in stop position, and thread in accordance with diagram on Page 5.

These machines should be oiled twice daily, before the morning and afternoon starts. Use a good grade of straight mineral oil of a Saybolt viscosity of 90 to 125 seconds at 100° Fahrenheit.

Most of the oiling places on the machines are readily identifiable because of the fact they are painted red. However, reference to the oiling diagram on Page 5, will be beneficial.

Please note that it will be necessary to remove arm cover and side cover, and to open the hinged base covers and tilt machine on its side to reach some of the oiling places.

Also note that there is a label on the pulley which reads "Grease Here". A tube of grease is furnished with the machine, and periodically, the plug screw in the pulley should be removed, the grease level checked and replenished if required. The greasing place is indicated by the letter "A" in the diagram. All other places shown are oiled.

Tubes of grease may be ordered under part No. 28604 P.

IDENTIFYING PARTS

Where the construction permits, each part is stamped with its part number. On some of the smaller parts, and on those where construction does not permit, an identification letter is stamped in to distinguish the part from similar ones.

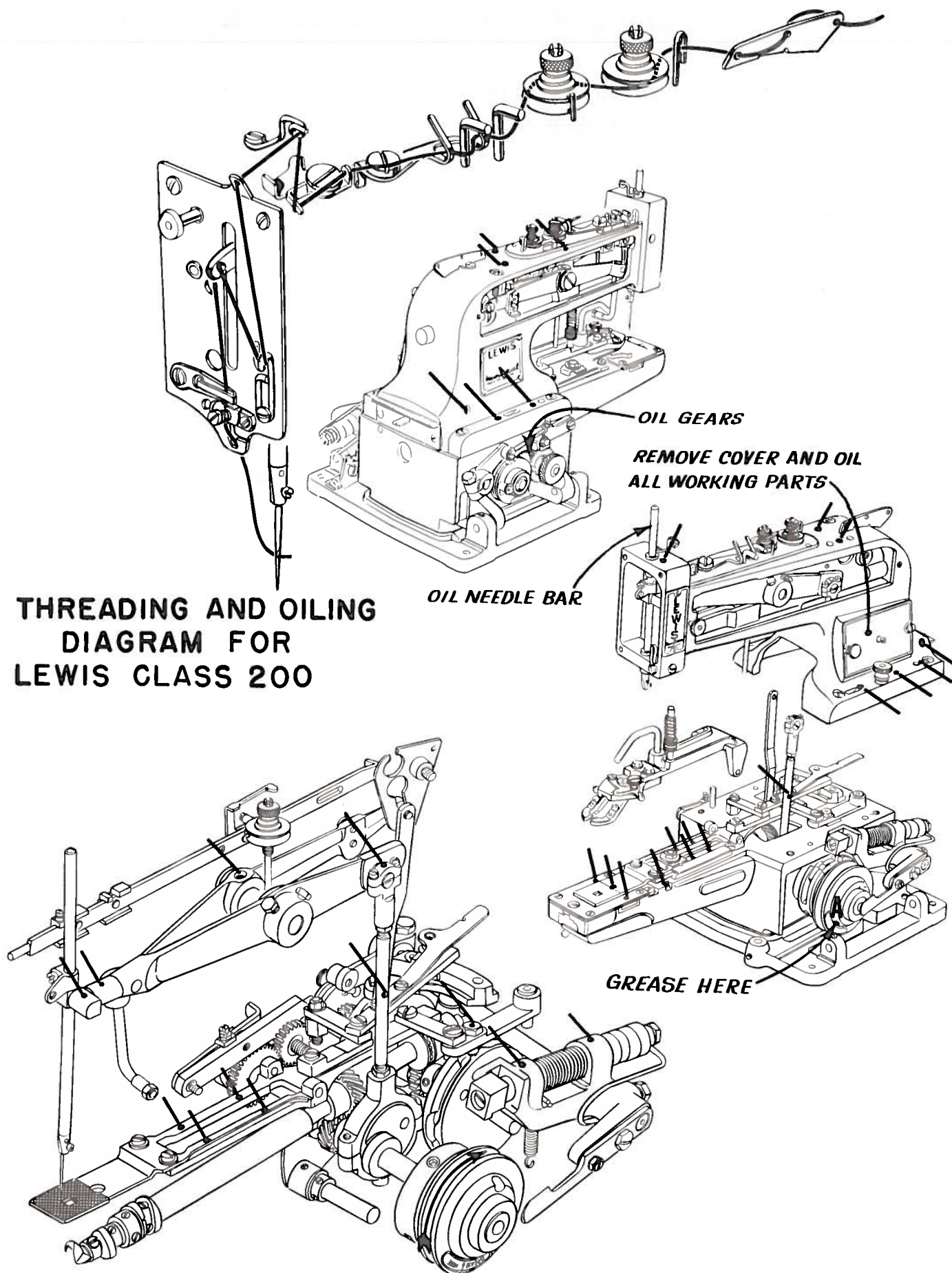
Part numbers represent the same part regardless of the catalog in which they appear.

Important! On All Orders, Please Include Part Name and Style of Machine For Which Part is Ordered.

TERMS

Prices are net cash and subject to change without notice. All shipments are forwarded F. O. B. shipping point. Parcel Post shipments are insured unless otherwise directed. A charge is made to cover postage and insurance.

THREADING AND OILING DIAGRAM FOR LEWIS CLASS 200



ASSEMBLING AND ADJUSTING INSTRUCTIONS

Most of the adjusting instructions in Catalog No. 194-4 for Styles 200-10 and 200-15 are applicable for Styles 200-30 and 200-35 respectively. The new and/or additional instructions required for Styles 200-30 and 200-35 are listed as follows:

SETTING THREAD PULL OFF LEVER (Style 200-30)

Refer to machine Style 200-10 except continue turning pulley until needle has entered feed plate 7 times and has risen to the top of its travel, the thread pull off lever should then start to move. When the thread pull off lever has moved all the way to the left, in the middle of the cycle, it should be 1/8 inch further to the left than when the machine is in the stop position or end of the cycle. If link (B, Fig. 16, Cat. No. 194-4) is changed, setting of cam (B, Fig. 15, Cat. No. 194-4) will have to be repeated.

SIDE PLAY IN KNIVES

The knives should have enough clearance between the yoke slides insert and the front edge of the slot in the casting to allow free movement.

SETTING THE OVERLAP OF THE KNIVES

The knives should overlap just enough to cut the back thread of the triangle. The screws in the cutter lever link adjust the knives for the proper cut, which is determined by the operation.

TIMING THE KNIVES (Style 200-30)

The knives should be set to cut the back thread of the triangle after the setting of the eighth stitch, for cutting the cross over stitch. The knives should not move too soon so as to catch the loop as it is pulled to the bottom of the button. This can be accomplished by adjusting the operating pawl, located on the left side of the left cam and is visible when the machine is in stop position. Loosen the operating pawl attaching screws, moving the operating pawl in the direction of rotation of the cam will advance the time of cut, moving the pawl in the opposite direction acts the reverse. Adjusting the pawl to protrude a greater distance from the edge of the cam will increase the cutting stroke or cross over of the knives. Retighten screws.

TIMING THE KNIVES (Style 200-35)

The knives should be set to cut the back thread of the triangle after the setting of the last stitch before "Stop Position". This can be accomplished by loosening nut (A, Fig. 18) which will permit upward or downward repositioning of the adjusting stud (A, Fig. 19) in the knife drive lever (B, Fig. 18) or loosen screws (C) which will permit forward or rearward repositioning of the knife drive link arm (D). When satisfactory conditions have been obtained, tighten screws (C) and nut (A) securely.

NOTE: While making this adjustment, care must be taken to assure that the cutting knife lever (B, Fig. 19) does not strike the shoulder of its mounting screws (C), at either end of the slots while opening or closing of the knives. During the sewing cycle, the upper knife (D) should be retracted to provide maximum clearance from the needle (E) as is possible without the knife drive pins (F) striking the ends of the diagonal slots in the drive lever (B).

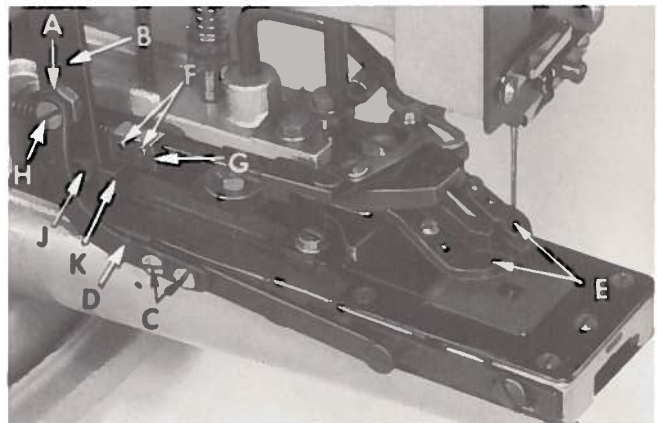


Fig. 18

TIMING THE KNIVES (All Styles)

When the cutting knife (A, Fig. 20) begins its cutting stroke, the thread finger guide (B) should be set to enter the thread triangle formed by the spreading of the threads as they slide up the wider portion of the looper point. Adjustment can be made by loosening screws (C), reposition thread finger guide as required and re-tighten screws.

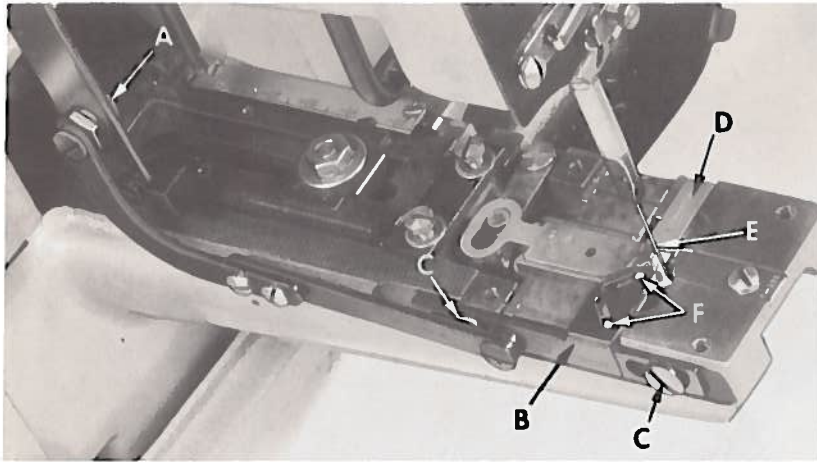


Fig. 19

BUTTON CLAMP OPENER (Style 200-35)

The button clamp opener should be set to start opening the button clamp jaws (E, Fig. 18) just before the clamp begins to lift. Adjustment can be made by loosening screws (F) and moving the front tripping block (G). Mov-

ing the block to the rear will advance the time of jaw opening and moving the block to the front acts the reverse. Tighten screws (F).

The button clamp jaws should return to the clamping position after clearing the sewn button. If adjustment is necessary, remove screw (H) securing the knife drive link arm. Loosen screw (J) and move tripping block (K) downwardly in the knife drive lever (B) to actuate trip off and closing of jaws sooner or move tripping block upwardly to open jaws wider and for a longer duration. When desired condition is obtained, retighten screw (J) and replace screw (H) that holds the knife drive link arm (D).

NOTE: To disengage button clamp opener, merely reposition tripping blocks (G and K, Fig. 18) so they do not come in contact.

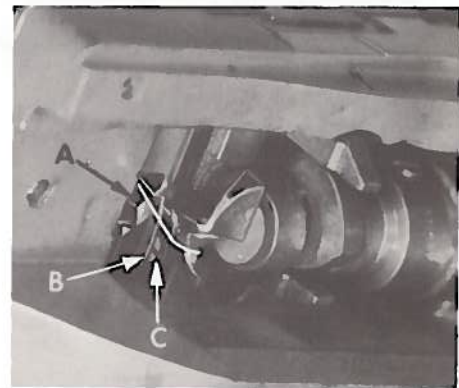


Fig. 20

ADJUSTING STOP MOTION

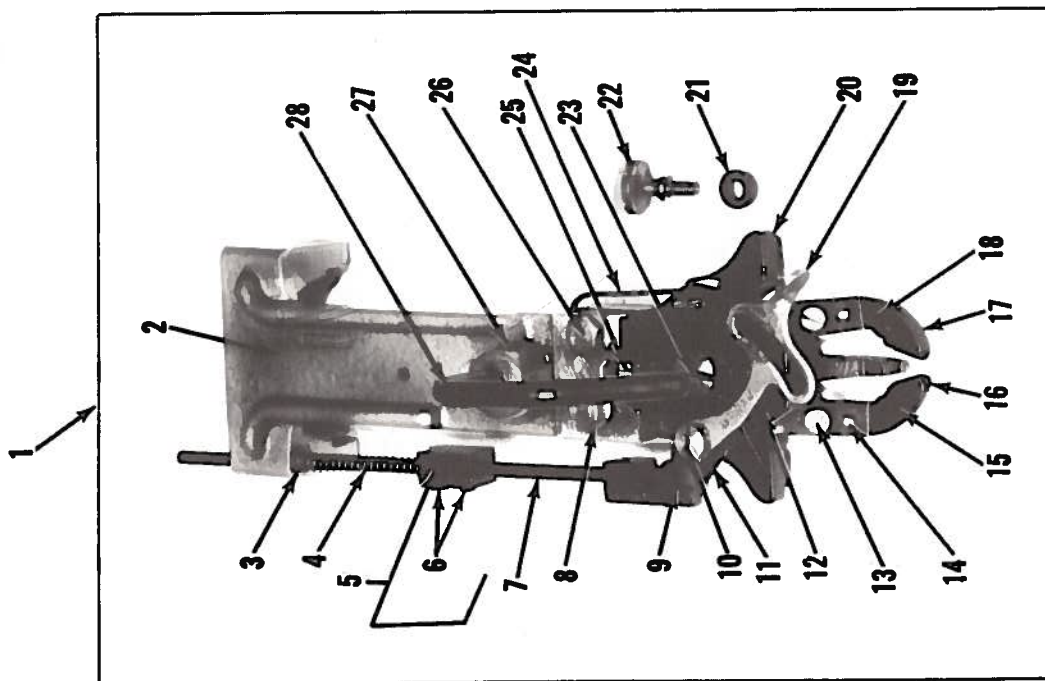
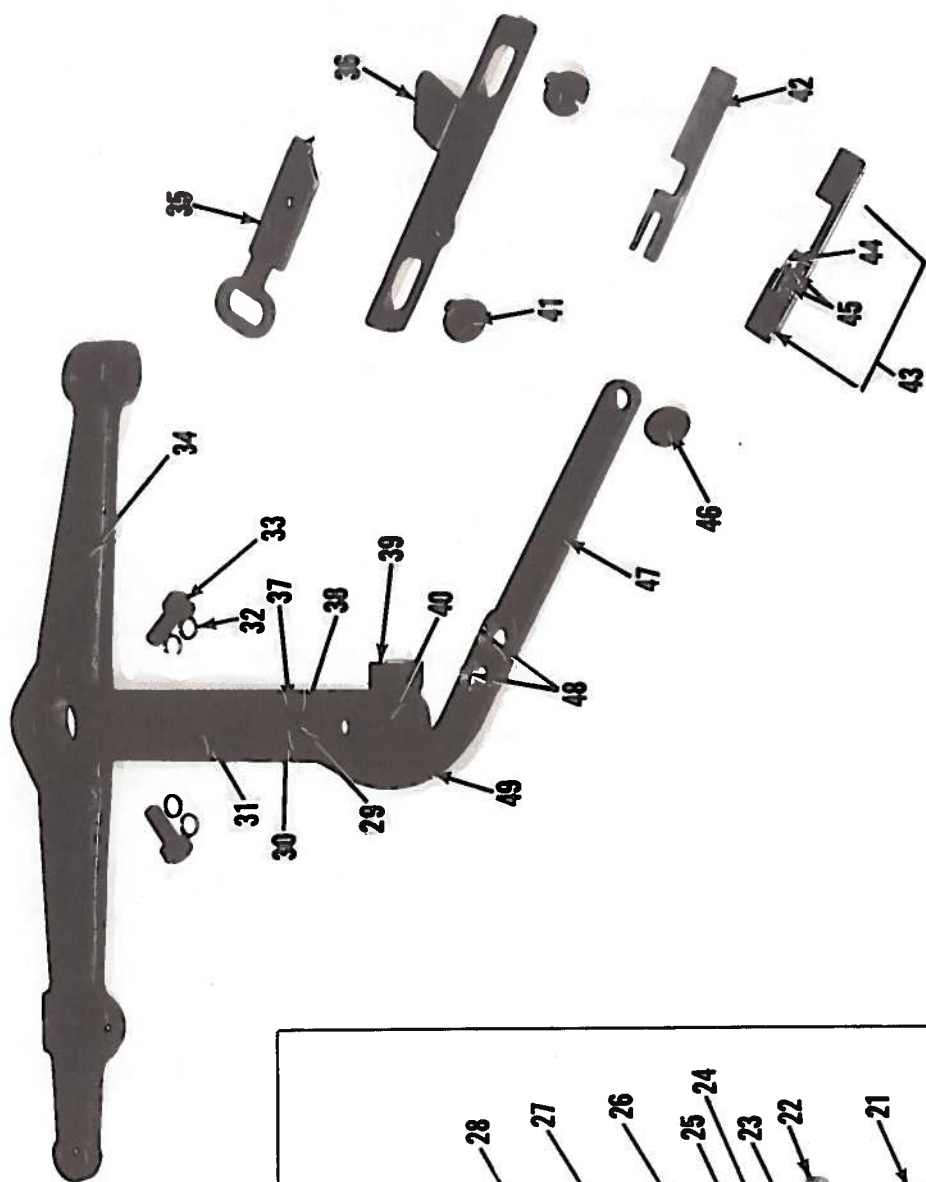
In using various threads it may become necessary to change the dimension from 1/32 inch to 1/64 inch with reference to Fig. 2 in Catalog No. 194-4.

ADJUSTING THREAD TAKE-UP

Thread take-up should be set as high as possible without striking upper needle bar bushing or slot in face plate, to assist in drawing up the cast off thread loop of the last tying stitch out of the way of the cutting knife and its finger guide. Refer to Fig. 6 in Catalog No. 194-4.

THREAD NIPPER

Turn the nipper block so that one of its two micro-serrated faces will contact the face of the nipper. This provides a more positive nipping action when using smooth or glazed thread and helps draw up the last tying stitch loop before the cutting action of the knives. For cutting most threads it is necessary to change the 3/64 inch clearance between the nipper and the nipper block to 1/64 inch or just enough for free passage of the thread during the sewing cycle. Refer to Fig. 12 on page 13 and the paragraph for the "THREAD NIPPER" on page 15, both in Catalog No. 194-4.



The parts illustrated on pages 8 and 10, and described on this page and page 11 represent the parts that are used on both Styles 200-30 and 200-35 (unless otherwise specified), but not used on Styles 200-10 and 200-15 respectively.

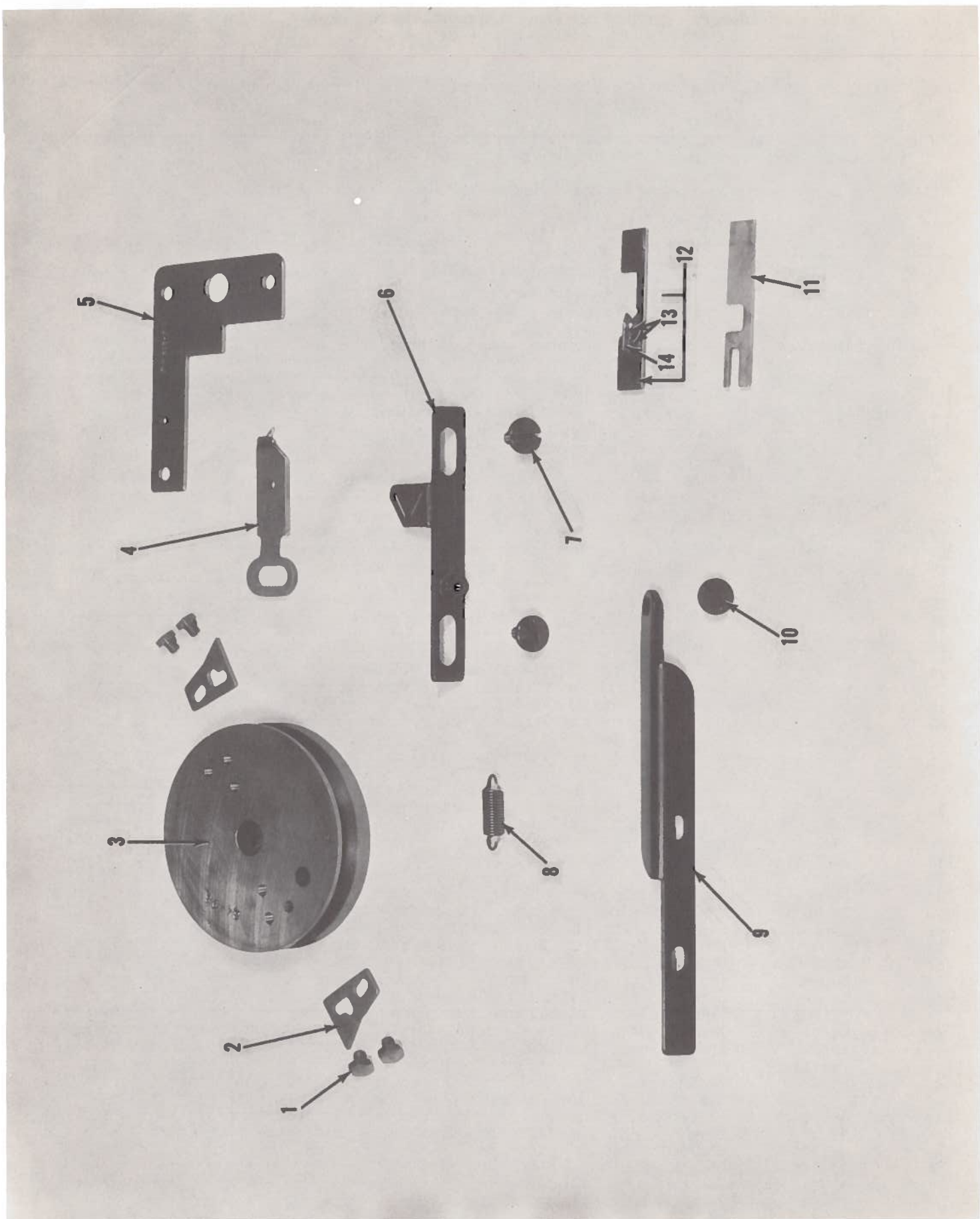
Use Catalog No. 194-4 (Styles 200-10 and 200-15 respectively) for all parts not illustrated or described in this catalog.

Reference numbers that are inside a bracket or box on the picture plates and have indented descriptions, indicate they are component parts of a complete part or assembly.

NOTE: The part descriptions below are for Style 200-35 only, unless otherwise specified.

Ref. No.	Part No.	Description	Amt. Req.
1	430-63-7	Button Clamp Assembly-----	1
2	99-353	Button Clamp Holder -----	1
3	80265	Thrust Washer, for No. 71-119 push rod -----	1
4	21-440	Spring, for No. 71-119 push rod -----	1
5	115-169	Push Rod Tripping Block-----	1
6	22894 W	Screw-----	2
7	71-119	Push Rod-----	1
8	40-38	Washer, for No. 18-873 screw-----	2
9	22542	Screw, for No. 166-14 button clamp pawl -----	1
10	1731 L	Screw, for No. 45-332 adjusting lever-----	1
11	166-14	Button Clamp Pawl -----	1
12	99-316	Holder -----	1
13	1189 L	Screw, for Nos. 21-336, 21-337 right and left spring-----	2
14	22-205	Pin, for Nos. 21-336, 21-337 right and left spring-----	2
15	21-337	Left Spring, for No. 45-347 left lever -----	1
16	45-347	Left Lever -----	1
17	45-346	Right Lever -----	1
18	21-336	Right Spring, for No. 45-346 right lever-----	1
19	45-332	Adjusting Lever-----	1
20	158-11	Slide in Holder-----	1
21	157-10	Spacer, for No. 18-945 adjusting screw-----	1
22	18-945	Adjusting Screw-----	1
23	18-931	Screw, for No. 99-316 holder-----	1
24	21-315	Spring, for No. 158-11 slide in holder-----	1
25	18-272	Screw, for No. 99-316 holder -----	1
26	18-873	Screw, for No. 99-316 holder -----	2
27	1005 L	Screw, for No. 71-112 lifting rod -----	1
28	71-112	Lifting Rod -----	1
*	18-929	Screw, for Nos. 45-346, 45-347 right and left lever -----	2
*	18-930	Guide Screw, for Nos. 45-346, 45-347 right and left lever -----	2
*	20-123	Lock Nut, for No. 158-11 slide in holder-----	1
29	17-178	Knife Drive Lever Adjusting Stud -----	1
30	CS337	Screw, for No. 46-203 knife driving link arm -----	1
31	45-481	Knife Driving Lever -----	1
32	40 C-615	Washer, for No. 22596 screw -----	4
33	22596	Screw, for No. 45-481 knife driving lever -----	2
34	45-477-1	Button Clamp Lifting Lever -----	1
35	122-29 A	Looper Positioning Finger, for Styles 200-30, 200-35-----	1
36	45-482	Knife Activating Lever, for Styles 200-30, 200-35 -----	1
37	51170 D	Nut, for No. 17-178 knife drive lever adjusting stud-----	1
38	815 L	Washer, for No. 17-178 knife drive lever adjusting stud-----	1
39	115-168	Knife Clamp Tripping Block -----	1
40	94	Screw, for No. 115-168 knife clamp tripping block-----	1
41	18-1089	Screw, for No. 45-482 knife activating lever -----	2
42	4119-84	Knife, upper, complete with pin, for Styles 200-30, 200-35-----	1
43	4119-86	Knife, lower, complete, for Styles 200-30, 200-35-----	1
44	75-253	Finger Guide-----	1
45	22564 F	Screw-----	2
46	22542	Screw, for No. 46-204 knife driving link-----	1
47	46-204	Knife Driving Link-----	1
48	CS337	Screw, for No. 46-203 knife driving link arm-----	2
49	46-203	Knife Driving Link Arm-----	1
*	14-365	Stop Motion Trip Lever Shaft -----	1
*	71-122	Button Clamp Lifting Rod-----	1
*	20-45	Nut, for button clamp lifting rod -----	2

* Not shown on picture plate.



MISCELLANEOUS PARTS
(For both Styles 200-30 and 200-35, unless otherwise specified.)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	22588	Screw, for No. 166-13 thread cutter operating pawl, for Style 200-30 only -----	4
2	166-13	Thread Cutter Operating Pawl, for Style 200-30 only ----	2
3	34-98	Cam, for vibrating button plate lengthwise, includes two No. 18-984 set screws -----	1
4	122-29 A	Looper Positioning Finger-----	1
5	110-213 A	Spacer Plate, large, to raise No. 110-302 needle plate -----	1
6	45-482	Knife Activating Lever-----	1
7	18-1089	Screw, for No. 45-482 knife activating lever -----	2
8	21-163	Spring, for thread cutting lever link, for Style 200-30 only -----	1
9	46-205	Thread Cutting Knife Lever Link, for Style 200-30 only -----	1
10	22542	Screw, for No. 46-205 thread cutting knife lever link, for Style 200-30 only -----	1
11	4119-84	Knife, upper, complete with pin-----	1
12	4119-86	Knife, lower, complete -----	1
13	22564 F	Screw -----	2
14	75-253	Finger Guide -----	1



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