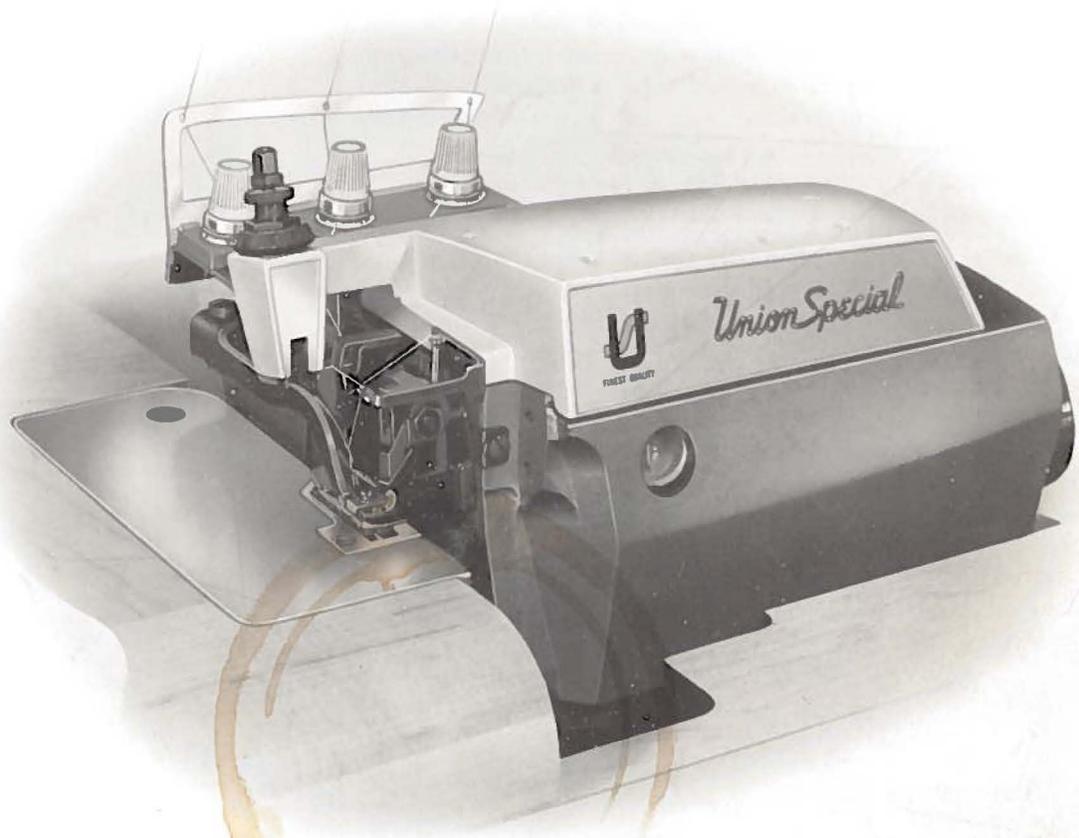


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LEWIS • COLUMBIA

**INDUSTRIAL
SEWING
MACHINES**

**STYLE
39500FD**



**CATALOG
NO.
103FD**

CLASS 39500

**HI-STYLED
HIGH SPEED OVERSEAMER
WITH
STITCH SHORTENING MECHANISM**

Union Special **MACHINE COMPANY**

CHICAGO

From the library of: **Superior Sewing Machine & Supply LLC**

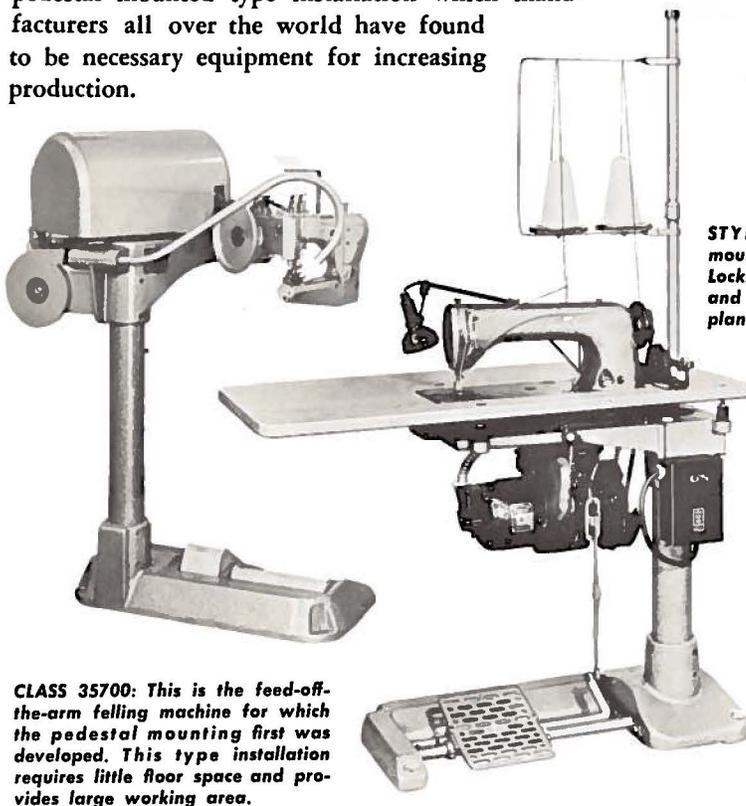
Aid Plant Layout! Boost Production!

PEDESTAL MOUNTED MACHINES

UNION SPECIAL'S pedestal mountings for sewing heads have offered a great many advantages to manufacturers ever since they were introduced as a revolutionary new type of mounting for feed-off-the-arm machines in Classes 35700 and 35800.

In the pedestal mounted type installation, the machine is completely isolated from the base and, where table boards are used, they are completely isolated from the pedestal and from the machine, which makes for smoother, quieter operation. In various cases, the motor may be mounted to the right or to the left under the machine handwheel. Mounting of the motor to the right provides maximum space under machine for the operator.

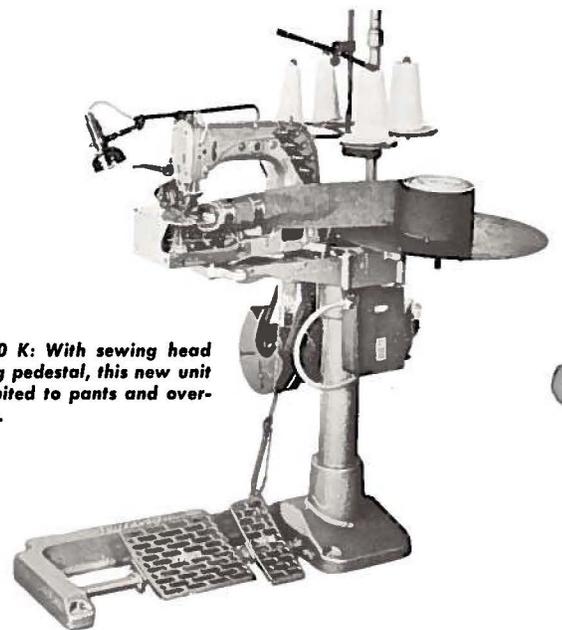
These new pedestals offer maximum flexibility, convenience, and adaptability to production lines, especially where variations in operation or garment styles are necessary from time to time. The foot treadles are adjustable laterally and the machine mounting bracket is adjustable vertically to suit the individual operator and to provide the most comfortable working position, thus reducing fatigue. The illustrations shown here are just a few of the many styles of machines that Union Special has to offer in the pedestal mounted type installation which manufacturers all over the world have found to be necessary equipment for increasing production.



CLASS 35700: This is the feed-off-the-arm felling machine for which the pedestal mounting first was developed. This type installation requires little floor space and provides large working area.

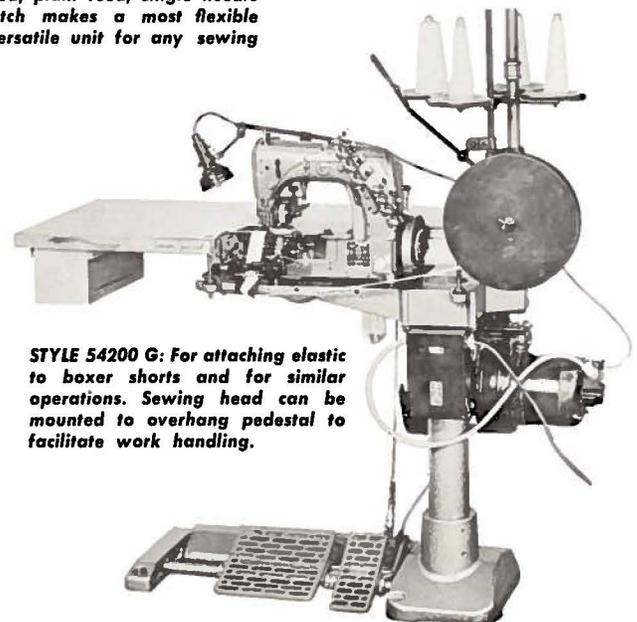


STYLE 52900 BH: For simultaneously seaming and overedging the in-seams and outseams of corduroy pants and similar articles.



STYLE 54200 K: With sewing head overhanging pedestal, this new unit is ideally suited to pants and overall banding.

STYLE 61400 A: The pedestal mounted, plain feed, single needle Lockstitch makes a most flexible and versatile unit for any sewing plant.



STYLE 54200 G: For attaching elastic to boxer shorts and for similar operations. Sewing head can be mounted to overhang pedestal to facilitate work handling.

Catalog No. 103 FD
(Supplement to Catalog No. 103 FA)

INSTRUCTIONS
FOR
ADJUSTING AND OPERATING
LIST OF PARTS

CLASS 39500

Style
39500 FD

First Edition

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Union Special
MACHINE COMPANY
INDUSTRIAL SEWING MACHINES
CHICAGO

Printed in U.S.A.

June, 1967

IDENTIFICATION OF MACHINES

Each Union Special machine is identified by a Style number on a name plate on the machine. Style numbers are classified as standard and special. Standard Style numbers have one or more letters suffixed, but never contain the letter "Z". Example: "Style 39500 FD". Special Style numbers contain the letter "Z". When only minor changes are made in a standard machine, a "Z" is suffixed to the standard Style number. Example: "Style 39500 FDZ".

Styles of machines similar in construction are grouped under a Class number which differs from the Style number in that it contains no letters. Example: "Class 39500".

APPLICATION OF CATALOG

This catalog is a supplement to Catalog No. 103 FA and should be used in conjunction therewith. Only parts found on Style 39500 FD, but not on Style 39500 FB are illustrated. On the page opposite the illustration will be found a listing of the parts with their part numbers, description and the number of pieces required. Numbers in the first column are reference numbers only, and merely indicate the position of that part in the illustration. Reference numbers should never be used in ordering parts. Always use the part number listed in the second column.

This catalog applies specifically to the standard Styles of machines as listed herein. It can also be applied with discretion to some Special Styles of machines in Class 39500. References to directions, such as right, left, front, back, etc., are given from the operator's position while seated at the machine. Operating direction of handwheel is away from operator.

STYLES OF MACHINES

Hi-Styled High Speed Single Curved Blade Needle, Two Looper, Three Thread, Overseaming Machine. Differential Feed, Trimming Mechanism with Spring Pressed Lower Knife, Automatic Lubricating System.

39500 FD Light to medium duty machine for seaming of "T" shirts, polo shirts, panties, slips, etc., with knee controlled stitch shortening mechanism to minimize the possibility of ravelling. Seam Specification, 504-SSa-1; standard seam width 1/8 inch; stitch range 8-20 per inch; cam adjusted main and differential feed. Maximum recommended speed 7000 R. P. M.

OILING

CAUTION! Oil was drained from machine when shipped, so reservoir must be filled before beginning to operate. Oil capacity of Class 39500 is six ounces. A straight mineral oil of a Saybolt viscosity of 200 to 250 seconds at 100° Fahrenheit should be used.

Machine is filled with oil at spring cap in top cover. Oil level is checked at sight gauge on front of machine. Red bulb on oil level indicator should show between gauge lines when machine is stationary.

Machine is automatically lubricated. No oiling is necessary, other than keeping main reservoir filled. Check oil daily before the morning start; add oil as required.

The drain plug screw is located at back of machine near bottom edge of base. It is a magnetic screw designed to accumulate possible foreign materials which may have entered the crank case. It should be removed and cleaned periodically.

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 CATALOG IN WHICH THEY APPEAR.

IMPORTANT! ON ALL ORDERS, PLEASE INCLUDE PART NAME AND STYLE OF MACHINE FOR WHICH PART IS ORDERED.

NEEDLES

Each Union Special needle has both type and size number. The type number denotes the kind of shank, point, length, groove, finish and other details. The size number, stamped on the needle shank, denotes largest diameter of blade, measured in thousandths of an inch, midway between shank and eye. Collectively, type and size number represent the complete symbol which is given on the label of all needles packaged and sold by Union Special.

Selection of proper needle size should be determined by the size of the thread used. Thread should pass freely through the needle eye in order to produce a good stitch formation.

For best results, use only genuine Union Special needles in the operation of this machine. They are packaged under our brand name, *Union Special*, which is backed by a reputation for producing highest quality needles for more than three-quarters of a century.

Style 39500 FD uses curved blade needles. The standard needle for this style is Type 154 GAS. It has a round shank, round point, curved blade, standard length, single groove, struck groove, spotted, chromium plated and is available in sizes 022, 025, 027, 029, 032, 036, 040, 044, 049, 054.

To have needle orders promptly and accurately filled, an empty package, a sample needle, or the type and size number should be forwarded. Use description on label. A complete order would read: "1000 Needles, Type 154 GAS, Size 027".

USE GENUINE NEEDLES AND REPAIR PARTS

Success in the operation of these machines can be secured only with genuine Union Special Needles and Repair Parts as furnished by the Union Special Machine Company, its subsidiaries and authorized distributors. They are designed according to the most scientific principles, and are made with utmost precision. Maximum efficiency and durability are assured.

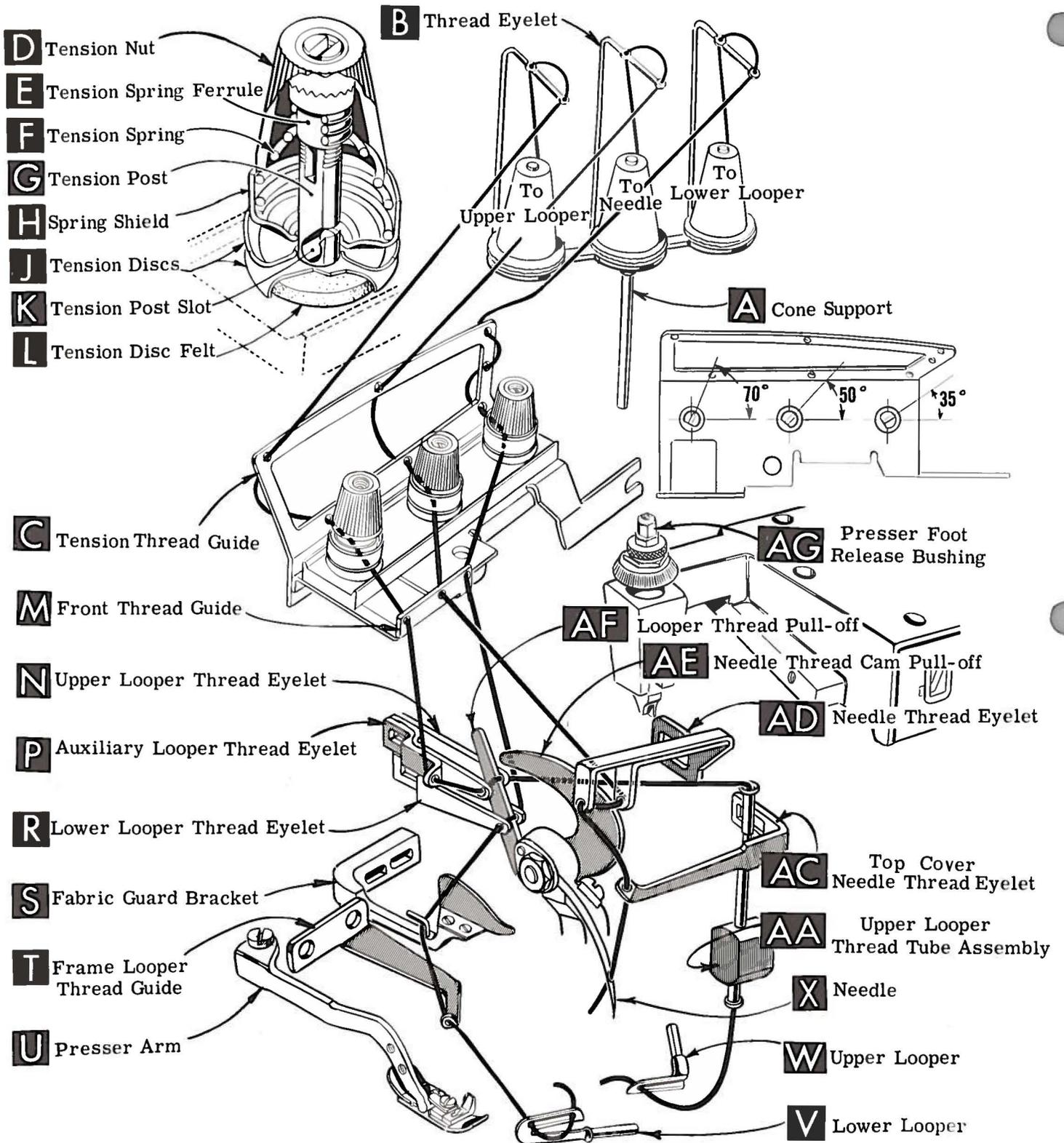
Genuine needles are packaged with labels marked *Union Special*. Genuine repair parts are stamped with the Union Special trade mark. Each trade mark is your guarantee of the highest quality in materials and workmanship.

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.

CHANGING NEEDLES, ETC.

All instructions with regards to Changing Needles, Thread Stand, Threading are the same for Style 39500 FD as for Style 39500 FB covered in Catalog 103 FA.



ASSEMBLING AND ADJUSTING SEWING PARTS

All instructions pertaining to the adjustment of Style 39500 FD are same as those for Style 39500 FB (described in Catalog 103 FA) except for the following: (Changes are underlined).

1. Under heading "SETTING THE NEEDLE", (Page 9, Catalog 103FA):
With throat plate attached to the throat plate support (39580 C) and resting on the throat plate support bracket (39580 AB), needle should center in the front end of needle slot.
2. SETTING THE LIFTER LEVER STOP
(New to Style 39500 FD)

Simulated tacking is obtained by increasing the number of stitches per inch sewn at the start or finish of a garment. The number of stitches per inch is increased by raising the throat plate which in effect reduces the effective feed dog travel.

While sewing on material, adjust the lifter lever stop (A, Fig. 19) so that when the knee press is engaged, the lifter lever (B) raises the throat plate to a height required to obtain the desired increase in the number of stitches per inch sewn. Screw (C) is used to secure the lifter lever stop.

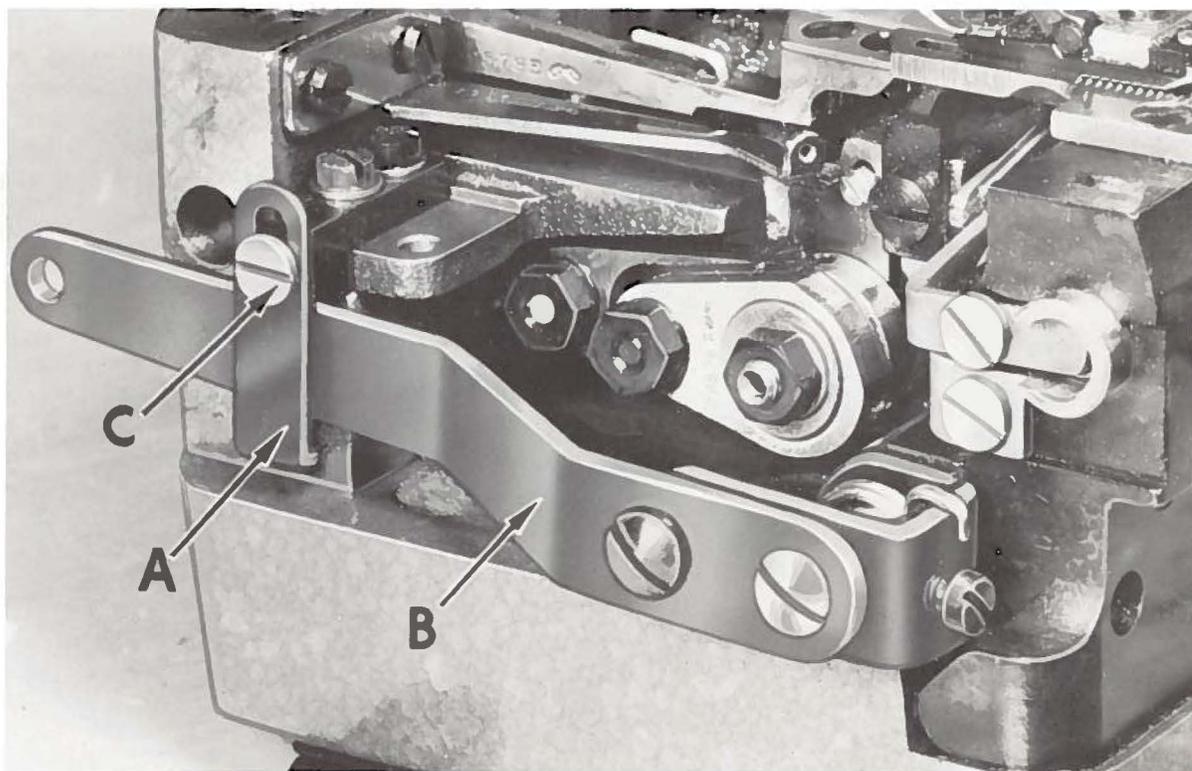
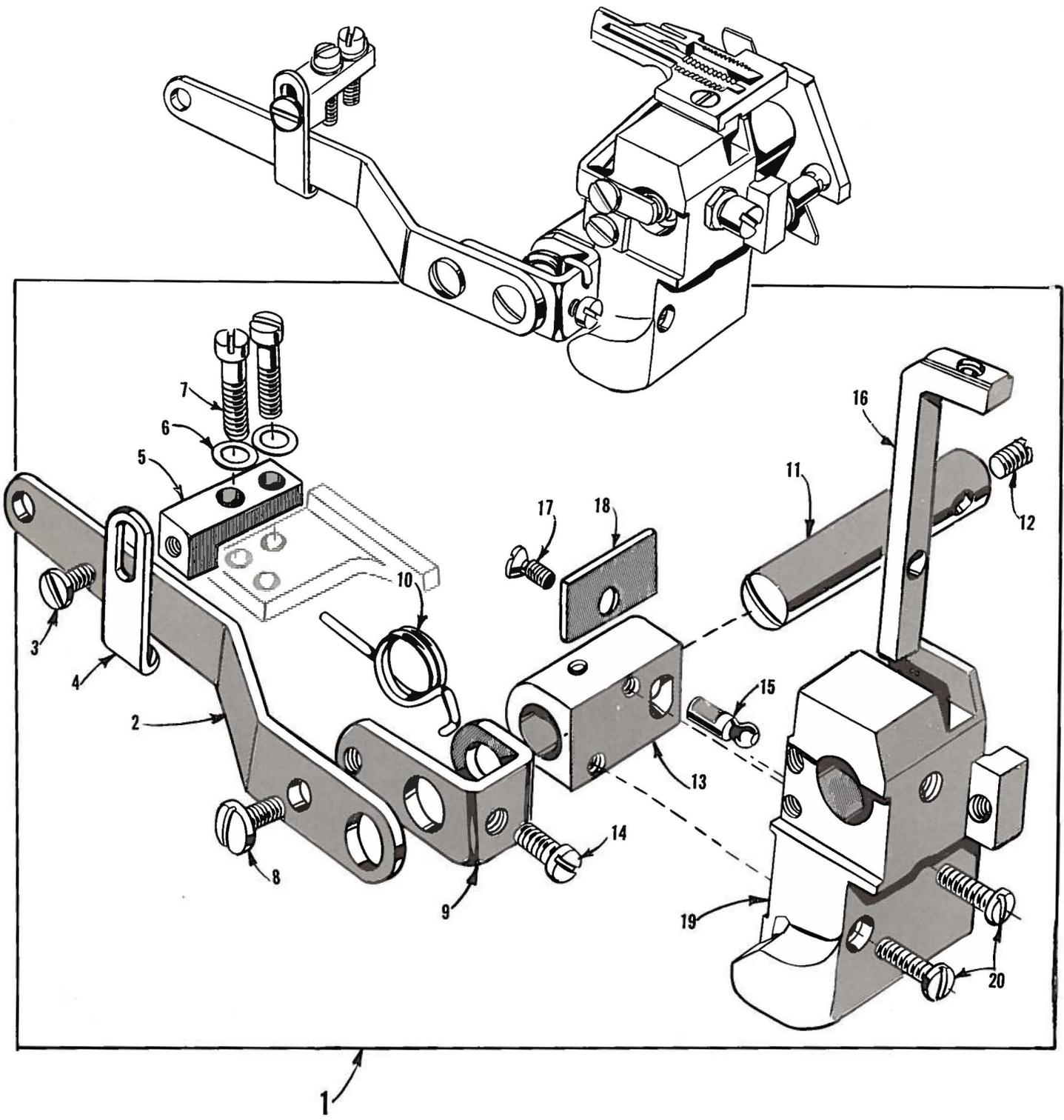


Fig. 19

NOTE: The stitch shortening mechanism can be purchased complete under No. 29480 CC and can be applied to all Styles in Class 39500 except hemming machines and those equipped with intermittent differential feed.



The parts illustrated on the preceding page and described below represent parts used on Style 39500 FD, but are not used on Style 39500 FB.

Parts shown in phantom view and bearing no reference numbers are common to Styles 39500 FD and 39500 FB.

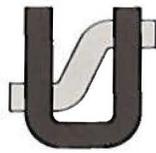
Use Catalog 103 FA for all parts and instructions applicable to 39500 FB not illustrated or described here.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	29480 CC	Stitch Shortening Mechanism, complete-----	1
2	39581	Throat Plate Lifter Lever-----	1
3	22585 C	Screw, for lifter lever stop -----	1
4	39581 F	Lifter Lever Stop -----	1
5	39581 G	Lifter Lever Stop Block-----	1
6	53634 C	Feed Bar Guide Washer-----	2
7	22541	Screw, for lifter lever stop block -----	2
8	22526	Screw, for throat plate lifter lever-----	1
9	39581 A	Lifter Lever Clamp -----	1
10	39581 B	Lifter Lever Clamp Spring -----	1
11	39581 C	Lifter Lever Shaft-----	1
12	89	Screw, for lifter lever shaft-----	1
13	39581 E	Lifter Lever Bearing Block -----	1
14	22596 D	Screw, for lifter lever clamp-----	1
15	39581 D	Lifter Lever Shaft Stud -----	1
16	39580 C	Throat Plate Support -----	1
17	22524	Screw, for throat plate retaining plate-----	1
18	39580 D	Throat Plate Retaining Plate -----	1
19	39580 AB	Throat Plate Support Bracket-----	1
20	22516 A	Screw, for lifter lever bearing block -----	2

KNEE PRESS PARTS

421 D-10	Control Chain, 10 inches long -----	1
660-168	Knee Press Plate Pad, rubber-----	1
660-264	"S" Hook, for control chain -----	2
9271	Collar, for knee press shaft bracket -----	2
98	Screw, for collar -----	1
21661	Knee Press Bracket Shaft -----	1
21662	Knee Press Bracket -----	1
21663	Knee Press Lever-----	1
21663 A	Knee Press Plate Rod -----	1
21664	Knee Press Plate -----	1
21665	Knee Press Rod Connection -----	2
69 FD	Set Screw -----	2

NOTE: Knee press parts not shown on picture plate.



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