CLASS 39500

STREAMLINED
HIGH SPEED OVERSEAMERS

Union Special MACHINE COMPANY
CHICAGO
INSTRUCTIONS

FOR

ADJUSTING AND OPERATING

LIST OF PARTS

CLASS 39500

Styles

39500 Y 39500 AA

The parts listed in this catalog are furnished at list prices for repairs only.

First Edition

Copyright 1959 by Union Special Machine Co. Rights Reserved in All Countries

Union Special
MACHINE COMPANY
INDUSTRIAL SEWING MACHINES
CHICAGO

Printed in U.S.A.

November, 1964
FOREWORD

The Class 39500 machine is Union Special's latest overedger. New streamlined styling, automatic lubrication, and light running high speed performance are characteristics of these machines. All parts are made by precision methods insuring complete interchangeability.

It is our constant aim to furnish carefully prepared information that will enable the customer to secure all possible advantages from the use of Union Specials. The following pages contain valuable operating and adjusting data, and illustrate and describe the parts for Styles in Class 39500.

Union Special representatives will be found in all manufacturing centers, anxious to cooperate with you to plan and estimate requirements.

Union Special MACHINE COMPANY

Engineering Department
IDENTIFICATION OF MACHINES

Each Union Special machine is identified by a Style number which is stamped into the name plate.

Machines similar in construction are designated by a Class number which contains no letters. Letters suffixed to the Class number indicate the individual Standard machine style. Letter "Z", however, is reserved as a suffix to the Standard style identification to specify machine is of Special construction.

APPLICATION OF CATALOG

This is a supplement to Catalog No. 103 S and should be used in conjunction therewith. Only parts found on Styles 39500 Y and 39500 AA, but not on 39500 A, 39500 B or 39500 P, are illustrated. Opposite the illustration is listed the part name, number and quantity, by itemized detail numbers.

This catalog applies specifically to the Standard style of machine as listed herein. It can also be applied with discretion to some Special machines in this Class. References to direction such as right, left, front, back, etc., are given from the operator's position while seated at the machine.

STYLES OF MACHINES


39500 Y For seaming medium and heavy loosely knit outerwear made from cotton, wool and synthetic yarns. Standard width of trim 1/8 inch, wide cutting knives. Seam Spec. 504-SSa-1.

39500 AA For seaming medium and heavy knit outerwear made from cotton, wool and synthetic yarns, with provision for inserting a reinforcing tape used on shoulder seams of sweaters and similar garments. Standard width of trim 5/32 inch, wide cutting knives. Seam Spec. 504-SSa-1.

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.

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.

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 construction permits, each Union Special part is stamped with its catalog number. A part too small for its complete catalog stamping is identified by a letter symbol which distinguishes it from another part similar in appearance.

Each part number represents the same part regardless of catalog in which it appears.

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

TERMS

Prices are strictly net cash and are subject to change without notice. All shipments are forwarded at the buyer's risk f.o.b. shipping point. Parcel Post shipments are insured unless otherwise directed. A charge is made to cover the postage and insurance.

NEEDLES

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

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.

Styles 39500 Y and 39500 AA use curved blade needles. The standard needle for these styles is Type 154GAS. It is a curved blade, standard length, single groove, shallow spot, long tapered point, struck groove, chromium plated in sizes 022, 025, 027, 029, 032, 036, 040, 044.

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 154GAS, Size 040".

CHANGING NEEDLES, ETC.

All instructions with regards to Changing Needles, Thread Stand, Threading are the same as for Style 39500 P covered in Catalog 103 S.
ASSEMBLING AND ADJUSTING SEWING PARTS

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

1. Under heading "SETTING THE NEEDLE", (Page 8) when needle is at high position, needle point should be set 15/32 inch above the throat plate.

2. Under heading, "SETTING THE LOWER KNIFE", (Page 11) lower knife should be set with cutting edge 1/32 inch below the throat plate surface.

All adjusting instructions covered by Catalog 103 S are applicable to Style 39500 Y.
Parts illustrated opposite this page, described below, represent parts for either Style 39500 Y or 39500 AA. Where part is common to both, no style is mentioned.

Parts shown in phantom view, bearing no reference numbers, are common to Styles 39500 P, 39500 Y, and 39500 AA.

Use Catalog No. 103 S for other parts common to Styles 39500 P, 39500 Y, and 39500 AA.

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Amt. Req.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>39599</td>
<td>Tape Guide, for Style 39500 AA</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>69 H</td>
<td>Washer, for Style 39500 AA</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>22569</td>
<td>Screw, for Style 39500 AA</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>39578 BA</td>
<td>Chip Guard, for Style 39500 AA</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>39557 G</td>
<td>Presser Spring Plunger, for Style 39500 AA</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>39556 E</td>
<td>Presser Arm, for Style 39500 AA</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>39520 Y</td>
<td>Presser Foot, complete, for Style 39500 Y</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>22768 B</td>
<td>Screw</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>39530</td>
<td>Hinge Spring</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>39597 P</td>
<td>Stitch Tongue</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>39520 AA</td>
<td>Presser Foot, complete, for Style 39500 AA</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>39597 AA</td>
<td>Stitch Tongue</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>39530</td>
<td>Hinge Spring</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>22768 B</td>
<td>Screw</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>22738</td>
<td>Screw</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>39530 C</td>
<td>Chain Shield</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>39571 D</td>
<td>Upper Knife Clamp Stud</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>39572</td>
<td>Upper Knife Holder Block</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>39570 J</td>
<td>Upper Knife</td>
<td>1</td>
</tr>
<tr>
<td>22</td>
<td>14077</td>
<td>Nut</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>39549 J</td>
<td>Lower Knife</td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td>39524 Y</td>
<td>Throat Plate, for Style 39500 Y</td>
<td>1</td>
</tr>
<tr>
<td>26</td>
<td>39524 AA</td>
<td>Throat Plate, for Style 39500 AA</td>
<td>1</td>
</tr>
<tr>
<td>27</td>
<td>39505 P</td>
<td>Main Feed Dog</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>39526 Y</td>
<td>Differential Feed Dog, for Style 39500 Y</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td>39505 E</td>
<td>Chaining Feed Dog</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td>39540 B-6</td>
<td>Differential Feed Cam</td>
<td>1</td>
</tr>
<tr>
<td>31</td>
<td>39540-10</td>
<td>Main Feed Cam</td>
<td>1</td>
</tr>
<tr>
<td>32</td>
<td>39526 AA</td>
<td>Differential Feed Dog, for Style 39500 AA</td>
<td>1</td>
</tr>
</tbody>
</table>
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 inseams 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.