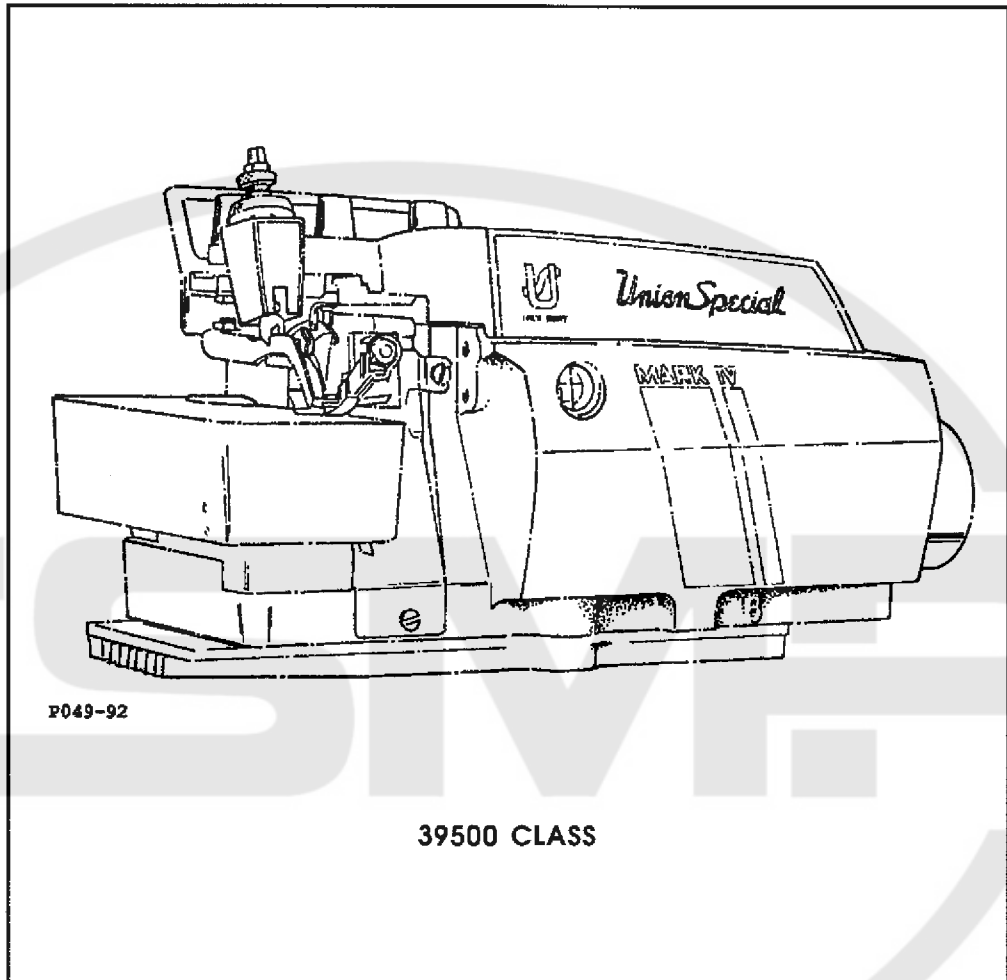


MANUAL NO.
PRT9206-GR

ILLUSTRATED PARTS LIST

STYLES

39500 QA
39500 QB
39500 QP
39500 RA
39500 RF
39500 RR
39500 RS
39500 SE
39500 SF
39500 TE
39500 CQA
39500 CQB
39500 CRF
39500 SQB
39500 SRF
39500 CSRF



Union Special
INDUSTRIAL SEWING EQUIPMENT



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By

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PREFACE

This parts manual has been prepared to assist you in locating individual parts or assemblies on 39500 Series machines. It can be used in conjunction with Union Special Adjusting Manual INS9207.

It is the desire of Union Special that each machine run at its optimum performance. Parts listed in this manual are designed specifically for your machine and are manufactured with utmost precision to assure long lasting service.

This manual has been comprised on the basis of available information. Changes in design and/or improvements may incorporate a slight modification of configuration in illustrations or part numbers.

On the following pages are illustrations and terminology used in describing the parts used on 39500 Series machines.

SAFETY RULES



General Operating Directions

The sewing machines described in this instruction manual are prohibited from being put into service until it has been ascertained that the sewing units, in which these sewing machines will be built-in have conformed with the EC Council Directives (89/392/EEC, Annex II B).

1. Before putting the machines described in this manual into service, carefully read the instructions. The starting of each machine is only permitted after taking notice of the instructions and by qualified operators.

IMPORTANT! Before putting the machine into service, also read the safety rules and instruction from the motor supplier.

2. Observe the national safety rules valid for your country.
3. Each machine is only allowed to be used as foreseen. The foreseen use of the particular machine is described in paragraph "STYLES OF MACHINES" of this instruction manual. Another use, going beyond the description, is not as foreseen.
4. All safety devices must be in position when the machine is ready for work or in operation. Operation of the machine without the appertaining safety devices is prohibited.
5. The following safety devices are components of the sewing machines: Finger guard, needle lever eyelet guard, needle bar guard, needle break protection shield and handwheel-belt guard.
6. When gauge parts are exchanged (e.g. needle, presser foot, needle plate, feed dog and bobbin) during threading, when the operator leaves the workplace, and during service work, the machine must be isolated from the main power by switching off the main switch or disconnecting the main plug. On mechanically operated clutch motors without a start inhibitor it is necessary to wait until the motor has stopped.

7. Wear safety glasses.
8. In case of machine conversions and changes all valid safety rules must be considered. Conversions and changes are made at your own risk.
9. Commissioning of the sewing head is prohibited until such time as the entire sewing unit is found to comply with EC regulations.
10. The warning hints in the instructions are marked with one of these two symbols:



Items require special attention



Danger of injury to operative or service staff

Be sure to observe and adhere to these indications and to the generally applicable regulations.

Special Operating Directions

11. For the following the machine has to be disconnected from the power supply by turning off the main switch or by pulling out the main plug:
 - 11.1 For threading needle(s), looper, spreader etc.
 - 11.2 For replacing sewing parts such as needle, presser foot, throat plate, looper, spreader, feed dog, needle guard, folder, fabric guide etc.
 - 11.3 When leaving the workplace and when the workplace is unattended.
 - 11.4 For maintenance work.
 - 11.5 When using clutch motors without actuation lock, wait until the motor is stopped totally.

General Maintenance Directions

12. Maintenance, repair and conversion work (see item 8) must be done only by trained technicians or special skilled personnel under consideration of the instructions.
13. Any work on the electrical equipment must be done by an electrician or under direction and supervision of special skilled personnel.

Special Maintenance Directions

14. Work on parts and equipment under electrical tension is not permitted. Permissible exceptions are described in the applicable sections of standard sheet DIN VDE 0105.
15. Before doing maintenance and repair work on the pneumatic equipment, the machine has to be disconnected from the compressed air supply. In case of existing residual air pressure after disconnecting from compressed air supply (e.g. pneumatic equipment with air tank), the pressure has to be removed by bleeding.

Exceptions are only allowed for adjusting work and function checks done by special skilled personnel.

Standards

17. The sewing machines described in this manual are built according to the following standards:

EN292-2 Safety of machinery-basic concepts, general principles for design.

IEC204-3-1/EN60204-3-1 Electrical equipment of industrial machines. Part 3: Particular requirements for sewing machines, units and systems.

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ORDERING REPAIR PARTS

ILLUSTRATIONS

This manual has been arranged to simplify ordering repair parts. Exploded views of various sections of the mechanism are shown so that the parts may be seen in their actual position in the machine. 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 in the particular view being shown.

Numbers in the first column are reference numbers only, and merely indicate the position of the part in the illustration. The reference number should never be used in ordering parts. Always use the part number listed in the second column.

Component parts of sub-assemblies which can be furnished for repairs are indicated by indenting their descriptions under the description of the main sub-assembly. As an example refer to the text below.

9.	29126 EC	Upper Looper Drive Shaft Assembly	1
10.	22503 F	Screw	1
11.	39543 E	Cam Follower Locking Clamp	1

It will be noted in the above example that the cam follower, bushing and cam guide and the upper looper drive shaft are not listed. The reason is that replacement of these parts individually is not recommended, so the complete upper looper drive shaft assembly should be ordered.

When a part is common to all machines covered in this manual, no specific usage will be mentioned in the description. However, when the parts for the various machines are not the same, the specific usage will be mentioned in the description and, if necessary, the difference will be shown in the illustration.

A numerical index of all the parts shown in this manual is located at the back. This will facilitate locating the illustration and description when only a part number is known.

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.

PLEASE NOTE: Part numbers represent the same part, regardless of which manual they appear. On all orders please include part number, name and style of machine for which the part was ordered.

NEEDLES

Each needle has both a 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 the largest diameter of the blade measured between the shank and the eye. Collectively, the type number and size number represent the complete symbol which is given on the label of all needles packed and sold by Union Special.

<u>TYPE</u>	<u>DESCRIPTION</u>
154 GAS	Round shank, round point, curved blade, standard length, single groove, struck groove, spotted, chromium plated. Sizes available 055/022, 065/025, 070/027, 075/029, 080/032, 090/036, 100/040, 110/044, 125/049, 140/054, 150/060.
154 GBS	Round shank, round point, curved blade, standard length, double groove, struck groove, spotted, chromium plated. Sizes available 070/027, 075/029, 080/032.
154 GHS	Round shank, ball point, curved blade, standard length, single groove, struck groove, spotted, chromium plated. Sizes available 065/025, 070/027, 075/029, 080/032, 090/036.
162 SAS	Round shank, round point, curved blade, short length, double groove, struck groove, spotted, chromium plated. Sizes available 055/022, 065/025, 070/027, 075/029, 080/032, 090/036, 100/040, 110/044.

APPLICATION

Machine Style	Needle Type	Needle Size
39500 QA, QB, RF, TE, CQA, CQB, CRF	154 GAS	070/027
39500 SE	154 GAS	080/032
39500 QP	154 GAS	090/036
39500 RA, SF	154 GAS	100/040
39500 RS	154 GBS	075/029
39500 RR	154 GHS	080/032
39500 SRF, CSRF	162 SAS	065/025
39500 SQB	162 SAS	070/027

When changing the needle, make sure it is fully inserted in the needle driving arm before the nut is tightened.

To have needles promptly and accurately filled, an empty package, a needle sample, or the type and size number should be forwarded. Use the description on the label. A complete order should read as follows: "100 needles, type 154 GAS, size 070/027".

TERMS

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

TORQUE REQUIREMENTS

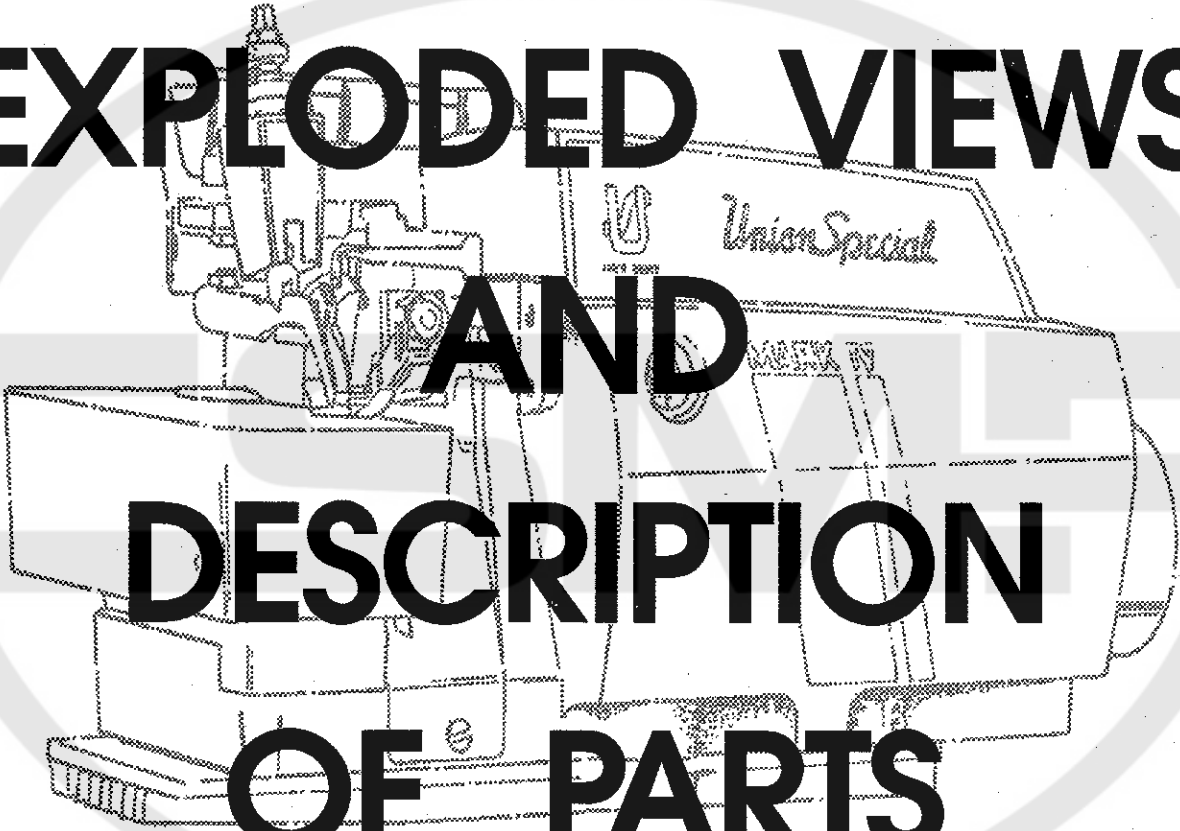
Torque measured in inch-pounds or centimeter/kilograms is a rotating force in pounds applied through a distance by a lever in inches, feet or meters. This is accomplished by a wrench, screwdriver, etc. Many of these devices are available, which when set at the proper amount of torque will tighten the part to the correct amount and no tighter.

All straps and eccentrics should be tightened to 26-28 inch-pounds (2.9-3.2Nm) unless otherwise noted. All other nuts, bolts, screws, etc. should be tightened by hand as tightly as possible, unless otherwise noted.

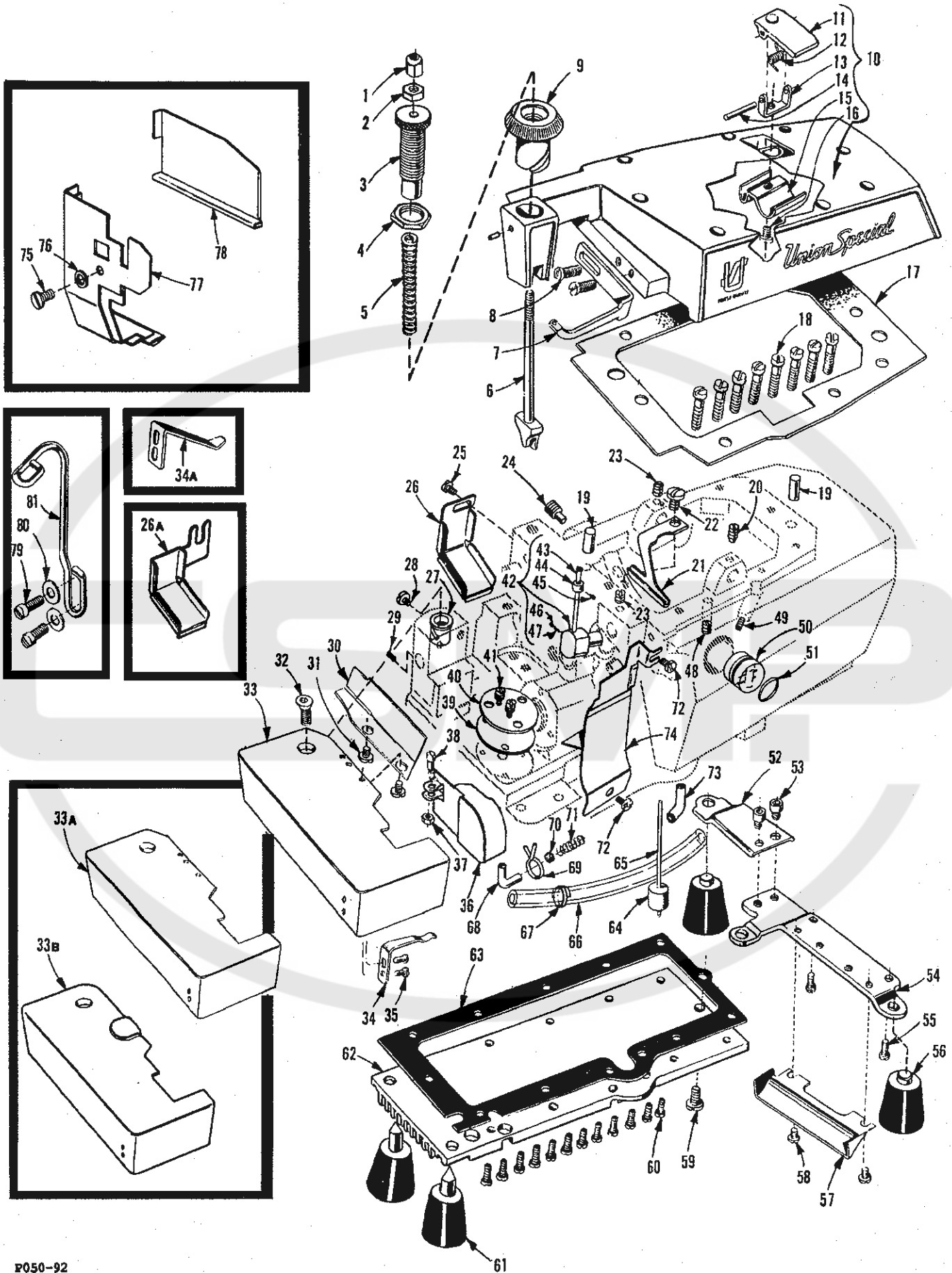
Screws requiring a specific torque will be indicated on the illustrations in 39500 Parts Manual PRT9206.



EXPLODED VIEWS AND DESCRIPTION OF PARTS

An exploded view diagram of a Union Special sewing machine. The diagram shows the main body of the machine, the foot, the needle, and the presser foot assembly. The text "Union Special" is visible on the side of the machine body. The diagram is rendered in a technical, line-art style with a stippled background.

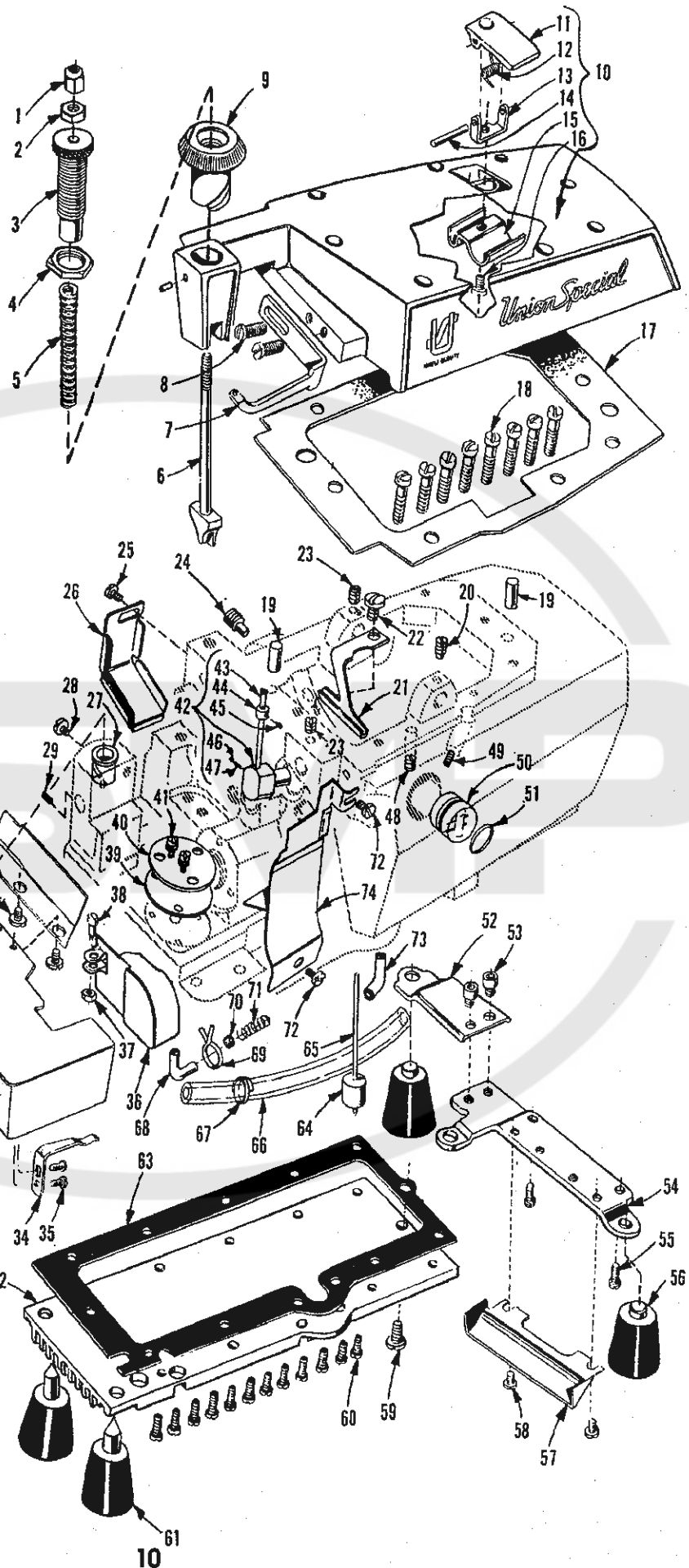
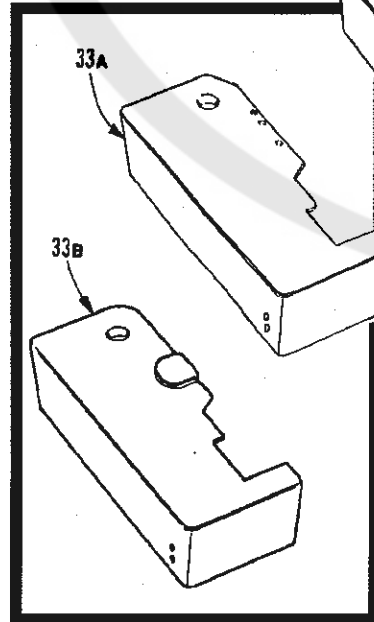
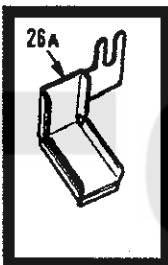
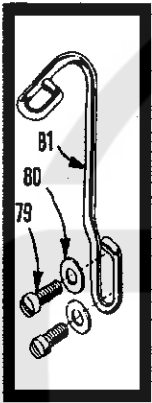
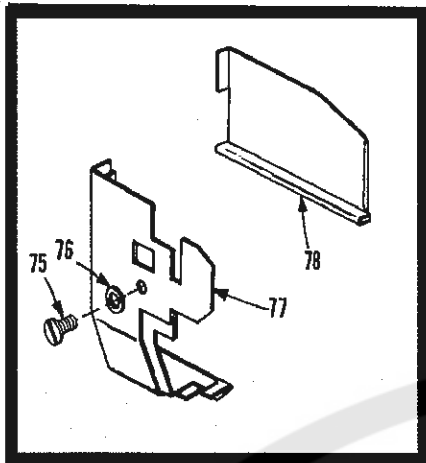
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MAIN FRAME, MISCELLANEOUS COVERS & PRESSER FOOT RELEASE PARTS

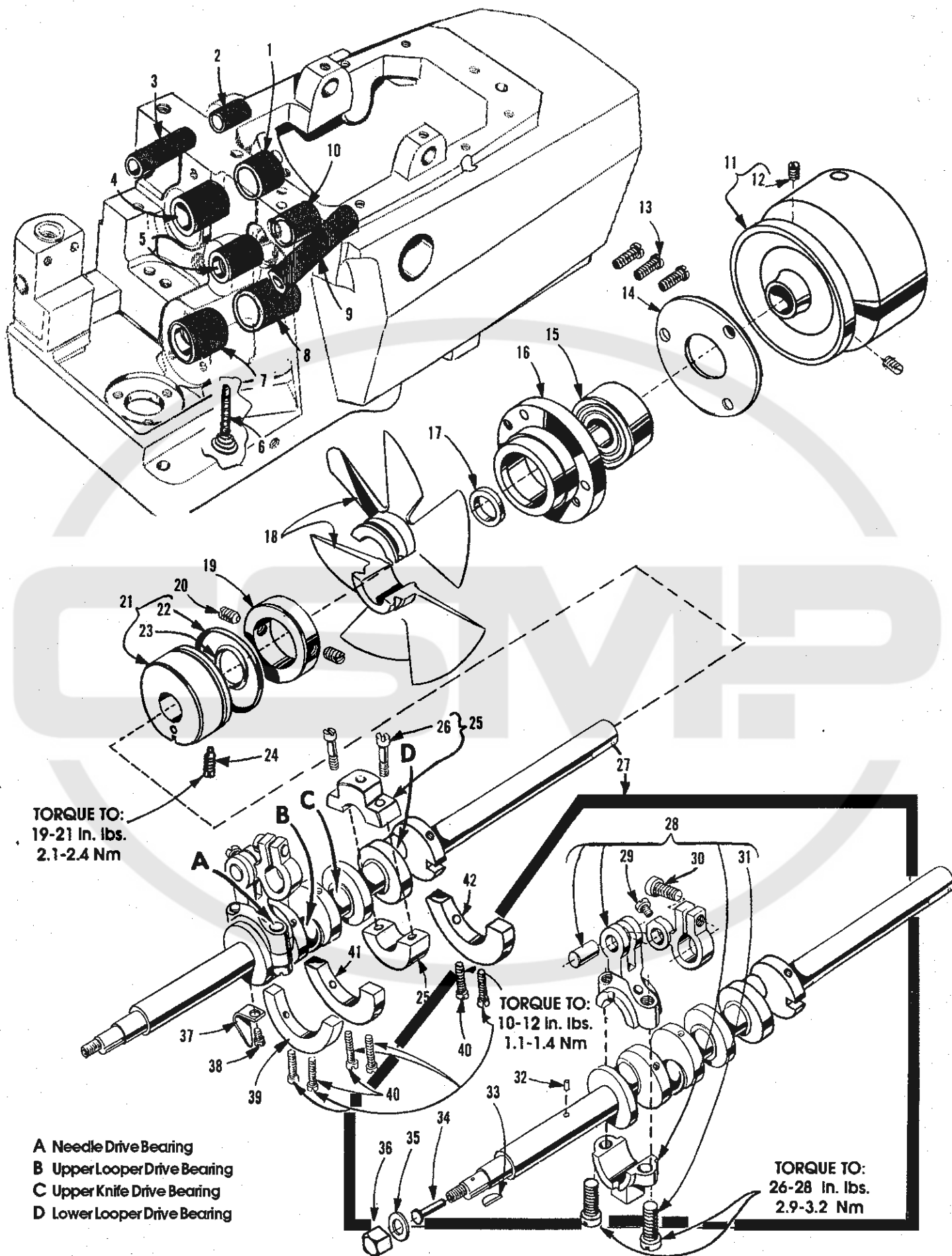
Ref. No.	Part No.	Description	Amt. Req.
1.	39557B	Presser Spring Plunger Cap Nut	1
2.	39557E	Presser Spring Plunger Locking Nut	1
3.	39557C	Presser Spring Plunger Adjusting Screw	1
4.	39557F	Lock Nut	1
5.	39557	Presser Spring	1
6.	39557A	Presser Spring Plunger	1
7.	39563F	Top Cover Needle Thread Eyelet, for all Styles except 39500 RA, SF	1
-	39563T	Top Cover Needle Thread Eyelet, for Styles 39500 RA, SF	1
8.	22569B	Screw, for top cover needle thread eyelet	2
9.	39556A	Presser Foot Release Bushing	1
10.	39582AD	Top Cover	1
11.	39582AF	Oil Filler Cover	1
12.	39582V	Spring	1
13.	39582AG	Hinge Bracket	1
14.	51-103BLK	Hinge Pin	1
15.	39582W	Oil Guard	1
16.	22562A	Screw, for hinge bracket	1
17.	39582BZ	Top Cover Gasket	1
18.	22541	Screw, for top cover	8
19.	667D-8	Dowel Pin	2
20.	22565S	Spot Screw, for upper looper drive lever shaft	1
21.	39594R	Oil Collector Plate	1
22.	22569D	Screw, for oil collector plate	1
23.	22565	Set Screw, for upper looper thread tube assembly & upper looper drive lever shaft	1
24.	22571E	Magnetic Oil Drain Plug Screw	1
25.	90	Screw, for feed bar oil shield	1
26.	39534R	Feed Bar Oil Shield, for all Styles except 39500 CQA, CQB, CRF, CSRF	1
26A.	39534RB	Feed Bar Oil Shield, for Styles 39500 CQA, CQB, CRF, CSRF	1
27.	39501K	Cloth Plate Stud, for all Styles	1
28.	22569	Screw, for cloth plate stud	1
29.	22565F	Screw, for feed adjusting pin	1
30.	39578F	Cloth Plate Fabric Guard, for Styles 39500 QA, QB, QP, RF, RS, SE, TE, SQB, SRF	1
31.	138	Screw, for cloth plate fabric guard	2
32.	22657D-10	Screw, for cloth plate	1
33.	39501D	Cloth Plate, for all Styles except 39500 SF, CQA, CQB, CRF, CSRF	1
33A.	39501DB	Cloth Plate, for Style 39500 SF	1
-	39501E	Cloth Plate, for Style 39500 RR	1
33B.	G39501D	Cloth Plate, for Styles 39500 CQA, CQB, CRF, CSRF	1
34.	39532A	Cloth Plate Latch Spring, for all Styles except 39500 SF	1
34A.	39532E	Cloth Plate Latch Spring, for Style 39500 SF	1
35.	90	Screw, for cloth plate latch spring	2

36. thru 81. See following page



MAIN FRAME & MISCELLANEOUS COVERS

Ref. No.	Part No.	Description	Amt. Req.
1. thru 35. See preceding page			
36.	39582FE	Feed Mechanism Cover, for Styles 39500 RA, RR, SF	1
-	39582FH	Feed Mechanism Cover, for Styles 39500 CQA, CQB, CRF	1
37.	41071G	Nut, for feed mechanism cover	1
38.	86X	Screw, for feed mechanism cover	1
39.	39594H	Felt Oil Strainer	1
40.	39594G	Oil Filter Screen	1
41.	22760H	Screw, for oil filter screen and strainer	2
42.	29477MX	Upper Looper Thread Tube Assembly	1
43.	39568AN	Thread Tube	1
44.	39568AP	Collar	1
45.	1096	Screw	1
46.	22743	Set Screw	1
47.	39568J	Thread Tube Tension Spring	1
48.	22569K	Screw, for oil sight gauge	1
49.	22894AE	Screw, for lower looper driving lever shaft	1
50.	39593H	Oil Sight Gauge	1
51.	660-243	Oil Gauge Seal Ring	1
52.	39582F	Bottom Cover Extension	1
53.	22653D-4	Screw, for bottom cover extension	2
54.	39582BM	Base Plate	1
55.	22541B	Screw, for base plate	2
56.	39595	Isolator	2
57.	39582BL	Air Duct, outer	1
58.	22569D	Screw, for outer air duct	2
59.	22586T	Screw, for bottom cover	1
60.	22541B	Screw, for bottom cover	12
61.	51295B	Isolator	2
62.	39582BW	Bottom Cover	1
63.	39582BH	Gasket, for bottom cover	1
64.	39593C	Oil Gauge Float	1
65.	39593D	Oil Gauge Indicator	1
66.	666-280	Oil Tube	1
67.	RI-37	Wire Ring	1
68.	643-480BLK	Oil Tube	1
69.	660-885	Clamp	1
70.	56393G	Filter	1
71.	56393V	Spring	1
72.	22569D	Screw, for chip guard	2
73.	39593J	Elbow Fitting	1
74.	G39578T	Chip Guard, for all Styles except 39500 QB 5/32, RA, RR, RF 5/32, CRF 5/32, SQB 5/32, SRF 5/32, CSRF 5/32	1
-	G39578TB	Chip Guard, for Style 39500 RA	1
-	39578AH	Chip Guard, for Styles 39500 QB 5/32, RF 5/32, CRF 5/32, SQB 5/32, SRF 5/32, CSRF 5/32	1
-	G39578U	Chip Guard, for Style 39500 RR	1
75.	22804	Screw, for lint shield	1
76.	41358	Washer, for lint shield	1
77.	39582GJ	Lint Shield, for all Styles except 39500 RA, RR, SF	1
78.	39582GL	Side Cover, for all Styles except 39500 RA, RR, SF	1
79.	22569	Screw, for tape guide	2
80.	69H	Washer, for tape guide	2
81.	39599	Tape Guide, for Styles 39500 RA, SF 1/8	1



CRANKSHAFT MECHANISM & BUSHINGS

Ref. No.	Part No.	Description	Amt. Req.
1.	39573AA	Upper Knife Driving Arm Bushing, right	1
2.	39555R	Foot Lifter Shaft Bushing, right	1
3.	39555P	Foot Lifter Shaft Bushing, left	1
4.	39573K	Upper Knife Driving Arm Bushing, left	1
5.	39552U	Needle Driving Arm Crank Bushing, left	1
6.	666-94	Oil Wick and Spring	1
7.	39590AB	Crankshaft Bushing, left	1
8.	39590T	Crankshaft Bushing, inner left	1
9.	39544Z	Lower Looper Bar Bushing	1
10.	39552P	Needle Driving Arm Crank Bushing, right	1
11.	39521J	Pulley	1
12.	22650CD-4	Screw	2
13.	22569B	Screw, for crankshaft ball bearing retaining plate	3
14.	39590H	Crankshaft Ball Bearing Retaining Plate	1
15.	660-835	Crankshaft Ball Bearing	1
16.	39590G	Crankshaft Ball Bearing Housing	1
17.	39590J	Thrust Washer	1
18.	39591L	Crank Chamber Cooling Fan	1
19.	39591H	Crank Chamber Cooling Fan Collar	1
20.	22894D	Screw	2
21.	39590Y	Crankshaft Bearing, inner right.....	1
22.	660-443	Rubber "O" Ring	1
23.	660-764	Oil Seal	1
24.	22565F	Screw, for crankshaft bearing, inner right	1
25.	39590AC	Crankshaft Split Bearing	1
26.	97A	Screw	2
27.	29477JM	Crankshaft and Needle Driving Arm Crank Assembly, for Styles 39500 QA, QB, RS, SE, TE, CQA, CQB, SQB	1
-	29477KE	Crankshaft and Needle Driving Arm Crank Assembly, for Styles 39500 QP, RA, RF, RR, SF, CRF, SRF, CSRF	1
28.	29477MC	Needle Driving Arm Crank and Connecting Rod Assembly	1
29.	22768C	Screw, for needle driving arm connecting rod pin	1
30.	22596H	Screw, for needle driving arm crank	2
31.	22729AB	Screw, for needle driving arm connecting rod	1
32.	51-228BLK	Vent Plug	1
33.	39541A	Feed Drive Eccentric Key	1
34.	-----	Metering Pin (refer to Chart A).....	1
35.	40-46	Washer, for crankshaft	1
36.	39536FN	Nut, for crankshaft	1
37.	39594N	Oil Splasher	1
38.	22513C	Screw, for oil splasher	1
39.	39591K	Crankshaft Counterweight, left	1
40.	22747B	Screw, for crankshaft counterweights.....	6
41.	39591A	Crankshaft Counterweight, middle	1
42.	39591B	Crankshaft Counterweight, right	1

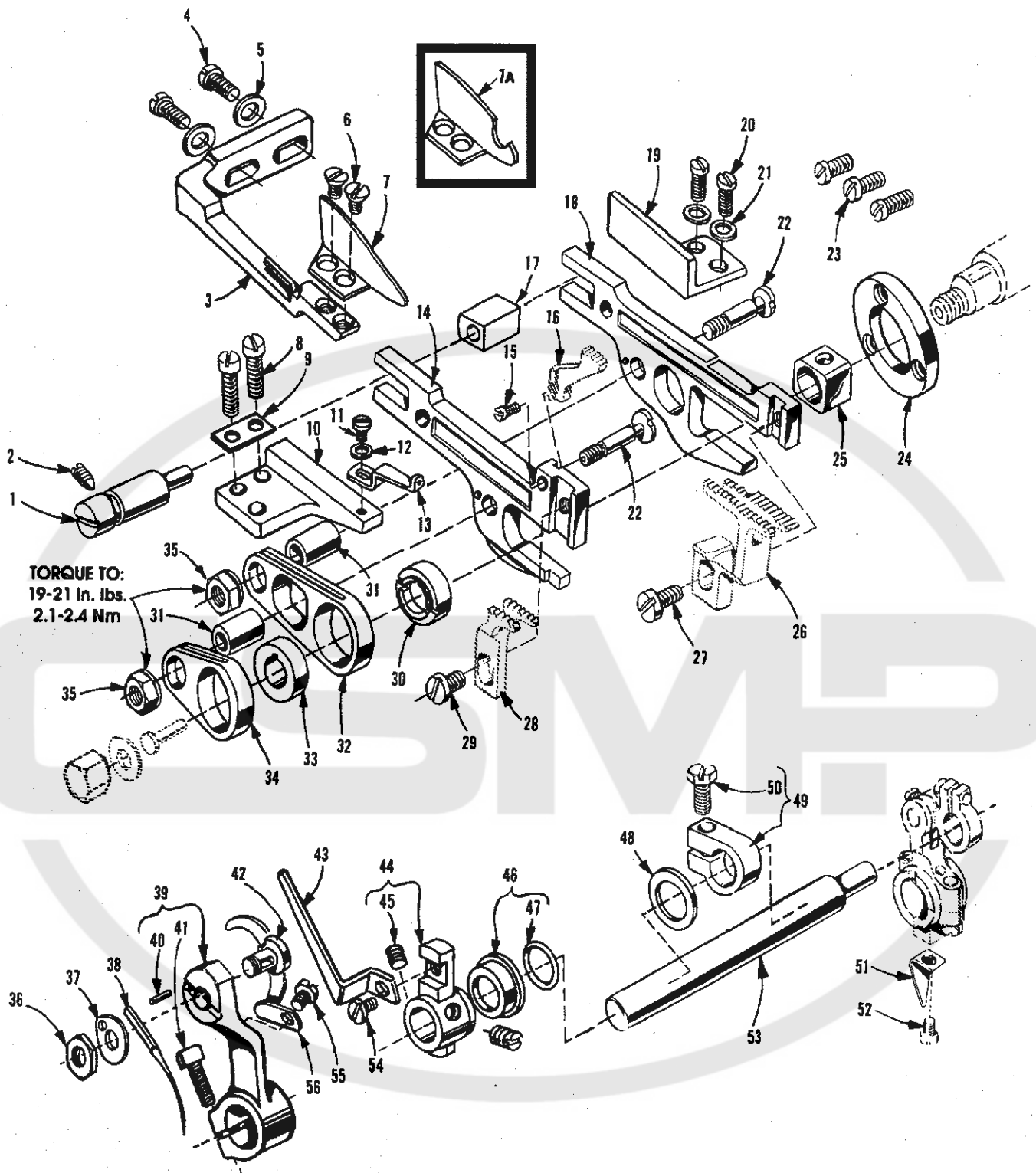
		Pin Diameter	
Part Number	Color	Inches	Millimeters
39593U123	Violet	.123	3.125
39593U1235	Brown	.1235	3.138
39593U124	Orange	.124	3.150
39593U1245	White	.1245	3.163
39593U125	Green	.125	3.175
39593U1255	Lilac	.1255	3.187
39593U126	Yellow	.1260	3.200
39593U1265	Blue	.1265	3.213
39593U127	Black	.1270	3.225
39593U1275	Pink	.1275	3.238
39593U128	Light Blue	.1280	3.251
39593U1285	Dark Yellow	.1285	3.263
39593U129	Red	.1290	3.276

Chart A

* Metering pins have been selected according to oil flow requirements. Each machine has been fitted with a pin that will provide approximately 10 to 15 milligrams of oil per minute for speeds from 7500 to 8000 RPM.

Recommended clearance between the metering pin and the crankshaft is .0005" to .001" for speeds above 7500 RPM. For speeds below 7500 RPM a .001" to .002" clearance is recommended.

Oil flow is determined by the sewing speed and machine usage. It may become desirable to either increase or decrease the amount of oil flow by changing the size of the metering pin. In most cases selecting a pin one size larger or one size smaller will provide the correct oil flow. Refer to Chart 'A'.



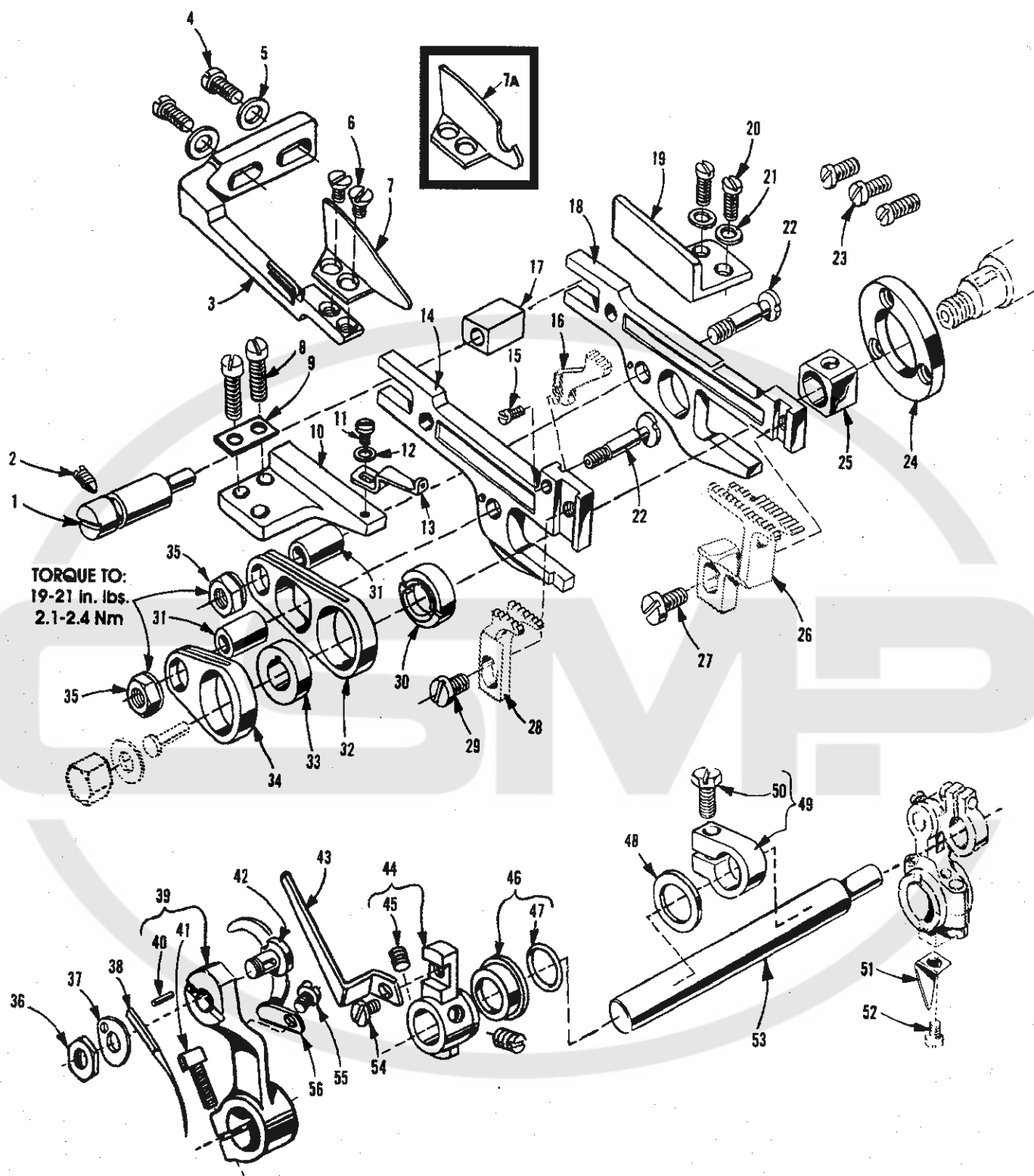
FEED MECHANISM

Ref. No.	Part No.	Description	Amt. Req.
1.	39535C	Feed Adjusting Pin	1
2.	22565F	Screw, for feed adjusting pin	1
3.	39578P	Fabric Guard Mounting Bracket, for all Styles except 39500 CQA, CQB, CRF CSRF	1
4.	22569B	Screw, for fabric guard mounting bracket	2
5.	8372A	Washer, for mounting bracket screw	2
6.	87	Screw, for 39578R fabric guard	2
-	87B	Screw, for G39578M fabric guard	2
7.	39578R	Fabric Guard, for Styles 39500 QA, QB, QP, RA, RF, RR, RS, SE, SF	1
7A.	G39578M	Fabric Guard, for Styles TE, SQB, SRF	1
8.	22541B	Screw, for main feed bar guide, left	2
9.	39835G	Plate Washer, for 22541B	1
10.	39535W	Main Feed Bar Guide, left	1
11.	87U	Screw, for lower looper eyelet	1
12.	41358	Washer, for lower looper eyelet	1
13.	39568E	Eyelet, lower looper, for Styles 39500 CQA, CQB, CRF, CSRF	1
14.	39534	Main Feed Bar, for all Styles except 39500 SF	1
-	39534C	Main Feed Bar, for Style 39500 SF	1
15.	22797A	Screw, for chaining feed dog	1
16.	-----	Chaining Feed Dog, see pages 27, 29, 31	1
17.	39535J	Feed Bar Guide Block	1
18.	39534G	Differential Feed Bar	1
19.	39535D	Differential Feed Bar Guide, right	1
20.	22541B	Screw, for differential feed bar guide, right	2
21.	8372A	Washer, for 22569B	2
22.	39536B	Feed Bar Driving Stud	2
23.	22569G	Screw, for thrust washer	3
24.	39534AF	Differential Feed Bar Thrust Washer	1
25.	39538	Feed Lift Block	1
26.	-----	Differential Feed Dog, see pages 27, 29, 31	1
27.	93A	Screw, for main feed dog	1
28.	-----	Main Feed Dog, see pages 27, 29, 31	1
29.	22528	Screw, for differential feed dog	1
30.	-----	Differential Feed Driving Eccentric (refer to Chart B)	1
31.	39536C	Feed Bar Driving Stud Bushing	2
32.	39536AE	Differential Feed Bar Driving Connection	1
33.	-----	Main Feed Driving Eccentric (refer to Chart B)	1
34.	39536AF	Main Feed Bar Driving Connection	1
35.	39536E	Nut, for feed bar driving stud	2

36. thru 56. See following page

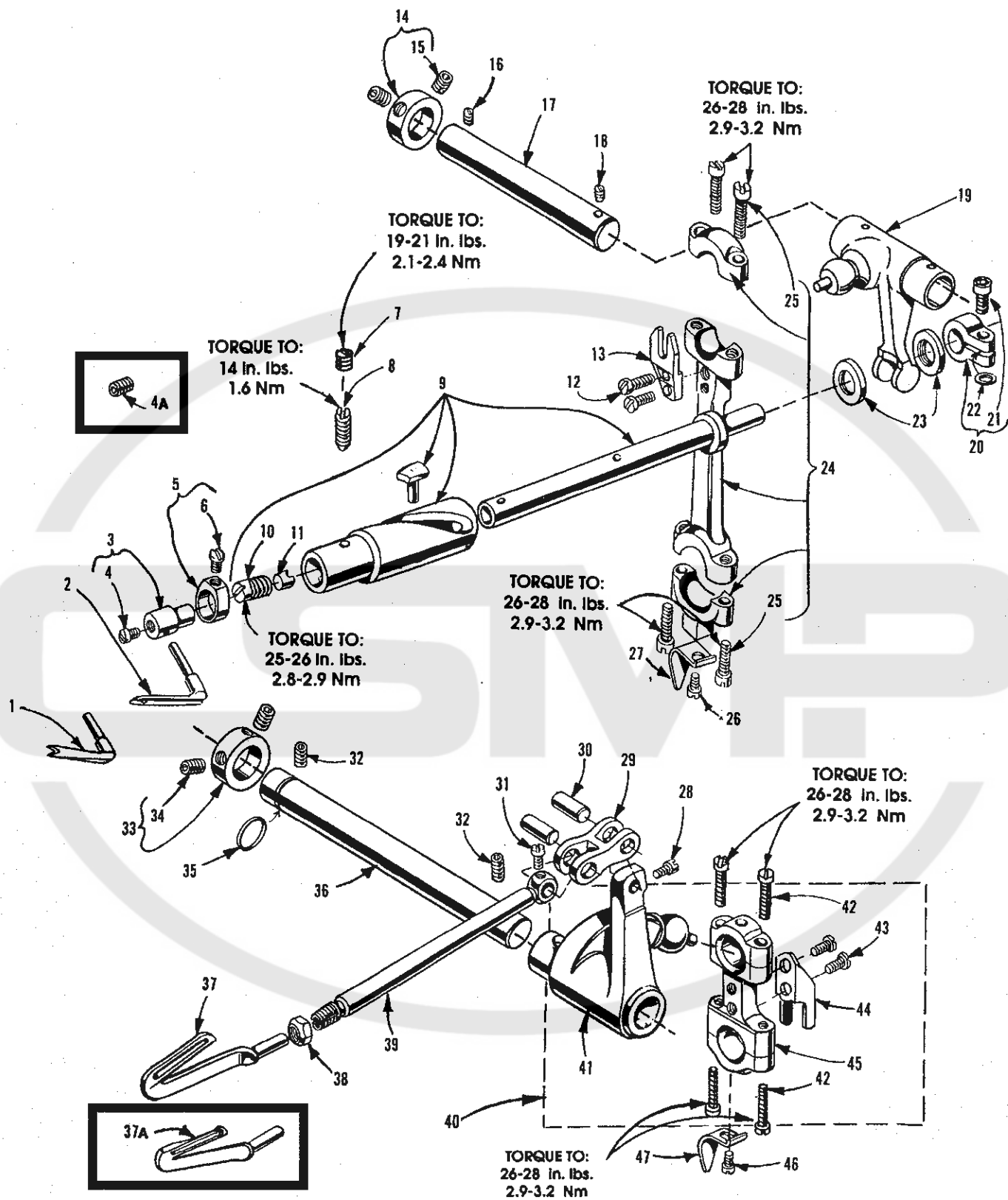
Machine Style	Reference Number 30 Differential Feed Driving Eccentric	Reference Number 33 Main Feed Driving Eccentric
39500 QA, CQA	39540 B-12	39540 B-10
39500 QB, QP, RF, TE, CQB, CRF, SQB, SRF, CSRF	39540 B-10	39540 B-12
39500 RA	39540 B-6	39540 B-10
39500 RR	39540 B-18	39540 B-20
39500 RS	39540 B-14	39540 B-14
39500 SE	39540 B-12	39540 B-9
39500 SF	39540 B-4	39540 B-10

Chart B



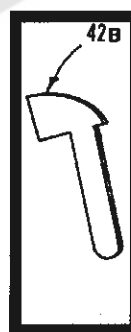
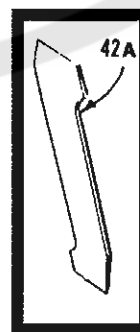
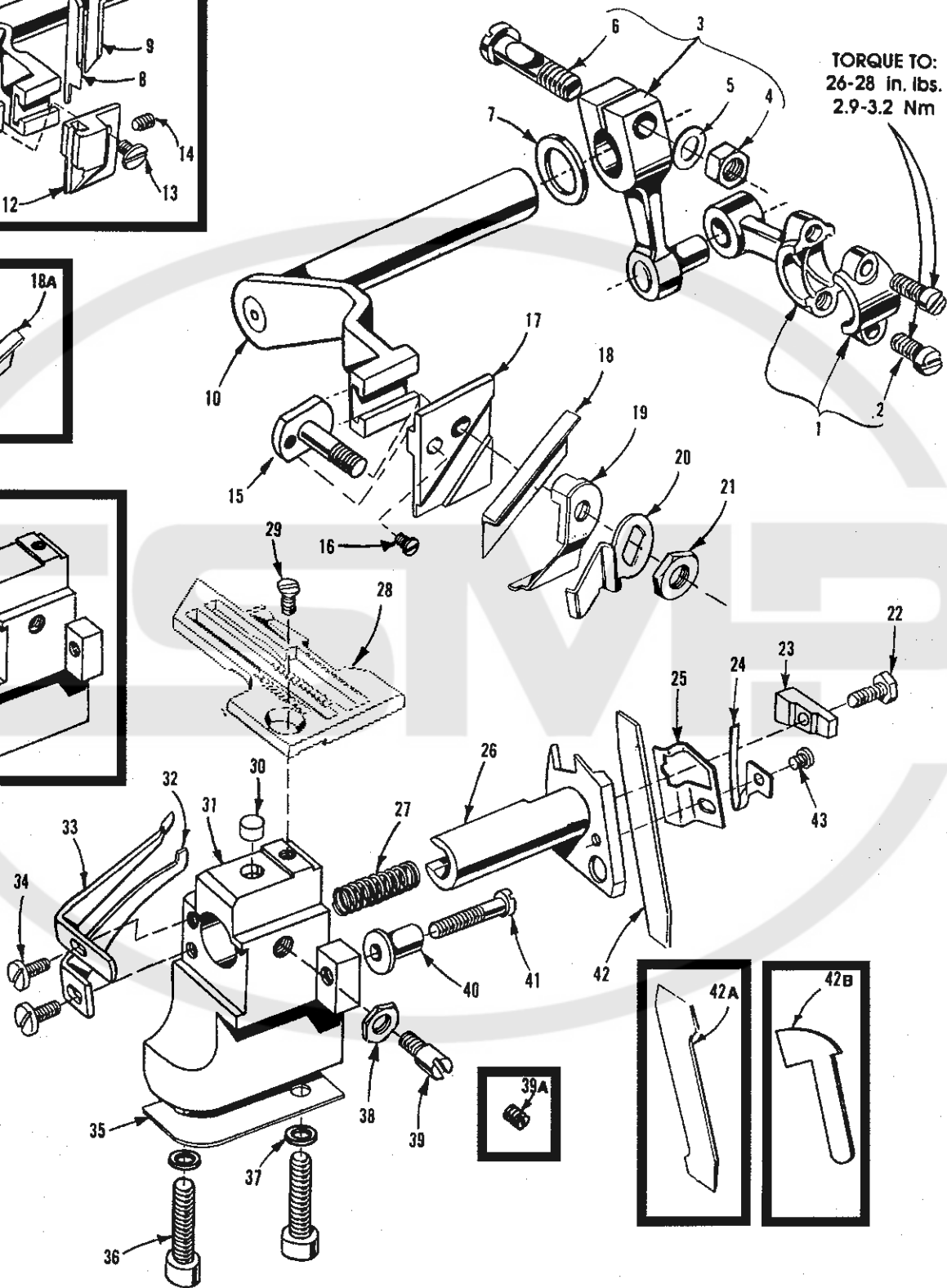
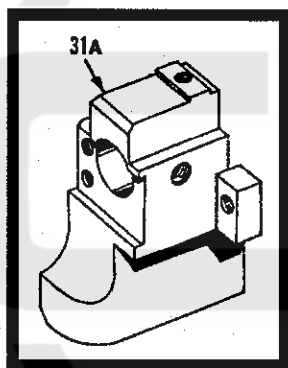
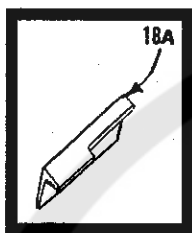
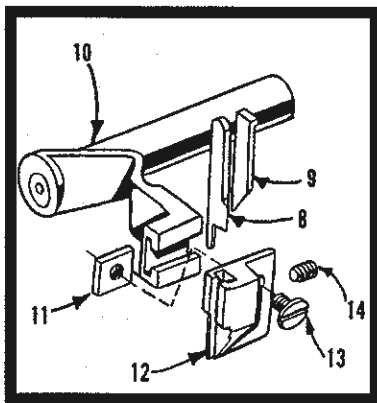
NEEDLE DRIVING PARTS

Ref. No.	Part No.	Description	Amt. Req.
1. thru 35. See preceding page			
36.	14077A	Nut, for needle clamp stud	1
37.	39551H	Needle Clamp Washer	1
38.	-----	Needle, see page 7 for the needle used on each specific Style	1
39.	39552Z	Needle Driving Arm, marked "K" for all Styles except 39500 SQB, SRF, CSRF	1
-	39552AJ	Needle Driving Arm, marked "S", for Styles 39500 SQB, SRF, CSRF	1
40.	39552AD	Stop Pin	1
41.	22596H	Screw	1
42.	39551J	Needle Clamp Stud	1
43.	39568AM	Looper Thread Pull-off	1
44.	39568AC	Looper Thread Pull-off Lever	1
45.	88B	Screw	2
46.	39552AG	Oil Seal, for needle driving shaft	1
47.	660-207	Oil Seal Ring	1
48.	C50043H-029	Washer	1
49.	39543Y	Needle Drive Shaft Thrust Collar	1
50.	22782A	Screw	1
51.	39594N	Oil Splasher	1
52.	22513C	Screw, for oil splasher	1
53.	39552R	Needle Driving Shaft	1
54.	22513D	Screw, for looper thread pull-off	1
55.	87C	Screw, for needle thread cam pull-off	1
56.	39563G	Needle Thread Cam Pull-off	1



UPPER & LOWER LOOPER DRIVING PARTS

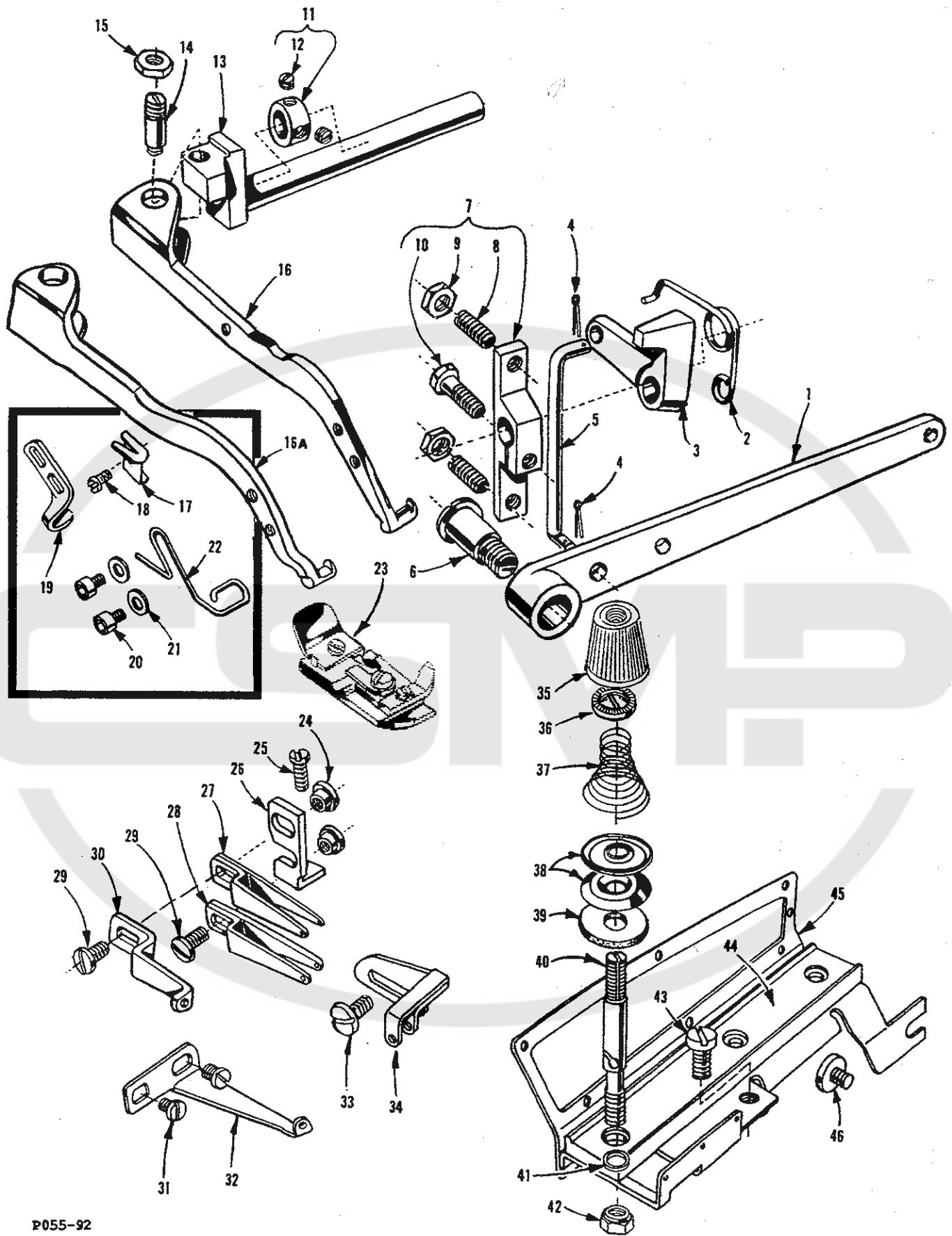
Ref. No.	Part No.	Description	Amt. Req.
1.	39560A	Upper Spreader, for Style 39500 RR (503 stitch)	1
2.	39508A	Upper Looper, for all Styles except 39500 RA, SF, TE	1
-	39508E	Upper Looper, for Styles 39500 RA, SF	1
-	G39508A	Upper Looper, for Style 39500 TE	1
3.	39543	Upper Looper Holder	1
4.	22564G	Screw	1
4A.	22894Y	Set Screw, for looper and spreader on Style 39500 RR	1
5.	39543A	Upper Looper Holder Collar	1
6.	77	Screw	1
7.	102L	Lock Screw, for 22565H	1
8.	22565H	Spot Screw, for bushing and cam guide	1
9.	29126EC	Upper Looper Drive Shaft Assembly	1
10.	22503F	Screw	1
11.	39543E	Cam Follower Locking Clamp	1
12.	97	Screw, for ball joint guide fork	2
13.	39544J	Ball Joint Guide Fork, for upper looper drive lever	1
14.	482C	Upper Looper Shaft Collar	1
15.	22894C	Set Screw	2
16.	22565	Set Screw, for upper looper rocker shaft	1
17.	39543X	Upper Looper Drive Lever Shaft	1
18.	22565S	Spot Screw, for upper looper drive lever shaft	1
19.	39543W	Upper Looper Drive Lever	1
20.	39543AT	Clamp Collar, for upper looper drive shaft	1
21.	22875M	Screw (metric)	1
22.	39543AU	Washer, for clamp collar	1
23.	39543P	Upper Looper Drive Shaft Thrust Washer	2
24.	39543AV	Upper Looper Drive Lever Connecting Rod	1
25.	22729AB	Screw	4
26.	22513C	Screw, for oil splasher	1
27.	39543N	Oil Splasher	1
28.	77	Screw, for lower looper bar connecting link pin	1
29.	39544B	Lower Looper Bar Connecting Link	1
30.	39544D	Lower Looper Bar Connecting Link Pin	2
31.	77	Screw, for lower looper bar connecting link pin	1
32.	22894AE	Set Screw, for lower looper driving shaft	2
33.	482C	Lower Looper Driving Shaft Collar	1
34.	22894C	Set Screw	2
35.	660-206	Rubber "O" Ring, for lower looper driving shaft	1
36.	39544V	Lower Looper Driving Shaft	1
37.	39508B	Lower Looper, all Styles except 39500 RA, SF	1
37A.	39508D	Lower Looper, for Styles 39500 RA, SF	1
38.	39151	Nut, for lower looper bar	1
39.	39544	Lower Looper Bar	1
40.	29126DF	Lower Looper Bar Driving Lever & Connecting Rod Assembly	1
41.	39544U	Lower Looper Bar Driving Lever	1
42.	22729AB	Screw	4
43.	97	Screw	2
44.	39544S	Ball Joint Guide Fork	1
45.	39544AA	Lower Looper Drive Lever Connecting Rod	1
46.	22513C	Screw, for oil splasher	1
47.	39594N	Oil Splasher	1



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UPPER & LOWER KNIFE PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	39573AE	Upper Knife Driving Connecting Rod	1
2.	22729AB	Screw	2
3.	39573E	Upper Knife Driving Lever	1
4.	55235E	Nut	1
5.	6042A	Washer	1
6.	55235D	Locking Stud	1
7.	39573A	Washer, for upper knife driving arm	1
8.	39270E	Upper Knife, for Style 39500 SF	1
9.	39571E	Upper Knife Clamp Bar, for Style 39500 SF	1
10.	39573H	Upper Knife Driving Arm	1
11.	39571A	Upper Knife Clamp Nut, for Style 39500 SF	1
12.	39572B	Upper Knife Holder Block, for Style 39500 SF	1
13.	22829	Screw, for upper knife holder block, Style 39500 SF	1
14.	22650CB-4	Set Screw, for upper knife, Style 39500 SF	1
15.	39571D	Upper Knife Clamp Stud, for all Styles except 39500 RR, SF	1
-	39571C	Upper Knife Clamp Stud, for Style 39500 RR	1
16.	22738	Screw, for 39571C and 39571D clamp stud	1
17.	39572	Upper Knife Holder Block, for all Styles except 39500 RR, SF	1
-	39572A	Upper Knife Holder Block, for Style 39500 RR	1
18.	39570	Upper Knife, for all Styles except 39500 RA, SF	1
18A.	39570K	Upper Knife, for Style 39500 RA	1
19.	39571F	Upper Knife Clamp, for all Styles except 39500 SF	1
20.	39571B	Upper Knife Chain Guard, for all Styles except 39500 SF	1
21.	14077	Nut, for 39571C and 39571D clamp stud	1
22.	22588J	Screw, for lower knife clamp	1
23.	39550AD	Lower Knife Clamp	1
24.	39550AE	Lower Knife Clamp Spring	1
25.	39550AC	Lower Knife Guide Plate	1
26.	39550AF	Lower Knife Holder	1
27.	39550E	Lower Knife Holder Spring	1
28.	-----	Throat Plate, see pages 27, 29, 31	1
29.	22524	Screw, for throat plate	1
30.	39880N	Rubber Bumper, for 39580A	1
31.	39580A	Throat Plate and Lower Knife Support Bracket, for all Styles except 39500 RA, RR, SF	1
31A.	39580AD	Throat Plate and Lower Support Bracket, for Styles 39500 RA, RR, SF	1
32.	39525R	Front Needle Guard, for all Styles except 39500 SF	1
-	39525L	Front Needle Guard, for Style 39500 SF	1
33.	GA39525N	Rear Needle Guard, for Styles 39500 QA, QB, QP, CQA, CQB	1
-	39525A	Rear Needle Guard, for Styles 39500 RA, RF, RR, RS, SE, SF, TE, CRF	1
-	39525P	Rear Needle Guard, for Styles 39500 SQB, SRF, CSRF	1
34.	22585A	Screw, for needle guards	2
35.	39580E	Shim, for Style 39500 SE 1/8 only	1
36.	22653B-12	Screw, for 39580A and 39580AD	2
37.	39580F	Washer, for 22653B-12	2
38.	14077	Nut, for 22892B	1
39.	22892B	Locking Screw, for lower knife holder, for all Styles except 39500 SF	1
39A.	88B	Locking Screw, for lower knife holder, for Style 39500 SF	1
40.	39550C	Lower Knife Holder Locking Stud	1
41.	22729B	Screw, for lower knife holder locking stud	1
42.	39549	Lower Knife, for all Styles except 39500 RA, SF	1
42A.	39549J	Lower Knife, for Styles 39500 RA, SF	1
42B.	39503H	Front Fabric Guide, for Style 39500 RR	1
43.	605A	Screw, for clamp spring	1

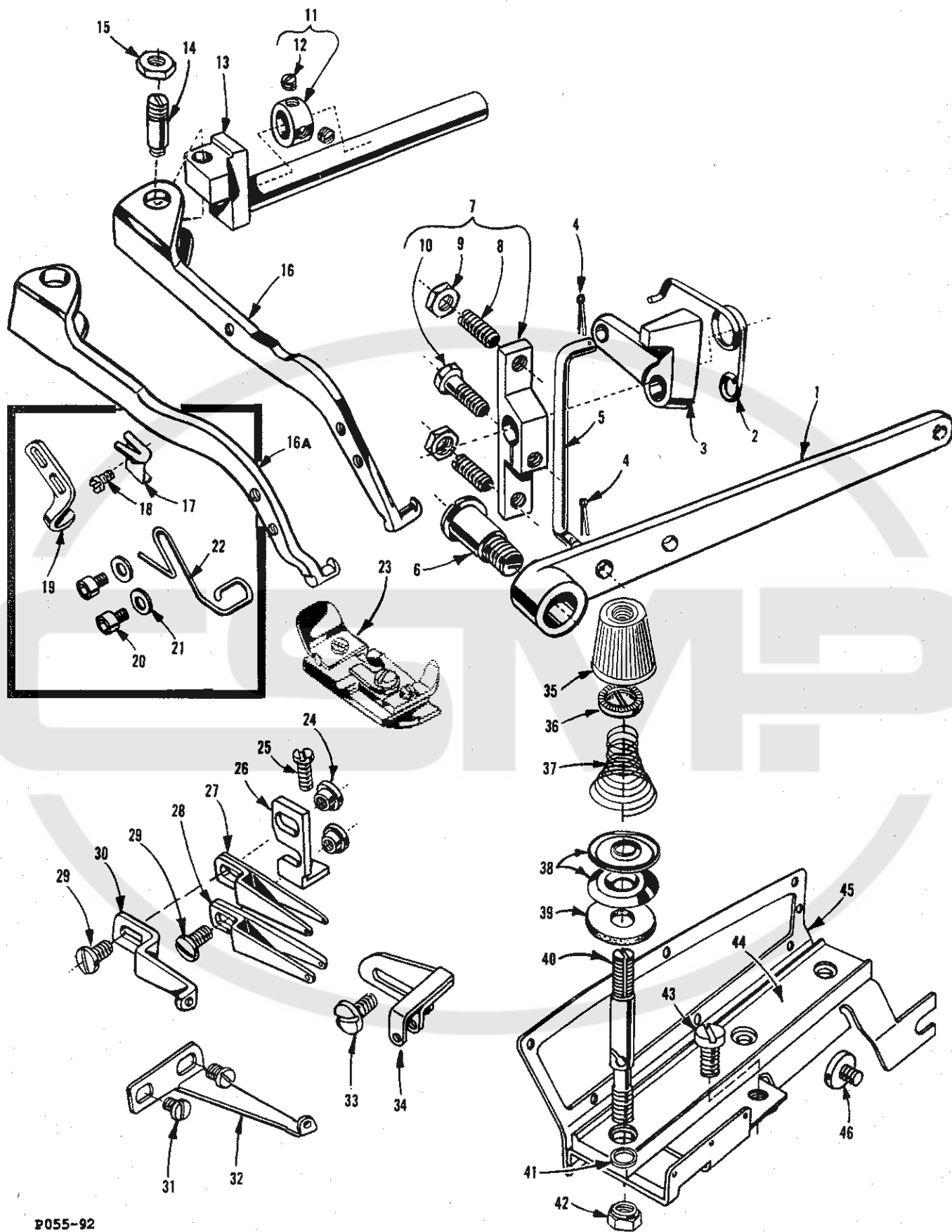


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FOOT LIFTER, CHAIN CUTTING KNIFE & MISCELLANEOUS EYELETS

Ref. No.	Part No.	Description	Amf. Req.
1.	39855	Foot Lifter Lever	1
2.	39555B	Foot Lifter Lever Spring	1
3.	39555D	Foot Lifter Intermediate Lever	1
4.	660-142	Colter Pin, for foot lifter lever connecting link	2
5.	39555F	Foot Lifter Lever Connecting Link	1
6.	22566B	Screw, for foot lifter lever	1
7.	39555C	Foot Lifter Lever Arm	1
8.	22597E	Set Screw	2
9.	12538	Lock Nut	2
10.	627	Screw	1
11.	12865	Foot Lifter Lever Shaft Thrust Collar	1
12.	88	Screw	2
13.	39555AA	Foot Lifter Lever Shaft	1
14.	22791H	Screw Pin, for presser arm	1
15.	258A	Nut, for presser arm screw pin	1
16.	39556F	Presser Arm, for all Styles except 39500 SE	1
16A.	39556J	Presser Arm, for Style 39500 SE	1
17.	39556K	Chain Cutting Knife, for Style 39500 RR	1
18.	22704	Screw, for chain cutting knife	1
19.	39556H	Presser Foot Hold Down Plate, for Style 39500 RR	1
20.	99359	Screw, for finger guard, all Styles except 39500 RR, RS	2
-	99360	Screw, for finger guard, on Styles 39500 RR, RS	2
21.	95956	Washer, for finger guard screw, all Styles	2
22.	99682L	Finger Guard	1
23.	-----	Presser Foot, see pages 27, 29, 31	1
24.	43139A	Nut, for looper thread eyelet screws	2
25.	22569B	Screw, for looper thread eyelet mounting bracket	1
26.	39568D	Looper Thread Eyelet Mounting Bracket	1
27.	39568L	Upper Looper Thread Eyelet, for all Styles except 39500 RA, SF	1
-	39568T	Upper Looper Thread Eyelet, for Styles 39500 RA, SF	1
28.	39568B	Lower Looper Thread Eyelet, for all Styles except 39500 RA, SF	1
-	39568S	Lower Looper Thread Eyelet, for Styles 39500 RA, SF	1
29.	93A	Screw, for lower, upper and auxiliary looper thread eyelets	2
30.	39568E	Auxiliary Looper Thread Eyelet, for all Styles except 39500 RA, SF	1
-	39568U	Auxiliary Looper Thread Eyelet, for Styles 39500 RA, SF	1
31.	73X	Screw, for 39568W	2
32.	39568W	CQB, CRF, CSRF	1
33.	22569D	Screw, for needle thread eyelet	1
34.	39563H	Needle Thread Eyelet, for all Styles except 39500 RA, SF	1
-	39563U	Needle Thread Eyelet, for Styles 39500 RA, SF	1

35. thru 46. See following page



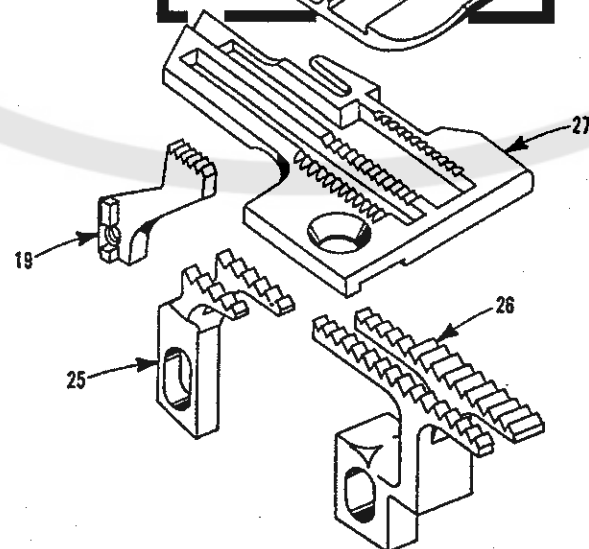
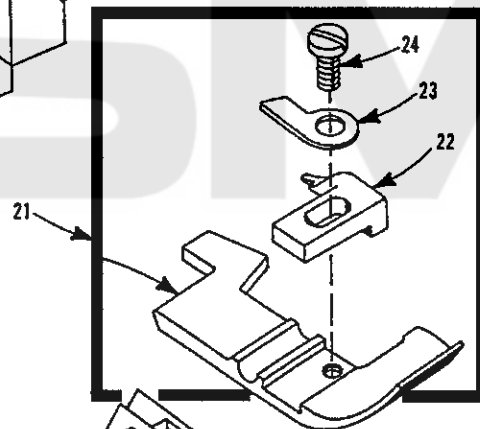
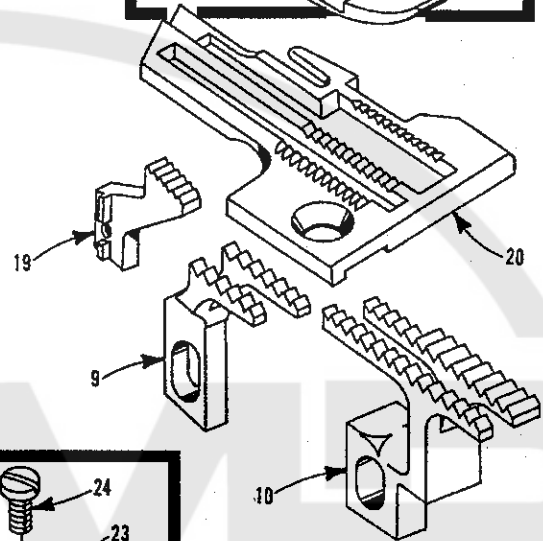
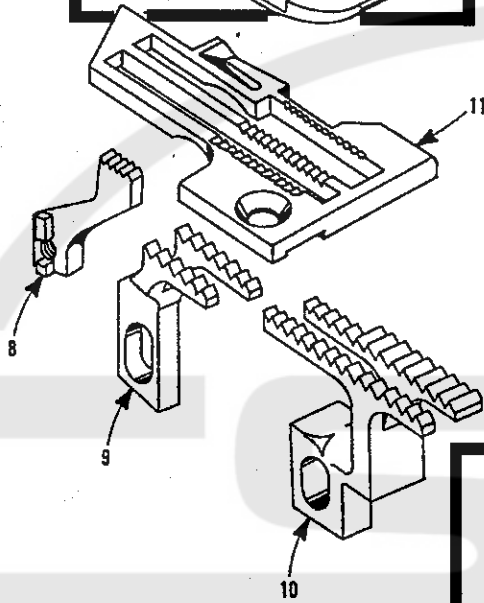
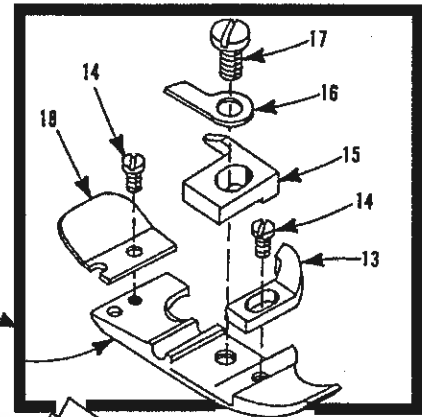
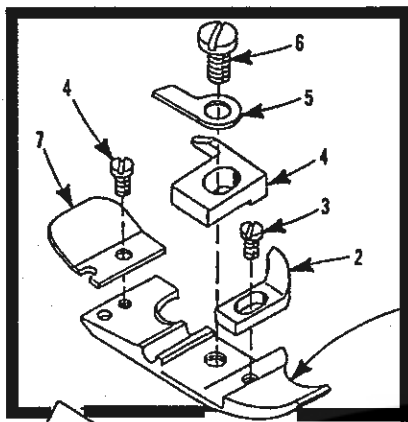
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THREAD TENSION PARTS

Ref. No.	Part No.	Description	Amt. Req.
1. thru 34. See preceding page			
35.	39592Z	Tension Nut	3
36.	39592AK	Tension Ferrule	3
37.	-----	Thread Tension Springs, (refer to Chart C)	-
38.	39592AD	Thread Tension Disc	6
39.	39592AF	Tension Disc Felt	3
40.	39592AL	Tension Post	3
41.	8372A	Washer	3
42.	39592AH	Locating Nut, for tension post	3
43.	22806A	Screw, for tension mounting bracket	1
44.	39592AM	Tension Post Bar	1
45.	39592AG-3	Tension Post Mounting Bracket	1
46.	22847B	Screw, for tension post mounting bracket	1

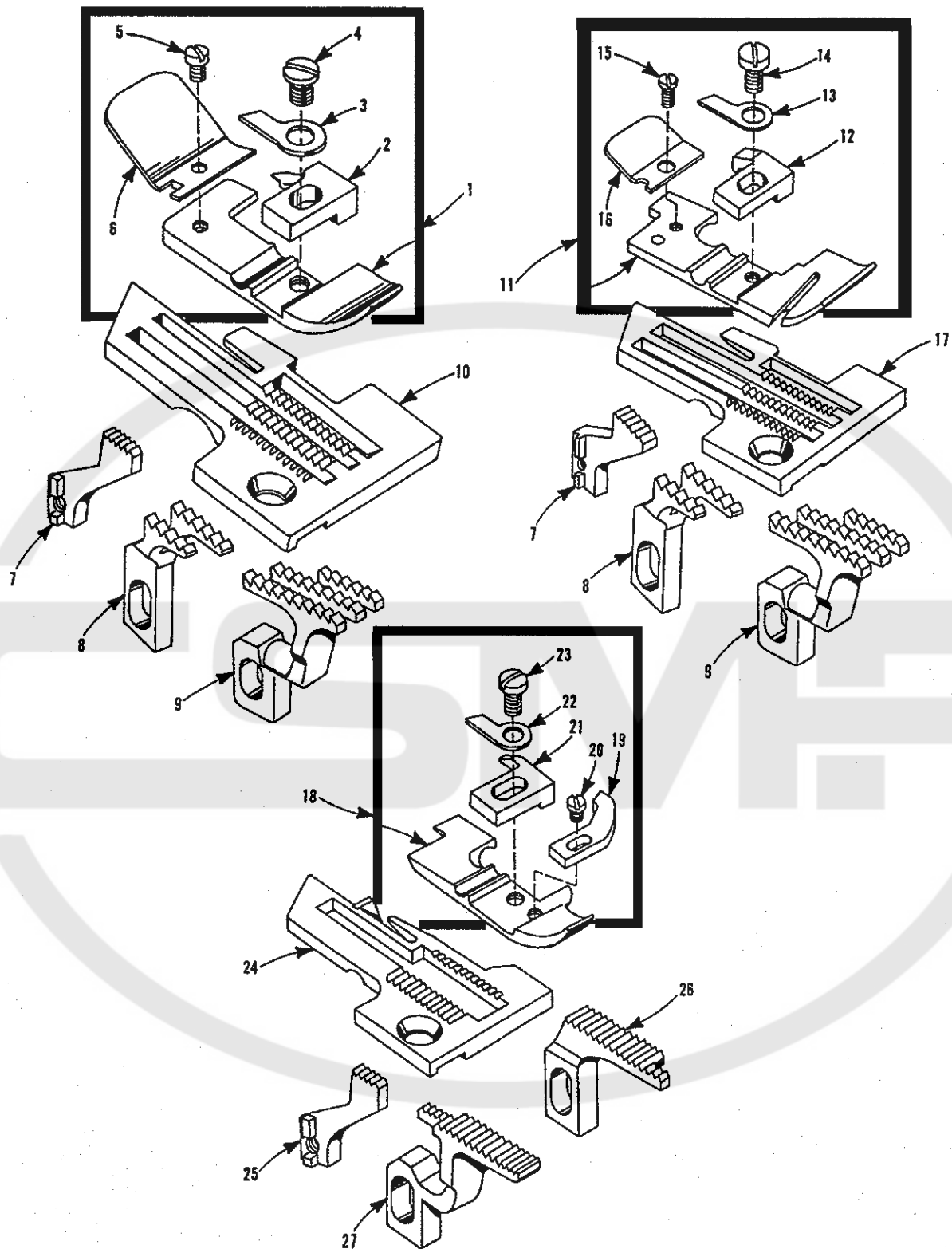
Machine Style	Upper Looper Spring	Needle Spring	Lower Looper Spring	Stitch Type
39500 QA, QB, QP, RF, SE, TE, CQA, CQB, CRF, SQB, SRF, CSRF	39592 AR-5	39592 AR-8	39592 AR-5	504
39500 RA	39592 AR-4	39592 AR-8	39592 AR-4	504
39500 RR	39592 AR-2	39592 AR-1 39592 AR-2	39592 AR-8 39592 AR-8	505 503
39500 RS	39592 AR-4	39592 AR-4	39592 AR-4	504
39500 SF	39592 AR-4	39592 AR-8	39592 AR-4	504

Chart C



FEED DOGS, THROAT PLATE & PRESSER FEET

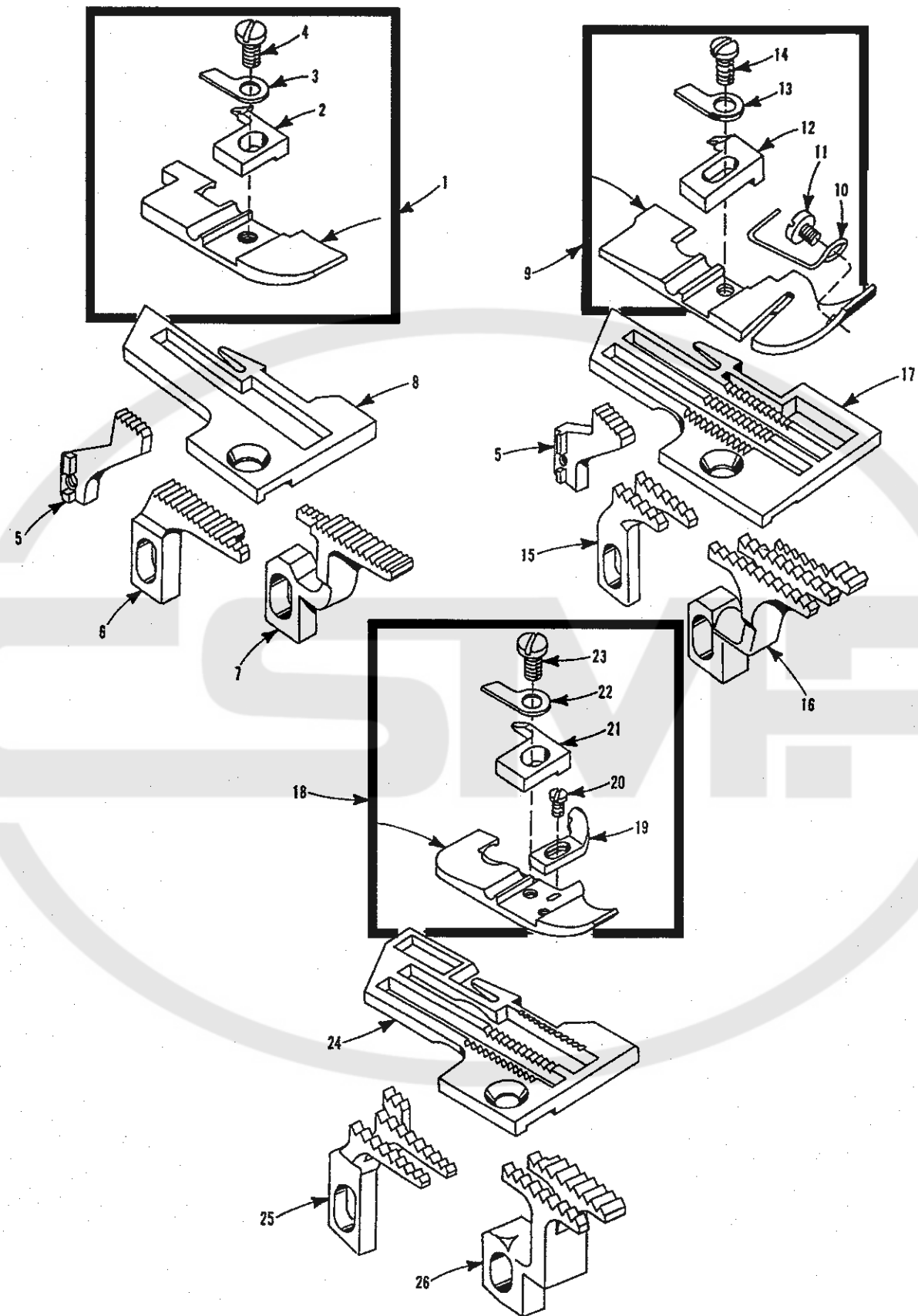
Ref. No.	Part No.	Description	Amt. Req.
1.	39520B	Presser Foot, for Styles 39500 QA, CQA	1
2.	39530P	Chip Guard	1
3.	22738B	Screw	2
4.	39597A	Stitch Tongue, marked "DS"	1
5.	39530	Spring	1
6.	22768B	Screw	1
7.	39530C	Chain Shield	1
8.	39505C	Chaining Feed Dog, marked "C", 20 t.p.i., for Styles 39500 QA, RS, CQA	1
9.	39505B	Main Feed Dog, marked "B", 16 t.p.i., for Styles 39500 QA, QB, RF, CQA, CQB, CRF, SQB, SRF, CSRF	1
10.	39526B	Differential Feed Dog, 16 t.p.i., for Styles 39500 QA, QB, RF, CQA, CQB, CRF, SQB, SRF, CSRF	1
11.	C39524C 3/32	Throat Plate, marked "FC", for 3/32" (2.38mm) wide seam on Style 39500 QA	1
-	C39524C 1/8	Throat Plate, marked "FW", for 1/8" (3.17mm) wide seam on Styles 39500 QA, CQA	1
12.	39520A	Presser Foot, for Styles 39500 QB, RF, CQB, CRF, SQB, SRF, CSRF	1
13.	39530P	Chip Guard	1
14.	22738B	Screw	2
15.	39597A	Stitch Tongue, marked "DS"	1
16.	39530	Spring	1
17.	22768B	Screw	1
18.	39530C	Chain Shield	1
19.	39505E	Chaining Feed Dog, 20 t.p.i., for all Styles except 39500 QA, RS, TE, CQA	1
20.	C39524B 3/32	Throat Plate, marked "FU" for 3/32" (2.38mm) wide seam on Styles 39500 QB, RF, SQB, SRF	1
-	C39524B 1/8	Throat Plate, marked "FB" for 1/8" (3.17mm) wide seam on Styles 39500 QB, RF, CQB, CRF, SQB, SRF, CSRF	1
-	C39524B 5/32	Throat Plate, marked "FV", for 5/32" (3.97mm) wide seam on Styles 39500 QB, RF, CRF, SQB, SRF, CSRF	1
21.	39520P	Presser Foot, for Style 39500 QP	1
22.	39597P	Stitch Tongue, marked "EA"	1
23.	39530	Spring	1
24.	22768B	Screw	1
25.	39505P	Main Feed Dog, marked "J", 12 t.p.i., for Styles 39500 QP, RA, RR	1
26.	39526P	Differential Feed Dog, 12 t.p.i., for Style 39500 QP	1
27.	C39524P	Throat Plate, marked "FE", for 1/8" (3.17mm) wide seam on Style 39500 QP	1



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FEED DOGS, THROAT PLATE & PRESSER FEET

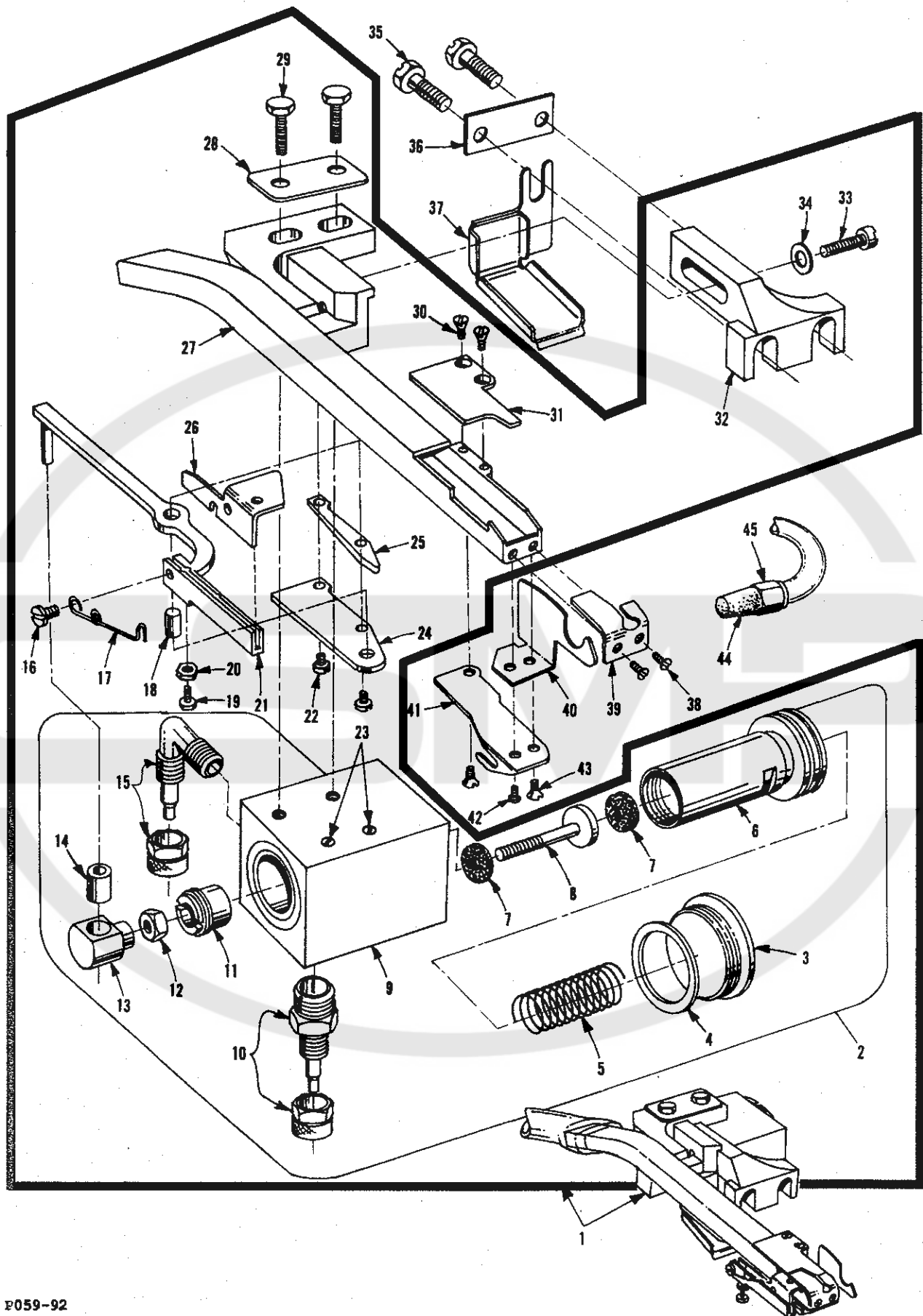
Ref. No.	Part No.	Description	Amt. Req.
1.	39520AR	Presser Foot, for Style 39500 RR	1
2.	39597AR	Stitch Tongue, marked "EN"	1
3.	39530	Spring	1
4.	22768B	Screw	1
5.	22738B	Screw	1
6.	39530H	Chain Shield	1
7.	39505E	Chaining Feed Dog, 20 t.p.i., for all Styles except 39500 QA, RS, TE, CQA	1
8.	39505P	Main Feed Dog, marked "J", 12 t.p.i., for Styles 39500 QP, RA, RR	1
9.	39526AA	Differential Feed Dog, marked "AA", 12 t.p.i., for Styles 39500 RA, RR	1
10.	39524AR 1/4	Throat Plate, marked "BC 1/4", for 1/4" (6.35mm) wide seam on Style 39500 RR ...	1
11.	39520AA	Presser Foot, for Style 39500 RA	1
12.	39597AA	Stitch Tongue, marked "EG"	1
13.	39530	Spring	1
14.	22768B	Screw	1
15.	22738B	Screw	1
16.	39530C	Chain Shield	1
17.	39524AA	Throat Plate, marked "AT", for 5/32" (3.97mm) wide seam on Style 39500 RA	1
18.	39520AS	Presser Foot, for Style 39500 RS	1
19.	39530P	Chip Guard	1
20.	22738B	Screw	1
21.	39597AS	Stitch Tongue, marked "ES"	1
22.	39530	Spring	1
23.	22768B	Screw	1
24.	C39524AS	Throat Plate, marked "LE", for 3/32" (2.38mm) wide seam on Style 39500 RS	1
25.	39505C	Chaining Feed Dog, marked "C", 20 t.p.i., for Styles 39500 QA, RS, CQA	1
26.	39505AC	Main Feed Dog, marked "AM", 22 t.p.i., for Styles 39500 RS, SE	1
27.	39526AC	Differential Feed Dog, 22 t.p.i., for Styles 39500 RS, SE	1



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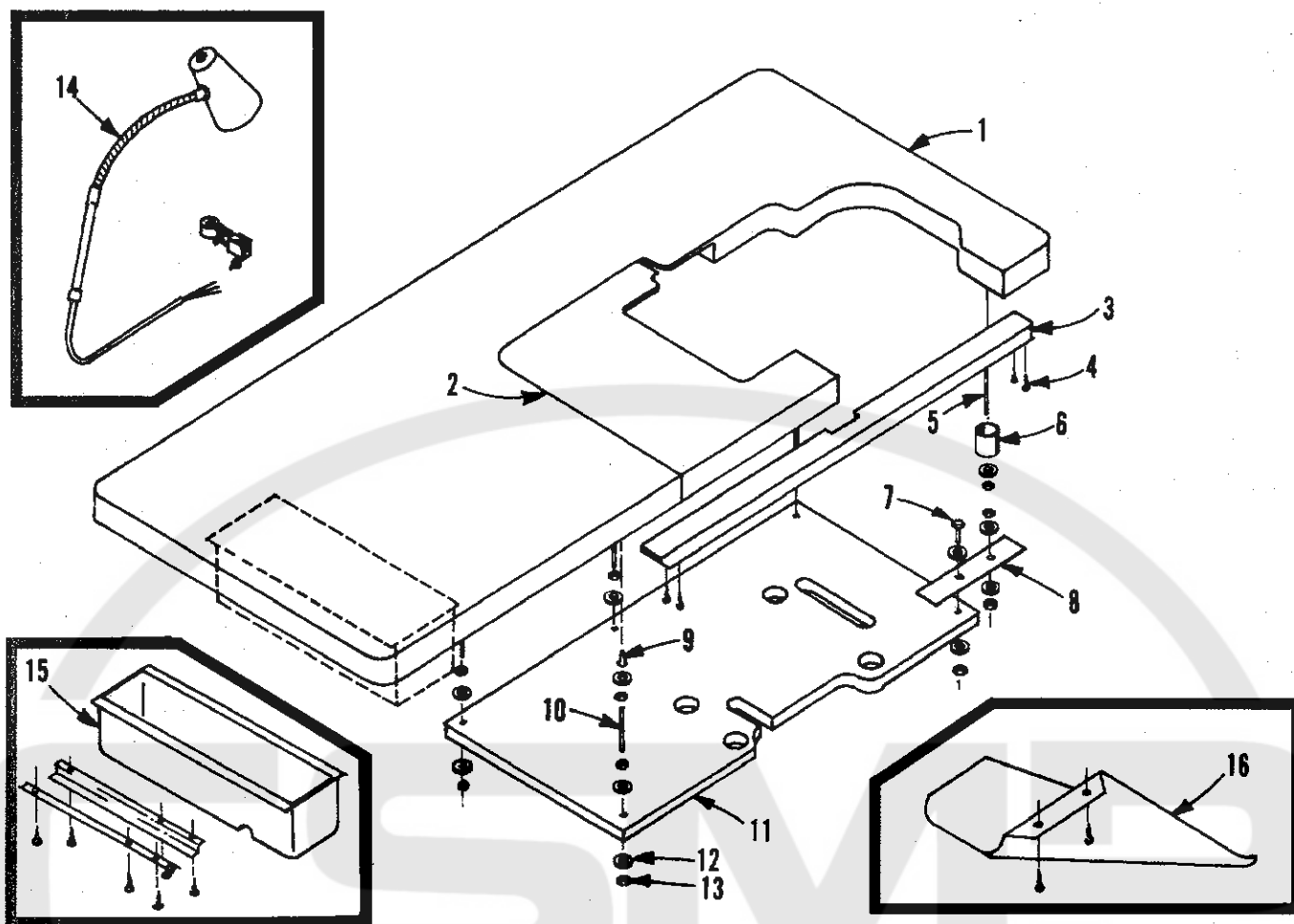
FEED DOGS, THROAT PLATE & PRESSER FEET

Ref. No.	Part No.	Description	Amt. Req.
1.	39527AD	Presser Foot, for Style 39500 SE	1
2.	39597AB	Stitch Tongue, marked "EL"	1
3.	39530	Spring	1
4.	22768B	Screw	1
5.	39505E	Chaining Feed Dog, 20 t.p.i., for all Styles except 39500 QA, RS, TE, CQA	1
6.	39505AC	Main Feed Dog, marked "AM", 22 t.p.i., for Style 39500 RS, SE	1
7.	39526AC	Differential Feed Dog, 22 t.p.i., for Styles 39500 RS, SE	1
8.	C39528AD	Throat Plate, marked "LM", for 1/8" (3.17mm) wide seam on Style 39500 SE	1
	C39524AB 1/8	Throat Plate, marked "AX", for 1/8" (3.17mm) wide seam on Style 39500 SQB	1
9.	39520BF	Presser Foot, for Style 39500 SF	1
10.	39530BF	Tape Guide	1
11.	22798B	Screw	1
12.	39597P	Stitch Tongue, marked "EA"	1
13.	39530	Spring	1
14.	22768B	Screw	1
15.	39505BF	Main Feed Dog, marked "BY", 12 t.p.i., for Style 39500 SF	1
16.	39526BF	Differential Feed Dog, marked "BZ", 12 t.p.i., for Style 39500 SF	1
17.	C39524BF	Throat Plate, marked "LF", for 1/8" (3.17mm) wide seam on Style 39500 SF	1
18.	GA39520	Presser Foot, for Style 39500 TE	1
19.	G39530A	Chip Guard	1
20.	22738B	Screw	1
21.	39597A	Stitch Tongue, marked "DS"	1
22.	39530	Spring	1
23.	22738B	Screw	1
24.	GA39524C 1/8	Throat Plate, marked "HB", for 1/8" (3.17mm) wide seam on Style 39500 TE ...	1
25.	GA39505B	Main Feed Dog, marked "JL", 16 t.p.i., for Style 39500 TE	1
26.	G39526JV	Differential Feed Dog, 16 t.p.i., for Style 39500 TE	1



POWER AIR-KLIPP® CHAIN CUTTER
(STYLES 39500 CQA, CQB, CRF, CSRF)

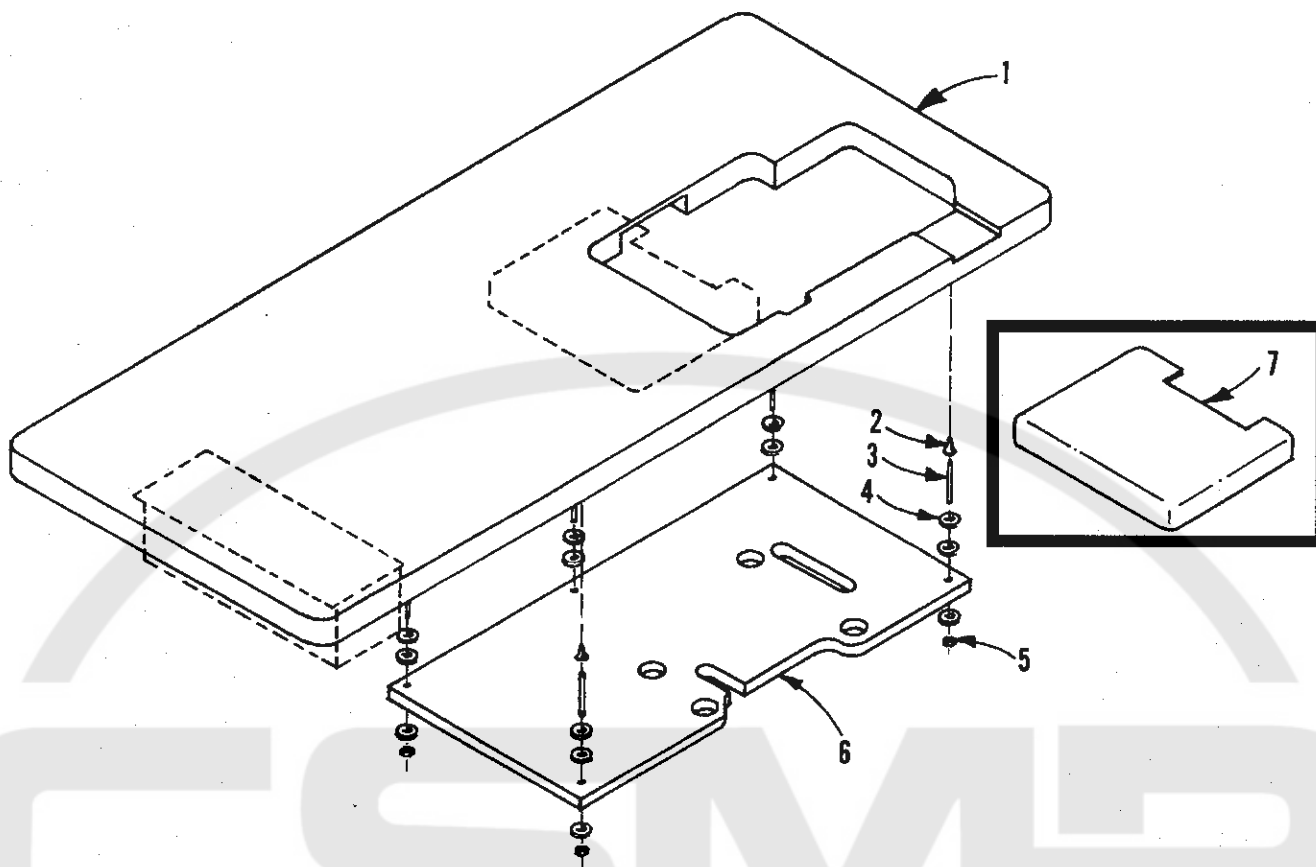
Ref. No.	Part No.	Description	Amf. Req.
1.	V29941AA	Power "AIR-KLIPP" Chain Cutter Assembly	1
2.	671H-1	Air-Motor Assembly	1
3.	671H-1D	Plug Screw	1
4.	671H-1F	Rubber Bumper	1
5.	660-753	Spring	1
6.	671H-1A	Vibrator	1
7.	671H-1H	Shock Washer	2
8.	39536DC	Stud	1
9.	671H-1B	Housing	1
10.	991-126F	Straight Fitting	1
11.	671H-1E	Plug Screw	1
12.	41071G	Nut	1
13.	39573AC	Drive Link	1
14.	671H-1G	Bushing	1
15.	999-141	Elbow Fitting	1
16.	22825	Screw	1
17.	99697DB	Torsion Spring	1
18.	39536DB	Pin	1
19.	22588K	Screw	1
20.	60078Z	Nut	1
21.	39573AB	Knife Driving Lever	1
22.	22738A	Screw	2
23.	12935A	Screw	2
24.	99663MD	Cover Plate	1
25.	99663MC	Spacer Plate	1
26.	99669KH	Lower Knife	1
27.	99676MC	Tube Assembly	1
28.	95910A	Plate Washer	1
29.	906	Screw	2
30.	22716	Screw	2
31.	99670LH	Upper Knife	1
32.	99663KA	Bracket	1
33.	22729D	Screw	1
34.	80265	Washer	1
35.	99373C	Mounting Screw	2
36.	95910B	Plate Washer	1
37.	39534RB	Oil Shield	1
38.	22716A	Screw, for inlet	2
39.	99677H	Inlet, marked "GF", has a .130" (3.3mm) opening, for Style 39500 CQA	1
-	99677HA	Inlet, marked "GS", has a .169" (4.3mm) opening, for Styles 39500 CQA, CQB, CRF, CSRF	1
-	99677HD	Inlet, marked "GV", has a .205" (5.2mm) opening, for Styles 39500 CQB, CRF, CSRF	1
40.	99665	Fabric Guard	1
41.	99664C	Looper Thread Guide	1
42.	22716A	Screw, for inlet and fabric guard	1
43.	22716	Screw, for inlet and fabric guard	2
44.	999-140	Muffler	1
45.	999-126A	Connector	1



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FULLY-SUBMERGED TABLING

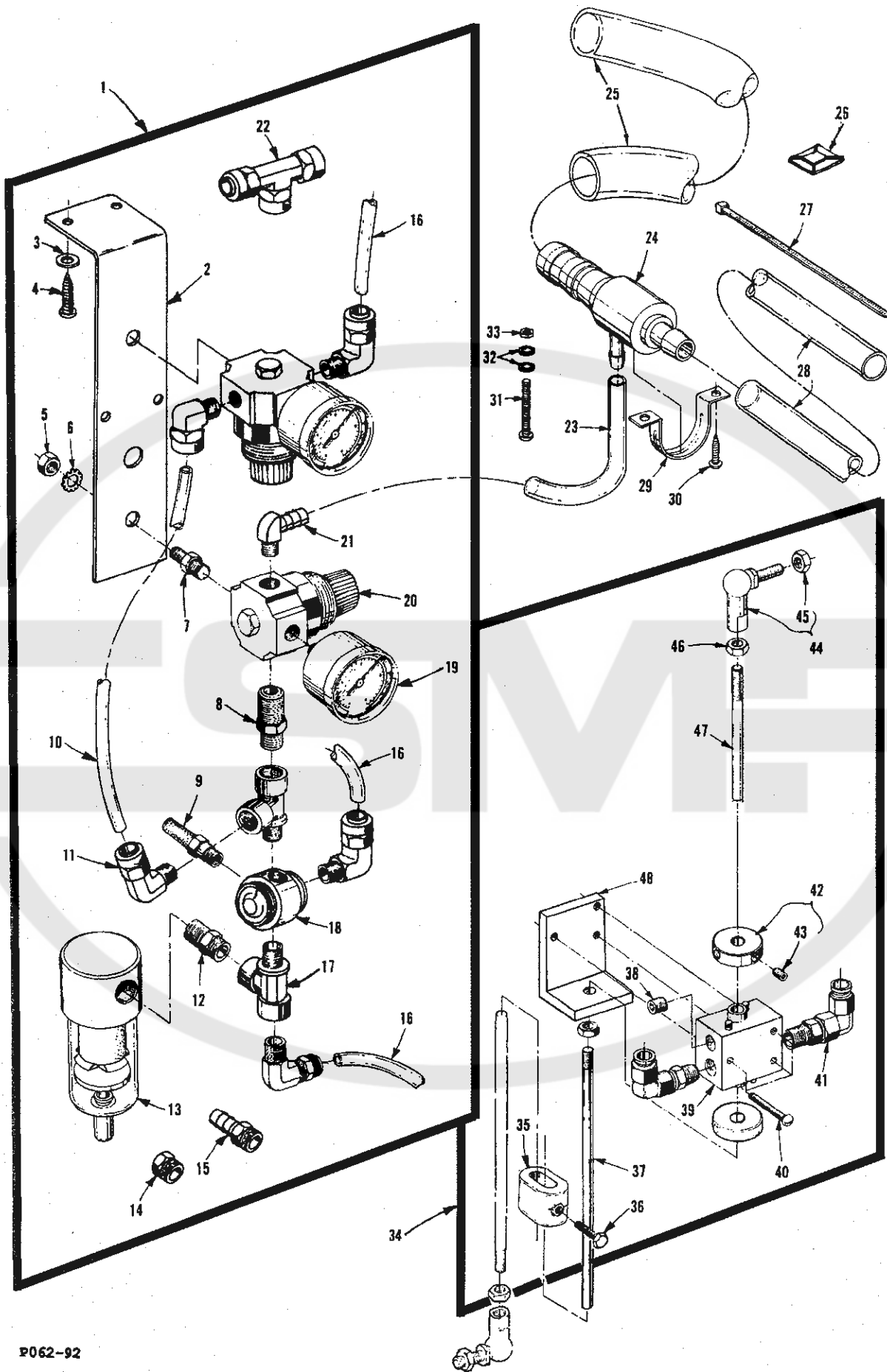
Ref. No.	Part No.	Description	Amt. Req.
1.	21371WL-48	Table Board	1
2.	30-96BLK	Insert	1
3.	30-97BLK	Table Board Brace	1
4.	SC470	Screw	4
5.	21371PY-32	Threaded Rod	1
6.	21371XW	Spacer	1
7.	22820A	Screw	1
8.	21371XY	Bracket	1
9.	660-276	Tap Lock Inserts	8
10.	21371PY-40	Threaded Rod	4
11.	21372AG	Underboard	1
12.	652 J-24	Washer	17
13.	651 B-24	Nut	16
14.	21233KH	Light	1
15.	21371Q	Drawer Assembly	1
16.	51278F	Chip Chute	1



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SEMI-SUBMERGED TABLING

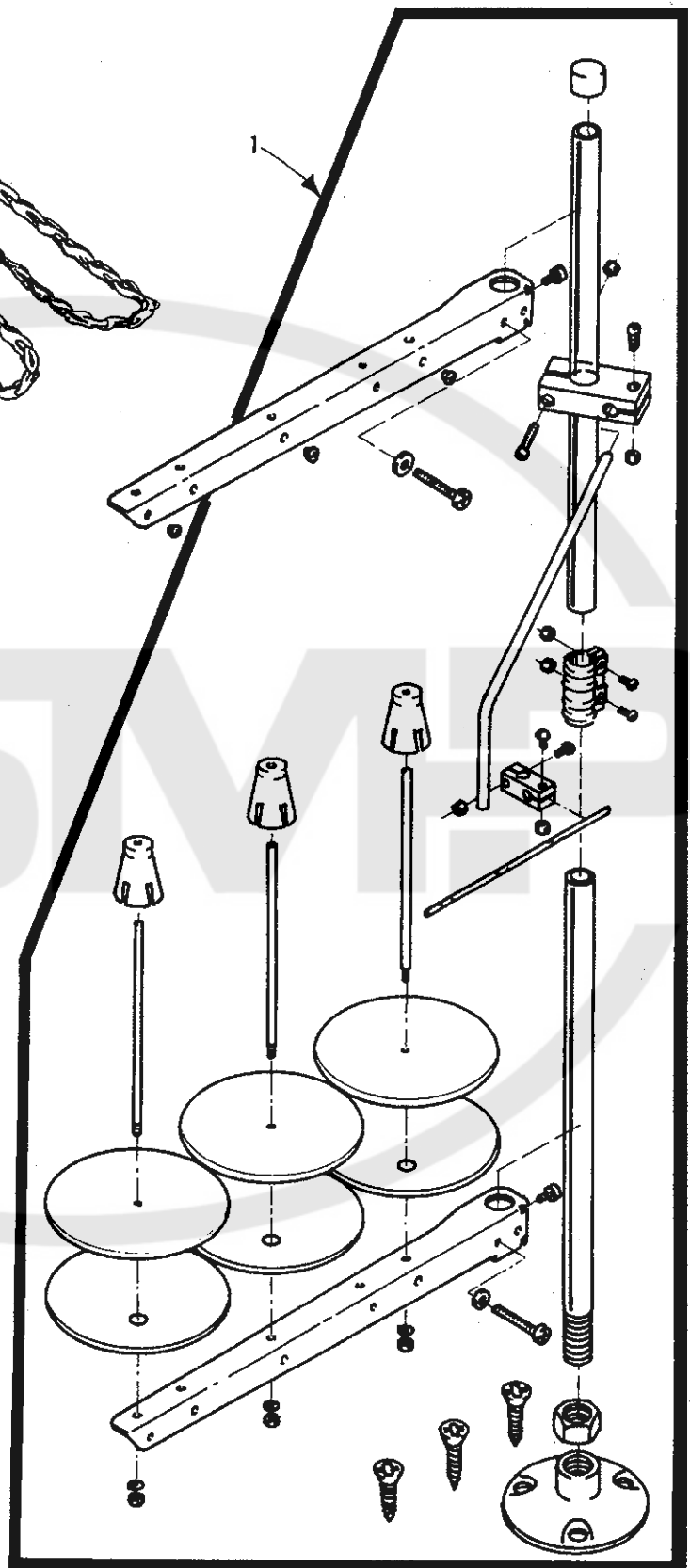
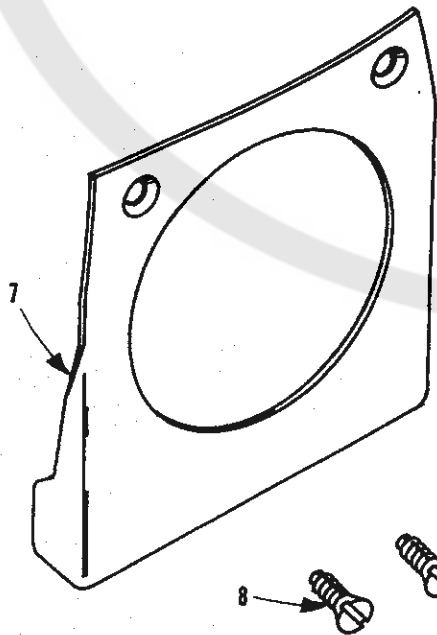
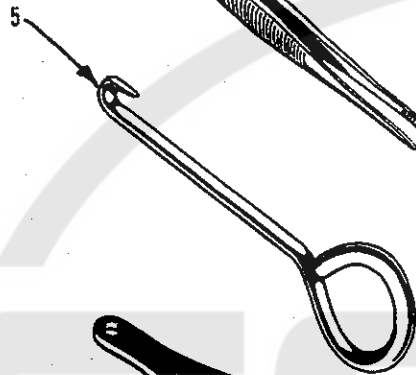
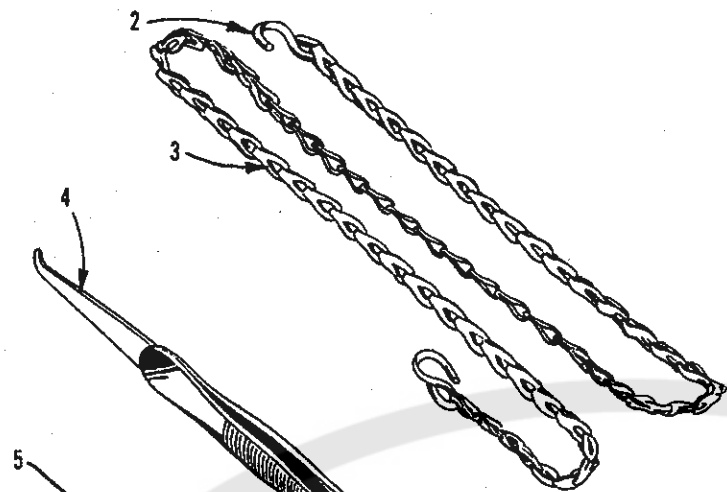
Ref. No.	Part No.	Description	Amt. Req.
1.	21371RL-48	Table Board	1
2.	660-276	Tap Lock Insert	5
3.	21371PY-28	Threaded Rod	5
4.	652J-24	Washer	15
5.	11698L	Nut	5
6.	21372AG	Underboard	1
7.	21377BP	Tray	1
-	21371Q	Drawer Assembly, (See page 34)	1
-	51278F	Chip Chute, (See page 34)	1
-	21233KH	Light, (See page 34)	1



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PNEUMATIC CONTROL

Ref. No.	Part No.	Description	Amt. Req.
1.	29480UY	Pneumatic Control	1
2.	99638CC	Mounting Bracket	1
3.	39836AH	Washer	2
4.	RM2719-1	Wood Screw	2
5.	11635B	Nut	2
6.	652B-20	Washer	2
7.	671C-16	Mounting Stud	2
8.	RM3287-2	Hex Nipple	1
9.	660-403	Muffler	1
10.	660-392	Air Tube	1
11.	660-401	Elbow	5
12.	RM3320-1	Reducing Nipple	1
13.	671D-5	Air Line Filter	1
14.	671F-6	Reducing Bushing	1
15.	671F-1	Barb Fitting	1
16.	RM2997D	Tube, 1/4" (6.35mm) O.D. 13' (3.96 meters)	1
17.	RM2850D	Pipe Tee	2
18.	RM4098-1	Pilot Valve	1
19.	671D-15	Gauge	2
20.	671D-9	Regulator	2
21.	671F-2	Connector	1
22.	RM3384-1	Union Tee	1
23.	671B-3	Tube, venturi (air supply)	1
24.	671D-2	Venturi	1
25.	671B-11	Tube, discharge	1
26.	660-870	Cable Tie Mount	4
27.	RM2871B	Wire Tie	4
28.	671B-12	Tube, suction	1
29.	998-332	Holder, venturi	1
30.	RM2719-1	Screw, for wood table	2
31.	SC198	Screw, for metal table	2
32.	39836AH	Washer, for metal table	4
33.	NU13	Nut, for metal table	2
34.	29480ACD	Treadle Valve Assembly	1
35.	G28562A	Pitman Rod Connector	1
36.	95051	Screw	1
37.	99563A-130	Pitman Rod	1
38.	22571F	Plug Screw	1
39.	671-134	Valve Body	1
40.	SC191	Screw	3
41.	671F-69	Swivel Fitting	2
42.	C50036AS	Actuating Collar	2
43.	22894R	Screw	2
44.	999-146	Link	2
45.	95250	Nut	2
46.	95250	Hex Nut	3
47.	99563A-75	Pitman Rod	1
48.	671-135	Mounting Bracket	1



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THREAD STAND & MISCELLANEOUS ACCESSORIES

Ref. No.	Part No.	Description	Amt. Req.
1.	GR-21101W3	Thread Stand	1
2.	660-264	"S" Hook, for treadle chain	2
3.	421 D-34	Treadle Chain, for presser foot lifter	1
4.	660-240	Tweezers	1
5.	21227DR	Cam Extractor	1
6.	116	Wrench, for 9/32" (7.142 mm) nuts	1
7.	21375BB	Belt Guard	1
8.	80	Screws, for belt guard	2
-	21388AU	Socket Wrench, for 3/8" (9.52 mm) nuts holding feed eccentrics (not shown)	1
-	28604R	Pint of Oil (not shown)	1
-	660-458	Dust Cover (not shown)	1
-	652-24	Washer (not shown)	8



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CSMP

NOTES





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