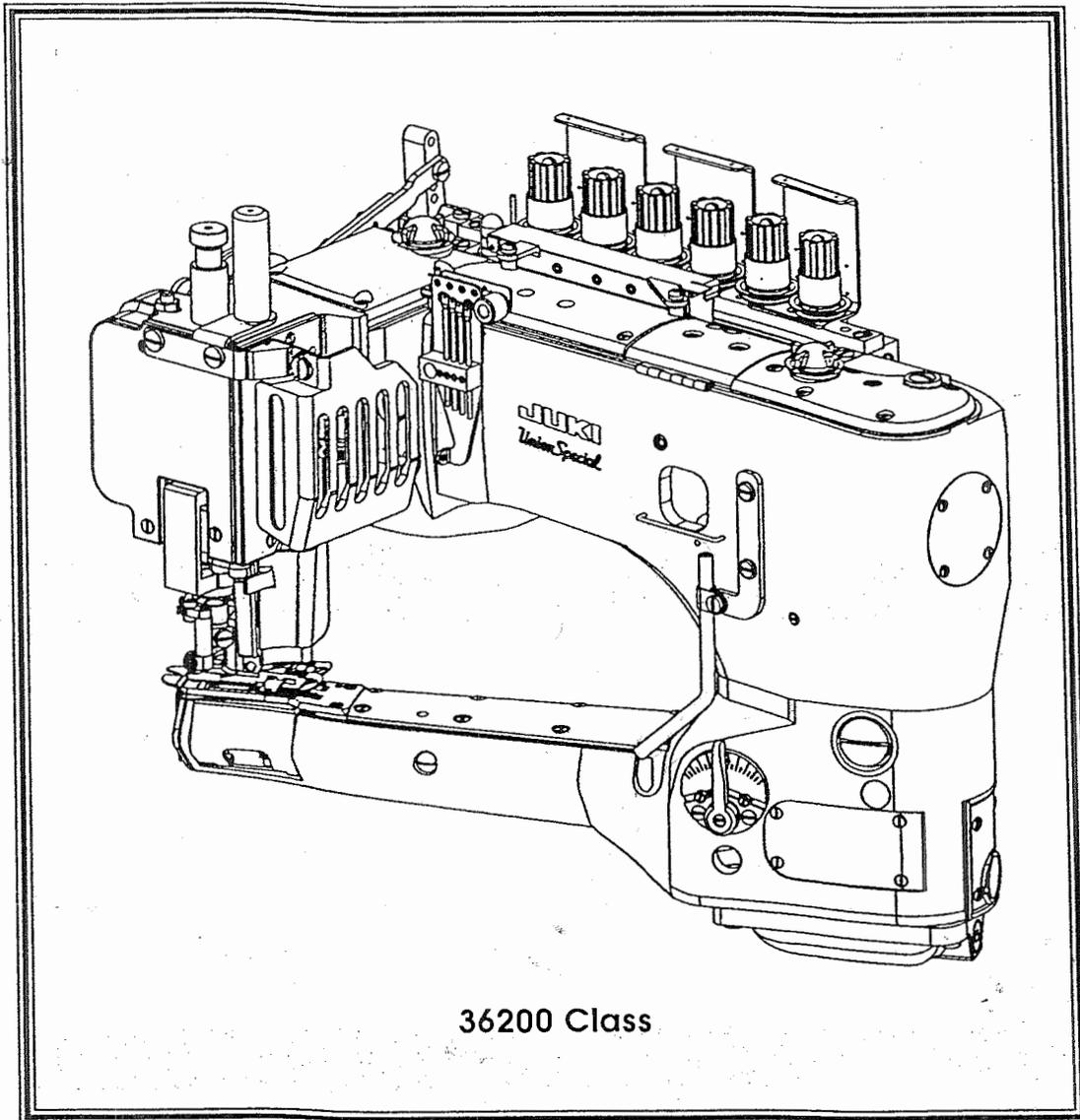




JUKI

Union Special

ADJUSTING INSTRUCTIONS / ILLUSTRATED PARTS LIST



3620 Class

MANUAL NO. PT0106
FOR STYLES

- | | | |
|------------|------------|-----------|
| 36200UA52 | 36200UH52 | 36200UX60 |
| 36200UAE52 | 36200UJ60 | 36200UY52 |
| 36200UAK52 | 36200UJE60 | 36200UY60 |
| 36200UE52 | 36200UM60 | |
| 36200UE60 | 36200UX52 | |

Manual No. PT0106 Illustrated Parts List for 36200 Series Machines

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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 36200 Series machines.

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 36200 Series machines.

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.

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IDENTIFICATION OF MACHINES

Each UNION SPECIAL machine is identified by a style number, which is stamped into the style plate affixed to the middle of the machine under the tension assembly.

The serial number is stamped in the casting at the right rear base of the machine.

TORQUE REQUIREMENTS

Torque (measured in inch-pounds) is a rotating force (in pounds applied through a distance by a lever (in inches or feet)). 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 19-21 inch-pounds (22-24cm/kg) unless otherwise noted.

All other nuts, bolts, screws, etc. should be tightened by hand as tightly as possible, unless otherwise noted.

DESCRIPTION OF MACHINES

Universal style, Feed-off-the-arm, high speed, medium throw, five or six thread machine. There are four needles and one retainer abreast, one looper and a manually adjusted differential feed control. There is an enclosed automatic lubricating system, filter type oil return pump, visual sight oil action and supply gauges. The maximum work space in front of the needles is 8 inches (203.2mm). Recommended maximum speed - 4200 R.P.M. for all Styles. Machines can be used on either table or pedestal mount.

STYLE OF MACHINES

- 36200UA52 FLATSEAMER: For simultaneously trimming right and left plies and flatseaming knit undergarments, infants clothing and similar light to medium weight materials where closing elastic is required. Seam specifications 607-FSa-1. Components produce a .205" (5.2mm) wide seam.
- 36200UAE52 FLATSEAMER AND LAP FLATSEAMER: Same as 36200UE60 except fitted with components to produce a .205" (5.2mm) wide seam.
- 36200UAK52 LAP FLATSEAMER: For trimming right ply only and lapseaming knit undergarments, infants clothing and similar light to medium weight materials where closing elastic is required. Seam specifications 607-LSa-1. Components produce a .205" (5.2mm) wide seam.
- 36200UE52 LAP FLATSEAMER: For simultaneously trimming right and left plies and lap seaming men's and woman's briefs, undergarments, sweatpants, sweatshirts, infant sleepers and similar garments. Flat sewing parts with lap seam presser foot and lapformer. Seam specifications 607LSa-1. Components produce a .205"(5.2mm) wide seam.
- 36200UE60 LAP FLATSEAMER: Same as 36200UE52 except fitted with components to produce a .236" (6.0mm) wide seam.
- 36200UH52 LAPFLATSEAMER: For simultaneously trimming right and left plies and lap seaming men's briefs shorts, and similar garments made of light to medium weight material where crossing elastic and heavy seams, such as leg bindings is necessary. The right section of the sewing parts are raised .050" (1.27mm) to assure a better lap seam. Seam specifications 607-LSa-1. Components produce a .205" (5.2mm) wide seam.
- 36200UJ60 FLATSEAMER: Same as 36200UA52 except fitted with components to produce a .236" (6.0mm) wide seam.
- 36200UE60 FLATSEAMER: For simultaneously trimming right and left plies and flatseaming knit undergarments, infants clothing and similar light to medium weight materials where closing elastic is required. Seam specifications 607-FSa-1.
LAP FLATSEAMER: For simultaneously trimming right and left plies and lap seaming men's briefs shorts, and similar garments made of light to medium weight material where crossing elastic and heavy seams, such as leg bindings is necessary. Seam specifications 607-LSa-1. (Machine includes sewing parts to sew both FSa-1 Flat (butt) seam and LSa-1 Lap seam.) Components produce a .236" (6.0mm) wide seam.
- 36200UM60 LAP FLATSEAMER: Same as 36200UH52 except fitted with components to produce a .236" (6mm) wide seam.
- 36200UX52 TAPSEAMER: Simultaneously trims right and left plies, joins and tapes the front of knit briefs in one operation. Fitted with a taping foot without coverthread that has the tape slot in front of the needle hole and folder that takes a 3/4" (19.0mm) knitted strip, cut with the wale, to produce a 7/16" (11.1mm) wide finished tape. Seam specifications 607(mod)-LSz-1(mod). Seam width is .205" (5.2mm).
- 36200UX60 TAPE SEAMER: Same as 36200UX52 except fitted with components to produce a .236" (6.0mm) wide seam.
- 36200UY52 LAPFLATSEAMER: For simultaneously trimming right and left plies and lapseaming operations on the leg openings of knitted boxer style briefs using wide knitted callerette material. Flat sewing parts with special lap seam presser foot and special lap former. Fitted with special thread bracket, long feed dogs, "T" shaped yielding section with light weight spring, light presser bar spring and wear plates on presser foot. Seam specifications 607LSa-1. Components produce a .205(5.2mm) wide seam.
- 36200UY60 LAP FLATSEAMER: Same as 36200UY52 except fitted with components to produce a .236" (6.0mm) wide seam.

SAFETY RULES:

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 instructions from the motor supplier.

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

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. Wear safety glasses.
6. In case of machine conversions and changes all valid safety rules must be considered. Conversions and changes are made at your own risk.
7. The warning hints in the instructions are marked with one of these two symbols:



8. When doing 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:
 - 8.1 When threading needle(s), looper, spreader etc.
 - 8.2 When replacing any parts such as needle(s), presser foot, throat plate, looper, spreader, feed dog, needle guard, folder, fabric guide etc.
 - 8.3 When leaving the workplace and when the workplace is unattended.
 - 8.4 When doing maintenance work.
 - 8.5 When using clutch motors without actuation lock, wait until the motor is stopped totally.
9. Maintenance, repair and conversion work (see item 8) must be done only by trained technicians or special skilled personnel under consideration of the instructions.
10. Any work on the electrical equipment must be done by an electrician or under direction and supervision of special skilled personnel.
11. Work on parts and equipment under electrical power is not permitted. Permissible exceptions are described in the applicable sections of standard sheet DIN VDE 0105.
12. 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 (i.e. pneumatic equipment with air tank), the pressure has to be removed by bleeding.

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 following text.

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 previous 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>
118GAS	Extra short, double groove, struck groove, .060" diameter shank, chromium plated needle. Sizes available 065/025, 070/027, 075/029, 080/032, 090/036.
118GBS	Extra short, single groove, struck groove, spotted .060" diameter shank, chromium plated needle. Sizes available 075/029, 080/032.
118GHS	Same as 118GBS, except with ball point. Sizes available 070/027, 075/029, 080/032.
118GJS	Same as 118GHS, except with tapered blade and ball point. Sizes available 065/025, 070/027, 075/029.
118GKS	Round shank, round point, extra short, double groove, struck groove, spotted, chromium plated needle. Sizes available 070/027, 075/029, 080/032.
36211	Retainer needle, no scarf, chromium plated. Sizes available 065/025, 070/027, 075/029.

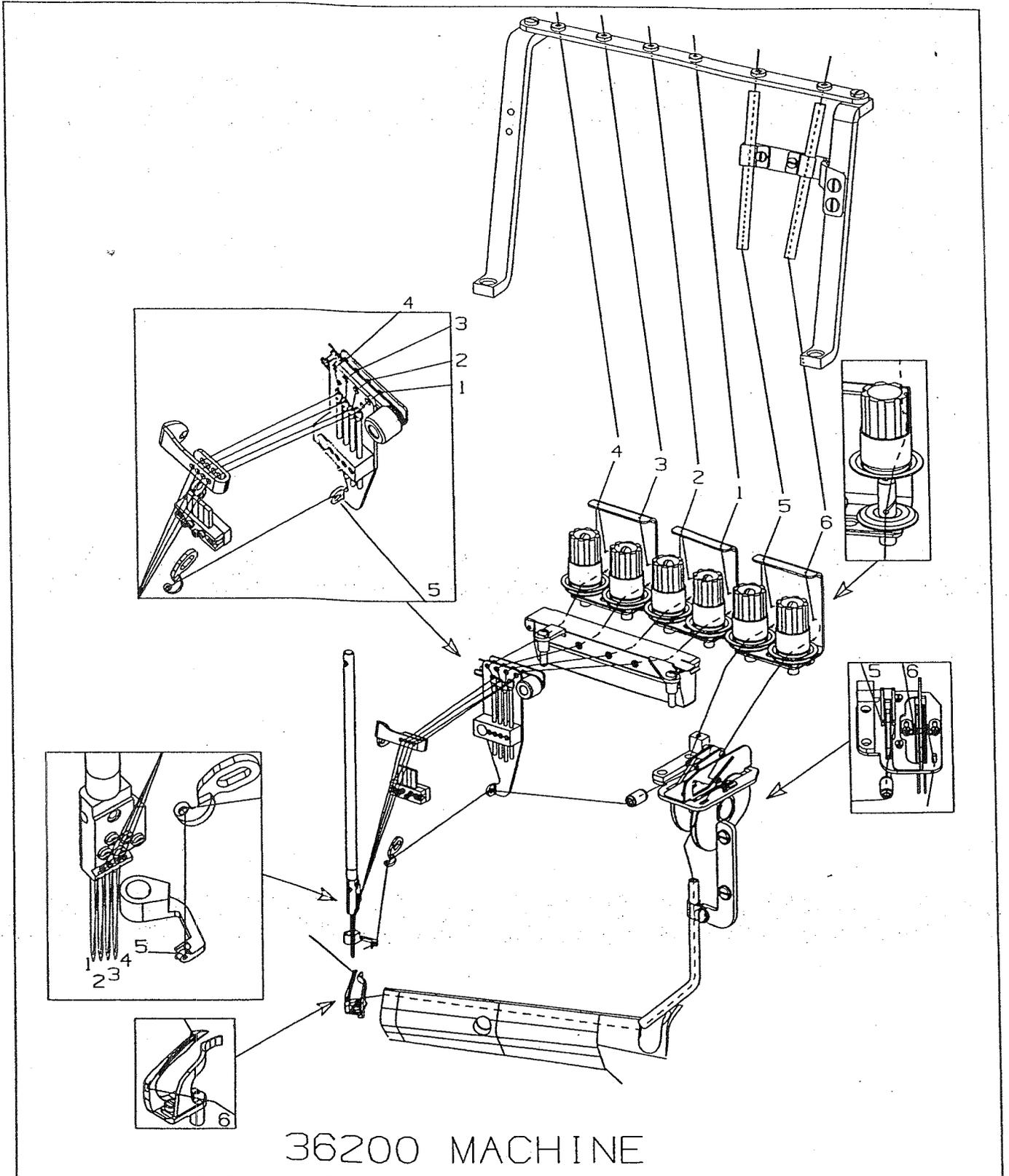
APPLICATION

118GKS	075/029	Recommended for Styles: 36200UA52, UAE52, UE52, UE60, UH52, UJ60, UJE60, UM60, UY52, UY60.
118GKS	080/032	Recommended for Styles: 36200UX52, UX60.
118GAS	065/025	Recommended for Style: 36200UAK52.

When changing the needle, make sure it is fully inserted in the needle driving arm before the clamp screw 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 118 GKS, size 075/029".

THREADING



OILING

Referring to Fig. 1, fill the machine at (A) and (B). Oil capacity of class 36200 is 2.5 ounces in the bottom reservoir and 2.5 ounces in the top reservoir. Use a straight mineral oil, Saybolt viscosity of 90 to 125 seconds at 100° Fahrenheit. The oil level is checked at gauges (C) and (D). Maintain oil level between the red lines of these gauges.

This machine is automatically lubricated by a continuously driven rotary pump. Oil flow can be observed through windows (A) and (B). When installing a new machine or starting a machine that has been idle for some time, priming may be necessary. Remove plug screws (E), fill holes with recommended oil and replace screws BEFORE operating. If oil does not flow while machine is running, pump is inoperative.

Remove screw 22733B (F, Fig. 1 inset) to drain oil from the top reservoir. To drain oil from bottom reservoir remove screw 999-196 (G).

Occasionally, it is necessary to oil the linkage of the presser foot, the knife holder shank (36273A), guide collar (36273K) and the various links and bearings of the presser foot lifting mechanism and thread tension release.

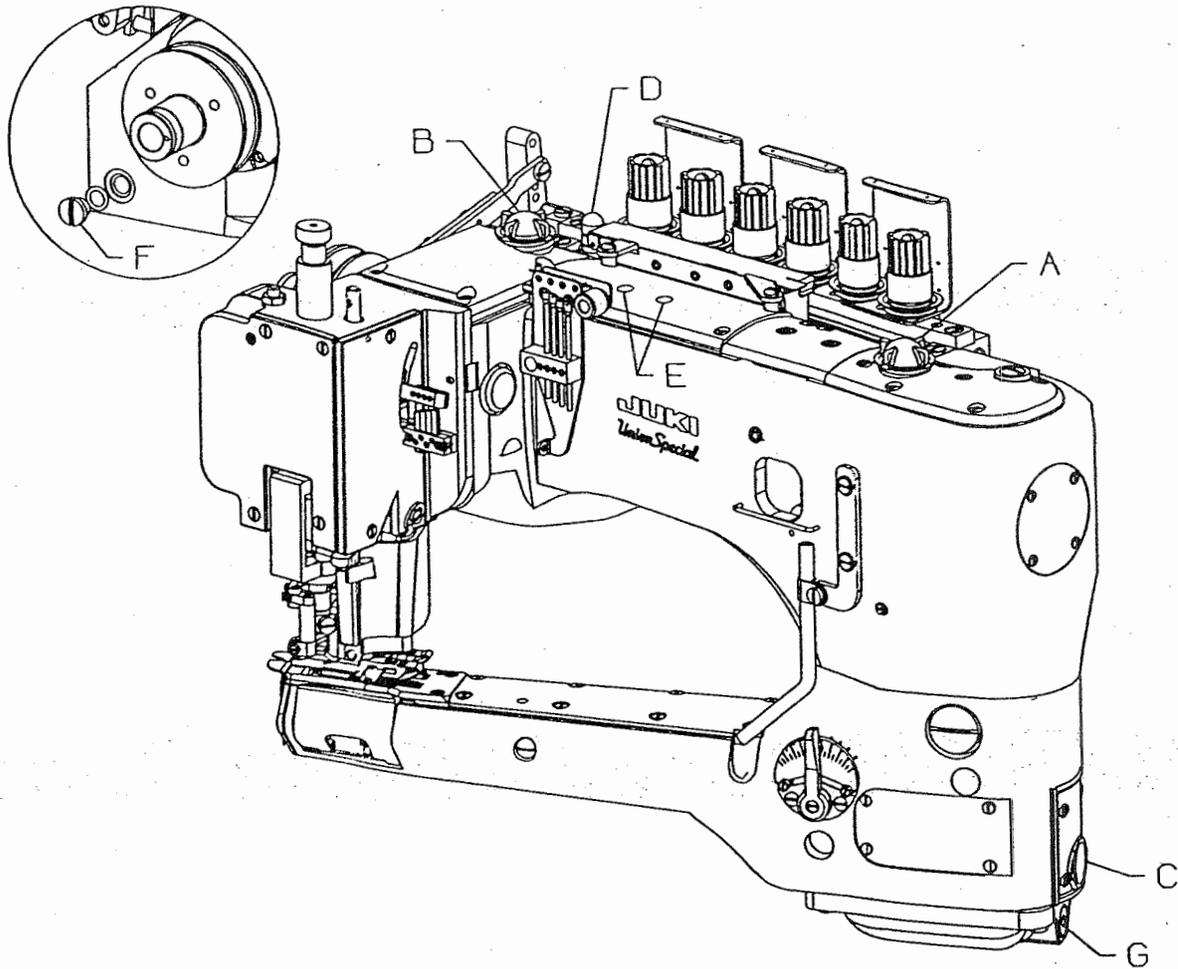
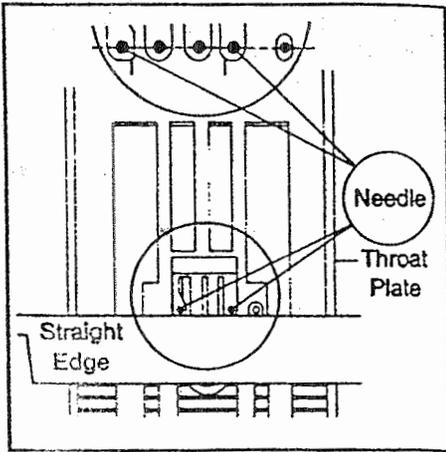


FIG. 1

ADJUSTING INSTRUCTIONS

Instructions stating direction or location, such as right, left, front or rear of the machine are given relative to the operator's position at the machine unless otherwise noted. The handwheel rotates clockwise in operating direction.

SETTING THE NEEDLE BAR HEIGHT & ALIGNMENT



Insert the first (left) and fourth (right) needles into the needle head. The needles for this Class of machine are made with two flats on the front of the shank. This will enable you to correctly position the needles in the needle head. Make certain the needle shank is fully inserted and that the screw is seated firmly on the flat.

To position the needle head square with the throat plate, use the upper knife or a straight edge to align the needles with the cross grooves in the throat plate. (See Fig. 2)

Refer to table 1 for the dimension from the fourth (lowest) needle to the surface of the throat plate and for the number of the needle bar height gauge.

FIG. 2

STYLE	DIMENSION FROM 4TH (LOWEST) NEEDLE TO THROAT PLATE SURFACE	NEEDLE BAR HEIGHT GAUGE NUMBER	NEEDLE HEIGHT GAUGE STEP MARKED
UA52, UAE52, UE52, UAK52, UH52, UX52, UY52	17/32" (13.5MM)	21227BU	.531
UE60, UJ60, UJE60, UM60, UX60, UY60	1/2" (12.7MM)	21227DS	.500

Position the needle bar at its highest point of travel. Loosen needle bar clamp screw (A, FIG.3) & use the specified needle bar height gauge (B) to achieve the desired height dimension from the fourth (lowest) needle (C) to the throat plate surface (D). Tighten clamp screw (A) and recheck setting. Care must be taken not to disturb the needle head alignment while making the adjustment. Add the two middle needles and the retainer.

TABLE 1

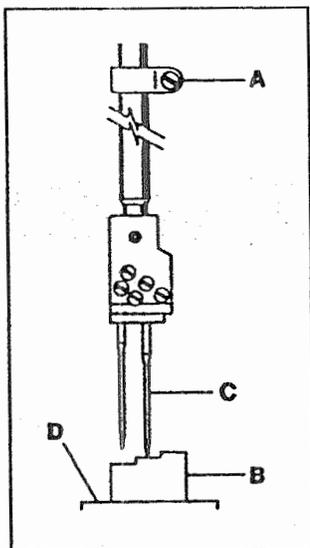


FIG. 3

NOTE: Styles 36200UH52 and 36200UM60 have a .050" (1.3mm) step on the right side of the throat plate. When setting the needle height measure from the left side or lowest part of the stepped plate.

CAUTION: If the needle head has been replaced it must be torqued to 17 in. lbs. (20cm/kg). Or until torque bar (21227AR), inserted into cross hole in the needle bar, bends. It will not seat against the bottom of the needle bar. After tightening, check for expansion of the needle bar by positioning it up into the lower bushing hole. If the bar has expanded it will bind in the bushing. The bar must be replaced or lapped to reduce the bell shape. Align and set needle bar height as described above.

SETTING THE NEEDLE BAR HEIGHT & ALIGNMENT (CONT)

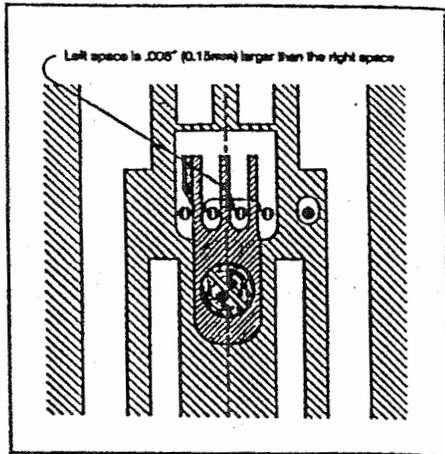


FIG. 4

Correct spacing of the needles in the throat plate stitch tongue is imperative to proper sewing conditions. Improper relationship of the needles to the stitch tongue often results in malformed stitches. When replacing the stitch tongue make sure needles are aligned properly (see Fig. 4).

If the stitch tongue and throat plate are properly seated and the needle position is not correct, the cylinder has probably been forced out of position. If realignment is necessary, refer to the section "Centering the Cylinder".

When the needles are correctly positioned in the throat plate the space to the left of the needles in the stitch tongue slot is .006" (0.15mm) more than the space to the right (see Fig. 4). Actually, the needle bar is centered to the throat plate and cylinder, however, to provide clearance on the left side of the needle for the needle loops passing around the looper during the down stroke of the needles, the slots in the stitch tongue are made off-center to the left. Accurate positioning of the needles may be obtained by repositioning the cylinder.

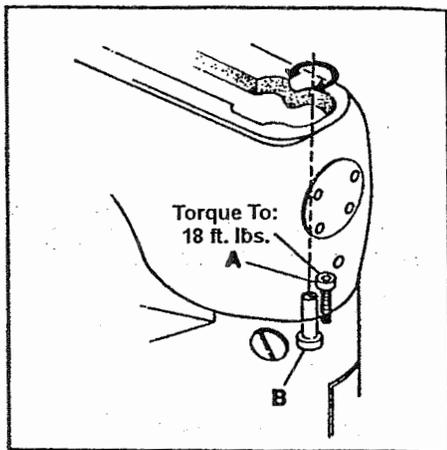


FIG. 5

ALIGNING THE CYLINDER

Remove the top front cover and gasket from the main frame. Loosen cylinder holding screw (A, Fig. 5). Turn eccentric screw (B) clockwise to move the cylinder so the needles are closer to the right side of the stitch tongue. Turn the stud counterclockwise to locate the needles closer to the left. Tighten screw (A) and recheck settings.

NOTE: The cylinder may not move freely when the eccentric is turned because the joint sealant compound has set. Light tapping with a wooden block at the joint or midpoint of the arm may be necessary.

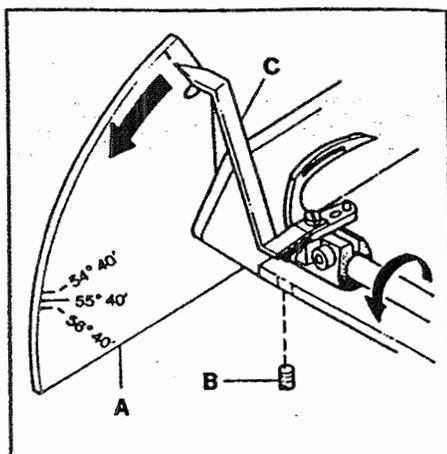


FIG. 6

SETTING THE LOOPER TRAVEL

Attach looper travel gauge plate (A, Fig. 6) to the rear of the cylinder arm. Set the bottom of the gauge so it is approximately horizontal and lock lightly in place with screw (B) directly underneath. Attach looper travel gauge pointer (C) to the looper using the left needle guard screw hole. Turn the handwheel in operating direction until the looper is positioned to the far right. Set pointer (C) at zero degrees by rotating gauge plate (A) and lock in place. Continue turning the handwheel until the pointer stops. If the looper travel is correct the pointer should indicate 55° 40'.

HUNG FOOT ADJUSTMENT

When sewing on extremely lightweight material and/or feed cutting is a problem, the presser foot may be "hung" by raising stud (B) until guide (A) rests on the shoulder of stud (B). This adjustment will raise the presser foot slightly, so only the pressure of the presser foot shoes contact the material. Turn handwheel in operating direction until the feed dogs are below the throat plate surface. At this time there should be a 1/32" (0.8mm) clearance between the bottom of presser bar guide (A, Fig. 37A&B) and presser bar guide stud (B). On 36200UY52&UY60 to hang presser foot, loosen lock nut (C Fig. 37A) and turn thumbscrew (D Fig. 37A) so that the foot comes up slightly, tighten nut (C Fig. 37A). On all other 36200 machines loosen screw (C Fig. 37B) and turn nut (D Fig. 37B) so that foot comes up slightly, tighten screw (C Fig. 37B).

SETTING THE LAP FORMER (STYLES 36200UAE52, UE52, UE60, UH52, UJE60, UM60, UY52, UY60)

Attach gibs (A, Fig. 38) to the cylinder cover but do not tighten screws (B); leave them snug for further adjustment. Fasten spring (C, Fig. 38 inset) to the bottom of slide block (D) and insert between gibs (A). Attach lap former (E) to slide block (D) with screws (F) and position it in the center of the presser foot. Position the slide block so it has a snug (but not tight) fit the entire length of the gibs. Tighten screws (B).

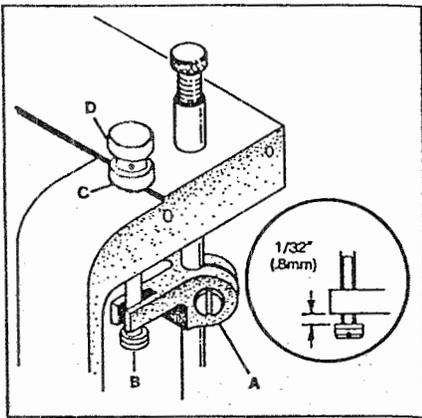


FIG. 37A

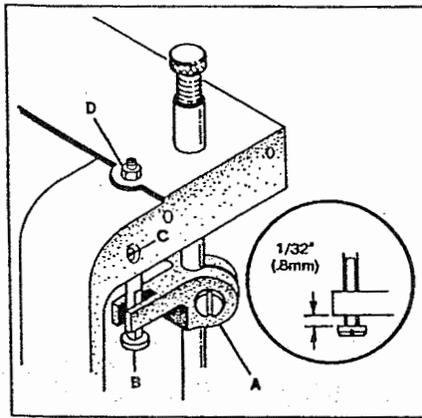


FIG. 37B

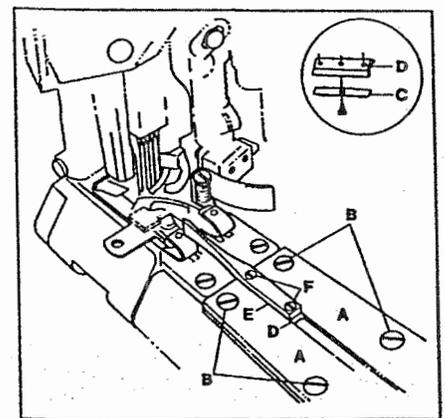


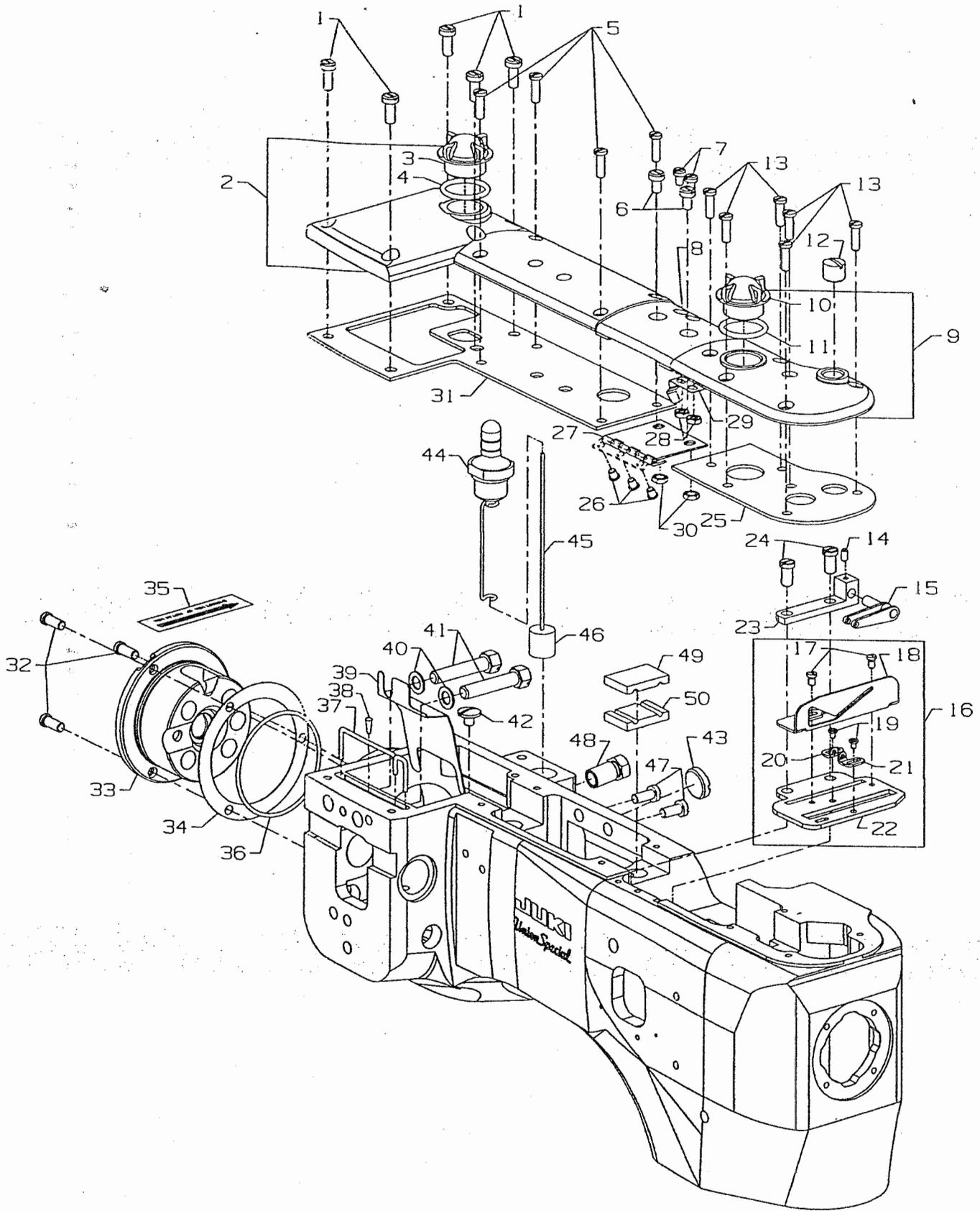
FIG. 38

LAP SEAMING

Lap Seaming on the 36200UAE52, UE52, UE60, UJE60, UY52, UY60 can be accomplished using three methods:

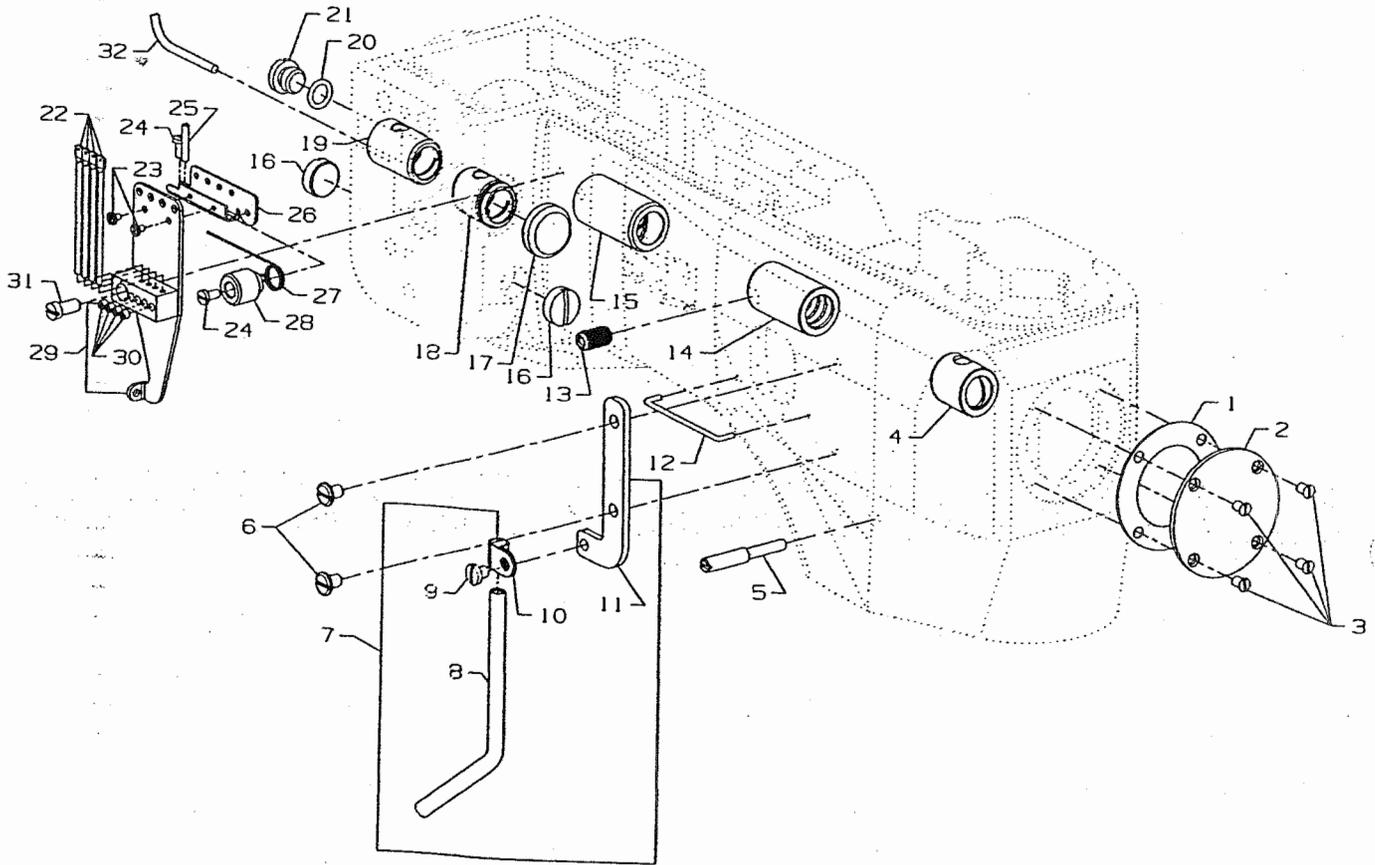
1. Lap Seaming cutting two plies of material.
 - A. Remove butt seam presser foot and replace with lap seam presser foot. Refer to pages 15, 16, & 17 for presser foot adjustments.
 - B. Attach lap former and slide block with spring. See above for adjustments.
2. Lap seaming cutting only right ply of material.
 - A. Use butt seam presser foot.
 - B. Remove front right throat plate screw and attach 36203 edge guide with 22849 screw, and adjust left or right for proper coverage on bottom.
 - C. Adjust knives left or right for proper trimming and coverage on top.
3. Lap seaming cutting only left ply of material.
 - A. Use butt seam presser foot.
 - B. Remove left front throat plate screw and attach 36203 edge guide with 22849 screw, and adjust left or right for proper coverage on bottom.
 - C. Adjust knives left or right for proper trimming and coverage on top.

MACHINE STYLE	BUTT SEAMING PRESSER FOOT	LAP SEAMING PRESSER FOOT FOR CUTTING TWO PLYS
36200UAE52	36220A	36220E
36200UJE60	36220K	36220W



OIL SIGHT GAUGES, TOP COVERS & MISCELLANEOUS TAKEUP & EYELET PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	93	Screw, for crank chamber cover	5
2.	35888N	Crank Chamber Cover	1
3.	B3530555000	Oil Sight Gauge	1
4.	660-212	"O"Ring	1
5.	22516A	Screw	4
6.	93A	Screw, for middle top cover	2
7.	90	Screw, for spring	2
8.	35887X	Top Cover, middle	1
9.	35887AE	Top Cover, front	1
10.	B3530555000	Oil Sight Gauge	1
11.	660-212	"O"Ring	1
12.	22539M	Plug Screw	1
13.	22516A	Screw, for front top cover	6
14.	73C	Screw	1
15.	36256	Cover Thread Take-up Eyelet	1
16.	29476XC	Cast-Off Plate Assembly	1
17.	22KH	Screw, for cast-off	2
18.	36204	Cast-off	1
19.	73A	Screw, for cast-off plate eyelets	2
20.	52958F	Cast-off Plate Eyelet, rear	1
21.	52958C	Cast-off Plate Eyelet, front	1
22.	36204A	Cast-off Plate	1
23.	36256A	Cover Thread Take-up Eyelet Holder	1
24.	22839	Screw	2
25.	35887AG	Gasket, for front top cover	1
26.	22564B	Screw, for middle cover hinge	3
27.	35887R	Middle Cover Hinge	1
28.	41071G	Nut, for top middle cover spring screw	2
29.	35887M	Spring, for middle top cover	1
30.	12934A	Nut, for top middle cover spring screw	2
31.	35888T	Gasket, for crank chamber	1
32.	22569B	Screw, for bushing housing	1
33.	36290D	Bushing Housing, includes bushing	1
34.	56390E	Gasket, for bushing housing	1
35.	LA528	Directional Label	1
36.	660-935	"O"Ring	1
37.	CL21	Oil Wick	1
38.	CO67E	Cork	1
39.	35889H	Oil Shield	1
40.	6042A	Washer, for screw	2
41.	22759A	Screw, for connecting head to main frame	2
42.	22711	Screw, for oil wick	1
43.	22539AA	Plug Screw	1
44.	36293B	Oil Sight Gauge	1
45.	36293E	Oil Level Indicator	1
46.	39593C	Oil Gauge Float	1
47.	93	Screw, for oil pump housing	2
48.	35890P	Bushing	1
49.	35893G	Seal, Upper	1
50.	35893H	Seal, Lower	1

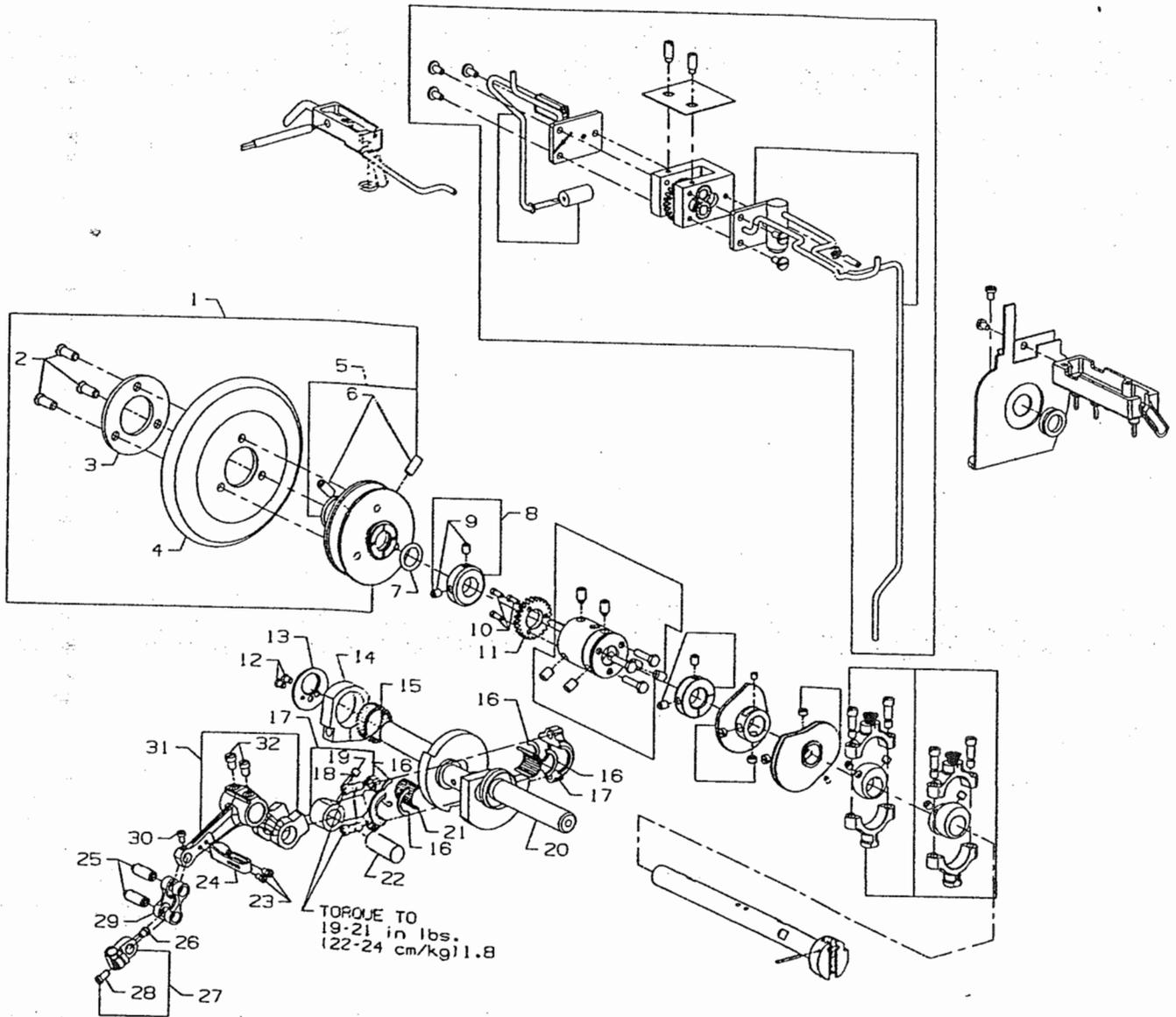


MAIN FRAME, BUSHINGS & MISCELLANEOUS EYELET & COVER PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	35887AF	Gasket, end cover	1
2.	35887Z	End Cover	1
3.	22564B	Screw, end cover	4
4.	36290B	Main Shaft Bushing, front	1
5.	22791D	Screw, for looper drive lever shaft	1
6.	22829	Screw, looper thread shield	2
7.	29105BH	Looper Thread Shield	1
8.	35866A	Tube	1
9.	SS7110510SP	Screw	1
10.	35866B	Tube Clamp	1
11.	35883AL	Support	1
12.	35781D	Looper Thread Guide Wire	1
13.	62271B	Thread Guide	1
14.	36290A	Main Shaft Bushing, rear	1
15.	35890E	Crankshaft Bushing, front	1
16.	22539T	Plug Screw	2
17.	35761D	Bushing Cap	1
18.	35860D	Needle Lever Shaft Bushing, front	1
19.	36260A	Needle Lever Shaft Bushing, rear	1
20.	660-206	Rubber "O" Ring	1
21.	22733B	Oil Drain Screw	1
22.	36271A	Frame Needle Thread Eyelet	4
23.	73A	Screw, for needle thread eyelet	2
24.	22768B	Screw, for unlocking spring height adjusting	1
25.	22799B	Screw	2
26.	36271G	Stitch Unlocker Mounting Bracket	1
27.	36271E	Unlocking Spring	1
28.	36271H	Spring Holder	1
29.	36271	Needle Thread Eyelet	1
30.	28C	Screw	4
31.	22569D	Screw, for needle thread eyelet	1
32.	CL21	Oil Wick	1

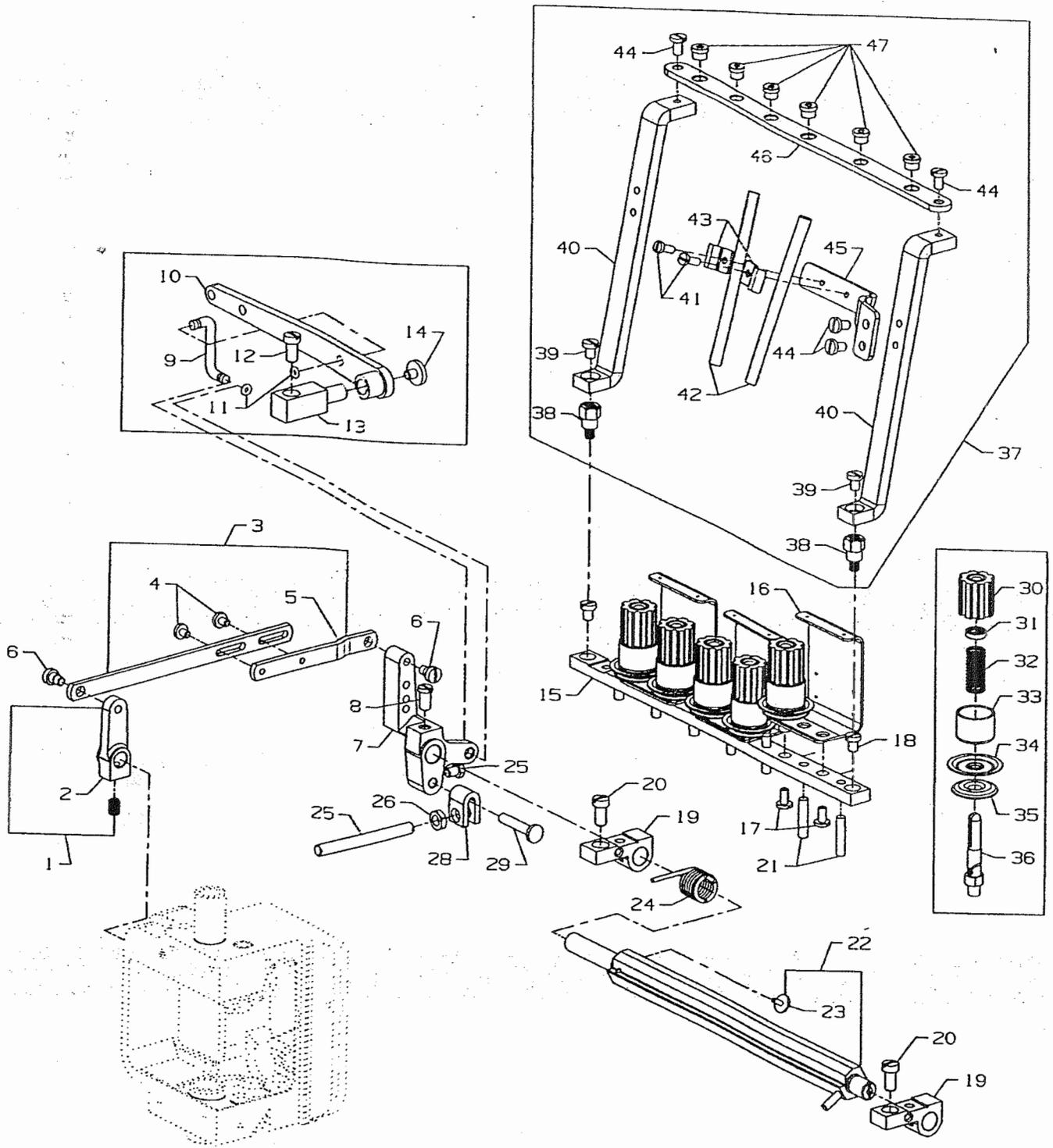
MAIN SHAFT & MISCELLANEOUS OILING

Ref. No.	Part No.	Description	Amt. Req.
1	660-207	Oil Seal Ring	1
2	35897BU	Reservoir Outlet Tube	1
3	35894J	Oil Reservoir, back	1
4	29472Y	Pump Assembly	1
5	22585A	Screw, for housing cover	5
6	21756G	Vent Screw	2
7	35897BW	Gasket	1
8	36297J	Housing Cover and Oil Tube, rear	1
9	35897BV	Intake Filter	1
10	29472AC	Pump Body and Gear Assembly	1
11	36297M	Housing Cover and Oil Tube, front	1
12	22571B	Plug Screw	1
13	41071G	Nut	1
14	22565A	Screw	1
15	90	Screw, for take-up shield	2
16	36261A	Take-up Shield Assembly	1
17	35894L	Oil Reservoir, front	1
18	666-338	Oil Seal Ring	1
19	29101J	Feed Drive Eccentric Assembly	1
20	22587E	Screw	2
21	22894W	Set Screw	2
22	29103T	Feed Lift Eccentric Assembly	1
23	22587E	Screw	2
24	22894W	Set Screw	2
25	660-219P	Roll Pin	1
26	36222C	Main Shaft	1
27	22801	Screw	2
28	36223	Double Disc Take-up	1
29	22580	Screw	2
30	36223A	Cover Thread Take-up	1
31	22580	Screw	2
32	35895Y	Crankshaft Thrust Collar	1
33	22894AM	Screw	2
34	35895X	Main Shaft Coupling	1
35	22519F	Screw	3
36	22894J	Set Screw	4
37	22894K	Spot Screw	2



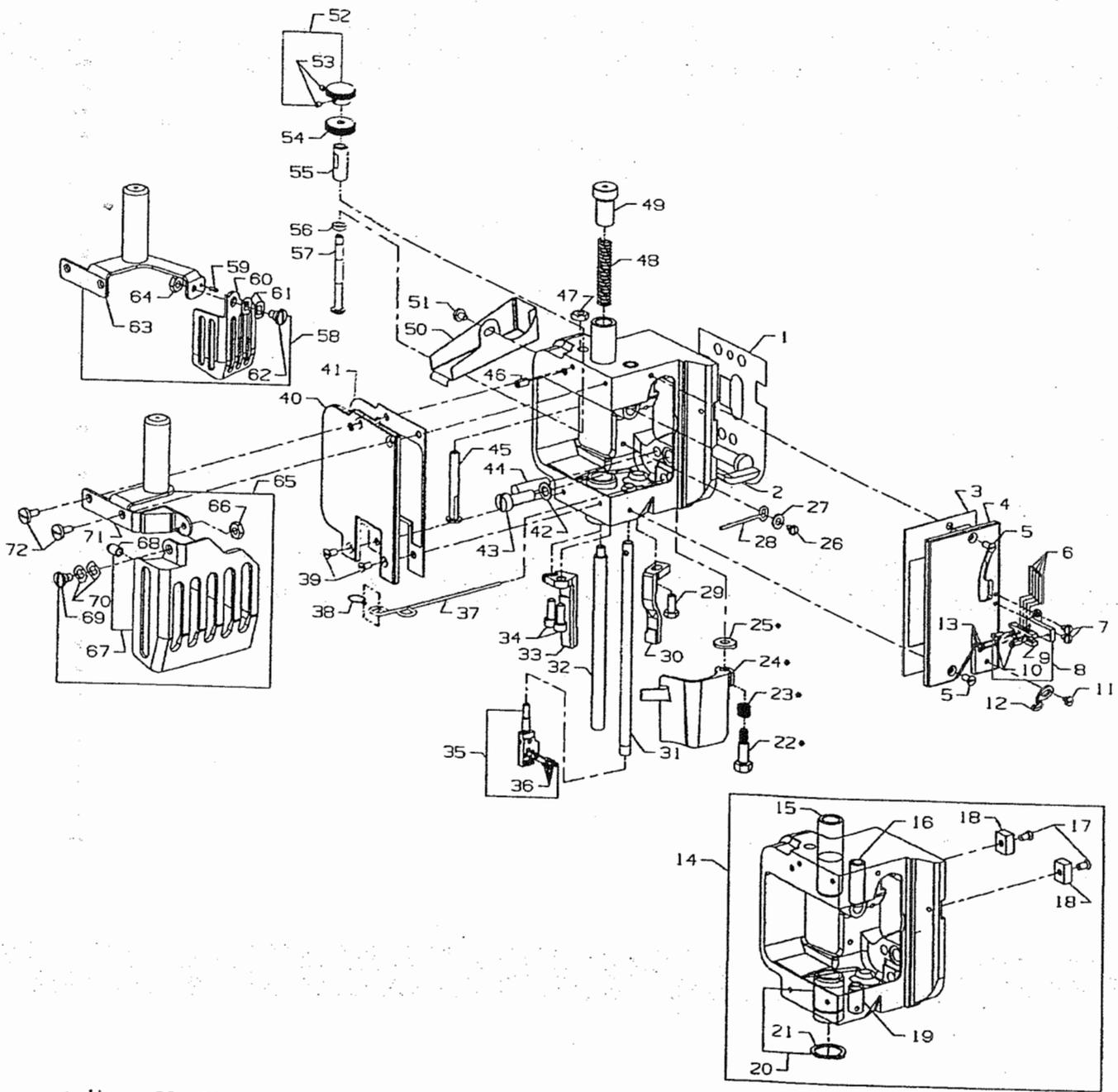
CRANKSHAFT & NEEDLE LEVER PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	36221K	Pulley Assembly	11
2.	22574	Screw	3
3.	61321L	Clamp Plate	1
4.	61321J	Handwheel	1
5.	36221D	Pulley	1
6.	22894E	Screw, for adjustable pulley	2
7.	660-202	Oil Seal Ring	1
8.	35895Y	Crankshaft Thrust Collar	1
9.	22894AM	Screw	2
10.	22797	Screw	3
11.	35897BY	Pump Driving Gear	1
12.	22766	Screw	2
13.	36251N	Needle Bearing Retaining Plate	1
14.	36251M	Eccentric Bearing	1
15.	36263	Needle Bearing Rollers	28
16.	35763G	Needle Bearing Retaining Ring	4
17.	35862A	Needle Lever Connecting Rod	1
18.	22587B	Screw	2
19.	22894W	Screw	1
20.	36222A	Crankshaft	1
21.	35763F	Needle Bearing Rollers	28
22.	35847X	Needle Lever Connecting Rod Pin	1
23.	77	Screw	2
24.	36264D	Needle Lever Thread Eyelet	1
25.	51054A	Link Pin	2
26.	22564	Screw	1
27.	51254K	Needle Bar Connection	1
28.	22562A	Screw	1
29.	56354D	Needle Bar Link	1
30.	77	Screw	1
31.	35815C	Needle Lever	1
32.	22596B	Screw	2



TENSION PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	35880M	Lift Lever Link Connection	1
2.	22894J	Screw	1
3.	36280V	Lifter Lever Link Assembly	1
4.	22585C	Screw	2
5.	36280U	Lifter Lever Link	1
6.	86	Screw	2
7.	36280W	Presser Bar Lifter Lever	1
8.	22839D	Screw	1
9.	36280T	Lifter Lever Connecting Link	1
10.	36280S	Presser Foot Connection Lifter Lever	1
11.	660-254C	Retaining Ring	2
12.	22517	Screw, for presser foot lifter bearing bracket	1
13.	36280N	Presser Foot Lifter Bearing Bracket	1
14.	255	Screw	1
15.	36298H	Tension Support	1
16.	36298G	Tension Thread Eyelet	3
17.	22585A	Screw, for tension post	6
18.	94	Screw, for tension support	2
19.	36292M	Tension Plate Bracket	2
20.	22517	Screw, for tension plate bracket	2
21.	35792T	Tension Disc Release Pin	7
22.	36292N	Tension Release Shaft	1
23.	22784F	Screw	1
24.	36292K	Spring, for tension release shaft	1
25.	22519	Screw, for stop plunger segment pin	1
26.	36280A	Presser Foot Lifter Stop Plunger	1
27.	258A	Nut	1
28.	36280C	Stop Plunger Segment	1
29.	36280D	Stop Plunger Segment Pin	1
30.	C50092S	Tension Nut	6
31.	39592AK	Tension Spring Ferrule	6
32.	51292F-2	Tension Spring, for cover thread	1
-	51292F-4	Tension Spring, for looper thread	1
-	51292F-5	Tension Spring, for needle thread	4
33.	W56392F	Shield, for tension spring	6
34.	35792	Tension Disc, large	6
35.	109	Tension Disc, small	6
36.	36292Q	Tension Post	6
37.	36266A	Thread Guide Assembly, for 36200UY52, UY60	1
38.	22894BK	Screw Post	1
39.	94	Screw	2
40.	36283R	Mounting Bracket	2
41.	SS7090910TP	Screw	2
42.	36266	Eyelet Tube	2
43.	36283U	Eyelet Tube Holder	2
44.	SS7110840SP	Screw	4
45.	36283T	Bracket, Tube	1
46.	36283S	Eyelet Plate	1
47.	B3319704L00	Eyelet	6

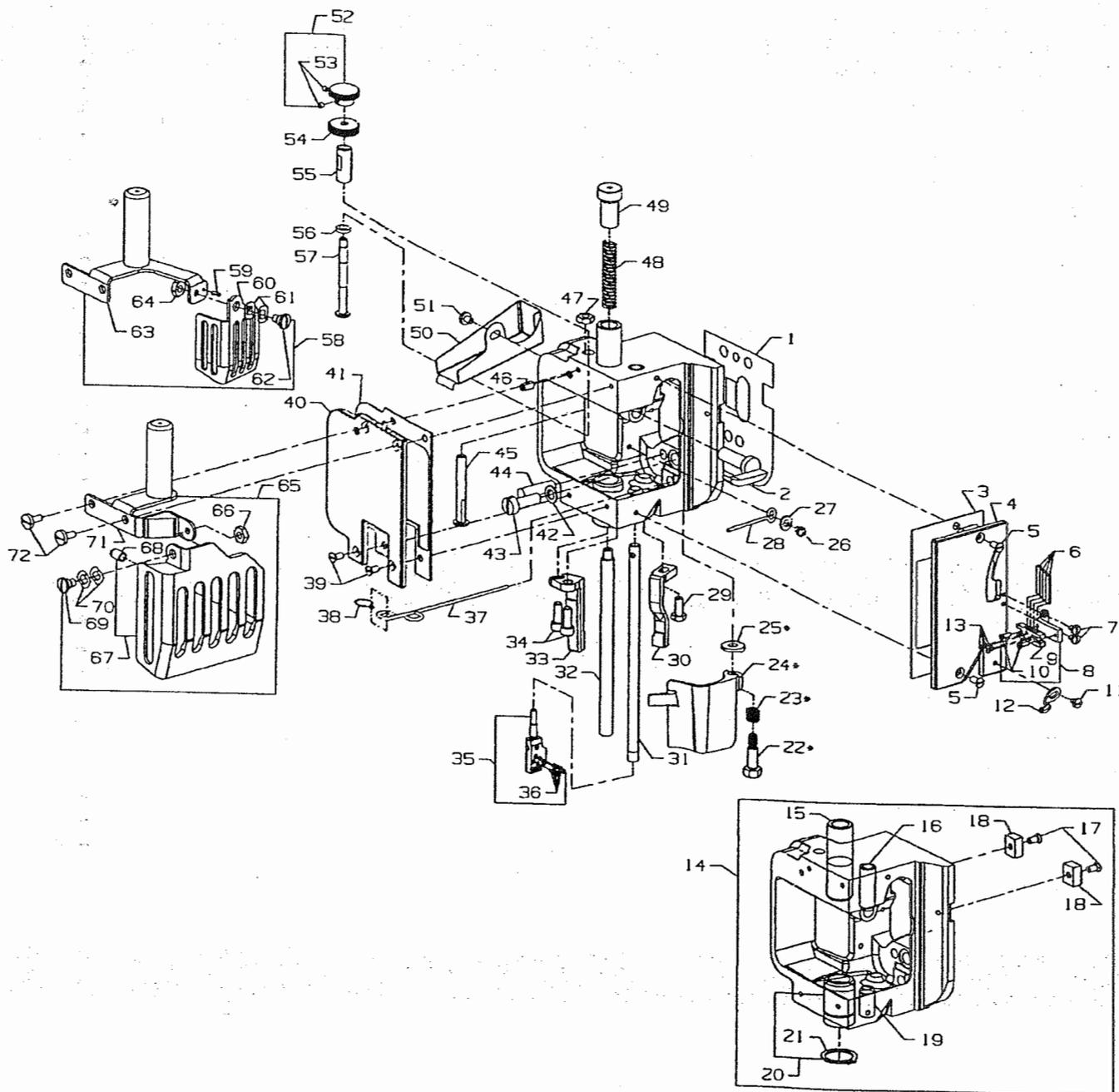


• Items 22, 23, 24, 25, and spanner wrench 21388Y are all part of kit 29480AZJ

DETACHABLE HEAD, HEAD COVERS, NEEDLE BAR & NEEDLE BAR HEAD

Ref. No.	Part No.	Description	Amt. Req.
1.	36289B	Baffle Plate	1
2.	36280J	Presser Bar Lifter Lever	1
3.	36289H	Gasket, for front head cover	1
4.	36289	Head Cover, front	1
5.	22524	Screw, for front head cover	2
6.	36264B	Needle Thread Strike-off Pin	4
7.	28	Screw, for needle thread take-up	2
8.	36264E	Needle Thread Take-up, complete	1
9.	36264F	Strike-off Pin Holder	1
10.	22738C	Screw, for needle thread take-up	2
11.	28	Screw, for cover thread eyelet	1
12.	51259	Cover Thread Eyelet, for all styles except 36200UX52, UX60	1
13.	28A	Screw, for needle thread take-up	4
14.	36229B	Detachable Sewing Head	1
-	36229F	Detachable Sewing Head, for styles 36200UY52, UY60	1
15.	36278A	Presser Bar Bushing	1
16.	35859D	Needle Bar Bushing, upper	1
17.	22524	Screw	2
18.	35767	Sewing Head Key	2
19.	35859J	Needle Bar Bushing, lower	1
20.	36251D	Cover Thread Carrier and Hook Driving Sleeve Bushing	1
21.	660-261	Retaining Ring	1
22.	22777B	Screw, for frame chip guard	1
23.	36279L	Spring, for frame chip guard, for all styles except 36200UX52, UX60	1
-	36279B	Spring, for frame chip guard, for styles 36200UX52, UX60	1
24.	36279N	Frame Chip Guard, for all styles except 36200UX52, UX60	1
25.	36279M	Washer, for frame chip guard, for all styles except 36200UX52, UX60	1
-	36279A	Washer, for frame chip guard, for styles 36200UX52, UX60	1
26.	22513	Screw, for oil deflector	1
27.	8372A	Washer	1
28.	36294C	Oil Deflector	1
29.	22881A	Screw, for right presser foot guide	1
30.	36278K	Presser Foot Guide, right	1
-	36278S	Presser Foot Guide, right, for styles 36200UY52, UY60	1
31.	35817E	Needle Bar	1
32.	36278	Presser Bar	1

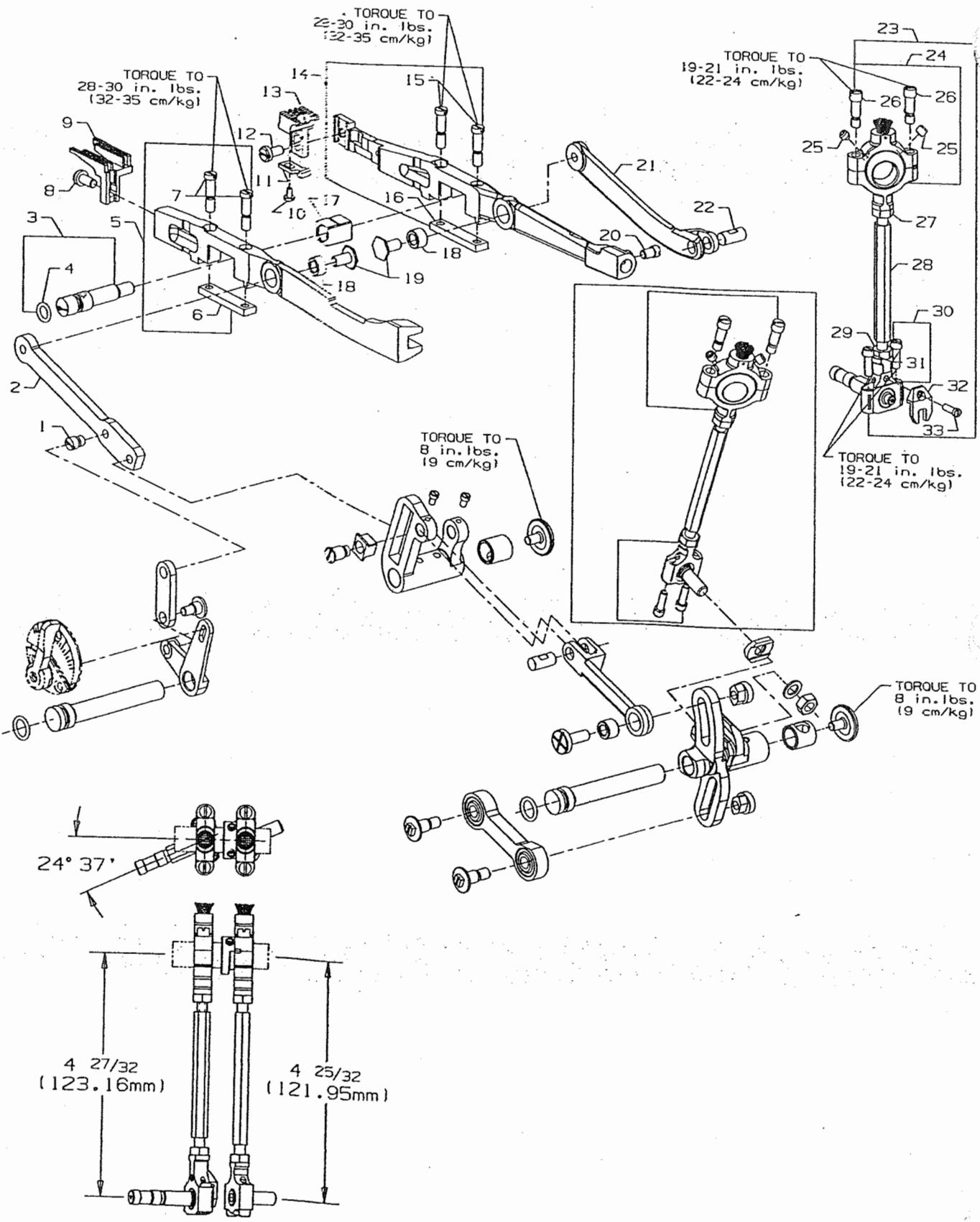
33. thru 72. See Following page



• Items 22, 23, 24, 25, and spanner wrench 21388Y are all part of kit 29480AZJ

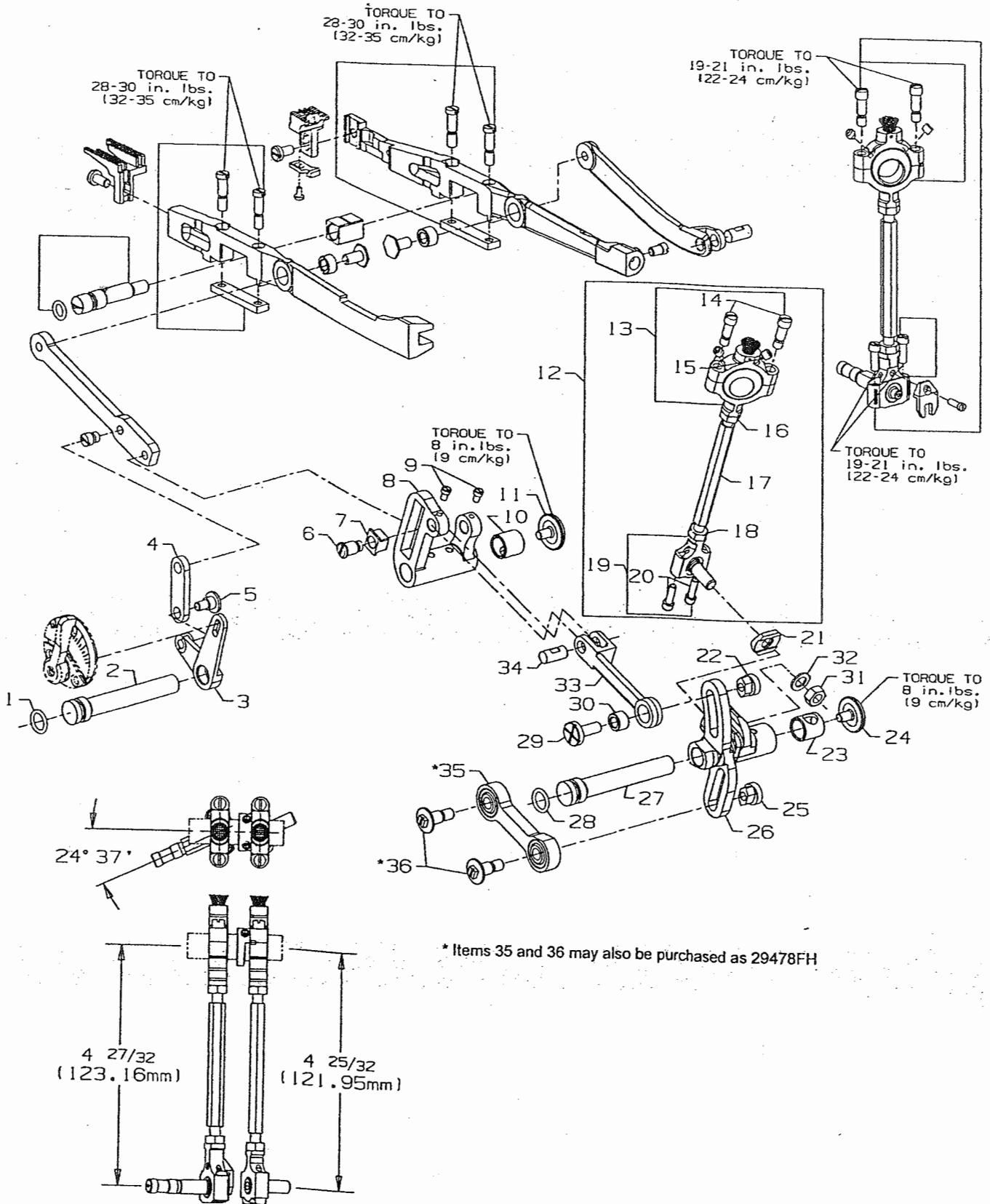
DETACHABLE HEAD, HEAD COVERS, NEEDLE BAR & NEEDLE BAR HEAD

Ref. No.	Part No.	Description	Amt. Req.
1. thru 32. See Preceding page			
33.	36278L	Presser Foot Guide, left	1
-	36278R	Presser Foot Guide, left, for styles 36200UY52, UY60	1
34.	22653B-8	Screw, for left presser foot guide	2
* 35.	36218	Needle Head, for styles 36200UA52, UAE52, UE52, UAK52, UH52, UX52, UY52	1
-	36218J	Needle Head, for styles 36200UE60, UJ60, UJE60, UM60, UX60, UY60	1
36.	22738H	Screw, for needles and retainer	5
37.	WO3	Yarn, Oil Wick	1
38.	35897CK	Oil Wick Hook	1
39.	22524	Screw, for left head cover	2
40.	36289A	Head Cover, left	1
41.	36289J	Gasket, for left head cover	1
42.	6042A	Washer	1
43.	318	Screw, for connecting head to main frame	1
44.	664F-16	Taper Pin	1
45.	36278H	Presser Bar Guide Stud	1
46.	22560A	Screw, for presser bar guide stud	1
47.	12538	Nut, for presser bar guide stud	1
48.	36278F	Spring, for presser bar	1
-	36278U	Spring, for presser bar, for styles 36200UY52, UY60	1
49.	36278M	Presser Bar Regulating Screw	1
50.	36294B	Lifter Lever Link Connection	1
51.	22585C	Screw	1
52.	660-1131	Knurled Knob, for styles 36200UY52, UY60	1
53.	28C	Screw	2
54.	660-1130	Knurled Nut, for styles 36200UY52, UY60	1
55.	36290E	Threaded Sleeve, for Hanging Foot, for styles 36200UY52, UY60	1
56.	36237M	Collar Bumper, for styles 36200UY52, UY60	1
57.	36278T	Screw Stud, for Hanging Foot, for styles 36200UY52, UY60	1
58.	29476YN	Sewing Guard Assembly, for style 36200UX52	1
59.	PS0200062KH	Roll Pin	1
60.	36296C	Sewing Guard	1
61.	WZ0641510KP	Spring Washer	2
62.	22758E	Screw	1
63.	36283M	Mounting Bracket	1
64.	9937	Nut	1
65.	29476YP	Sewing Guard Assembly, for all styles except 36200UX52	1
66.	9937	Nut	1
67.	35896D	Sewing Guard	1
68.	666-340A	Bumper Plug	1
69.	22758E	Screw	1
70.	WZ0641510KP	Spring Washer	2
71.	36283P	Mounting Bracket	1
72.	22585B	Screw	2



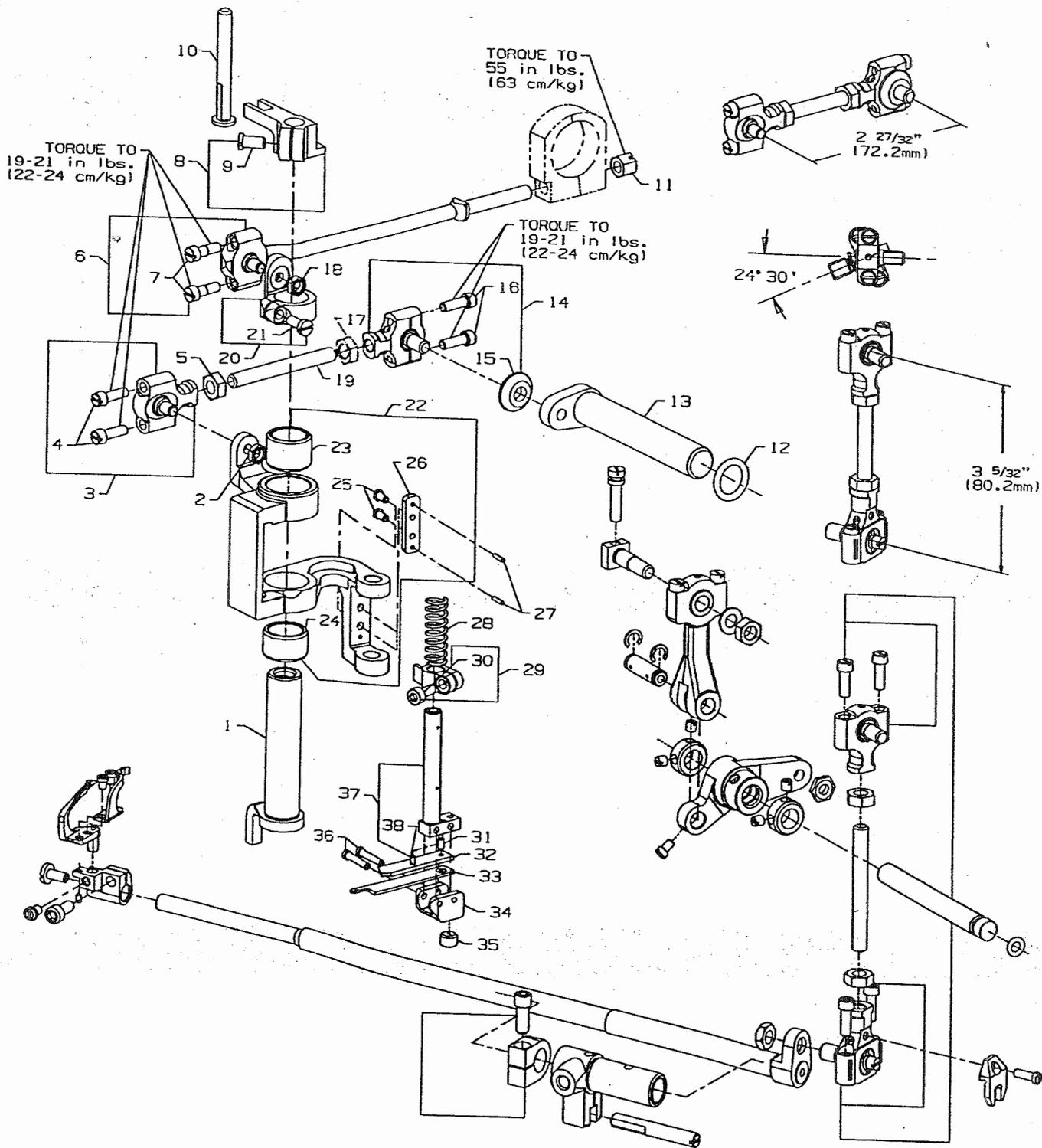
DIFFERENTIAL & MAIN FEED BARS, FEED DOGS & FEED LIFT ECCENTRIC ASSEMBLY

Ref. No.	Part No.	Description	Amt. Req.
1.	22845M	Screw, for differential feed bar driving link	1
2.	36236F	Differential Feed Bar Driving Link	1
3.	36234M	Feed Bar Eccentric Stud	1
4.	660-220	"O"Ring	1
5.	36234F	Differential Feed Bar	1
6.	36234G	Feed Bar Plate	1
7.	22587H	Screw	2
8.	22528	Screw, for differential feed dog	1
9.	36226A	Differential Feed Dog, marked "FV", 14 teeth per inch, for Styles 36200UA52, UAE52, UAK52, UE52, UE60, UJ60, UJE60, UX52, UX60	1
-	36226B	Differential Feed Dog, marked "PB", 16 teeth per inch	1
-	36226K	Differential Feed Dog, 16 teeth per inch, for styles 36200UY52, UY60	1
-	36226H	Differential Feed Dog, marked "PQ", 14 teeth per inch, .050" (1.27mm) step on right side, for styles 36200UH52	1
-	36226J	Differential Feed Dog, marked "VU", 16 teeth per inch, .050" (1.27mm) step on right side, for styles 36200UM60	1
10.	87U	Screw, for needle guard	1
11.	36225	Needle Guard all styles except 36200UAK52	1
-	36225A	Needle Guard for style 36200UAK52	1
12.	22528	Screw, for main feed dog	1
13.	36205A	Main Feed Dog, marked "PK", 14 teeth per inch, for Styles 36200UA52, UAE52, UAK52, UE52, UE60, UJ60, UJE60, UX52, UX60	1
-	36205B	Main Feed Dog, marked "PL", 16 teeth per inch	1
-	36205N	Main Feed Dog, 16 teeth per inch, for styles 36200UY52, UY60	1
-	36205H	Main Feed Dog, marked "PR", 14 teeth per inch, .050" (1.27mm) step on right side, for styles 36200UH52	1
-	36205J	Main Feed Dog, marked "VV", 16 teeth per inch, .050" (1.27mm) step on right side, for styles 36200UM60	1
14.	36234E	Main Feed Bar	1
15.	22578H	Screw	2
16.	36234G	Feed Bar Plate	1
17.	36234C	Feed Bar Slide Block	1
18.	36236H	Bushing	2
19.	36236G	Driving Link Stud	2
20.	33174B	Screw	1
21.	36236E	Main Feed Bar Drive Link	1
22.	62238A	Link Pin	1
23.	29478CS	Feed Lift Eccentric Assembly	1
24.	29103T	Feed Lift Eccentric Assembly Ball Joint	1
25.	22894W	Set Screw	2
26.	22587E	Screw	2
27.	269	Nut, left thread	1
28.	36244	Connecting Rod	1
29.	18	Nut, right thread	1
30.	36244A	Ball Joint, complete	1
31.	22729C	Screw	2
32.	41255B	Ball Fork	1
33.	22747	Screw, for ball fork	1



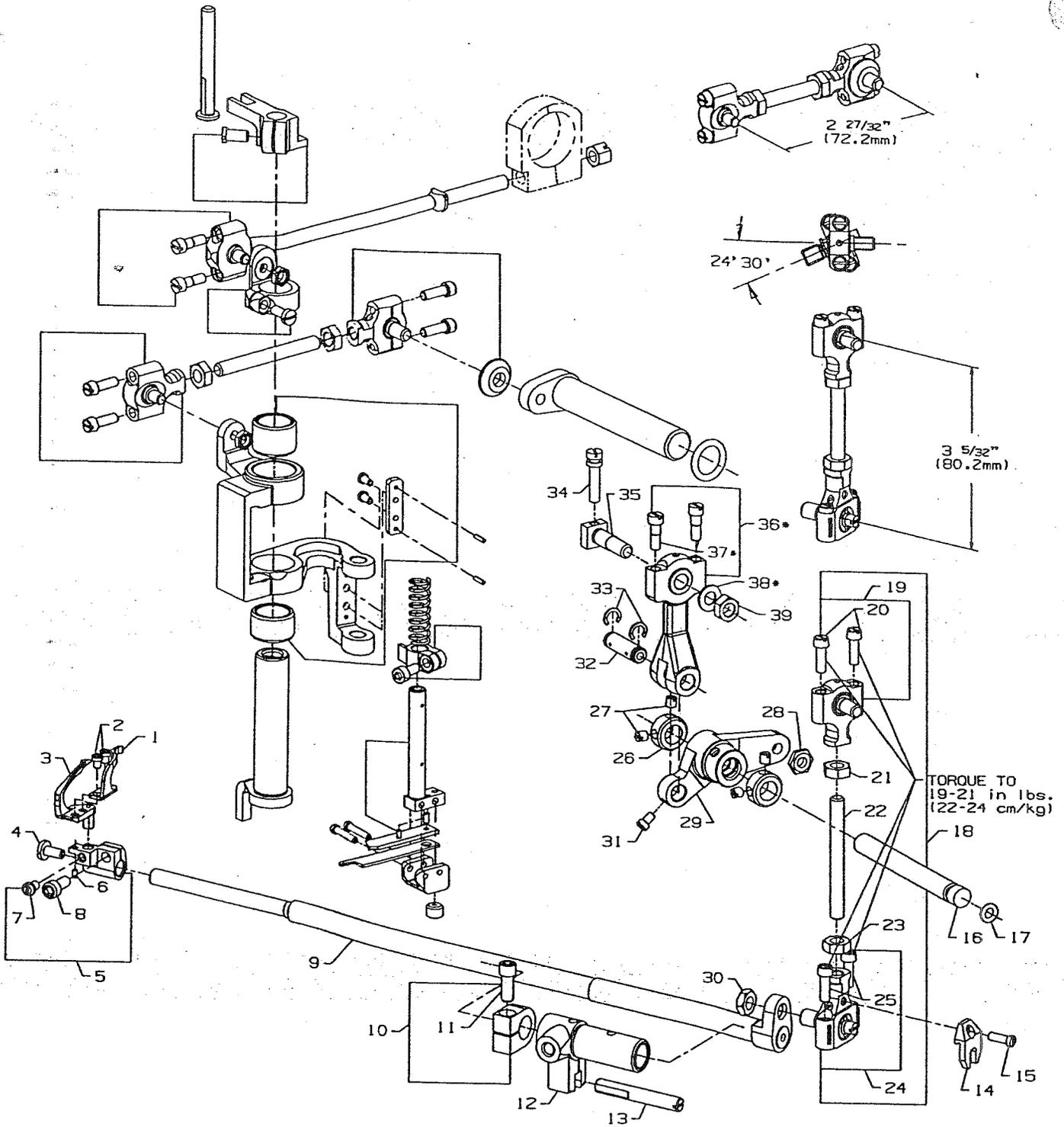
FEED DRIVE ASSEMBLY, FEED ROCKER & LOOPER AVOID PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	660-207	Oil Seal Ring	1
2.	36236A	Feed Rocker Shaft	1
3.	36237	Differential Feed Adjusting Lever	1
4.	36237A	Differential Feed Adjusting Link	1
5.	22504C	Screw	1
6.	36236J	Differential Driving Link Stud	1
7.	36236K	Differential Feed Driving Link Slide Block	1
8.	36236	Feed Rocker	1
9.	77	Screw	2
10.	36236B	Bushing	1
11.	22733G	Screw	1
12.	29478CT	Feed Drive Assembly	1
13.	29101J	Feed Drive Eccentric Assembly	1
14.	22587E	Screw	2
15.	22894W	Set Screw	2
16.	269	Nut, left thread	1
17.	43246	Connecting Rod	1
18.	18	Nut, right thread	1
19.	35846	Ball Joint	1
20.	22729C	Screw	2
21.	35846B	Washer	1
22.	35866	Nut	1
23.	36236B	Bushing	1
24.	22733G	Screw	1
25.	35766B	Nut	1
26.	35842J	Feed Drive and Looper Avoid Drive Lever	1
27.	36236A	Feed Drive Shaft	1
28.	660-207	Oil Seal Ring	1
29.	35836C	Screw, for feed rocker driving link	1
30.	36236H	Bushing	1
31.	258	Nut	1
32.	6042A	Washer	1
33.	36236C	Feed Rocker Driving Link	1
34.	62238A	Link Pin	1
35.	35851R	Connecting Rod	1
36.	35851P	Screw	2



KNIFE DRIVING PARTS

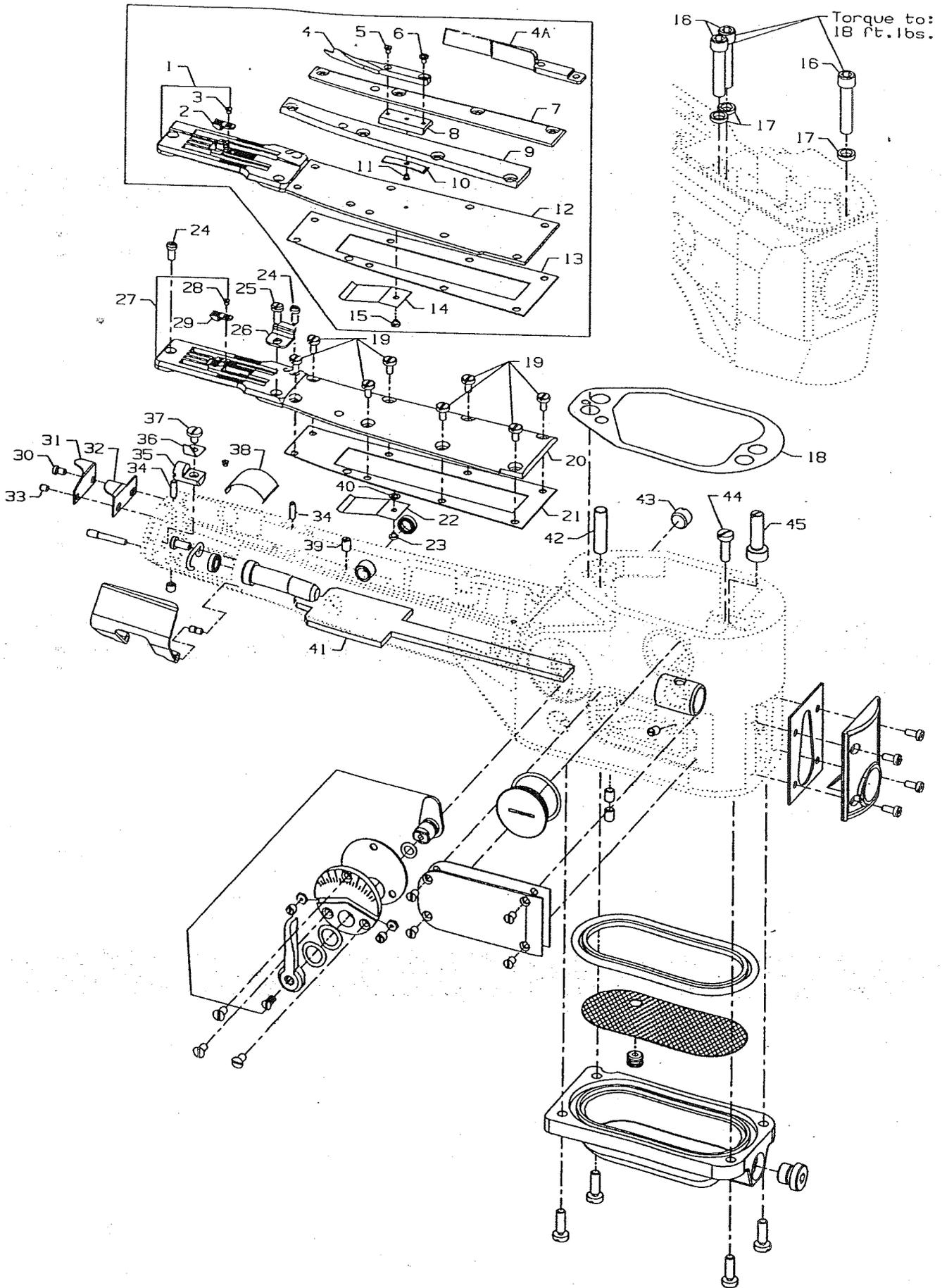
Ref. No.	Part No.	Description	Amt. Req.
1.	36251B	Cover Thread Carrier and Hook Driving Sleeve	1
2.	12934A	Nut	1
3.	52848B	Knife Drive Connection Ball Joint, left	1
4.	22729C	Screw	2
5.	18	Nut, right thread	1
6.	36251P	Cover Thread Carrier and Hook Driving Connection Rod Ball Joint	1
7.	97A	Screw	2
8.	36278J	Presser Bar Guide	1
9.	22569G	Screw	1
10.	36278H	Presser Bar Guide Stud	1
11.	52841H	Nut	1
12.	660-202	Oil Seal Ring	1
13.	36261	Knife Drive Lever	1
14.	52848C	Knife Drive Connection Ball Joint, right	1
15.	36G	Washer	1
16.	22729C	Screw	2
17.	269	Nut, left thread	1
18.	12934A	Nut	1
19.	4761	Knife Drive Connecting Rod	1
20.	36251C	Sleeve Driving Lever, for styles 36200UA52, UAE52, UAK52, UE52, UH52, UX52, UY52	1
	36251V	Sleeve Driving Lever 36200UJ60, UJE60, UM60, UX60, UY60	1
21.	22585	Screw	1
22.	36273M	Knife Driving Bracket	1
23.	36273F	Bushing	1
24.	36273N	Bushing	1
25.	605A	Screw	2
26.	36273J	Knife Holder Guide Plate	1
27.	660-219D	Roll Pin	2
28.	36273C	Knife Holder Spring	1
29.	36273K	Knife Holder Guide Collar	1
30.	22729M	Screw	1
31.	22799N	Screw	1
32.	36273D	Knife Support	1
33.	36270B	Knife, upper	1
34.	36273G	Knife Holder	1
35.	22894X	Screw	1
36.	22767A	Screw	2
37.	36273A	Knife Holder Shank	1
38.	1096B	Screw	1



*Items 36, 37, 38, are part of
Looper Drive connection kit 29478FG

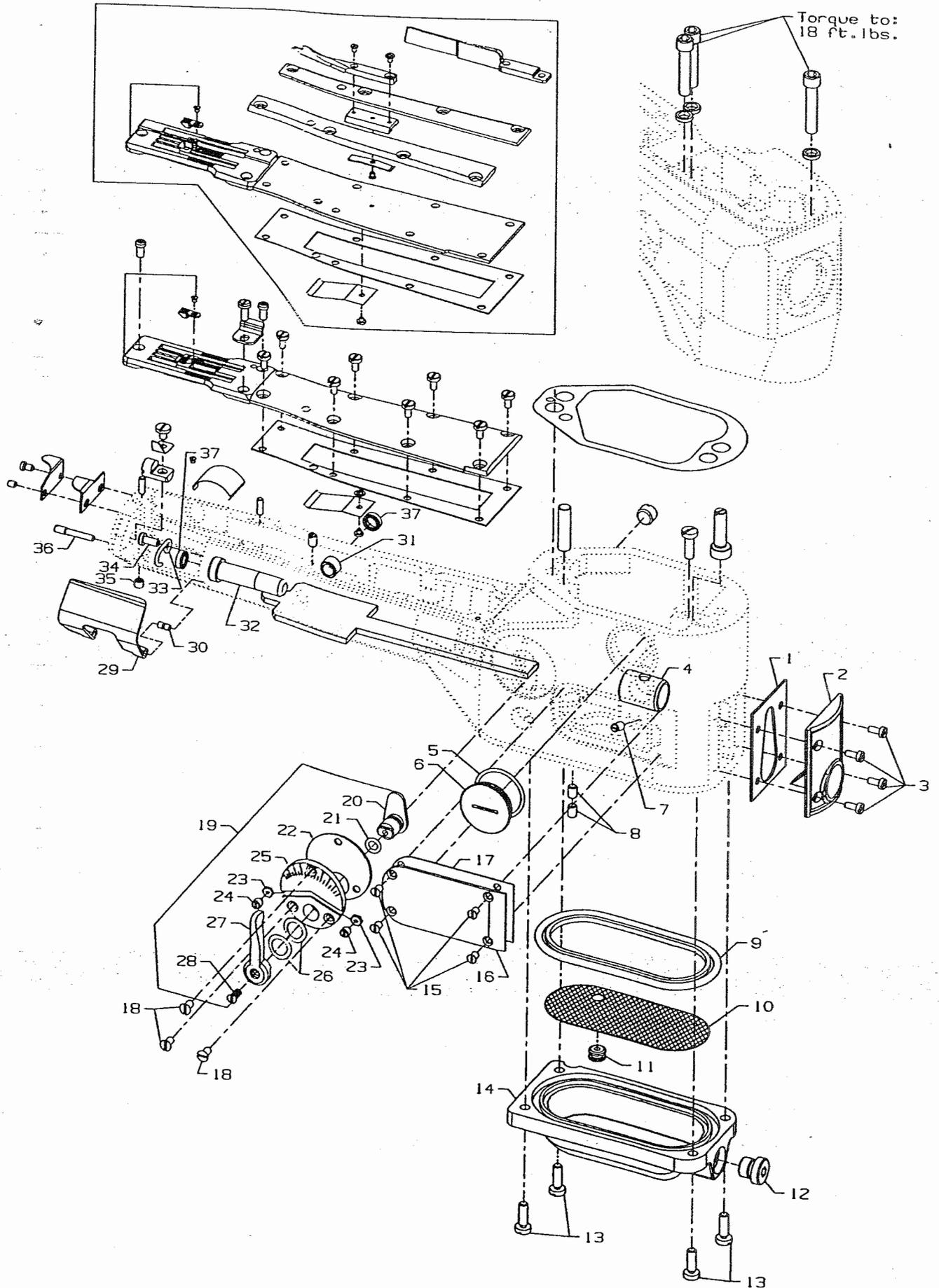
LOOPER ROCKER SHAFT & LOOPER ROCKER DRIVE PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	36210	Looper Mounted Needle Guard, marked "FZ"	1
2.	604	Screw, for needle guard	2
3.	36208A	Looper	1
4.	22585A	Screw	1
5.	36248	Looper Holder	1
6.	1096B	Looper Adjusting Screw	1
7.	22564D	Screw	1
8.	22652A-6	Screw	1
9.	36249	Looper Rocker Shaft	1
10.	35751G	Looper Shaft Collar	1
11.	22572B	Screw	1
12.	36249B	Looper Shaft Sleeve	1
13.	36278C	Guide Stud	1
14.	41255B	Ball Fork	1
15.	22747	Screw	1
16.	36253B	Looper Drive Lever Shaft	1
17.	660-221	Oil Seal Ring	1
18.	29478CU	Looper Drive Connecting Rod Assembly	1
19.	35851L	Ball Joint, upper	1
20.	22729C	Screw	2
21.	269	Nut, left thread	1
22.	4761	Connecting Rod	1
23.	18	Nut, right thread	1
24.	39145A	Ball Joint, lower	1
25.	22729C	Screw	2
26.	12865	Collar	2
27.	88	Screw	2
28.	15037A	Nut	1
29.	36253A	Looper Drive Lever	1
30.	258A	Nut	1
31.	77	Screw	1
32.	52336	Link Pin	1
33.	660-215	Retaining Ring	2
34.	22795B	Screw	1
35.	36253G	Looper Drive Crank Stud	1
36.	36245B	Looper Drive Connecting Rod and Ferrule Sub-Assembly	1
37.	97A	Screw	1
38.	53636C	Washer	1
39.	269	Nut, left thread	1



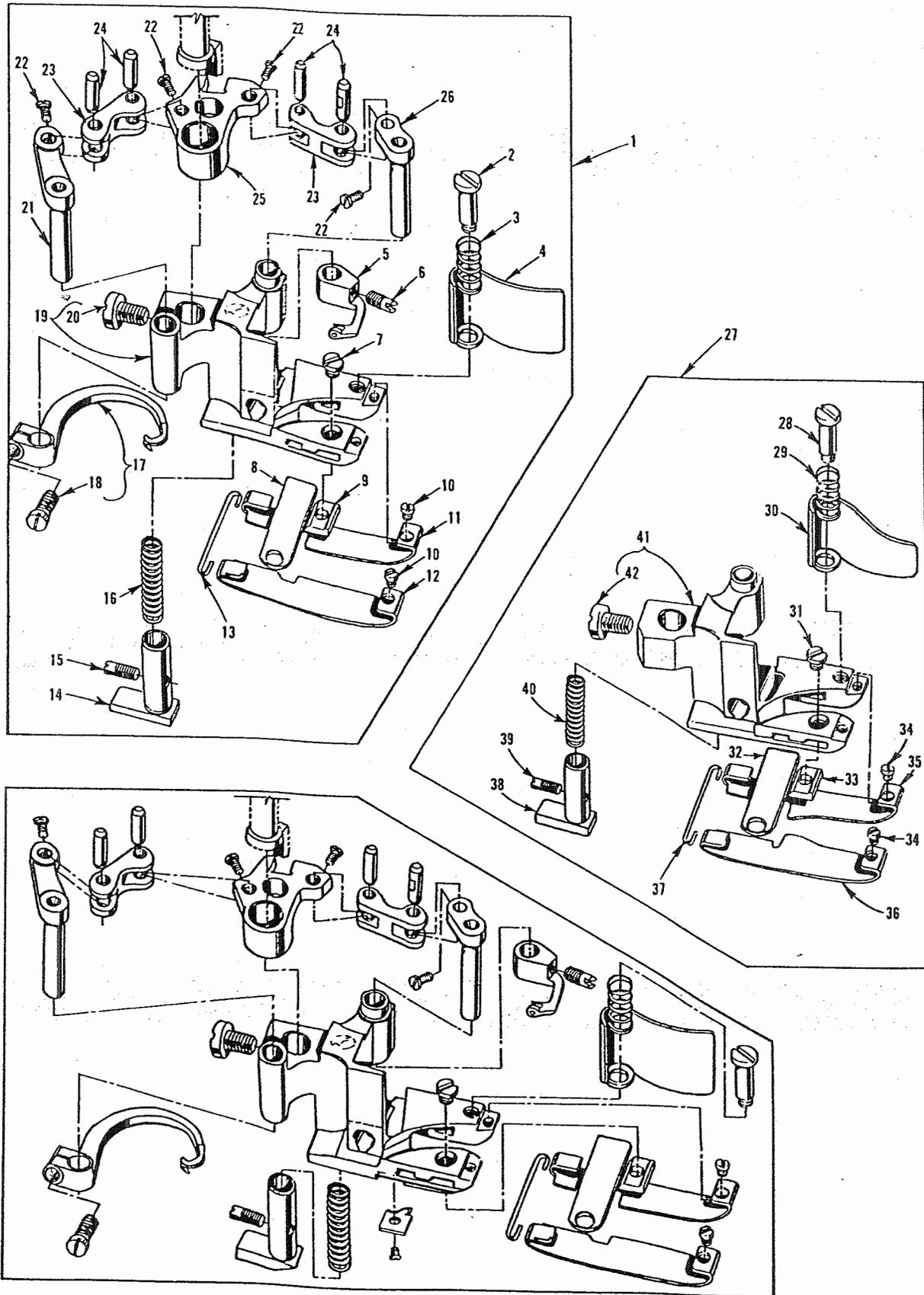
LAP FORMER, MISCELLANEOUS CYLINDER COVERS, THROAT PLATE, & CHAIN CUTTING KNIFE

Ref. No.	Part No.	Description	Amt. Req.
* 1.	36224H	Throat Plate, .050" (1.27mm) step on right side, Styles 36200 UH52	1
-	36224K	Throat Plate, .050" (1.27mm) step on right side, Styles 36200 UM60	1
2.	36240	Stitch Tongue, marked "D", for Throat Plate 36224H	1
-	36240J	Stitch Tongue, marked "AC", for Throat Plate 36224K	1
3.	22716A	Screw, stitch tongue	1
23420 DE 4.	23420DB	Lap Former	1
4A.	23420DH	Lap Former, for styles 36200UY52, UY60	1
5.	22738B	Screw, for lap former	1
6.	73A	Screw, for lap former	1
7.	36283J	Gib, right	1
8.	23423X	Lap Former Slide Block	1
9.	36283H	Gib, left	1
10.	23424Z	Spring, for lap former slide block	1
11.	22716A	Screw, for lap former slide block spring	1
12.	36283G	Cylinder Cover	1
13.	36283F	Gasket, for cylinder cover	1
14.	36284E	Upper Lint Shield	1
15.	22798	Screw, upper lint shield	1
16.	22653E-24	Screw, for joining cylinder to main frame	3
17.	35876U	Washer	3
18.	36284	Gasket	1
19.	98A	Screw, for cylinder cover	8
20.	36283E	Cylinder Cover, for all Styles except 36200UH52, UM60	1
21.	36283F	Gasket, for cylinder cover	1
22.	36284E	Upper Lint Shield	1
23.	22798	Screw, for upper lint shield	1
24.	22562A	Screw, for throat plate	3
* 25.	22849	Screw, for edge guide	1
* 26.	36203	Edge Guide, for Styles 36200UA52, UAE52, UAK52, UE52, UE60, UJ60, UJE60	1
* 27.	C36224A	Throat Plate, for Styles 36200UA52, UAE52, UAK52, UE52, UX52	1
-	C36224J	Throat Plate, for Styles 36200UE60, UJ60, UJE60, UX60	1
-	C36224P	Throat Plate, for Style 36200UY52	1
-	C36224Q	Throat Plate, for Style 36200UY60	1
28.	22716A	Screw, for stitch tongue	1
29.	36240	Stitch Tongue, marked "D", for Throat Plates C36224A, C36224P	1
-	36240J	Stitch Tongue, marked "AC", for Throat Plates C36224J, C36224Q	1
30.	22KH	Screw, for chain cutting knife	1
31.	36296B	Guard, for chain cutting knife	1
32.	36296A	Chain Cutting Knife	1
33.	22801	Screw, for chain cutting knife	1
34.	36251K	Dowel Pin	2
35.	36283C	Cylinder Hinged Spring Support Stud	1
36.	36283B	Spring	1
37.	22585C	Screw, spring	1
38.	35884K	Lower Lint Shield	1
39.	531	Screw	1
40.	40-107	Washer	1
41.	666-341	Felt	1
42.	22571A	Plug Screw	1
43.	667D-16	Dowel Pin	1
44.	22596	Screw, for feed bar eccentric stud	1
45.	36229A-1	Cylinder Alignment Eccentric Pin	1



**CYLINDER BUSHINGS, DIFFERENTIAL FEED CONTROL ASSEMBLY &
MISCELLANEOUS CYLINDER COVERS**

Ref. No.	Part No.	Description	Amt. Req.
1.	35884R	Gasket, for front cylinder cover and oil gauge	1
2.	36284C	Cylinder Cover and Oil Gauge, front	1
3.	J87J	Screw, for front cylinder cover and oil gauge	4
4.	36249A	Bushing, for looper shaft, front	1
5.	660-1115	"O" Ring	1
6.	22539AL	Plug Screw	1
7.	22560A	Screw, for guide stud	1
8.	531	Screw	2
9.	36284F	Gasket, for bottom cover	1
10.	36293G	Screen, for bottom cover	1
11.	661-150	Rubber "O" Ring, for screen	1
12.	999-196	Oil Drain Plug Screw	1
13.	22596	Screw, for bottom cover	4
14.	36282	Bottom Cover	1
15.	22766	Screw, for cylinder side cover	4
16.	36286	Cylinder Side Cover	1
17.	36286B	Gasket, for cylinder side cover	1
18.	87A	Screw, for differential feed control assembly	3
19.	29478CZ	Differential Feed Control Assembly, complete	1
20.	36237E	Adjusting Lever	1
21.	660-220	Oil Seal Ring	1
22.	36238F	Gasket	1
23.	60078Z	Nut	2
24.	36237H	Stop Screw	2
25.	36238	Adjusting Plate	1
26.	36237J	Spring Washer	2
27.	36237K	Operating Lever	1
28.	538	Screw	1
29.	36283K	Cylinder Hinged Cover	1
30.	35883G	Pin	1
31.	36237L	Bushing, for feed bar eccentric stud	1
32.	35850F	Bushing, for looper shaft, rear	1
33.	36256B	Looper Thread Guide Wire	1
34.	22849	Screw, for looper thread guide wire	1
35.	22894W	Screw, for cylinder hinged spring support stud	1
36.	22791E	Screw Pin	1
37.	660-1117	Oil Seal	2

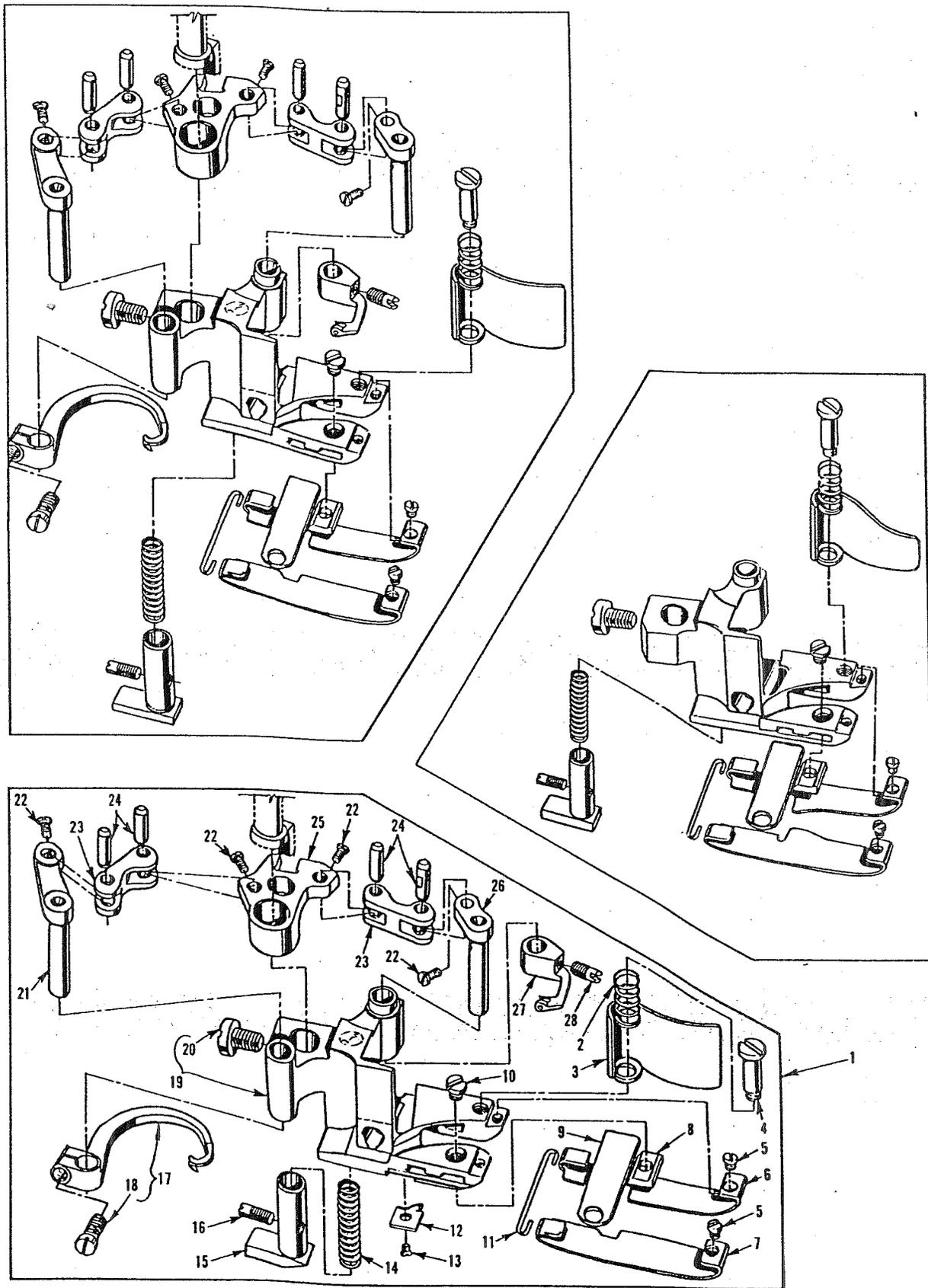


PRESSER FEET

Ref. No.	Part No.	Description	Amt. Req.
1.	36220A	Presser Foot, complete, for Styles 36200UA52, UAE52	1
-	36220K	Presser Foot, complete, for Styles 36200UJ60, UJE60	1
-	36220L	Presser Foot, complete, for Style 36200UAK52	1
2.	22731	Screw, for chip guard	1
3.	36279D	Spring, for chip guard	1
4.	36279C	Chip Guard	1
* 5.	36251E	Cover Thread Carrier, for 36220 A, L presser foot	1
-	36251W	Cover Thread Carrier, for 36220 K presser foot	1
6.	22565A	Screw, cover thread carrier	1
7.	150	Screw, for stationary knife clamp	1
8.	36250	Stationary Knife	1
* 9.	36250B	Stationary Knife Clamp, .213" (5.41mm) ID Mark "A"	1
-	36250G	Stationary Knife Clamp, .222" (5.64mm) ID Mark "B"	1
-	36250J	Stationary Knife Clamp, .226" (5.74mm) ID Mark "J"	1
10.	22738G	Screw, for presser foot shoe	2
# 11.	36232AY	Presser Foot Shoe, right, for 36220 A, K, L presser foot	1
# 12.	36231AY	Presser Foot Shoe, left, for 36220 A, K, L presser foot	1
13.	36230D	Shoe Holding Wire	1
14.	36230J	Yielding Section, for 36220 A, K presser foot	1
-	36230P	Yielding Section, for 36220 L presser foot	1
15.	22565A	Screw, for yielding section	1
16.	36230C	Spring, for yielding section	1
* 17.	36251F	Cross Thread Hook, for 36220 A, L presser foot	1
-	36251FA	Cross Thread Hook, for 36220 K presser foot	1
18.	22562A	Screw, for cross thread hook	1
19.	36230U	Presser Foot Base, for 36220 A, K, L presser foot	1
20.	94	Screw, for presser foot base	1
21.	36251H	Cover Thread Hook Driving Lever and Shaft	1
22.	22738P	Screw	4
23.	36251J	Link, for ref. no. 21, 25 and 26	2
24.	36251K	Link Pin	4
25.	36251L	Cover Thread Carrier and Hook Driving Segment	1
26.	36251G	Cover Thread Carrier Driving Lever and Shaft	1
27.	36220B	Presser Foot, complete, for Styles 36200UX52, UX60	1
28.	22731	Screw, for chip guard	1
29.	36279D	Spring, for chip guard	1
30.	36279H	Chip Guard	1
31.	150	Screw, for stationary knife clamp	1
32.	36250	Stationary Knife	1
* 33.	36250B	Stationary Knife Clamp, .213" (5.41mm) ID Mark "A"	1
-	36250G	Stationary Knife Clamp, .222" (5.64mm) ID Mark "B"	1
-	36250J	Stationary Knife Clamp, .226" (5.74mm) ID Mark "J"	1
34.	22738G	Screw, for presser foot shoe	2
# 35.	36232BA	Presser Foot Shoe, right, for 36220 B presser foot	1
# 36.	36231BA	Presser Foot Shoe, left, for 36220 B presser foot	1
37.	36230D	Shoe Holding Wire	1
38.	36230J	Yielding Section	1
39.	22565A	Screw, for yielding section	1
40.	36230C	Spring, for yielding section	1
41.	36230G	Presser Foot Base, for 36220 B presser foot	1
42.	94	Screw, for presser foot base	1

* When replacing the stationary knife clamp, order the clamp that has the same I. D. mark as the one being replaced.

#See page 50-51 for other presser foot shoes available.

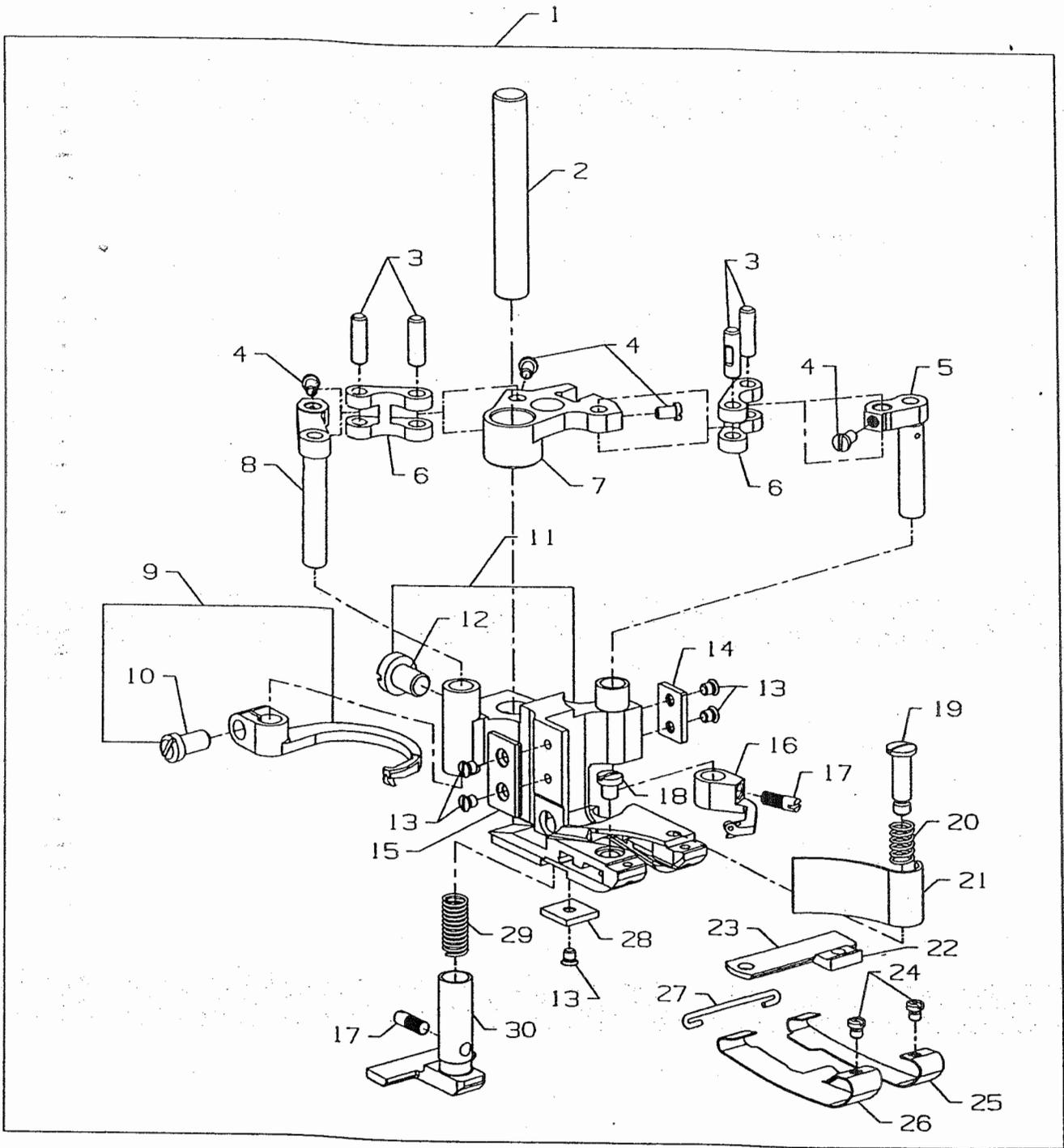


PRESSER FEET

Ref. No.	Part No.	Description	Amt. Req.
1.	36220E	Presser Foot, complete, for Style 36200UAE52, UE52	1
-	36220H	Presser Foot, complete, for Style 36200UH52	1
-	36220M	Presser Foot, complete, for Style 36200UE60, UM60	1
-	36220W	Presser Foot, complete, for Style 36200UJE60	1
2.	36279D	Spring, for chip guard	1
3.	36279C	Chip Guard	1
4.	22731	Screw, for chip guard	1
5.	22738G	Screw, for presser foot shoe	2
#6.	36232AM	Presser Foot Shoe, right, for Style 36220 H presser foot	1
#-	36232AP	Presser Foot Shoe, right, for Style 36220 M presser foot	1
#-	36232AW	Presser Foot Shoe, right, for Style 36220 E, 36220 W presser foot	1
#7.	36231AM	Presser Foot Shoe, left, for Style 36220 H presser foot	1
#-	36231AP	Presser Foot Shoe, left, for Style 36220 M presser foot	1
#-	36231AW	Presser Foot Shoe, left, for Style 36220E, 36220 W presser foot	1
*8.	36250B	Stationary Knife Clamp, .213" (5.41mm) ID Mark "A"	1
-	36250G	Stationary Knife Clamp, .222" (5.64mm) ID Mark "B"	1
-	36250J	Stationary Knife Clamp, .226" (5.74mm) ID Mark "J"	1
9.	36250	Stationary Knife	1
10.	150	Screw, for stationary knife clamp	1
11.	36230D	Shoe Holding Wire	1
12.	36230R	Cloth Guide Plate	1
13.	22716A	Screw, for cloth guide plate	1
14.	36230C	Spring, for yielding section	1
15.	36230P	Yielding Section	1
16.	22565A	Screw, for yielding section	1
17.	36251F	Cross Thread Hook, for 36220H and 36220E presser foot	1
-	36251FA	Cross Thread Hook, for 36220M, 36220 W presser foot	1
18.	22562A	Screw, for cross thread hook	1
19.	36230S	Presser Foot Base, for 36220 H presser foot	1
-	36230V	Presser Foot Base, for 36220 M presser foot	1
-	36230M	Presser Foot Base, for 36220 E, 36220 W presser foot	1
20.	94	Screw, for presser foot base	1
21.	36251H	Cover Thread Hook Driving Lever and Shaft	1
22.	22738P	Screw	4
23.	36251J	Link, for ref. no. 21, 25 and 26	2
24.	36251K	Link Pin	4
25.	36251L	Cover Thread Carrier and Hook Driving Segment	1
26.	36251G	Cover Thread Carrier Driving Lever and Shaft	1
27.	36251E	Cover Thread Carrier, for 36220H and 36220E presser foot	1
-	36251W	Cover Thread Carrier, for 36220M, 36220 W presser foot	1
28.	22565A	Screw, for cover thread carrier	1

* When replacing the stationary knife clamp, order the clamp that has the same I. D. mark as the one being replaced.

#See page 50-51 for other presser foot shoes available.



PRESSER FOOT

Ref. No.	Part No.	Description	Amt. Req.
1.	36220X	Presser Foot, complete, for Style 36200UY52	1
-	36220Y	Presser Foot, complete, for Style 36200UY60	1
2.	22-331	Pin	1
3.	36251K	Link Pin, for 5, 6 and 8	4
4.	22738P	Screw	4
5.	36251G	Cross Thread Lever	1
6.	36251J	Driving Lever Link	2
7.	36251L	Driving Segment	1
8.	36251H	Cross Thread Hook Lever	1
9.	36251F	Cross Thread Hook, For 36200UY52	1
-	36251FA	Cross Thread Hook, For 36200UY60	1
10.	22562A	Screw	1
11.	36230AN	Presser Foot	1
12.	94	Screw	1
13.	22716A	Screw	5
14.	36230AP	Plate, Right	1
15.	36230AH	Plate, Left	1
16.	36251E	Cross Thread Carrier, For 36200UY52	1
-	36251W	Cross Thread Carrier, For 36200UY60	1
17.	22565A	Screw	2
18.	150	Screw	1
19.	22731	Screw	1
20.	36279D	Spring, Chip Guard	1
21.	36279C	Chip Guard	1
22.	36250K	Stationary Knife Clamp, .213" (5.14mm) ID Mark "D"	1
-	36250M	Stationary Knife Clamp, .222" (5.64mm) ID Mark "F"	1
-	36250L	Stationary Knife Clamp, .226" (5.74mm) ID Mark "E"	1
23.	36250	Stationary Knife	1
24.	22738G	Screw	1
#25.	36232BD	Presser Foot Shoe, Right	1
#26.	36231BD	Presser Foot Shoe, Left	1
27.	36230D	Shoe Holding Wire	1
28.	36230AQ	Cloth Guide Block	1
29.	36230AJ	Spring, Yielding Section	1
30.	36230AL	Yielding Section	1

#See page 50-51 for other presser foot shoes available.

PRESSER FOOT SHOE CHART

STANDARD PRESSER FEET	
1	36220
2	36220A
3	36220B
4	36220E
5	36220H
6	36220J
7	36220K
8	36220L
9	36220M
10	36220W
11	36220X
12	36220Y

PRESSER FOOT SHOE	RIGHT	LEFT	MATERIAL THICKNESS	
			.014	.020
36231AD		0		0
36232AD	0			0
36231AE		0		0
36232AE	0			0
36231AF		0		0
36232AF	0			0
36231AG		0		0
36232AG	0			0
36231AH		0		0
36232AH	0			0
36231AJ		0		0
36232AJ	0			0
36231AK		0		0
36232AK	0			0
36231AL		0		0
36232AL	0			0
36231AM		0		0
36232AM	0			0
36231AP		0		0
36232AP	0			0
36231AW		0	0	
36232AW	0		0	
36231AY		0	0	
36232AY	0		0	
36231AZ		0	0	
36232AZ	0		0	
36231BA		0	0	
36232BA	0		0	
36231BB		0	0	
36232BB				
36232BD		0	0	
36232BD	0		0	

SELECTING THE PROPER PRESSER FOOT SHOES

THICKNESS OF SHOES

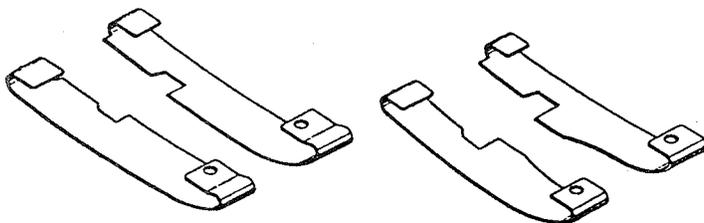
- .014 THICK** Used when sewing lightweight material, when light presser foot pressure is essential.
- .020 THICK** Used when sewing medium to heavyweight material, requiring more foot pressure.

WIDTH OF SHOES

- NARROW SHOES** Used for medium to heavier material.
- WIDE SHOES** Used for light weight material.

LENGTH OF SHOE TOE

- SHORT TOE** Adapts easily to a variety of operations and material.
- EXTENDED TOE** Gives more feeding surface to the front of the presser foot, and may allow the operator to start the seam without raising the presser foot.

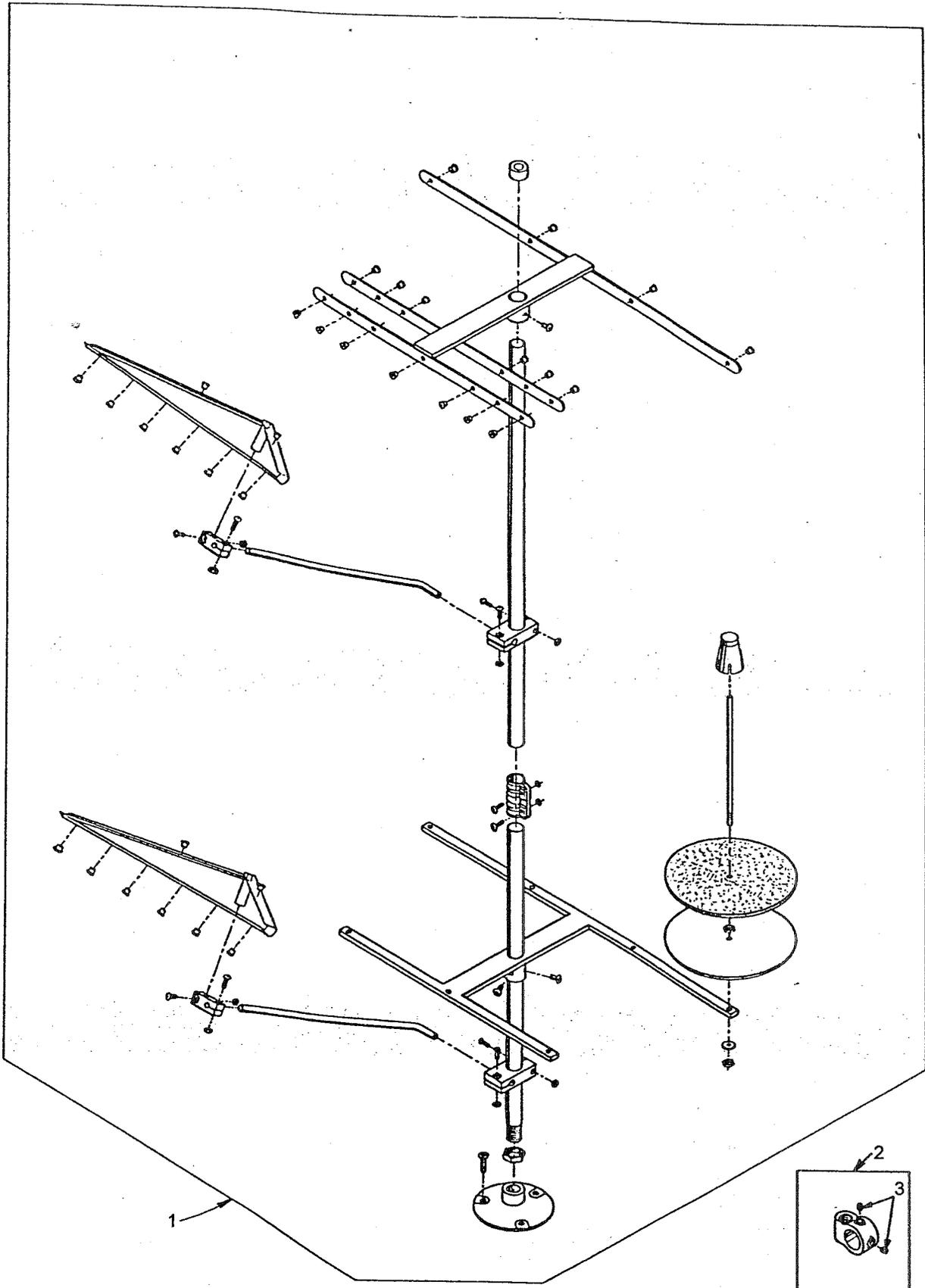


LONG SHOE

SHORT SHOE

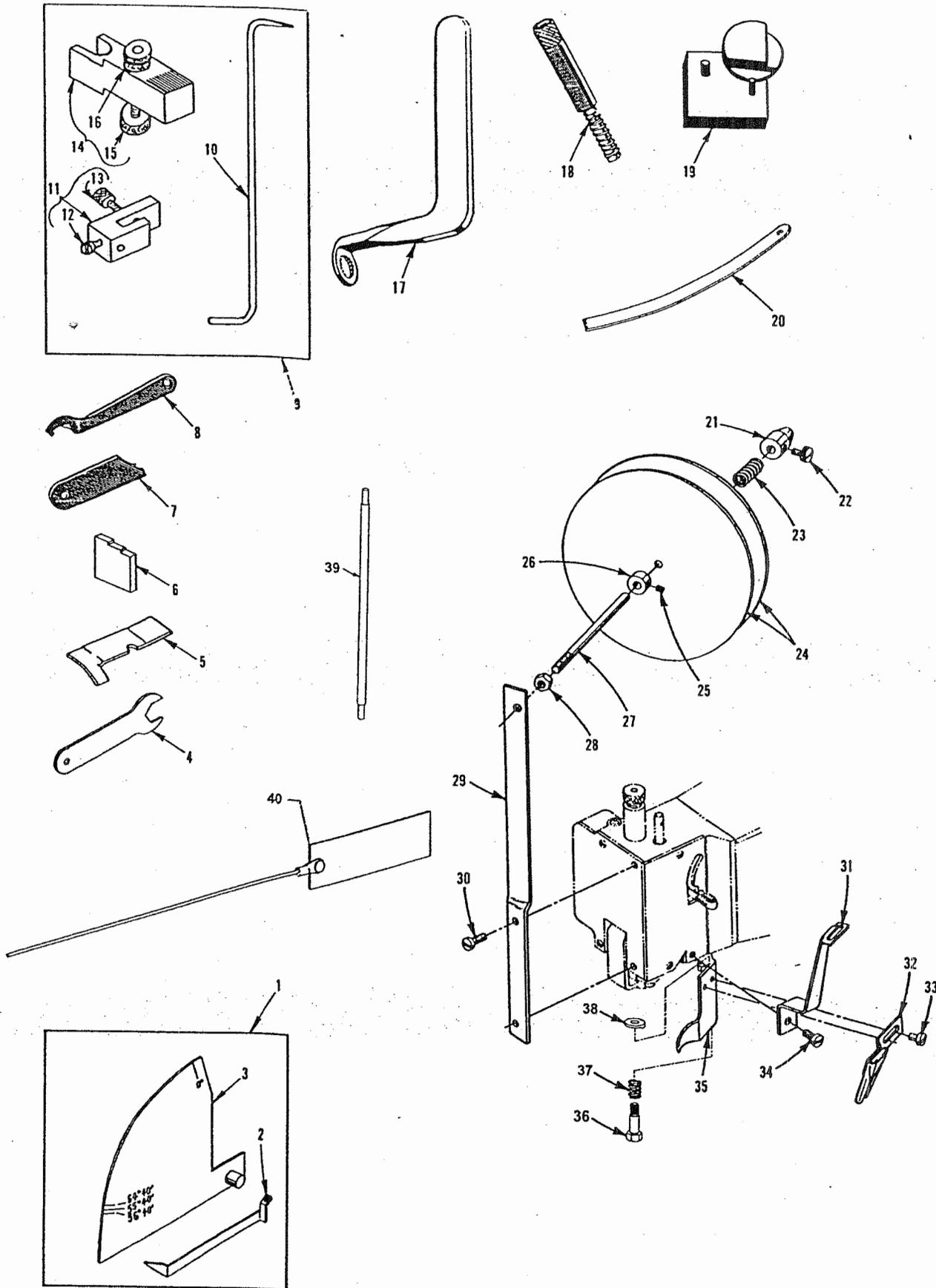
PRESSER FOOT SHOE CHART

SHORT TOE	EXTENDED TOE	SHOE WIDTH	STANDARD ON PRESSER FOOT	CAN ALSO BE USED ON	FURNISHED ON MACH. STYLE	SAME AS
	O	3/8	NONE	1*2*3*6*7*8	NONE	
	O	11/32				
O		13/32 (10.3mm)	NONE	2*3*7*8	NONE	36231BB
O		3/8 (8.8mm)				36232BB
	O	13/32 (10.3mm)	NONE	1*2*3*6*7*8	NONE	
	O	3/8 (9.5mm)				
O		13/32 (10.3mm)	NONE	1*2*3*6*7*8	NONE	
O		3/8 (9.5mm)				
O		11/32 (8.7mm)	NONE	1*3*6*8	NONE	36231AY
O		11/32 (8.7mm)				36232AY
	O	11/32 (8.7mm)	NONE	1*2*3*6*7*8	NONE	36231AZ
	O	11/32 (8.7mm)				36232AZ
	O	1/2 (12.7mm)	NONE	5*9	NONE	36231AW
	O	9/32 (7.1mm)				36232AW
O		13/32 (10.3mm)	NONE	1*2*6*7*8	NONE	36231BA
O		3/8 (9.5mm)				36232BA
	O	1/2 (12.7mm)	36220H	4*9*10	36200UH52	
	O	5/16 (7.9mm)				
	O	1/2 (12.7mm)	36220M	4*5*10	36200UM60	
	O	9/32 (7.1mm)				
	O	1/2 (12.7mm)	36220E 36220W	4*5*9	36200UAE52 36200UE52 36200UE60 36200UJE60	36231AK
	O	9/32 (7.1mm)				36232AK
O		11/32 (8.7mm)	36220A, 36220K, 36220L	1*2*3*6*7	36200UA52 36200UAK52 36200UJ60	36231AH
O		11/32 (8.7mm)				36232AH
	O	11/32 (8.7mm)	NONE	1*2*3*6*7*8	36200UAK52	36231AJ
	O	11/32 (8.7mm)				36232AJ
O		13/32 (10.3mm)	36220B	1*2*6*7*8	36200UX52 36200UX60	36231AL
O		3/8 (9.5mm)				36232AL
O		13/32 (10.3mm)	36220 36220J	2*3*7*8	NONE	36231AE
O		3/8 (9.5mm)				36232AE
O		35/64 (14.1mm)	36220X 36220Y		36200UY52 36200UY60	
O		1/4 (6.35mm)				



THREAD STAND

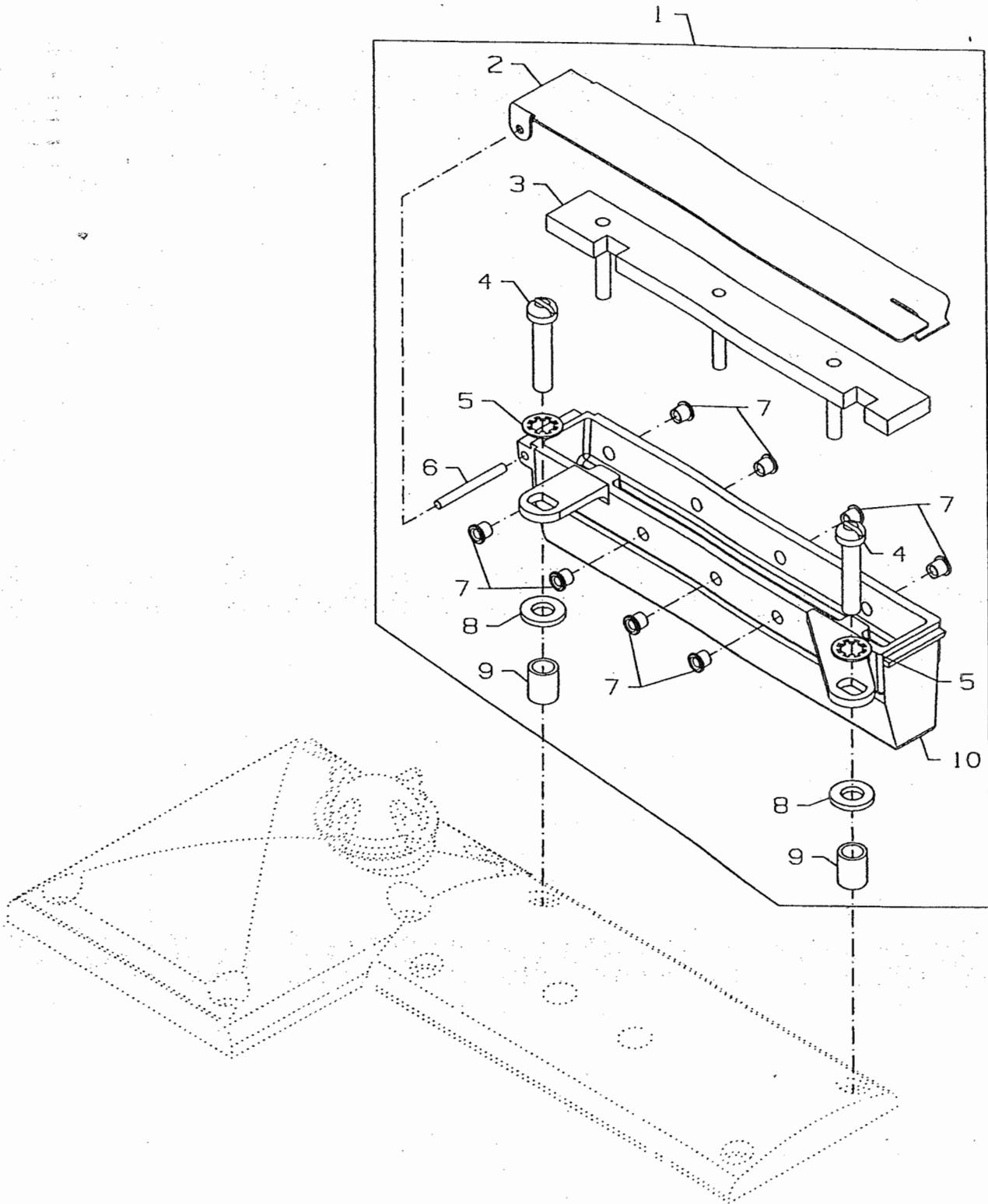
Ref. No.	Part No.	Description	Amt. Req.
1.	21101-S-7	Thread Stand, complete	1
2.	21233AJ	Bracket Connection, marked "AJ", for Style 36200UAK52	1
-	21233KS	Bracket Connection, marked "KS", for all other Styles	1
3.	22651CD-5	Screw, for bracket connection (21233AJ)	4
-	22651CD-5	Screw, for bracket connection (21233KS)	2



MISCELLANEOUS GAUGES & TAPE REEL PARTS

Ref. No.	Part No.	Description	Amt. Req.
1.	21227CN	Looper Travel Gauge, complete	1
2.	21227CM	Looper Travel Gauge Pointer	1
3.	21227CS	Looper Travel Gauge Plate	1
4.	21388AZ	Wrench, for driving link stud	1
5.	21227CU	Looper Alignment Gauge	1
6.	21227BU	Needle Height Gauge, for all Styles except 36200UJ60, UM60, UY60	1
-	21227DS	Needle Height Gauge, for Styles 36200UJ60, UM60, UY60	1
7.	21225F-3/16	Looper Gauge	1
8.	21388Y	Spanner Wrench	1
9.	21227CG	Synchronizing Gauge, for looper and needle timing, complete	1
10.	21227CK	Synchronizing Gauge Rod	1
11.	21227CJ	Looper Clamp and Height Gauge	1
12.	22738	Screw	1
13.	22703A	Screw	1
14.	21227CH	Needle Setting Block	1
15.	14087	Thumbscrew	1
16.	1347A	Nut	1
17.	TT85	Wrench, for 3/16" square nut on screw	1
18.	21227BV	Looper Avoid Gauge	1
19.	21227CV	Cover Thread Hook Gauge	1
*20.	23279D	Folder Threader	1
*21.	753	Adjustable Axle Cone	1
*22.	188D	Screw, for adjustable axle cone	1
*23.	51292F-8	Spring, for tape holder disc	1
*24.	21178	Tape Holder Disc	2
*25.	88	Screw, for collar	1
*26.	161	Collar	1
*27.	21114W	Tape Reel Axle	1
*28.	258A	Nut, for tape reel axle	1
*29.	21171Z	Tape Reel Frame	1
*30.	22729A	Screw, for tape reel frame	2
*31.	21171AA	Tape Guide	1
*32.	23401P-7/16	Tape Folder	1
*33.	357	Screw, for tape folder	2
*34.	28	Screw, for tape guide	1
*35.	36279E	Frame Chip Guard	1
*36.	22777B	Screw, for Frame Chip Guard	1
*37.	36279B	Spring, for Frame Chip Guard	1
*38.	36279A	Washer, for Frame Chip Guard	1
39.	21227AR	Torque Rod, for Needle Head	1
40.	39899A	Threading Wire	1

*Indicates tape holder parts for Styles 36200UX52, UX60



THREAD LUBRICATOR

Ref. No.	Part No.	Description	Amt. Req.
1.	29480AZY	Needle Thread Lubricator Complete	1
2.	35893J	Reservoir Cover	1
3.	666-339	Reservoir Wick	1
4.	22826	Screw	2
5.	660-342	Washer	2
6.	660-219AX	Pin	1
7.	50358M	Eyelet	8
8.	8372A	Washer	2
9.	35874W	Spacer	2
10. ✓	35893K	Reservoir	1
-	28604W	Bottle of Silicone (not shown)	1

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Union Special Corporation
Corporate Office
One Union Special Plaza
Huntley, IL 60142
Phone: 847•669•5101
Fax: 847•669•4454

Union Special GmbH
European Distribution Center
Raiffeisenstrasse 3
D-71696 Möglingen, Germany
Tel: 49•07141•247•0
Fax: 49•07141•247•100

JUKI CORPORATION
INTERNATIONAL SALES DIVISION
8-2-1, KOKURYO - CHO,
CHOFU-SHI, TOKYO 182, JAPAN
PHONE: 03(3430)4001~5
FAX: 03(3430)4909 . 4914 . 4984



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