

CATALOG NO.

143R

First Edition

STYLES

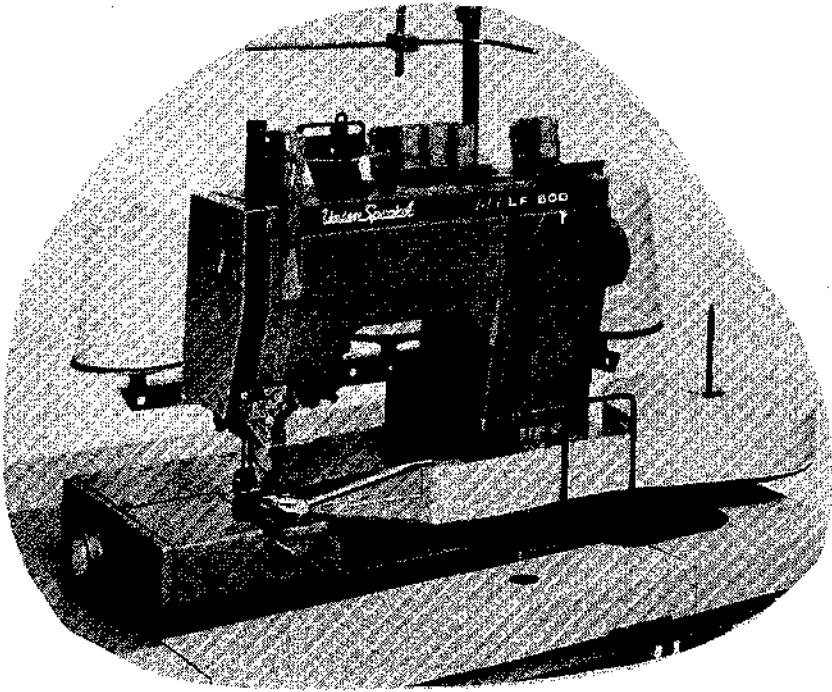
LF632K200MV

LF633K200MM

LF633K200MN

LF633K200MW

Adjusting instructions and illustrated parts list



Two- and three-needle, LF600 "Standard Class"
differential feed, flatbed coverstitch machines.



UnionSpecial®
Industrial Sewing Equipment

FOREWORD

This technical manual has been prepared to guide you in the maintenance of your new UNION SPECIAL machine. Careful attention to the instructions for operating and adjusting these machines will enable you to maintain the superior performance and reliability designed and built into every UNION SPECIAL machine.

The Adjusting Instruction portion of this manual explains in detail the proper setting for each of the components related to forming the stitch and completing the functions of the machine. Figures are used to illustrate the adjustments using reference letters to point out specific items discussed.

Adjustments are presented in sequence so that a logical progression is accomplished. Some adjustments performed out of sequence may have an adverse effect on the function of other related parts.

Implementation of Preventive Maintenance Schedule can bring about significant improvements in operator productivity by avoiding costly equipment breakdowns. Whenever it becomes necessary to make repairs or replace parts on your machine, be sure to insist on genuine UNION SPECIAL Repair Parts. These parts are designed specifically for your machine and manufactured with utmost precision to assure long lasting service.

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

CATALOG NO. 143R

For Styles

LF632K200MV	LF633K200MN
LF633K200MM	LF633K200MW

First Edition

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Each UNION SPECIAL machine is identified by a Style number, which on this machine Class, is stamped into the Style plate affixed to the right front of the machine. The serial number is stamped into the bed casting at the left rear base of the machine.

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

STYLES OF MACHINES

High speed, maximum performance, medium sewing capacity, two or three needle, one looper, spreader, differential feed flat bed machines. Totally enclosed feed and looper drive mechanism, fully automatic forced feed lubricating system with easily replaceable oil filter, thumbscrew adjustable main and differential feeds, independently driven rear needle guard and quick adjustable looper avoid.

- | | |
|-------------|---|
| LF632K200MV | Two needle, four thread, offset differential feed machine for attaching collarettes to knitted undergarments, long length rib knit strip cut perpendicular to the wale or parallel with the wale. Stitch type 602. Standard gauge Nos. 8 and 12. Speeds up to 6000 R.P.M. Stitch range 9 to 16 S.P.I. |
| LF633K200MM | Three needle, five thread, offset differential feed machine for attaching cuffs and crotch seaming operation to knit garments. Stitch type 605. Standard gauge No. 16. Speeds up to 6000 R.P.M. Stitch range 9 to 16 S.P.I. |
| LF633K200MN | Same as Style LF633K200MM except fitted with tandem differential feed. |
| LF633K200MW | Same as Style LF633K200MM except fitted with parts for using a folder to attach split tube borders to knitted undergarments. Stitch range 9 to 12 S.P.I. |

SAFETY RULES



CAUTION!

THIS SYMBOL INDICATES YOUR PERSONAL SAFETY IS INVOLVED
TO PREVENT PERSONAL INJURY:

- All power sources to the machine MUST be TURNED OFF before threading, oiling, adjusting, or replacing parts.
- Wear safety glasses.
- All shields and guards MUST be in position before operating machine.
- DO NOT tamper with safety shields, guards, etc., while machine is in operation.

LUBRICATION

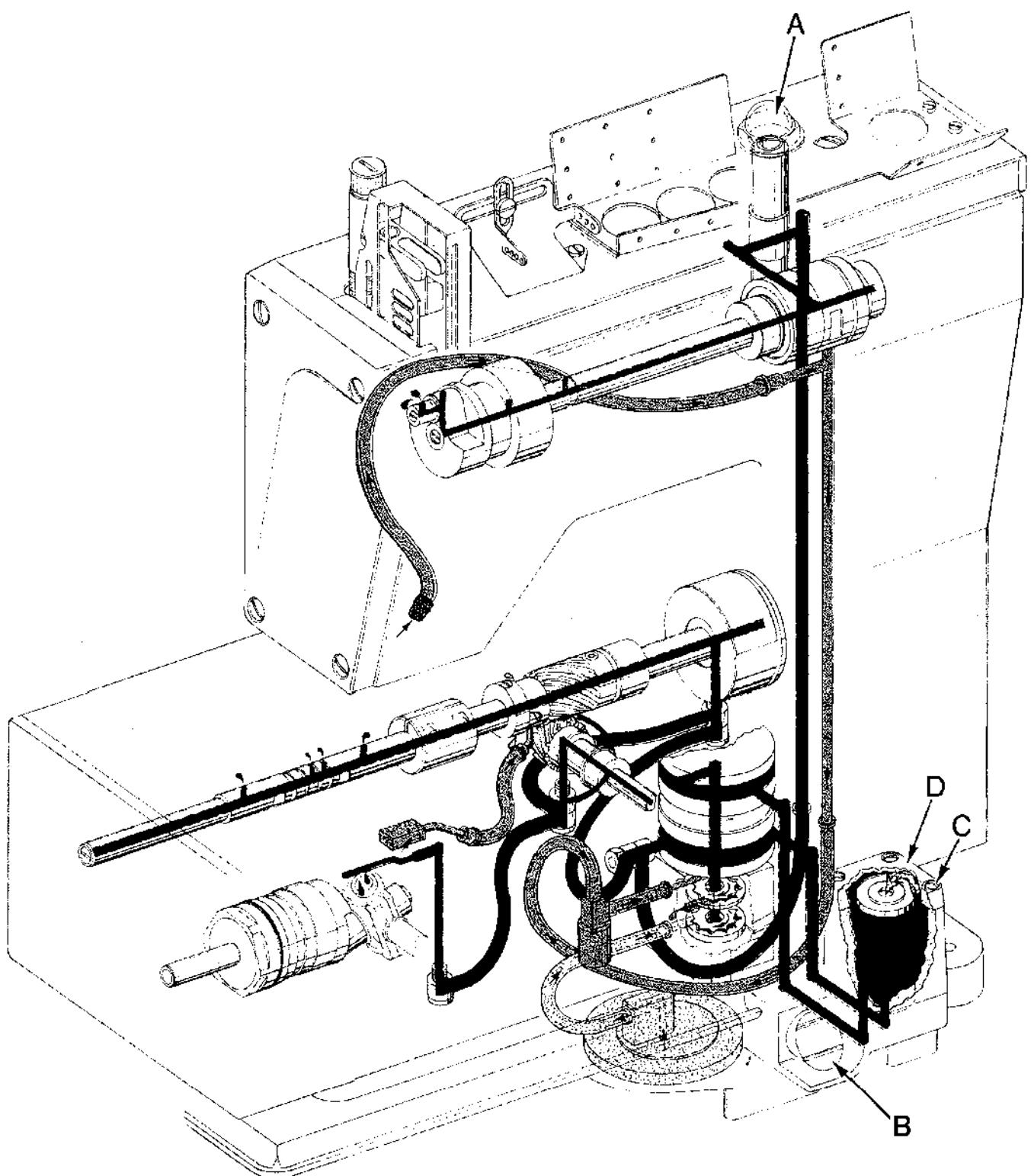
IMPORTANT: Machine must be in a leveled position.

Oil has been drained from main reservoir before shipment. Use a straight mineral oil with a Saybolt viscosity of 90 to 125 seconds at 100 degrees Fahrenheit. This is equivalent to UNION SPECIAL Specification No. 175. Remove oil filler cap (A, Fig. 1) and fill to the TOP line of oil level gauge (B). Replace oil filler cap.

CAUTION! On new machines, machines that have been out of service for an extended period of time OR machines that have been drained of oil and refilled RUN MACHINE SLOWLY at 300 R.P.M. for approximately five minutes while paying strict attention to the oil flow indicator which should rise in the oil filler cap (A) and remain steady while machine is running. This must be noted to ensure that oil flow indicator is functioning and oil is circulating. Check oil level while machine is running which MUST be maintained between the red lines of oil level gauge.

To maintain maximum recommended speed and serviceability of these machines, refer to General Preventive Maintenance Schedule. Under no circumstances, should oil remain in the machine for more than one year. Oil drain plug is located in bottom of oil pan. ALWAYS change oil filter when oil is changed. At this time, evaluate the contaminated condition of the oil to determine if the oil filter should be changed more or less frequently. To replace filter, remove four screws (C, Fig. 1) and cover (D); lift out filter cartridge. REMOVE (brass) BY-PASS VALVE FROM TOP OF OLD FILTER AND INSTALL IN NEW FILTER. Reassemble in reverse manner.

LUBRICATION DIAGRAM



PRESSURE OIL



SIPHON RETURN



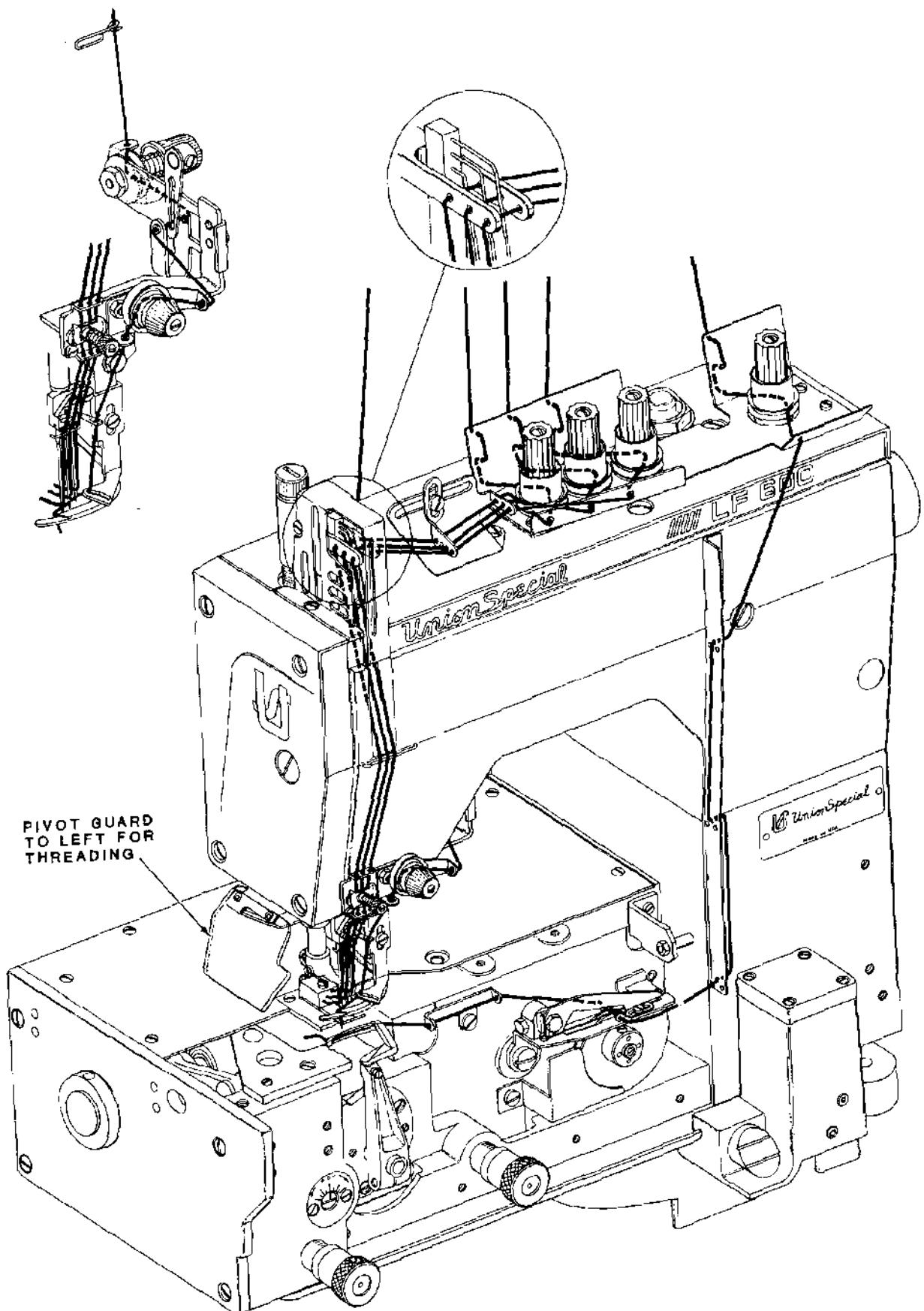
INLET



FILTER BY-PASS

P100A

Fig. 1



NEEDLES

Each needle has both a type and size number. Type number denotes the kind of shank, point, length, groove, finish, and other details. Size number, stamped on the needle shank in metric, denotes largest diameter of blade, measured midway between shank and eye. Collectively, type and size number represent the complete symbol, which is given on the label of all needles packaged and sold by UNION SPECIAL CORPORATION.

Standard recommended needle for machines covered is Type 128 GBS, Size 75/029. Below is the description and sizes available:

<u>NEEDLE TYPE</u>	<u>DESCRIPTION</u>	<u>SIZE AVAILABLE</u>
128 GBS	Round shank, round point, short, double groove, struck groove, ball eye, spotted, ball point, chromium plated.	65/025, 70/027, 75/029, 80/032, 90/036, 100/040.

To have needle orders promptly and accurately filled, an empty package, a sample needle, or the type and size number should be forwarded. Use description on label. A complete order would read "1000 needles, Type 128 GBS, Size 75/029".

The following instructions explain in detail the proper setting for each of the components related to forming the stitch and completing the functions of the machine.

Adjustments are presented in sequence so that a logical progression is accomplished. Some adjustments performed out of sequence may have an adverse effect on the function of other related parts.

THREAD MACHINE AS ILLUSTRATED.

TIMING FEED TO NEEDLE

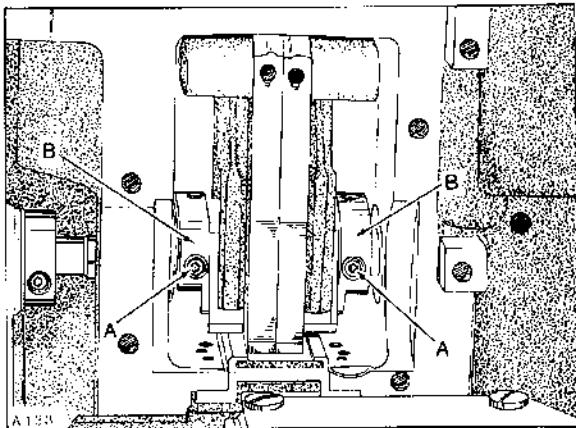


Fig. 2

Adjustment would be required if the machine is feeding while the needles are in the work. This can be accomplished by removing top cover, head cover, left cloth plate, and top feed chamber cover. Rotate handwheel in operating direction to position needle bar at bottom of stroke. At this time, the first screws (A, Fig. 2) in the feed drive eccentrics (B) must be on the flat of the feed drive shaft and in a vertical position. Adjustment can be made by loosening two screws (A, Fig. 3) in upper mainshaft sprocket (B). Hold the handwheel firmly with needle bar at bottom of stroke and rotate pulley as required to position screws (A, Fig. 2) so they are vertical. Tighten screws (A, Fig. 3) securely.

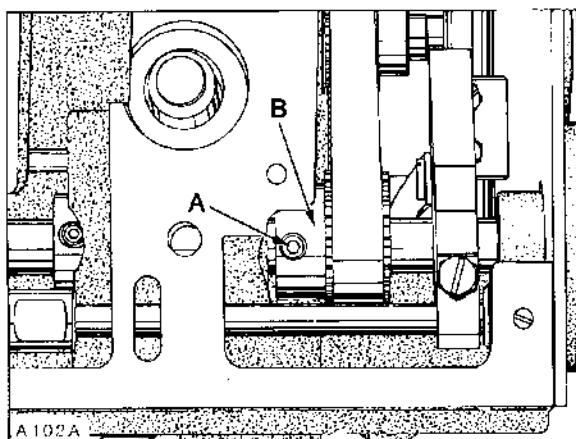


Fig. 3

SYNCHRONIZING LOOPER AND NEEDLE MOTIONS

NOTE: End cover has been removed for clarity in Figure 4, but MUST BE IN POSITION WHILE MAKING THE FOLLOWING ADJUSTMENTS.

Looper drive belt (A, Fig. 4) has proper tension if, when turning handwheel in operating direction to position looper in the center of its (right to left) travel ... there is no noticeable (right to left) play in the looper mechanism. There should be approximately 1/8 inch (3.2mm) deflection in looper drive belt when pressing firmly with thumb, midway between sprockets (B and C). Adjustment can be made by loosening two screws (A, Fig. 5) and turn looper module (D, Fig. 4) counterclockwise to tighten belt or clockwise to loosen, as viewed in Figure 4. Retighten screws (A, Fig. 5).

To synchronize machine, remove needle bar eyelet guard, needle thread take-up wire holder, needles, presser foot, throat plate, looper, and feed dogs. Turn handwheel to position needle bar at BOTTOM of stroke and looper holder at EXTREME right end of travel.

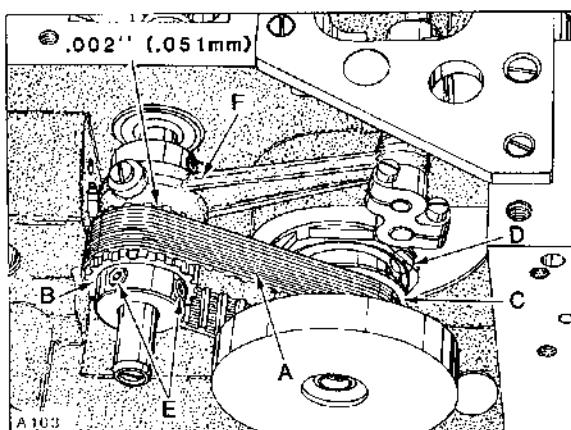


Fig. 4

SYCHRONIZING LOOPER AND NEEDLE MOTIONS (Continued)

Using gauge No. 21227 R, mount gauge plate with throat plate attaching screws. Insert pin (included with gauge) into looper holder. Mount indicator block to machine head with one of the screws removed from needle bar eyelet guard. Insert shank of indicator gauge into indicator block and tighten screw against shank. See Sketch A for reference. Rotate handwheel in OPERATING direction until the pin in looper holder contacts gauge plate. Loosen screw (A, Fig. 6) in needle bar connection (B) and position needle bar (C) as required to set the pointer of indicator gauge at "0" and tighten screw (A) VERY LIGHTLY.

NOTE: This screw is specifically tightened to ONLY 10 - 12 in-lbs (12 - 14 cm/kg).

Rotate handwheel in REVERSE direction until pin in looper holder again makes contact with gauge plate and note the reading on the gauge. A variation of (1) graduation on the scale is permissible. If the reading is above "0", loosen screws (E, Fig. 4) and turn rear looper drive sprocket (B) towards the operator (clockwise as viewed in Figure 4). If the reading is below "0", turn sprocket away from operator (counterclockwise as viewed in Figure 4). Temporarily snug screws.

Rotate handwheel in OPERATING direction until pin in looper holder contacts gauge plate and note the reading on scale. If the reading is above "0", loosen screws (E) and turn sprocket (B) away from operator (counterclockwise as viewed in Figure 4). If the reading is below "0", turn sprocket towards the operator (clockwise as viewed in Figure 4). Temporarily snug screws.

Continue to check and adjust in both OPERATING and REVERSE directions until pointer of indicator gauge comes within (1) graduation on the scale when turning the handwheel in either direction. Before tightening screws (E) securely, be sure to have .002 inch (.051mm) clearance between sprocket (B) and needle guard drive connecting rod (F).

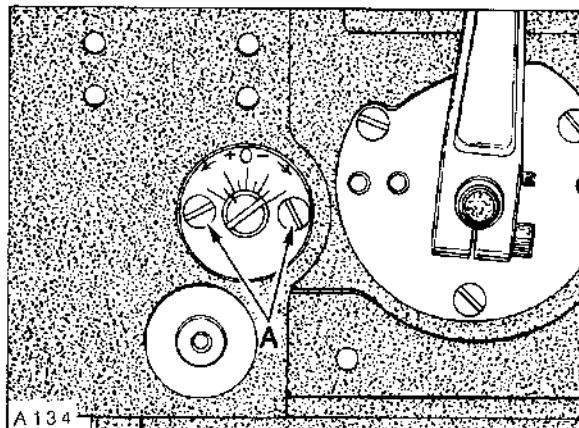
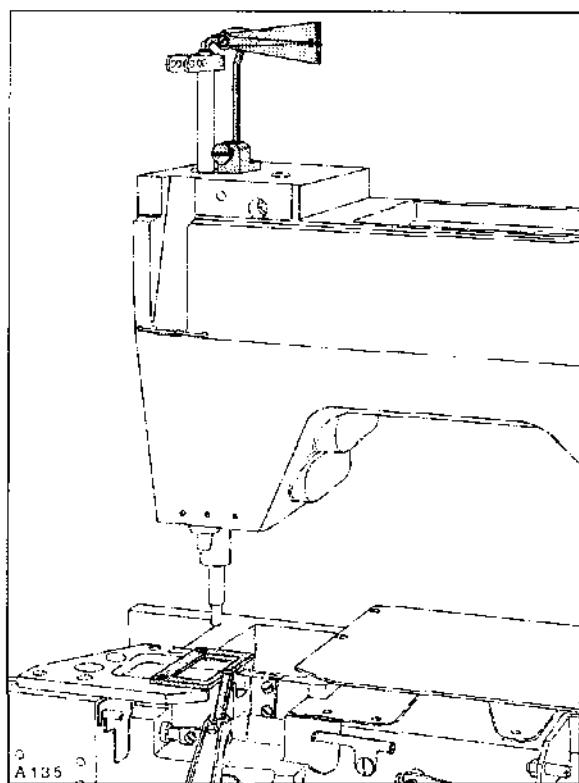


Fig. 5



Sketch A

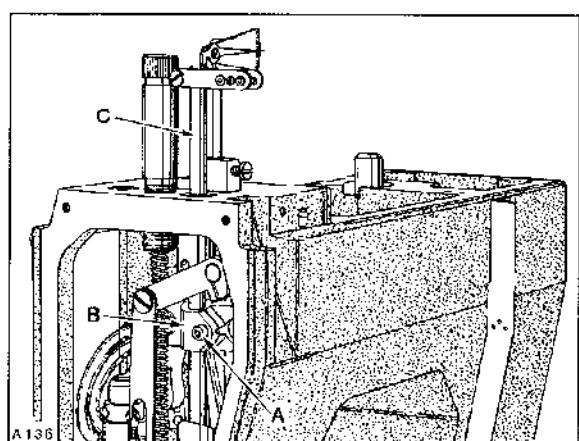
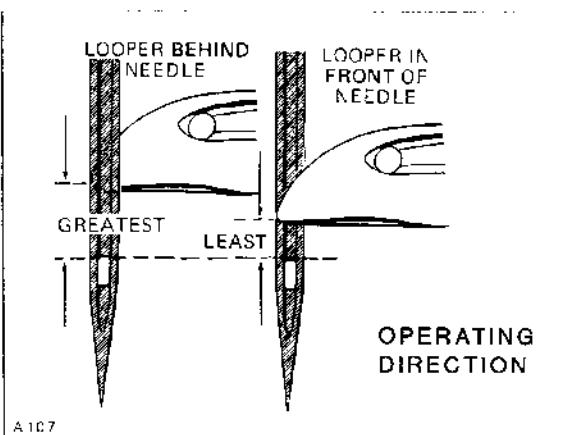


Fig. 6

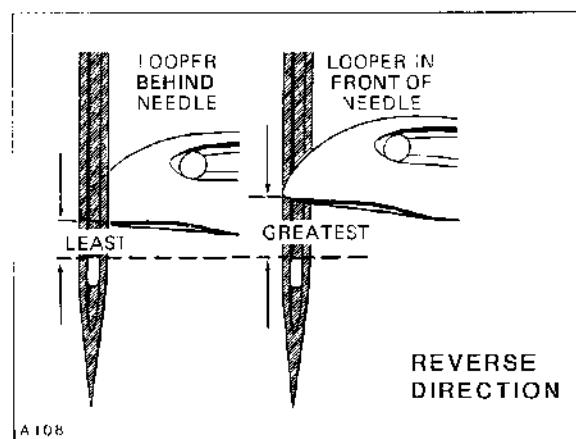
SYNCHRONIZING LOOPER AND NEEDLE MOTIONS (Continued)



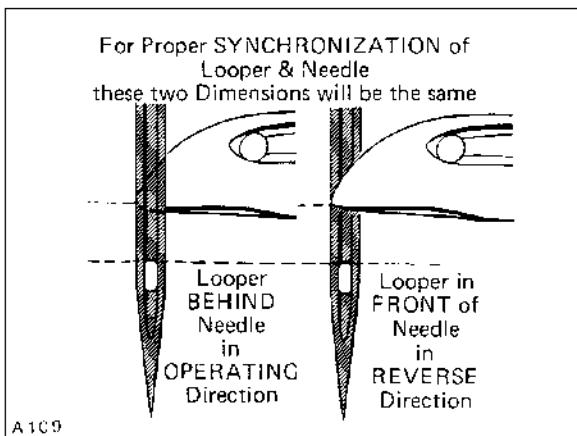
Sketch B

side of RIGHT needle and check the distance from the eye of needle to the bottom of looper blade. If the distance was greater when handwheel was turned in operating direction, as shown in Sketch B, loosen screws (E, Fig. 4) and turn rear looper drive sprocket (B) away from operator

If a synchronizing gauge is not available ... turn the handwheel in operating direction to position looper point even with the left side of RIGHT needle and check the distance from the eye of needle to the bottom of looper blade. Turn handwheel in reverse direction to position looper point even with the left



Sketch C



Sketch D

directions until the distance from the eye of the right needle to the bottom of looper blade is the same in either direction, as shown in Sketch D. Before tightening screws (E, Fig. 4) securely, be sure to have .002 inch (.051mm) clearance between sprocket (B) and needle guard drive connecting rod (F).

(counterclockwise as viewed in Figure 4). If the distance was greater when handwheel was turned in reverse direction, as viewed in Sketch C, turn sprocket towards the operator (clockwise as shown in Figure 4). Temporarily snug screws. Continue to check and adjust in both OPERATING and REVERSE

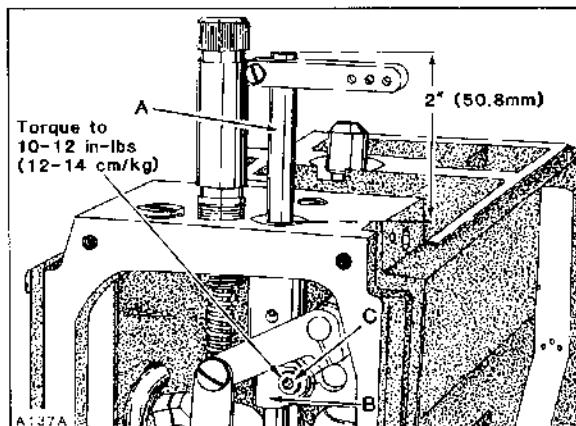


Fig. 7

NEEDLE BAR ALIGNMENT

Insert a new set of needles. As a temporary setting, the TOP of needle bar (A, Fig. 7) should be approximately 2 inches (50.8mm) from the TOP of upper needle bar bushing when needle bar connection (B) is positioned at TOP of STROKE as shown in Figure 7. Adjustment can be made by loosening screw (C), reposition needle bar up or down as required and tighten screw (C) VERY LIGHTLY 10 - 12 in-lbs (12 - 14 cm/kg) maximum torque. Rotate handwheel to ensure that needles center in the needle holes of throat plate as shown in Figure 8. Adjustment can be made by loosening screw (C, Fig. 7) slightly, allowing needle bar to be rotated as required, while being careful to maintain the temporary height setting and tighten screw (C) AS SPECIFIED. An additional 4-way directional adjustment of the throat plate can be accomplished as follows:

IMPORTANT: Adjustment of throat plate must be coordinated between needles and feed dogs; refer to "FEED DOG SETTINGS". Loosen two screws (A, Fig. 8) in throat plate support (B). Loosen two screws (C) which secure locating ferrules, allowing the throat plate support to be repositioned slightly. Tighten screws (C) first, then screws (A).

CAUTION! Needle bar has a special coating. DO NOT wedge or pry with any type of tool, as damage to same may result. Should needle head require assembling to needle bar, TORQUE 14 - 16 in-lbs (16 - 18 cm/kg).

LOOPER SETTINGS

If not previously done, insert a new set of needles. With looper at EXTREME right end of travel, distance from centerline of RIGHT needle to point of looper should be dimension ("A", Fig. 9); see CHART. Adjustment can be made by loosening screw (B) and turn screw (C) clockwise to increase looper gauge or counterclockwise to decrease. Apply pressure against upper portion of looper holder (D) to the left while making this adjustment and locking with screw (B). Applicable looper gauge can be used advantageously in making this adjustment. Looper must also be set so, as it travels to the left behind the needles, NOT to contact, but with a clearance of .002 - .004 inch (.051 - .102mm).

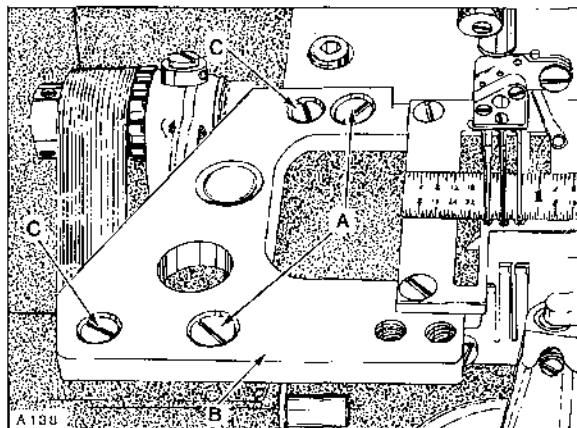


Fig. 8

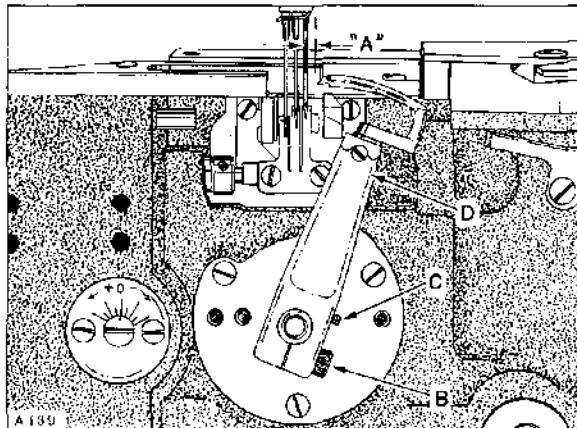


Fig. 9

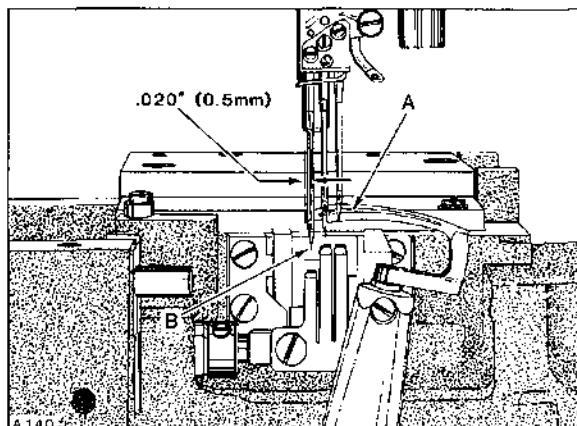


Fig. 10

LOOPER SETTINGS (Continued)

Adjustment can be made by loosening screw (B) allowing looper holder (D) to be moved forward or rearward on its shaft, as required. Apply pressure against upper portion of looper holder to the left while tightening screw (B).

MACHINE STYLE	DIMENSION "A" FIG. 9	LOOPER GAUGE NO.
LF632K200MV-8	5/32 inch (4.0mm)	21225-5/32
LF632K200MV-12	9/64 inch (3.6mm)	21225-9/64
LF633K200MM-16	1/8 inch (3.2mm)	21225-1/8
LF633K200MN-16	1/8 inch (3.2mm)	21225-1/8
LF633K200MW-16	1/8 inch (3.2mm)	21225-1/8

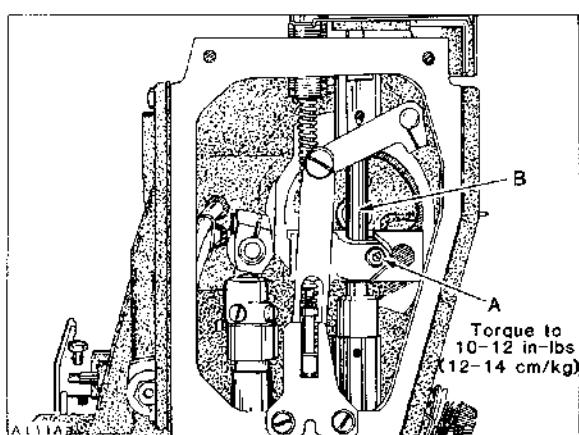


Fig. 11

NEEDLE BAR HEIGHT

Needle bar height is set correctly when the point of looper (A, Fig. 10) moving from right to left, is .020 inch (0.5mm) to the LEFT side of the LEFT needle (B) with its underside even with the TOP of needle eye. Adjustment can be made by loosening screw (A, Fig. 11) and move needle bar (B) up or down as required. TORQUE screw (A) to 10 - 12 in-lbs (11.5 - 14 cm/kg).

IMPORTANT: Care must be taken not to disturb ALIGNMENT of needle bar while making this adjustment.

CAUTION! Needle bar has a special coating. DO NOT wedge or pry with any type of tool, as damage to same may result.

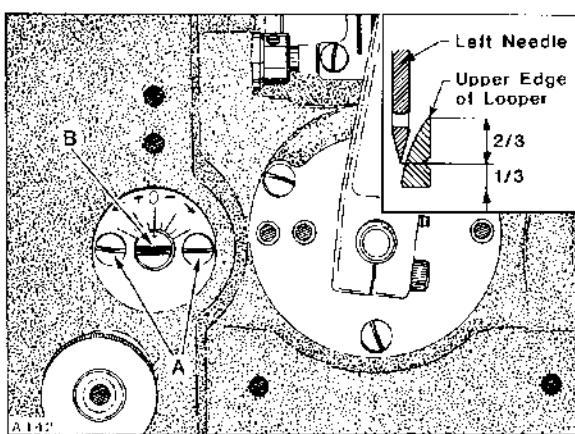


Fig. 12

LOOPER AVOID

Machine is equipped with a quick adjustable looper avoid mechanism to accommodate extreme differences in needle sizes. As the looper travels from left to right with the needle bar descending, the LEFT needle should contact ONLY the lower THIRD of the back of looper blade. Adjustment can be made by loosening two screws (A, Fig. 12) and turn eccentric stud (B) towards the plus side (counterclockwise) for MORE looper avoid or towards the minus side (clockwise) for LESS. When properly set, tighten screws (A).

NOTE: Whenever looper avoid is changed, always recheck "LOOPER SETTINGS".

REAR NEEDLE GUARD TIMING AND ADJUSTMENT

As the looper travels from right to left, position looper point midway between the right and center needles as shown at ("A", Fig. 13) for 16 GAUGE machines. For 8 and 12 GAUGE machines, position looper point even with the right side of right needle. At this time the rear needle guard (B) should be at EXTREME end of forward travel.

Adjustment can be made by loosening two screws (A, Fig. 14) and rotate needle guard eccentric (B) slightly as required until this condition exists. Check to ensure .002 inch (.051mm) clearance between needle guard eccentric (B) and looper drive sprocket (C) while tightening screws (A) securely.

Needle guard should be positioned (left to right) so the needles center in the width of their guarding surfaces.

Adjust by loosening collar screw (D) and pivot link screw (E) permitting guarding surface to be centered to needles. Position collar against needle guard shaft bushing and tighten screw (D) securely. Rotate guard as required to obtain .002 inch (.051mm) clearance between guarding surface and needles. Take up thrust by exerting pressure against collar to the left and pivot link to the right while tightening pivot link screw (E) securely.

As the looper travels from right to left, position its point even with the right side of right needle. At this time, the height of needle guard (A, Fig. 15) should be positioned so the lower edge of its guarding surface (B) is even with the TIP of RIGHT needle (C).

Adjust by loosening two screws (D), reposition as required, being CAREFUL to keep the width of guarding surfaces CENTERED to needles while tightening screws (D).

NOTE: Needle guards can be bent slightly (individually) front to back, if required.

IMPORTANT: Change in stitch length WILL NOT require change in needle guard setting, but a change of needle SIZE, may.

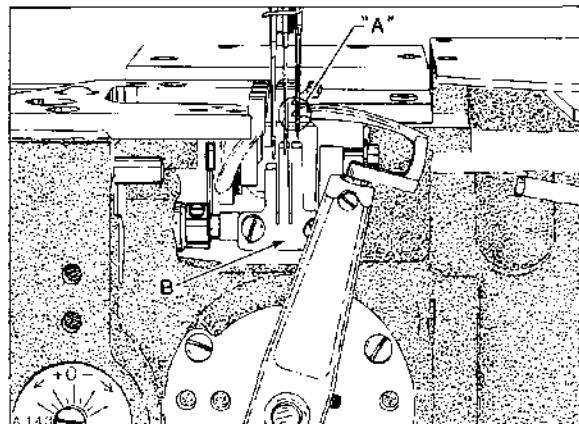


Fig. 13

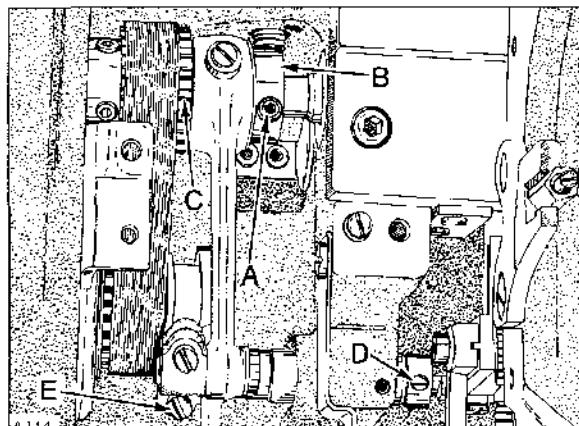


Fig. 14

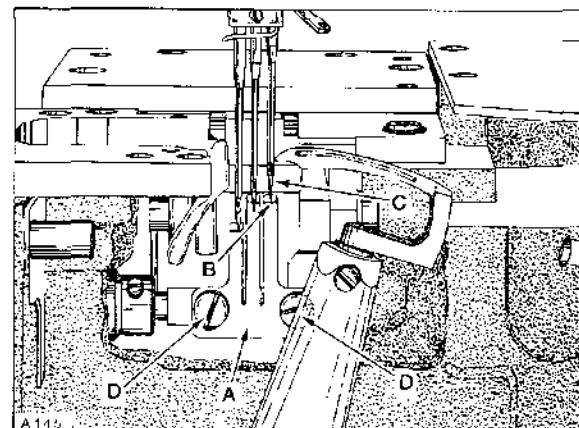


Fig. 15

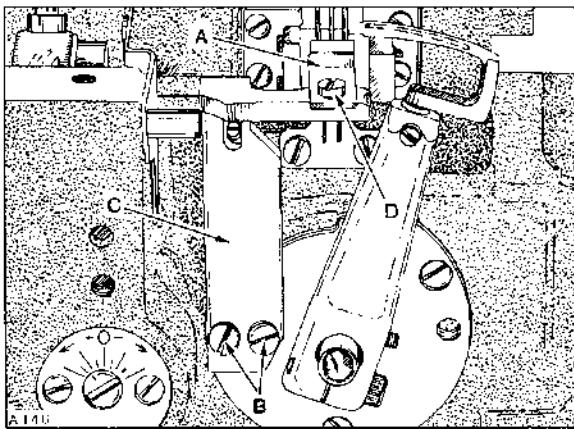


Fig. 16

FRONT NEEDLE GUARD

Front needle guard (A, Fig. 16) is magnetized and must be positioned vertically to provide ample clearance on all sides of the INNER CONTOUR of looper when looper is at extreme left and right end of travel. With looper even with the right side of RIGHT needle, needle guard should be set to barely contact the needles.

Adjustments can be made by loosening two screws (B) to reposition bracket (C) as required....retighten screws. Loosen screw (D) allowing needle guard (A) to be moved towards or away from needles as required....retighten screw.

FEED DOG SETTINGS

Feed dogs should be centered in throat plate with equal clearance on both sides and ends. Feed dogs should be level with and parallel to the top of throat plate as they begin to rise. Feed dogs should be set to protrude the depth of a full tooth or approximately $\frac{3}{64}$ inch (1.2mm) above throat plate, at highest point of travel.

A slight 4-way directional adjustment of the throat plate can be accomplished by loosening two screws (A, Fig. 17) in throat plate support (B). Loosen two screws (C) which secure locating ferrules, permitting movement of throat plate support. Reposition as required, considering BOTH the needle holes and feed dog slots in throat plate. Tighten screws (C) FIRST, then screws (A). Under EXTREME conditions, a very slight (right to left) adjustment of feed dogs can be acquired by loosening their respective feed dog holder screws....RETIGHTEN.

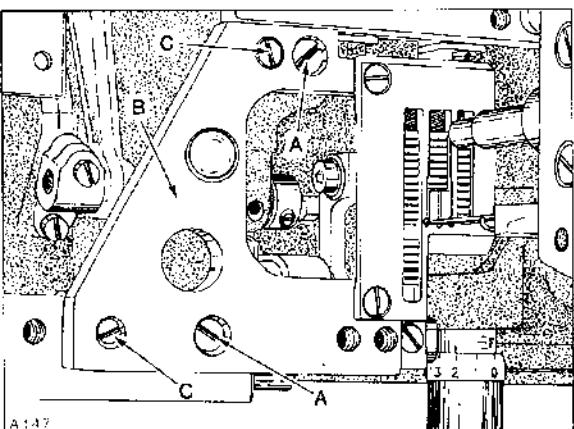


Fig. 17

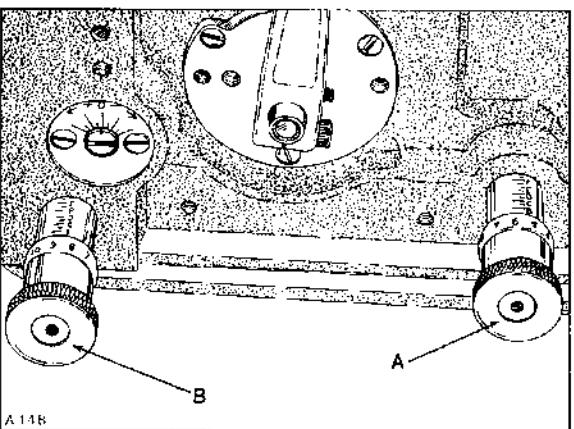


Fig. 18

Should (front to rear) adjustment be required, remove the rear feed chamber cover which is secured by four screws. Turn the main feed (stitch regulating) knob (A, Fig. 18) counterclockwise while simultaneously ROTATING HANDWHEEL IN OPERATING DIRECTION to obtain maximum travel. NOTE: Collar (A, Fig. 19) may have to be loosened at the rear of bed casting on the main feed stitch regulating shaft. Centralize movement of main feed dog by loosening Allen screw (A, Fig. 20) and turn eccentric (B) as required.

FEED DOG SETTINGS (Continued)

Coordinate these adjustments to obtain maximum travel and equal clearance at both ends of throat plate. Tighten Allen screw (A) TEMPORARILY.

Loosen screw (C, Fig. 20) and rotate feed rocker tilting shaft (B, Fig. 19) slightly as required while ROTATING HANDWHEEL IN OPERATING DIRECTION to attain maximum forward travel of feed dogs, yet FLUSH with the top of throat plate as they first appear. COORDINATE this adjustment with those described in preceding paragraph. Apply a slight pressure against feed rocker tilting shaft (B) to ensure no BIND or SHAKE at the rear ENDS of feed bars while tightening screw (C, Fig. 20) securely. Tighten Allen screw (A) securely and collar (A, Fig. 19) on the main feed stitch regulating shaft against the bed casting. Turn main feed regulator knob (A, Fig. 18) clockwise for shortest stitch length.

Adjust differential feed dog (front to rear) in the same manner as main feed dog by loosening collar (C, Fig. 19) and turning differential feed knob (B, Fig. 18). Loosening Allen screw (D, Fig. 20) and turning eccentric (E).

NOTE: Adjustment of differential feed dog should not require resetting of feed rocker tilting shaft (B, Fig. 19).

CAUTION! While adjusting for maximum and centralized feed travel, continually check clearance between main feed dog and throat plate.

Tighten (stop) collar (C, Fig. 19) against bed casting and tighten Allen screw (D, Fig. 20) securely. With feed travel set to desired stitch length, set height of main feed dog (A, Fig. 21) as specified by loosening its mounting screw (B) to position as required. Feed dog supporting screw (C), located in feed dog holder should be adjusted as required to support feed dog before tightening screw (B) securely. Height of differential feed dog (A, Fig. 22) can be set by loosening its mounting screw (B) to position as required. Tighten screw (B) securely.

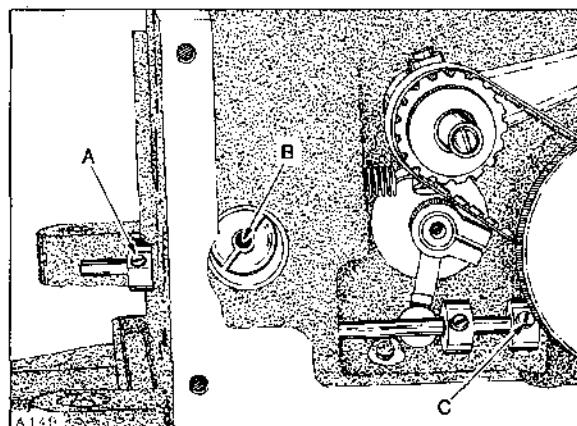


Fig. 19

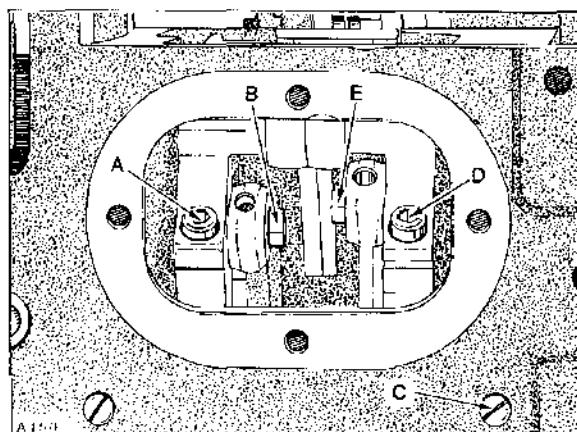


Fig. 20

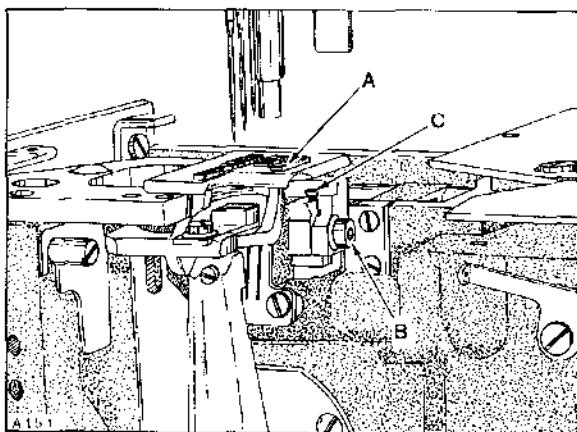


Fig. 21

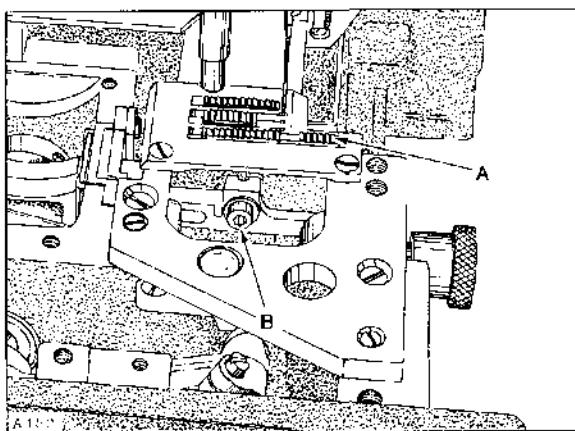


Fig. 22

CHANGING STITCH LENGTH

Stitch length is controlled by the distance main feed travels with its teeth protruding above the throat plate, which can be changed by turning stitch regulating knob (A, Fig. 18) clockwise to shorten the stitch or counterclockwise to lengthen same.

Differential feed travel is controlled independently from main feed travel by turning differential ratio feed knob (B, Fig. 18) clockwise to gather or counterclockwise to stretch the material between feed dogs.

NOTE: Adjustments were performed under "FEED DOG SETTINGS".

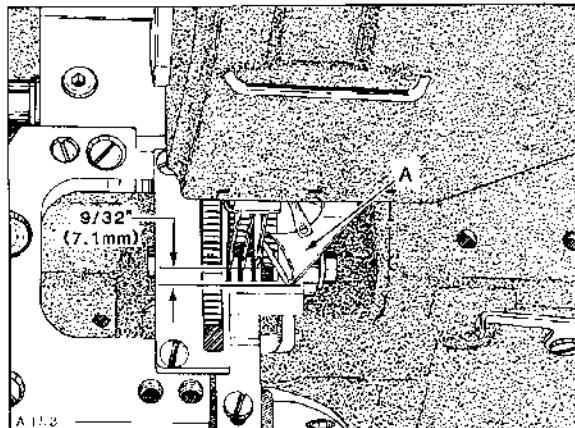


Fig. 23

SPREADER AND RELATED PARTS

Stationary spreader thread guide (A, Fig. 23) should be positioned with its outer front edge $9/32$ inch (7.1mm) to the front of the centerline of right needle. The left rear edge of the (banana shaped) SLOT in guide (A), should be positioned $1/16$ inch (1.6mm) to the right of the centerline of right needle, as shown in Figure 24. Front to rear adjustment can be made by loosening screw (A, Fig. 25) while left to right adjustment can be made by loosening screw (B). When stationary spreader thread guide is properly set, tighten screws (A and B) securely.

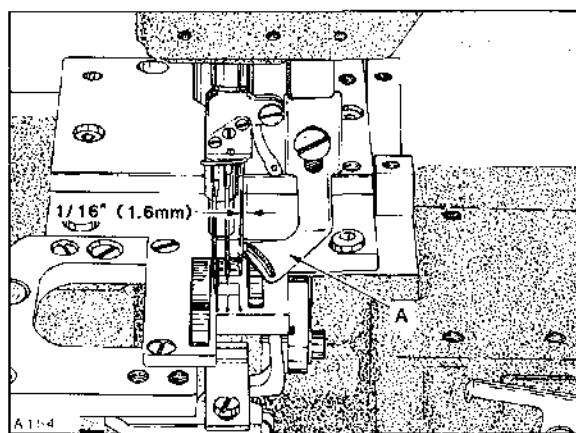


Fig. 24

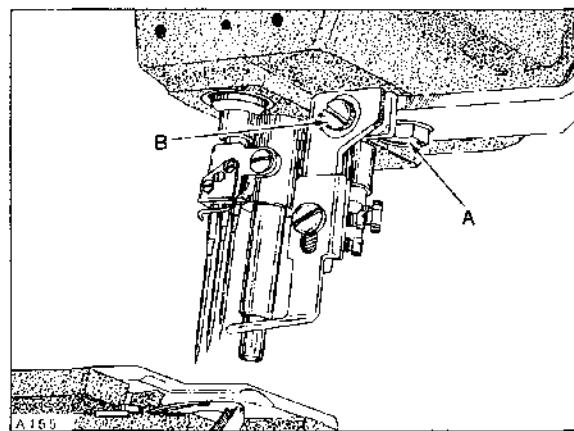


Fig. 25

SPREADER AND RELATED PARTS (Continued)

With needle bar at TOP of stroke, height of stationary spreader thread guide should be positioned with its UNDERSIDE PORTION (laterally in line with needles) $1/64$ inch (0.4mm) below the TIP OF RIGHT needle as shown in Figure 26. Adjustment can be made by loosening screw (A), reposition as required...

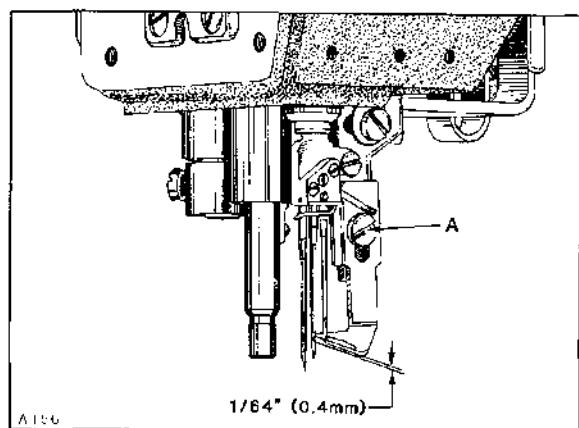


Fig. 26

IMPORTANT: Care must be taken to maintain the $1/16$ inch (1.6mm) dimension between the left rear edge of SLOT in stationary spreader thread guide to centerline of right needle, while tightening screw (A) securely.

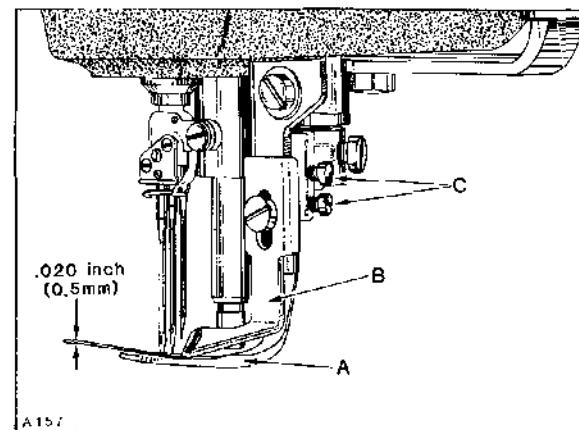


Fig. 27

While rotating handwheel in operating direction, spreader should be TIMED so it begins to move from extreme left position to the right as needle bar descends $1/16$ inch (1.6mm) from TOP of stroke. Adjustment can be made by removing top cover, loosen two screws (A, Fig. 28) in hub of spreader drive eccentric (B), advance or retard eccentric on shaft (C) as required. When proper timing is obtained, position eccentric on its shaft (left to right) so as to ensure that spreader connecting rod (D) has MAXIMUM and CENTRALIZED SHAKE (left to right) while tightening screws (A) securely.

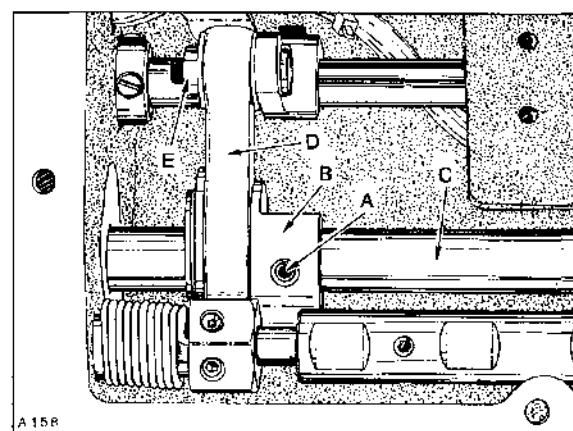


Fig. 28

SPREADER AND RELATED PARTS (Continued)

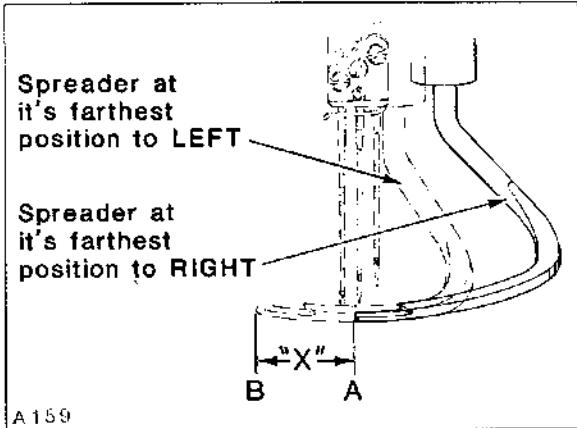


Fig. 29

Spreader travel ("X", Fig. 29) is measured by placing a scale between the two extreme spreader arc travel points (not considering the arc), as shown between points (A and B). See chart for specified dimensions. Adjustment can be made by loosening nut (E, Fig. 28), move connecting rod (D) upward to shorten spreader travel or downward to lengthen spreader travel. After specified length of travel is obtained, tighten nut (E) securely.

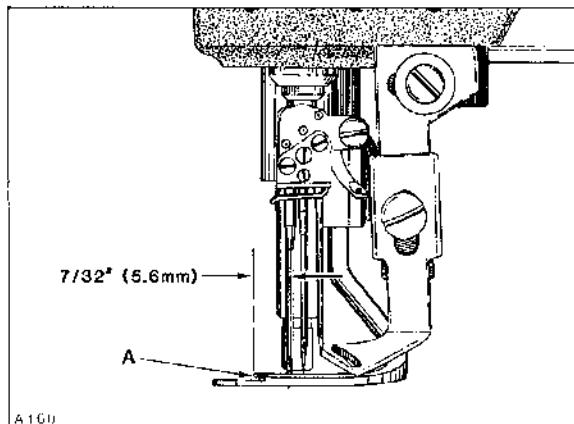


Fig. 30

MACHINE STYLES	SPREADER TRAVEL "X"
LF632K200MV-8	33/64 inch (13.1mm)
LF632K200MV-12	37/64 inch (14.7mm)
LF633K200MM-16	5/8 inch (15.9mm)
LF633K200MN-16	5/8 inch (15.9mm)
LF633K200MW-16	5/8 inch (15.9mm)

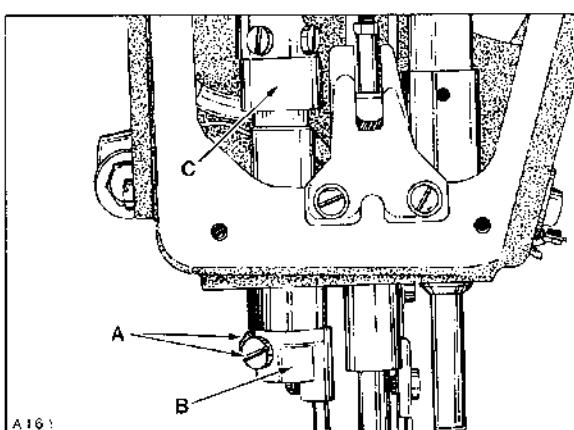


Fig. 31

With spreader at extreme LEFT end of travel the TIP of thread carrying notch (A, Fig. 30) should be 7/32 inch (5.6mm) to the left of the centerline of LEFT needle. Adjustment can be made by loosening two screws (A, Fig. 31) allowing spreader holder (B) to be rotated on its shaft to attain dimension shown in Figure 30.

IMPORTANT: Take up thrust between spreader holder shaft lever (C, Fig. 31) and spreader holder (B) while tightening screws (A) securely. Recheck spreader height.

SPREADER AND RELATED PARTS (Continued)

With needle bar at BOTTOM of stroke, spreader thread eyelet (A, Fig. 32) should clear stationary spreader thread guide (B) by approximately $1/32$ inch (0.8mm) and aligned as close as possible with the center of the SLOT in same. If adjustment is required, care must be taken NOT to disturb alignment of needle bar. Loosening screw (C) which allows a 4-way directional movement of eyelet (A). Retighten screw (C).

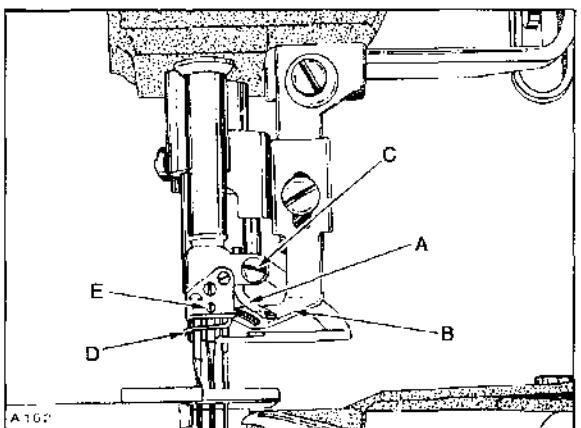


Fig. 32

Needle thread guide wire (D) should be centered around the needles and as close as possible to same without pinching the threads. Adjustment can be made by loosening screw (E), reposition as required and retighten screw.

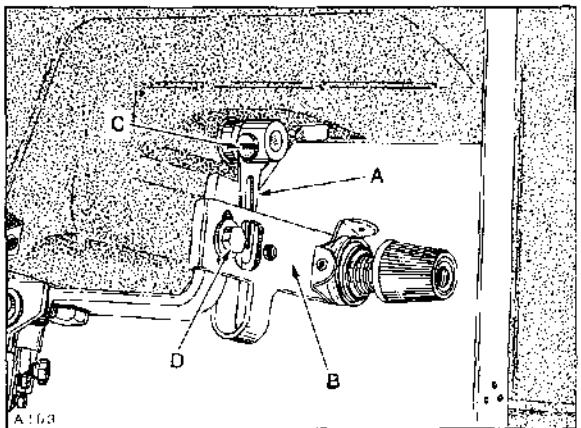


Fig. 33

Spreader thread take-up (A, Fig. 33) should be centered (left to right) between eyelet inserts in tension bracket (B). It should also be positioned to travel approximately equal distance (front to rear) of eyelets. Adjustment can be made by loosening screw (C), reposition take-up (A) as required and retighten screw (C) securely.

More or less thread can be supplied in the system by loosening screw (D) and move bracket (B) downward for more thread or upward for less thread. Retighten screw (D) securely.

PRESSER BAR AND PRESSER FOOT

With needle bar at bottom of stroke and presser foot resting squarely on throat plate, there should be a minimum clearance of $1/64$ inch (0.4mm) between the bottom of screw (A, Fig. 34) and bottom of slot in presser bar guide plate (B). At this time, there should be at LEAST $1/32$ inch (0.8mm) clearance between bottom of presser bar guide and top of lower presser bar bushing. There should also be $1/16$ inch (1.6mm) clearance between bottom of slot in lifter lever link (C) and bottom of presser bar guide (D) when foot lifter lever is released. If adjustment is required, proceed as follows:

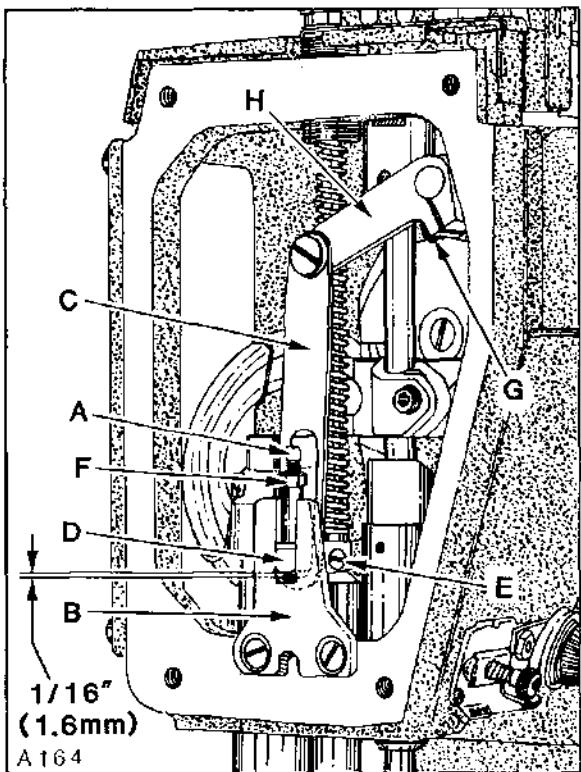


Fig. 34

PRESSER BAR AND PRESSER FOOT (Continued)

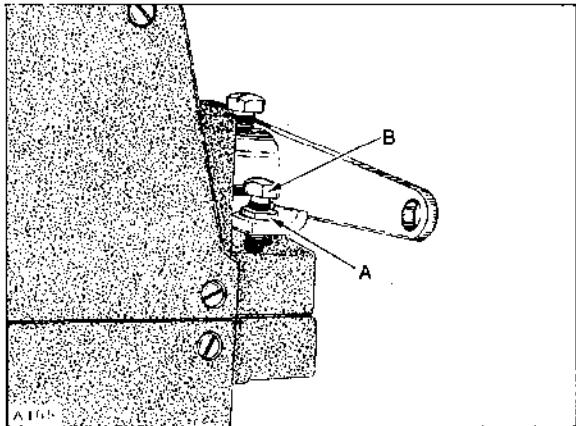


Fig. 35

Back off presser bar spring regulator to release tension on spring. Loosen two screws (E) in presser bar guide (D). Loosen nut (F) and turn screw (A) down against guide plate (B) to obtain at least $5/64$ inch (2.0mm) clearance between bottom of presser bar guide (D) and guide plate (B). Align presser foot with needles and press down FIRMLY while tightening two screws (E) in presser bar guide (D).

NOTE: This setting was necessary to prevent damage to the scraper edge of presser bar bushing, should presser foot be removed from machine. Turn presser bar spring regulator down. Back off screw (A) to obtain the $1/64$ inch (0.4mm) dimension between bottom of screw and bottom of slot in presser bar guide plate (B), lock nut (F).

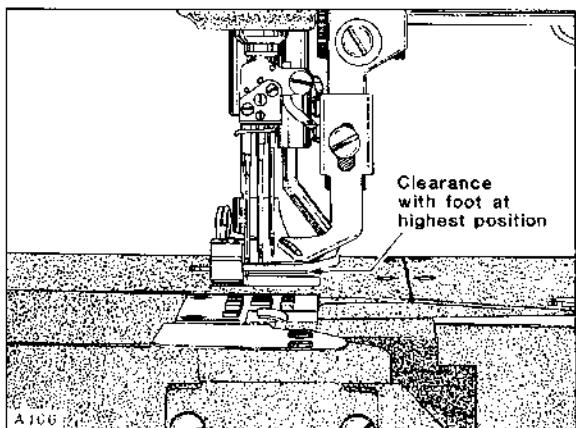


Fig. 36

Loosen screw (G) in lifter arm (H) and rotate arm slightly as required to obtain the $1/16$ inch (1.6mm) dimension between link (C) and guide (D), retighten screw (G) ensuring no left to right shake in lifter arm (H).

Loosen lock nut (A, Fig. 35) and adjust screw (B) in presser foot lifter lever, allowing presser foot to be raised to its highest position without interfering with spreader, as shown in Figure 36. Lock nut (A, Fig. 35) securely.

Adjust presser bar spring regulator so it exerts only enough pressure on presser foot to feed the work uniformly. Turning it clockwise increases the pressure, counter-clockwise acts the reverse.

LOOPER THREAD TAKE-UP AND CAST-OFF PLATE

Looper thread take-up (A, Fig. 37) should be centered front to back in cast-off plate (B). It should also be positioned so as the needle bar is descending, looper thread is "cast-off" the highest lobe of looper thread take-up when the tip of left needle is even with the bottom of looper blade.

If adjustment is required, lift cast-off plate up. Loosen screw (A, Fig. 38) in positioning collar (B) and two screws (C) in looper thread take-up. Advance or retard looper thread take-up as required and tighten screws (C) assuring that take-up is centered in cast-off plate. Positioning collar (B), which has a slot in its face, must be aligned with two screws which secure the discs of take-up together while THRUSTING positioning collar forward against take-up. Remove the play between screw heads in take-up and slot in positioning collar by applying pressure on the collar CLOCKWISE while tightening screws (A) securely. Cast-off plate (B, Fig. 37) should be positioned with .004 inch (0.1mm) clearance between cutting edge of looper thread anti-wrap-up knife (C) and hub (D) of looper thread take-up, which can be adjusted by repositioning latch (D, Fig. 38). Set adjustable eyelets (E, Fig. 37) in the center of their mounting screws. More or less looper thread can be supplied in the stitch by moving adjustable eyelets to the right or left respectively.

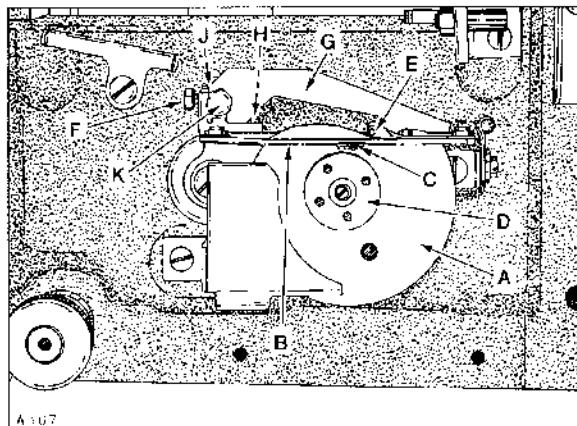


Fig. 37

If retaining finger is rubbing take-up, loosen screw (F), center the finger (G), and retighten screw. If retaining finger is on an angle, loosen screw (H), turn retaining finger support (J) slightly as required and retighten screw. The height of retaining finger should be set with its right end resting squarely on top of cast-off plate and the inner contour of the left end should be 1/32 inch (0.8mm) above the HIGHEST lobe of looper thread take-up. Loosen screw (K), position as required and retighten screw.

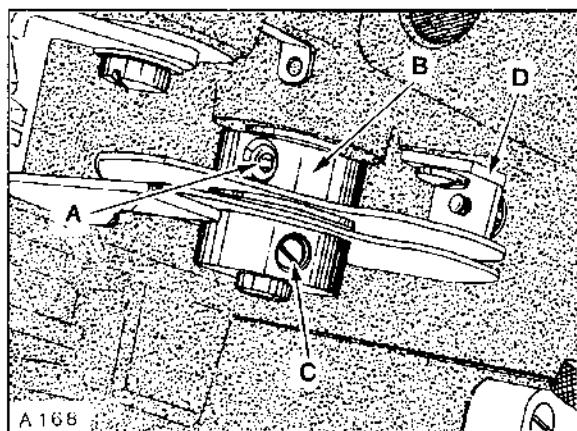


Fig. 38

Needle thread tension assemblies (A, Fig. 39) are set correctly when the tension discs (B) start to release as the presser foot is raised to within 1/8 inch (3.2mm) of the end of its travel and completely released when presser foot has reached its highest position.

THREAD TENSION RELEASE (Continued)

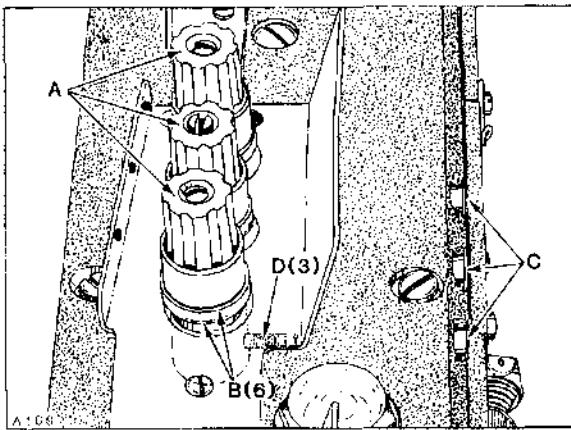


Fig. 39

Adjustment can be made by removing plastic plugs (C), and loosening screws (D) and lower tension assemblies (A) to advance the release action or raise tension assemblies to retard the release action. Hold tension assemblies in position while retightening screws (D). Reassemble plastic plugs securely.

THREAD CONTROL (PRELIMINARY SETTINGS)

As a factory setting, needle thread take-up wires are positioned so their ends are flush with the rear side of holder, though under extreme conditions, they may be adjusted independently as required to suit.

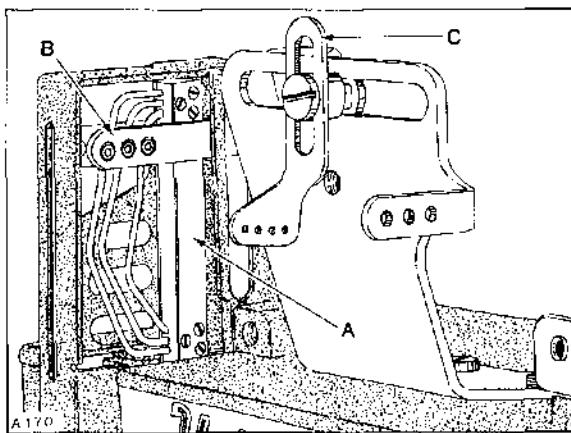


Fig. 40

Needle bar eyelet should be positioned on the needle bar to CENTRALIZE its up and down travel between the extreme ends of take-up wires with equal clearance on both sides of same.

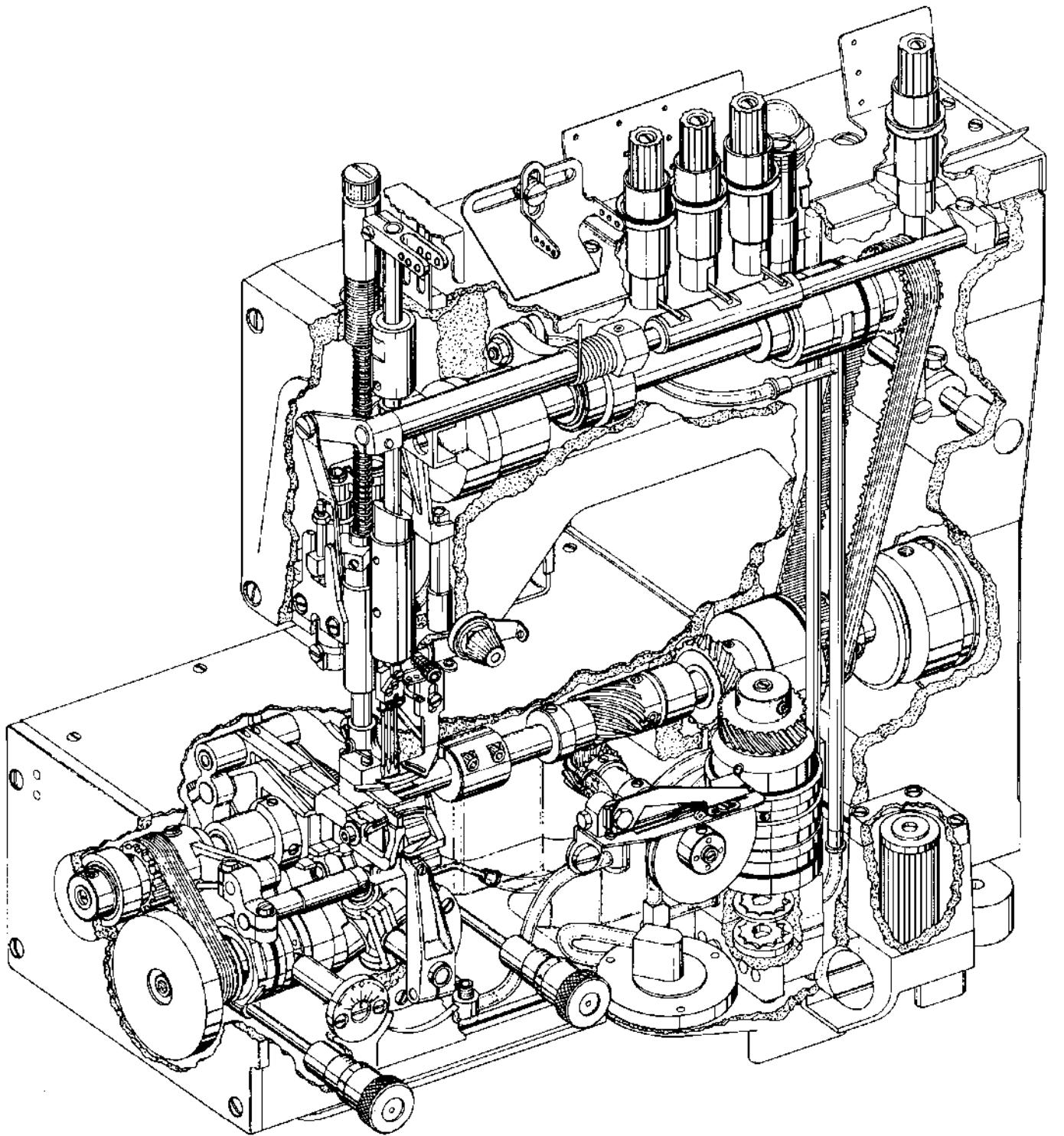
With needle bar at TOP of stroke, needle thread take-up wire holder (A, Fig. 40) should be positioned (front to rear) with 1/16 inch (1.6mm) clearance between front surface of front take-up wire and centerline of front eye in needle bar eyelet (B). If adjustment was required, be sure to center take-up wires between eyes of needle bar eyelet.

Adjustment of parts mentioned can be accomplished by loosening their mounting screws, reposition as required and retighten screws.

CAUTION! TORQUE needle bar eyelet screw to ONLY 10 - 12 in-lbs (12 -14 cm/kg).

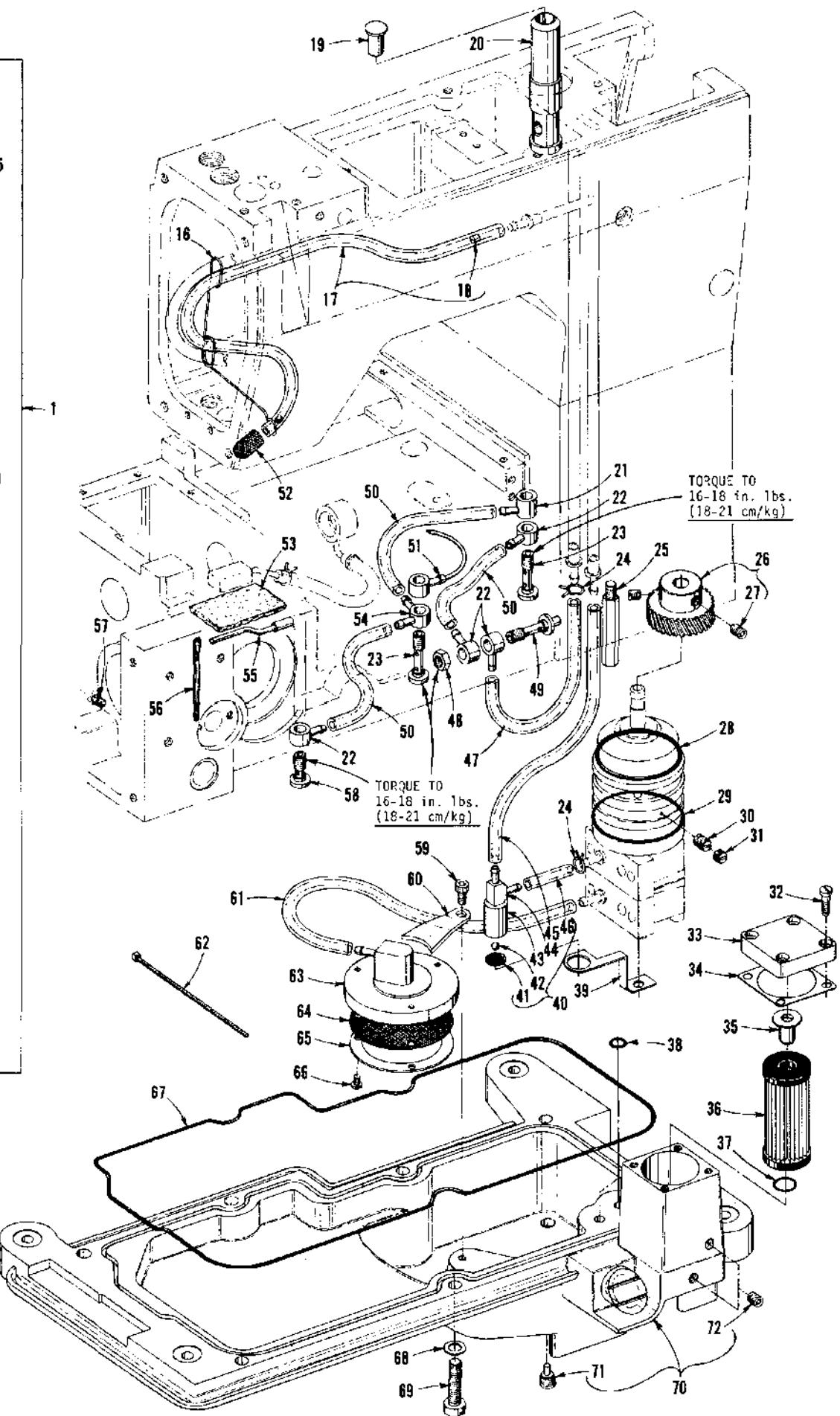
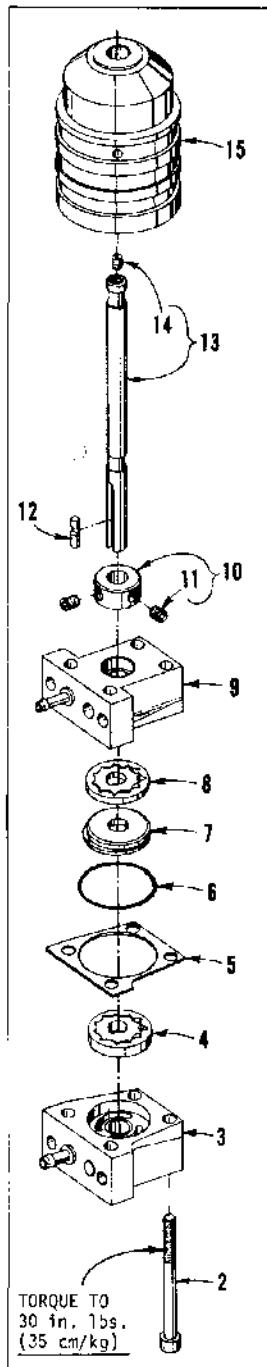
As a starting point the needle thread (adjustable) eyelet (C) should be set 1 13/32 inch (35.7mm) from its left side to the right side of needle bar eyelet (B) and 1 3/8 inch (34.9mm) from the center line of its eyelet holes to the top of top cover.

Tension on needle thread should be just enough to pull up uniform stitches. Tension on looper thread should be just enough to steady thread.



**EXPLODED VIEWS
AND
DESCRIPTION OF PARTS**

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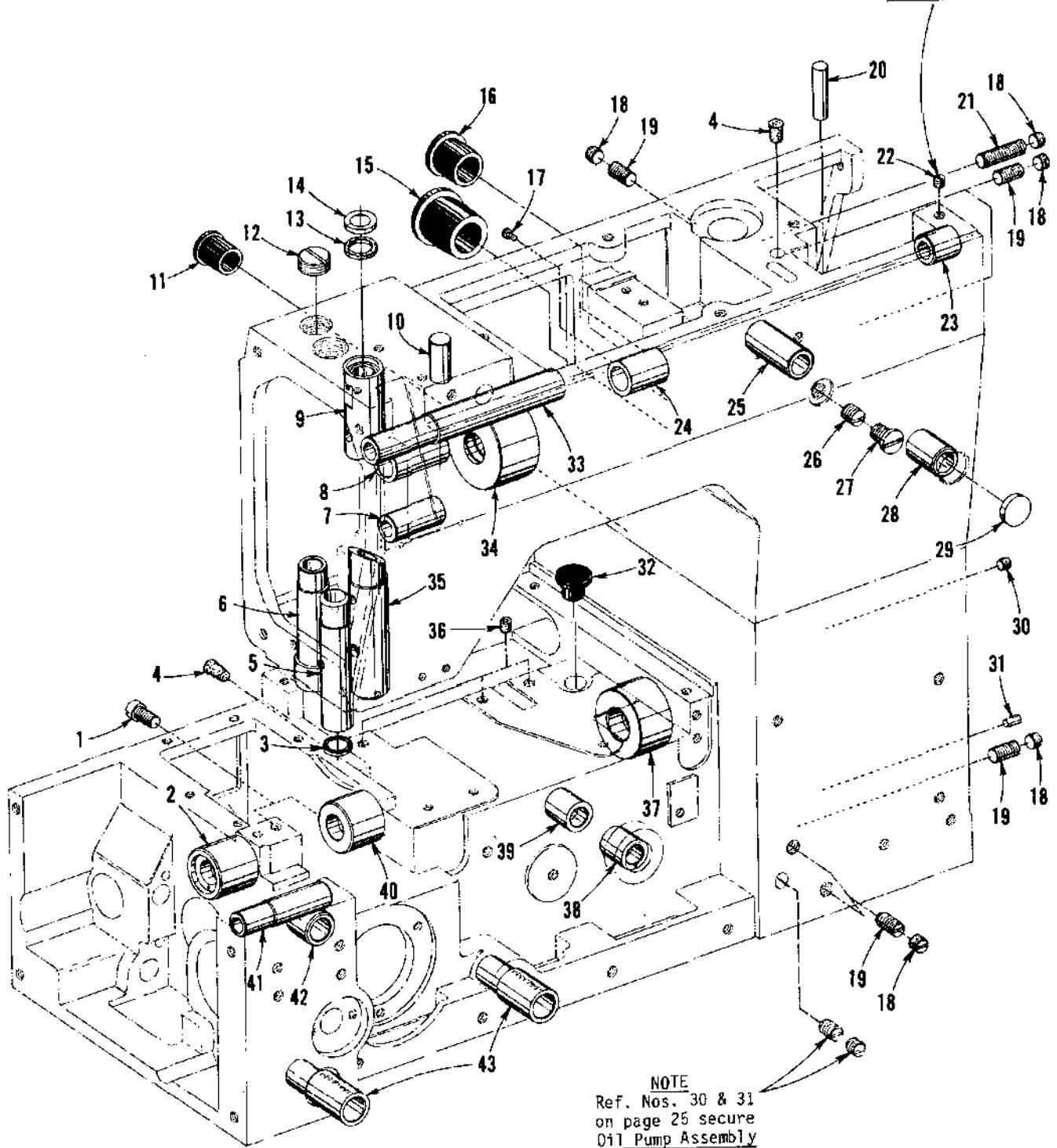


OIL PUMP, PAN, AND LUBRICATING PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	50393 E	Pump Assembly, oil -----	1
2	22653 B-36	Screw -----	4
3	50393 F	Housing, (pressure side) -----	1
4	C50093 U	Gerotor, 1/4 inch (6.4mm) thick -----	1
5	C50093 T	Divider, housing -----	1
6	660-684	"O" Ring -----	1
7	C50093 S	Spacer, housing -----	1
8	C50093 R	Gerotor, 1/8 inch (3.2mm) thick -----	1
9	50393 J	Housing, (syphon side) -----	1
10	35036 X	Collar, (positioning and thrust) -----	1
11	22894 C	Screw -----	2
12	C50093 Z	Pin, dowel -----	1
13	50393 D	Shaft, drive -----	1
14	89	Screw -----	1
15	50393 C	Bushing, oil delivery -----	1
16	50393 V	Retainer, wire -----	1
17	50393 AX	Tube, oil return -----	1
18	50393 BB	Restrictor, oil -----	2
19	50393 AT	Cap, oil indicator -----	1
20	50393 A	Indicator, oil, (priority metering valve) -----	1
21	50394 K	Connector, oil, single feed -----	1
22	C50094 C	Connector, oil, single feed -----	4
23	35094 A	Screw, oil connection -----	2
24	668-885	Clamp, oil tube -----	2
25	22841 M	Stand, oil plug -----	1
26	35039 A	Gear, driven, oil pump -----	1
27	22894 J	Screw -----	2
28	661-51	"O" Ring, -----	1
29	660-455	"O" Ring, -----	1
30	74 E	Screw -----	1
31	22586	Screw, locking -----	1
32	22541	Screw -----	4
33	C50093 F	Cover, oil filter -----	1
34	C50093 G	Gasket -----	1
35	C50093 CB	By-Pass, oil filter -----	1
36	C50093 CA	Filter, oil -----	1
37	660-206	"O" Ring -----	1
38	999-211 E	"O" Ring -----	2
39	50393 BA	Bracket, manifold -----	1
40	50393 AW	Syphon Assembly, oil -----	1
41	50393 AU	Screen, oil -----	1
42	79-31	Ball, steel -----	1
43	50393 AV	Manifold, oil syphon -----	1
44	671 F-41	Fitting -----	1
45	C50093 CJ	Tube, oil return -----	1
46	50393 AY	Tube, oil -----	1
47	C50094 R	Tube, oil -----	1
48	258	Nut -----	1
49	50393 BK	Fitting, oil -----	1
50	50394 B	Tube, oil -----	3
51	50394 L	Tube, oil, complete (take-up gear) -----	1
52	50393 X	Screen, filter -----	1
53	666-310	Felt, oil return -----	1
54	C50094 B	Connector, double feed -----	1
55	50394 G	Tube, oil (looper rocker) -----	1
56	W0-3	Yarn, Columbia, rear needle guard bushing (8 strands)-----	1
57	C50094 AK	Plug, felt, oil return -----	1
58	22720 A	Screw, oil connection -----	1
59	22652 A-4	Screw -----	1
60	50393 AR	Clamp, oil screen housing -----	1
61	C50094 Y	Tube, oil -----	1
62	670 E-2	Tie, cable, to secure Ref. No. 45 to Ref. No. 22 -----	1
63	35093 F	Housing, screen -----	1
64	35093 H	Screen -----	1
65	35093 J	Plate, retaining -----	1
66	97	Screw -----	3
67	35082 B	Gasket, oil pan -----	1
68	6042 A	Washer -----	7
69	820	Screw -----	7
* 70	50393	Pan, oil -----	1
71	22571 E	Screw, oil drain plug -----	1
72	22571 J	Screw, plug -----	2

* 12-19-88 50393 AJ Replaces 50393 N
50393 BJ WILL Replace 50393 AJ

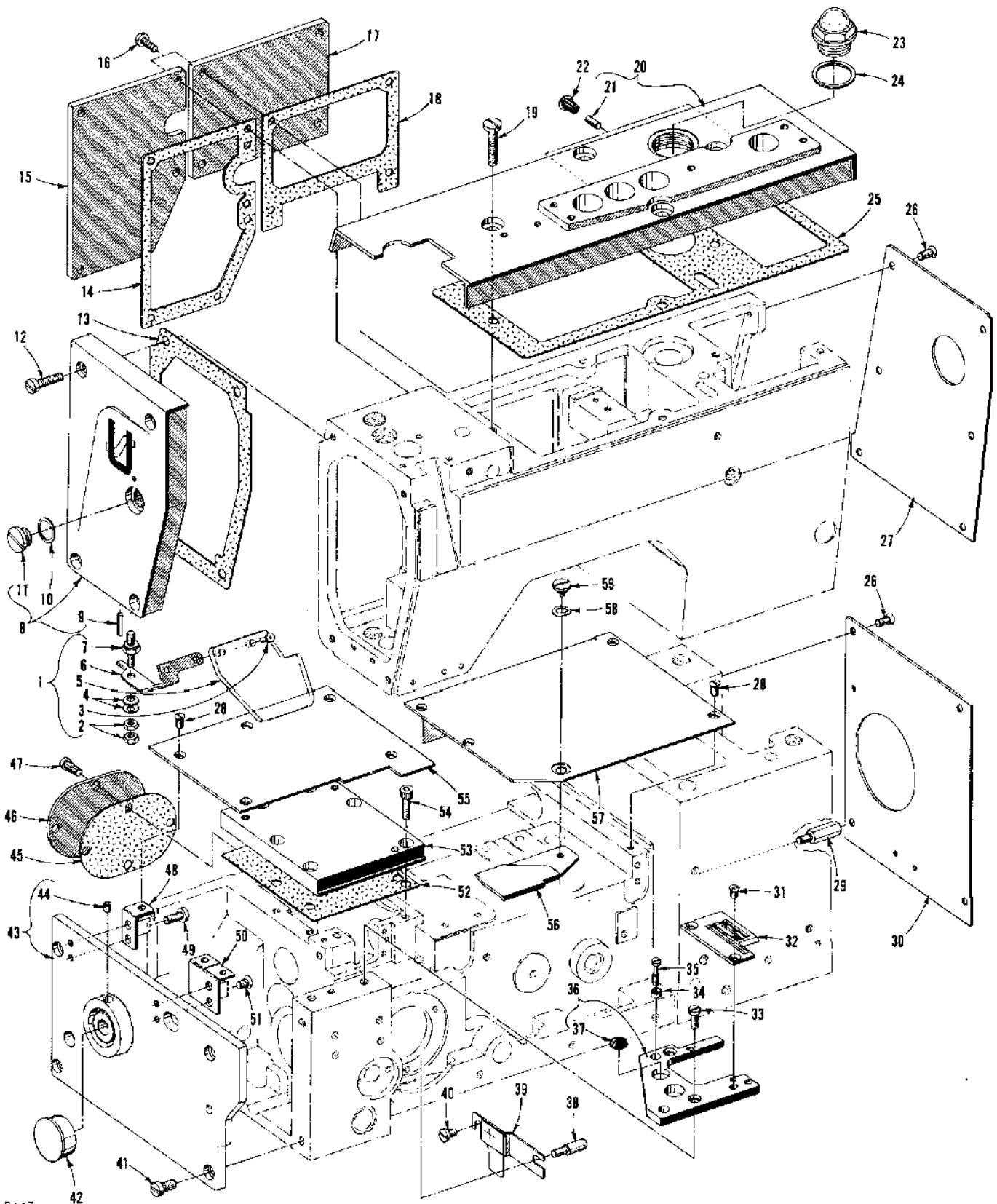
TORQUE T0
19-21 in. lbs.
(22-24 cm/kg)



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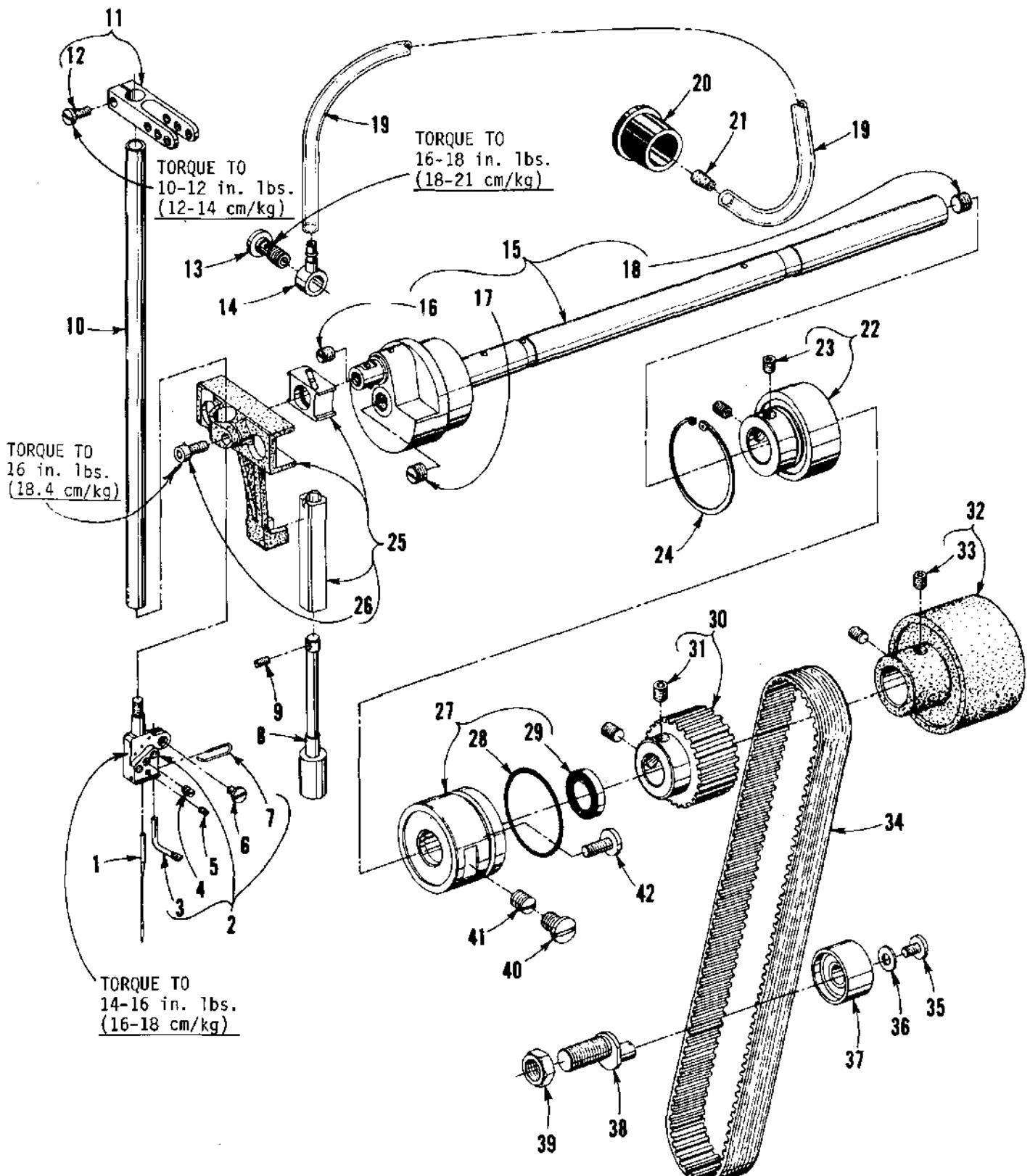
MAIN FRAME BUSHINGS AND PLUGS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	136 A	Screw -----	2
2	50344 K	Bushing, lower mainshaft -----	1
3	660-739	Seal, oil presser bar bushing -----	1
4	C067 B	Plug, cork -----	2
5	C50057 D	Bushing, presser bar -----	1
6	C50047 C	Bushing, spreader holder shaft -----	1
7	C50036 AD	Bushing, spreader take up shaft -----	1
8	C50049 D	Bushing, spreader rocker shaft (left) -----	1
9	50354 C	Bushing, needle bar (upper) -----	1
10	51-794 BLK.	Plug, aluminum -----	1
11	C50093 CT	Plug, oil -----	1
12	22539 G	Screw, plug -----	1
13	666-311	Screen, needle bar bushing -----	1
14	C50054 D	Shield, needle bar bushing -----	1
15	C50093 AX	Plug, oil -----	1
16	C50093 AY	Plug, oil -----	1
17	604	Screw, plug -----	2
18	22586	Screw, locking -----	5
19	74 E	Screw, plug -----	4
20	50394 S	Plug, steel -----	1
21	22533 A	Screw, plug -----	1
22	22764 C	Screw, set -----	1
23	50390 C	Bushing, presser foot lifter lever (right) -----	1
24	C50049 C	Bushing, spreader rocker shaft (right) -----	1
25	50390	Bushing, presser foot lifter lever (rear) -----	1
26	C50055 H	Screw, set -----	1
27	22706 C	Screw, locking -----	1
28	50390 A	Bushing, presser foot lifter lever (front) -----	1
29	51-627 BLK.	Plug -----	1
30	22565	Screw, plug -----	1
31	C50093 CN	Plug, aluminum -----	1
32	C50035 Z	Plug, oil -----	1
33	50390 D	Bushing, presser foot lifter lever (left) -----	1
34	50355 L	Bushing, upper mainshaft -----	1
35	50354 B	Bushing, needle bar (lower) -----	1
36	22894 C	Screw, plug -----	3
37	50344 L	Bushing, lower mainshaft -----	1
38	50344 G	Bushing, take-up shaft (front) -----	1
39	50344 F	Bushing, take-up shaft (rear) -----	1
40	50344 B	Bushing, lower mainshaft -----	1
41	50368 B	Bushing, rear needle guard shaft -----	1
42	50344 E	Bushing, Tooper rocker (rear) -----	1
43	35036 AB	Bushing, stitch control shaft -----	2



SAFETY SHIELD, COVERS AND PLATES

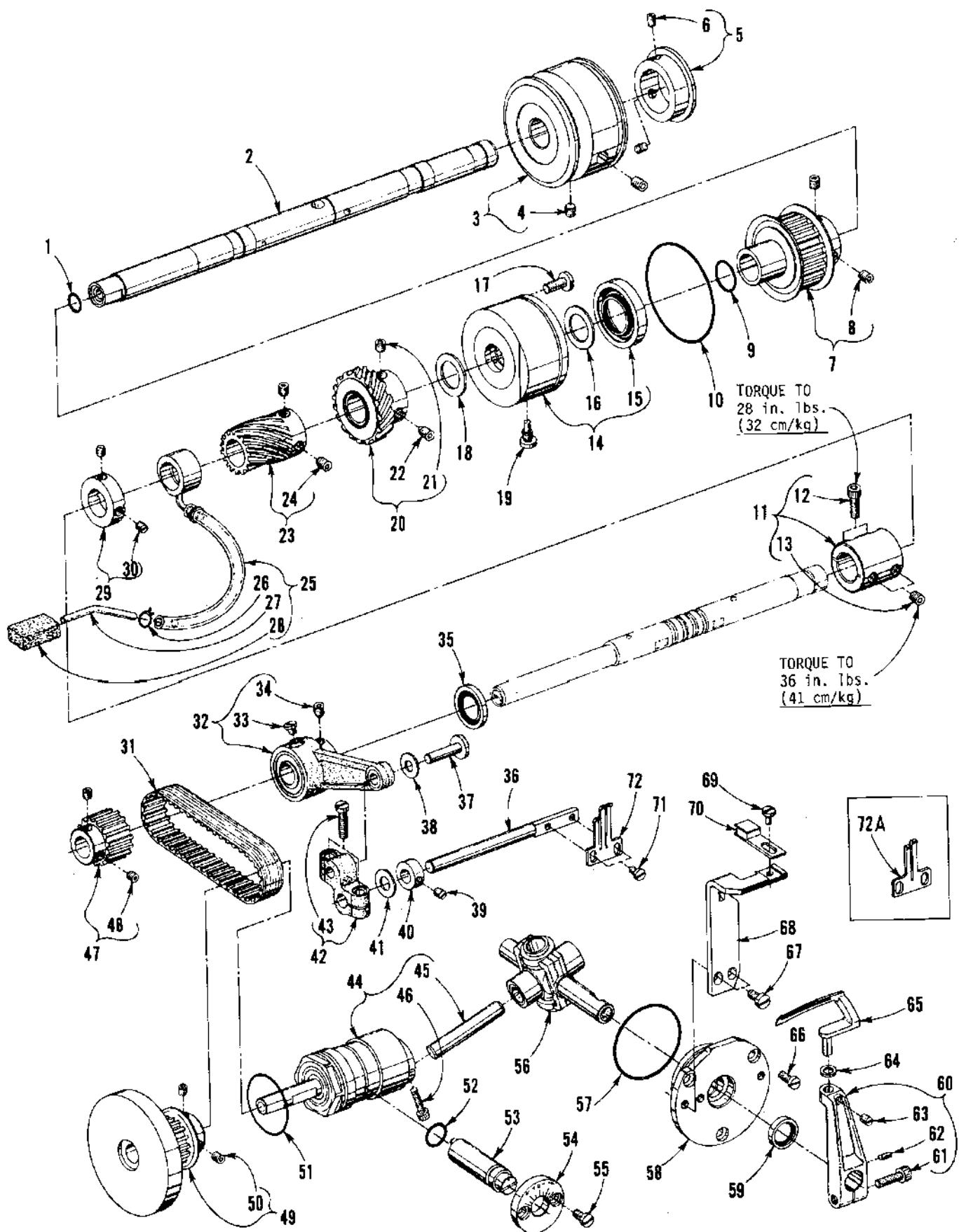
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	C50095 S	Shield Assembly, safety -----	1
2	12934 A	Nut -----	2
3	RM2879-2	Rivet -----	2
4	97127	Washer, spring -----	2
5	C50095 R	Shield, safety -----	1
6	C50095 E	Bracket, mounting -----	1
7	C50095 D	Stud -----	1
8	C50082 R*	Cover, head -----	1
9	660-219 A	Pin, roll (stop) -----	1
10	C50082 AA	Gasket -----	1
11	22883 B	Screw, plug -----	1
12	22541 C	Screw -----	4
13	C50082 AW	Gasket -----	1
14	C50082 K	Gasket -----	1
15	C50082 V	Cover, head (left rear) -----	1
16	22569 M	Screw -----	9
17	C50082 M	Cover, head (right rear) -----	1
18	C50082 N	Gasket -----	1
19	22861 C	Screw -----	4
20	50382 K	Cover, top -----	1
21	22894 J	Screw -----	4
22	50394 J	Plug, oil -----	4
23	C50093 AU	Cap, oil filler -----	1
24	C50082 X	Gasket -----	1
25	50382 F	Gasket -----	1
26	22526 H	Screw -----	10
27	50382 J	Cover -----	1
28	22525 E	Screw -----	9
29	22841 N	Screw, adaptor -----	1
30	50382 H	Cover -----	1
31	87	Screw -----	2
32	- - -	Throat Plate, see "SEWING COMBINATIONS" -----	1
33	22839	Screw -----	2
34	35036 AE	Ferrule, locating -----	2
35	22587 N	Screw -----	2
36	50380 A	Support, throat plate -----	1
37	660-939	Bumper, rubber -----	1
38	22799 AH	Stud, latch spring -----	1
39	50393 U	Shield, lint -----	1
40	94	Screw -----	1
41	22517	Screw -----	4
42	999-216 C	Plug, plastic -----	1
43	50382 A	Cover, end -----	1
44	22894 D	Screw (bearing) -----	2
45	35082 F	Gasket -----	1
46	35082 E	Cover, feed chamber (rear) -----	1
47	22569 D	Screw -----	4
48	50301 B	Support, cloth plate; for Styles LF633K200MM, LF633K200MN -----	2
-	50301 B	Support, cloth plate; for Styles LF632K200MV, LF633K200MW -----	1
49	93	Screw, for Styles LF633K200MM, LF633K200MN -----	4
-	93	Screw, for Styles LF632K200MV, LF633K200MW -----	2
50	50332 E	Support, cloth plate; for Styles LF632K200MV, LF633K200MN -----	1
51	22526	Screw, for Styles LF632K200MV, LF633K200MW -----	2
52	50382 D	Gasket -----	1
53	50382 E*	Cover, feed chamber (top) -----	1
54	22653 B-8	Screw -----	6
55	50301 X	Plate, cloth (left) for Style LF632K200MV -----	1
-	50301 S	Plate, cloth (left) for Styles LF633K200MM, LF633K200MN -----	1
-	50301 U	Plate, cloth (left) for Style LF633K200MN -----	1
56	50345 G	Plate, swing; for Style LF632K200MV -----	1
-	50345 D	Plate, swing; for Style LF633K200MW -----	1
57	50301 E	Plate, cloth (right) for Styles LF632K200MV, LF633K200MW -----	1
-	50301	Plate, cloth (right) for Styles LF633K200MM, LF633K200MN -----	1
58	92978	Washer -----	1
59	22726	Screw -----	1
*	21227	FG Plastic Head Cover F500 & F600 NON Puller Machine	1
	21227	FH Plastic Feed Chamber Cover LF, HF, XF 600 M/C	1



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NEEDLE DRIVE (SCOTCH YOKE) AND ASSOCIATED PARTS

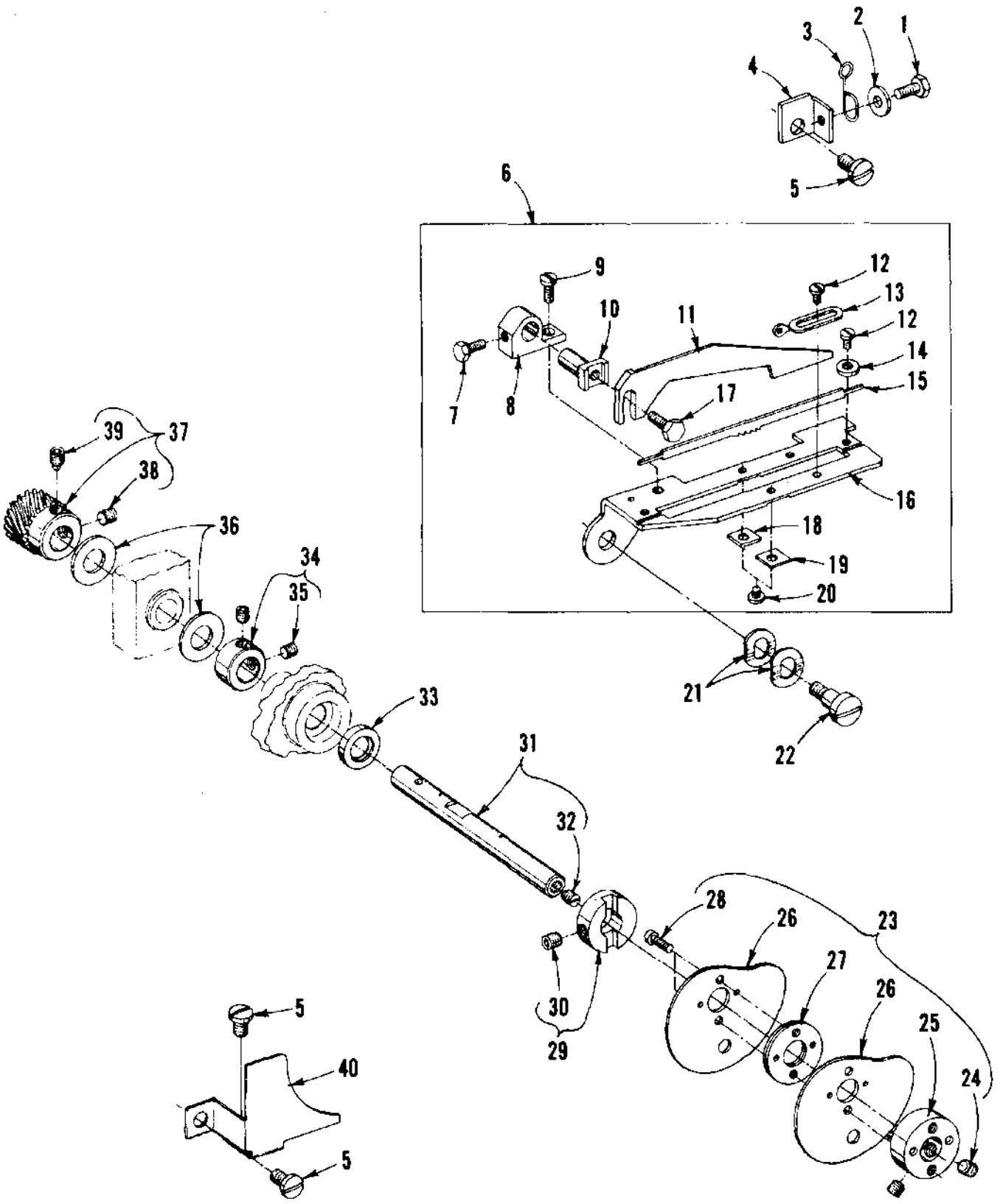
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	128 GBS	Needle -----	2 or 3
2	C50018-8	Head, needle bar; for Style LF632K200MV-8 -----	1
-	C50018 H-12	Head, needle bar; for Style LF632K200MV-12 -----	1
-	C50018 G-16	Head, needle bar; for Styles LF633K200MM, MN, MW --	1
* 3	C50042 X	Eyelet, thread -----	1
4	28 C	Screw, for No. C50018 G-16 -----	3
-	28 C	Screw, for Nos. C50018-8 and C50018 H-12 -----	2
5	1059	Screw, set -----	1
6	22561(87U)	Screw -----	1
7	C50042 AM-12	Guide, needle thread; for Nos. C50018-8 and C50018 H-12 -----	1
-	C50042 AM-14	Guide, needle thread; for No. C50018 G-16 -----	1
8	50355 G	Stud, support -----	1
9	22655 B-7	Screw -----	1
10	C50017 C	Bar, needle -----	1
11	50358 E	Eyelet, needle bar -----	1
12	18-71	Screw -----	1
13	22720 C	Screw -----	1
14	C50094 X	Fitting, male (barbed) -----	1
15	50355-U	Scotch Yoke Assembly -----	1
16	88 B	Screw -----	1
17	J80 K	Screw -----	1
18	22591	Screw -----	1
19	C50093 CJ	Tube, air -----	1
20	C50093 AY	Plug -----	1
21	C067 D	Cork -----	1
22	C50036 P	Bearing and Collar Assembly -----	1
23	22894 AD	Screw -----	2
24	660-713	Ring, retaining -----	1
25	50355 H	Yoke Assembly -----	1
26	22596 E	Screw -----	1
27	35093 P	Housing, scotch yoke drive -----	1
28	660-708	"O" Ring -----	1
29	660-680	Seal, lip -----	1
30	35042 A	Sprocket, scotch yoke drive -----	1
31	22894 X	Screw -----	2
32	C50021 A	Handwheel -----	1
33	22894 C	Screw -----	2
34	50342 R	Belt, scotch yoke drive -----	1
35	22585 C	Screw -----	2
36	53678 N	Washer -----	2
37	35042 C	Roller, idler -----	2
38	50354	Stud, idler -----	2
39	80630 D	Nut -----	2
40	22706 C	Screw, locking -----	1
41	C50055 H	Screw, set -----	1
42	25 S	Screw -----	2
*	50342AA LF	Spreader Machine	



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LOWER MAINSHAFT, LOOPER AND REAR NEEDLE GUARD DRIVE

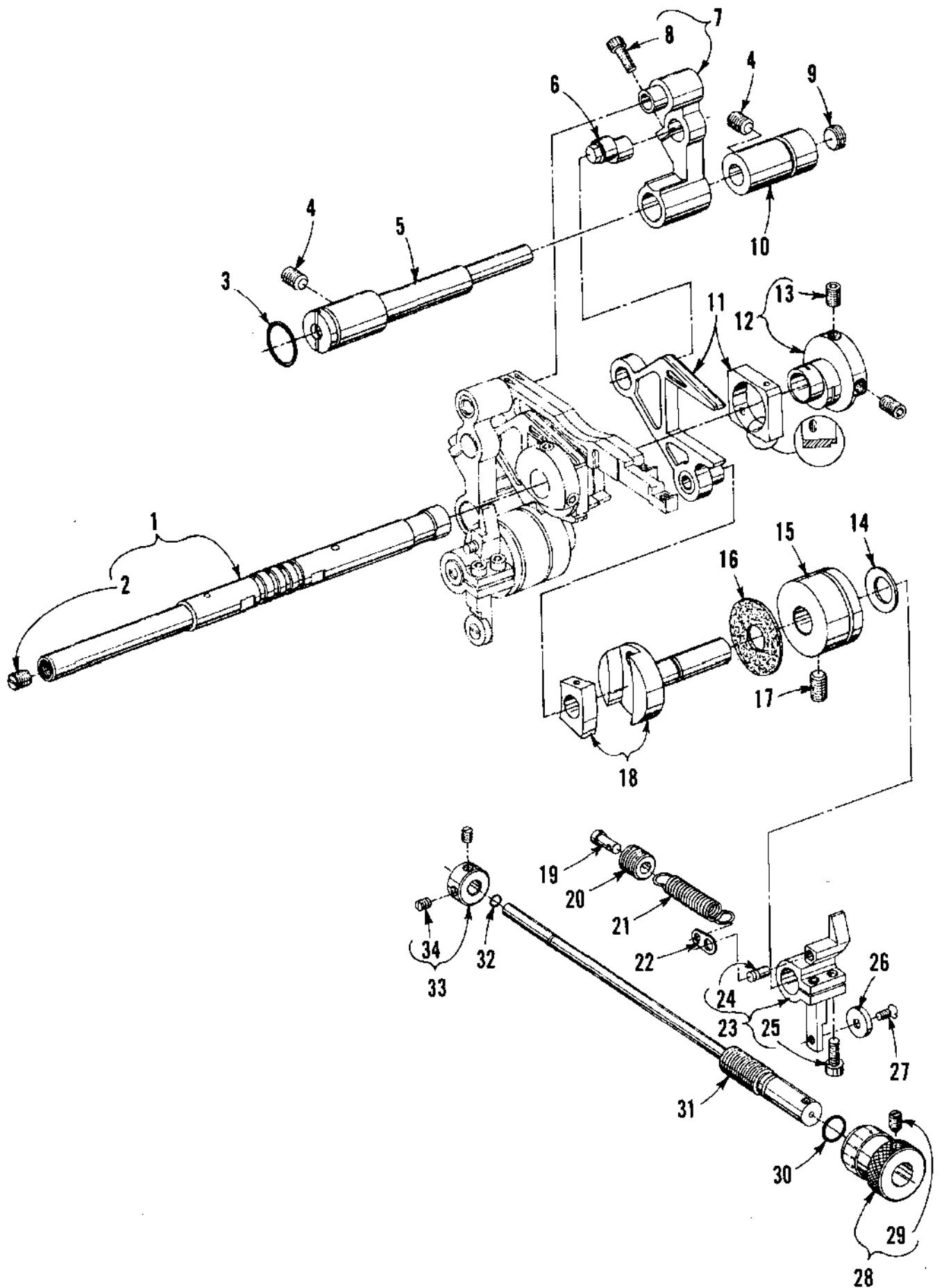
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	660-220	"O" Ring -----	1
2	50322 AA	Mainshaft, lower (right) -----	1
3	35021	Pulley -----	1
4	22650 CD-6	Screw, set -----	2
5	35021 B	Guard, pulley -----	1
6	22894 C	Screw, set -----	2
7	50342 H	Sprocket, lower mainshaft (right) -----	1
8	22894 X	Screw -----	2
9	660-212	"O" Ring -----	1
10	660-935	"O" Ring -----	1
11	50343	Coupling, lower mainshaft -----	1
12	22652 A-8	Screw -----	2
13	22894 AE	Screw, set -----	2
14	50393 S	Housing, lower mainshaft -----	1
15	660-998	Seal, oil -----	1
16	35055 V	Washer, thrust -----	1
17	25 S	Screw, retaining (lower mainshaft housing) -----	2
18	35055 V	Washer (spacer) -----	1
19	62245 C	Stud, locating -----	1
20	50339	Gear, oil pump drive (nylon) -----	1
21	22894 AD	Screw, set -----	1
22	22894 K	Screw, spot -----	1
23	50342 D	Gear, take-up drive -----	1
24	22894 C	Screw -----	2
25	50393 AN	Pump Assembly, oil siphon -----	1
26	660-885	Clamp, tube -----	1
27	50393 AL	Tube, brass -----	1
28	666-214	Felt -----	1
29	57847	Collar -----	1
30	95	Screw -----	2
31	C50042 AD	Belt, looper drive -----	1
32	50368 C	Connecting Rod, needle guard -----	1
33	22830	Screw -----	1
34	22894 AD	Screw -----	2
35	660-934	Seal, oil -----	1
36	C50068 AR	Shaft, rear needle guard -----	1
37	50368 A	Pin, pivot -----	1
38	50368 E	Washer, non-metallic -----	1
39	22743	Screw, for No. 50368 D -----	1
40	50368 D	Collar, thrust -----	1
41	6042 A	Washer -----	1
42	50368	Connection, rear needle guard pivot -----	1
43	22729	Screw -----	2
44	29105 AU	Drive Assembly, looper -----	1
45	667 J-33	Pin, crank -----	1
46	22653 J-8	Screw -----	1
47	50342 B	Sprocket, looper drive -----	1
48	22894 AD	Screw -----	2
49	50342 A	Sprocket, looper driven -----	1
50	22894 AD	Screw -----	2
51	660-979	"O" Ring -----	1
52	660-206	"O" Ring -----	1
53	50314	Eccentric, looper avoid adjusting -----	1
54	50314 A	Plate, eccentric retaining -----	1
55	22569 G	Screw -----	2
56	29192 AE	Rocker Assembly, looper -----	1
57	660-455	"O" Ring -----	1
58	50344 C	Housing, looper rocker bearing -----	1
59	C50044 V	Seal, oil -----	1
60	50313	Holder, looper -----	1
61	22652 B-10	Screw, binder -----	1
62	22575 B	Screw, adjusting -----	1
63	22565	Screw, set -----	1
64	21210	Collar, looper -----	1
65	50309	Looper -----	1
66	22569 G	Screw -----	3
67	22569 C	Screw -----	2
68	50325 D	Holder, front needle guard -----	1
69	90	Screw -----	1
70	50325 F	Guard, front; for Style LF632K200MV -----	1
-	50325 G	Guard, front; for Styles LF633K200MM, MN, MW -----	1
71	90	Screw -----	2
72	C50025 J	Guard, needle, rear; for all Styles except LF632K200MV -----	1
72A	50325 B	Guard, needle, rear; for Style LF632K200MV -----	1



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LOOPER THREAD CAST-OFF AND DRIVING PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	22781	Screw -----	1
2	53678 N	Washer -----	1
3	50332	Spring, latch -----	1
4	50357 A	Bracket, mounting -----	1
5	22569 D	Screw -----	3
6	50357 C	Plate Assembly, cast-off support -----	1
7	22588 S	Screw -----	1
8	52904 E	Bracket, retaining finger support -----	1
9	22768	Screw -----	1
10	52804 E	Support, retaining finger -----	1
11	50304 C	Finger, retaining -----	1
12	73 A	Screw -----	4
13	52958 D	Eyelet -----	2
14	157-15	Washer -----	2
15	50323 D	Strike-off -----	1
16	50357	Plate, cast-off support -----	1
17	22588 A	Screw -----	1
18	50357 G	Knife, anti-wrap up (back) -----	1
19	50357 H	Knife, anti-wrap up (front) -----	1
20	22798	Screw -----	2
21	99521	Washer, spring -----	2
22	50357 D	Screw, shoulder -----	1
23	50323 E	Take-Up Assembly -----	1
24	22894 C	Screw -----	2
25	50323 B	Hub -----	1
26	C50323 D	Disc, take-up -----	2
27	C50077 P	Spacer -----	1
28	22797 B	Screw -----	2
29	50323 C	Collar, positioning -----	1
30	22894 C	Screw -----	1
31	50342 F	Shaft, take-up -----	1
32	89	Screw -----	1
33	660-986	Seal, lip -----	1
34	50344 H	Collar, thrust -----	1
35	22894 C	Screw -----	2
36	54274 P	Washer, thrust -----	2
37	50342 E	Gear, take-up (driven) -----	1
38	22894 C	Screw, set -----	1
39	22894 D	Screw, spot -----	1
40	50357 F	Guard, take-up disc -----	1

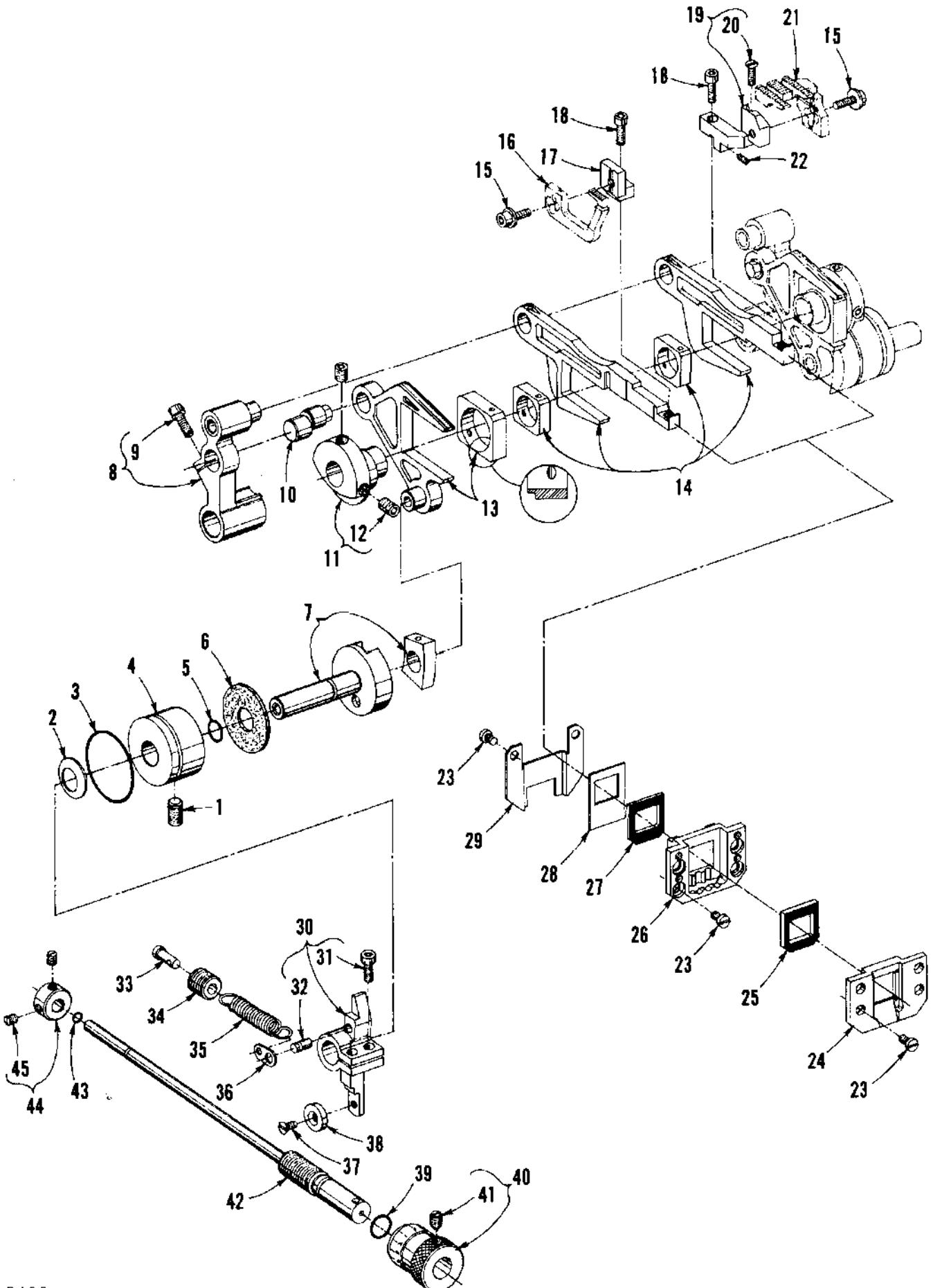


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MAIN FEED DRIVE AND STITCH REGULATING PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	50322	Mainshaft, lower (left) -----	1
2	22591	Screw -----	1
3	999-211 C	"O" Ring -----	1
4	22591 A	Screw, set -----	2
5	35034 N	Shaft, rocker -----	1
6	35034 J	Stud, eccentric -----	1
7	35034 F	Rocker, feed (main) -----	1
8	22596 E	Screw -----	1
9	22571 D	Screw, plug -----	1
10	35034 M	Bushing, rocker shaft -----	1
11	29126 FB	Fork Assembly, driving (main) -----	1
12	35040 B-15	Eccentric, double (main) -----	1
13	22894 J	Screw -----	2
14	661-50	Washer, cup -----	1
15	35036 F	Bushing, stitch adjusting shaft -----	1
16	35036 AZ	Pad, brake -----	1
17	22894 AB	Screw -----	1
18	35036 C	Shaft Assembly, main feed stitch adjusting -----	1
19	50335	Retainer, spring -----	1
20	22714 C	Screw, tension (feed adjusting) -----	1
21	50355	Spring -----	1
22	50335 A	Holder, spring -----	1
23	50336 D	Lever, stitch control (main feed) -----	1
24	661-35	Pin -----	1
25	22596 E	Screw -----	2
26	50335 C	Cam, roller -----	1
27	77 K	Screw -----	1
28	35036 AP	Knob, stitch adjusting shaft -----	1
29	22764 A	Screw -----	1
30	660-206	"O" Ring -----	1
31	50335 E	Shaft, stitch control -----	1
32	660-980	"O" Ring -----	1
33	50335 D	Collar, stitch length stop -----	2
34	22560 B	Screw -----	2

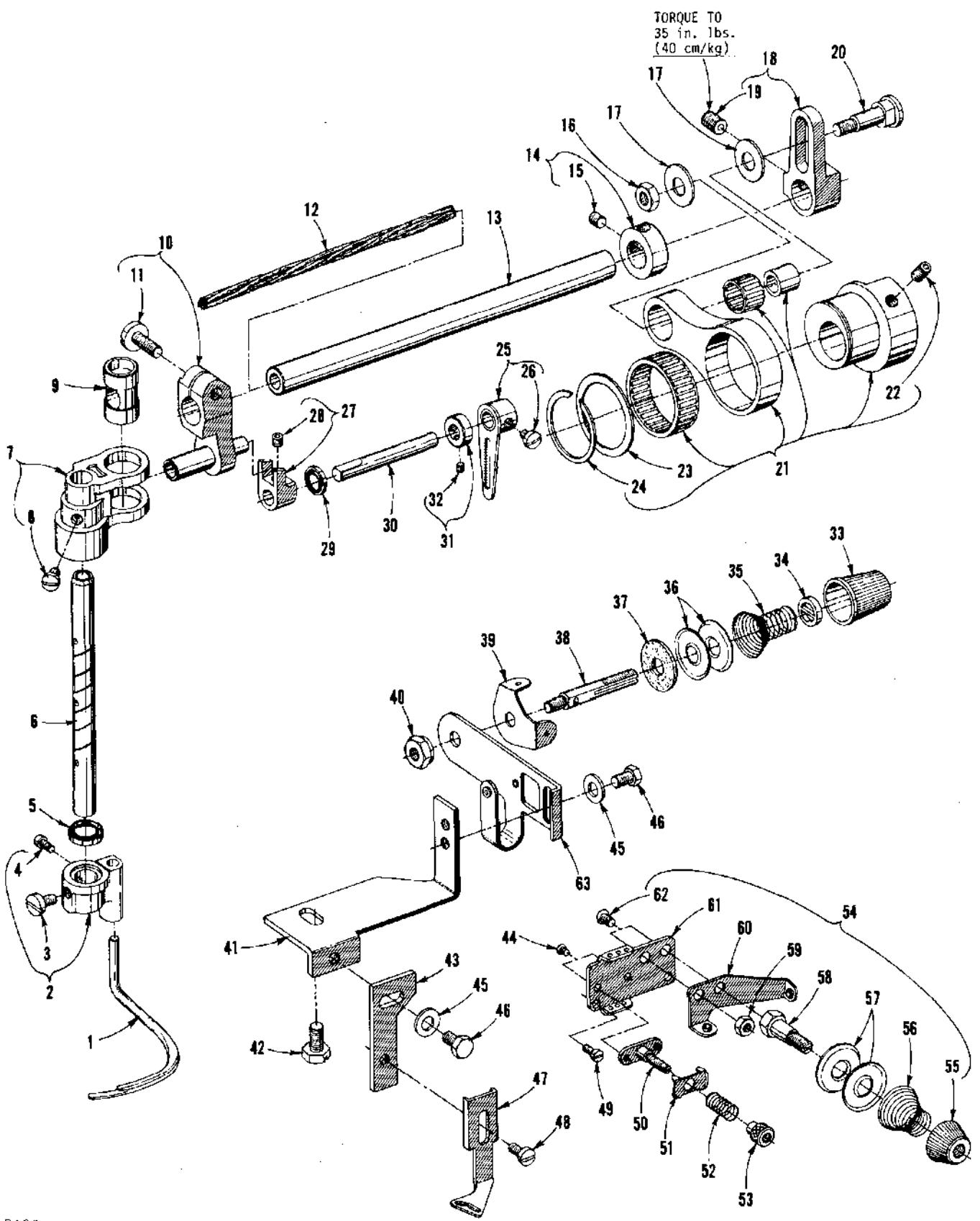


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DIFFERENTIAL FEED DRIVE AND REGULATING PARTS

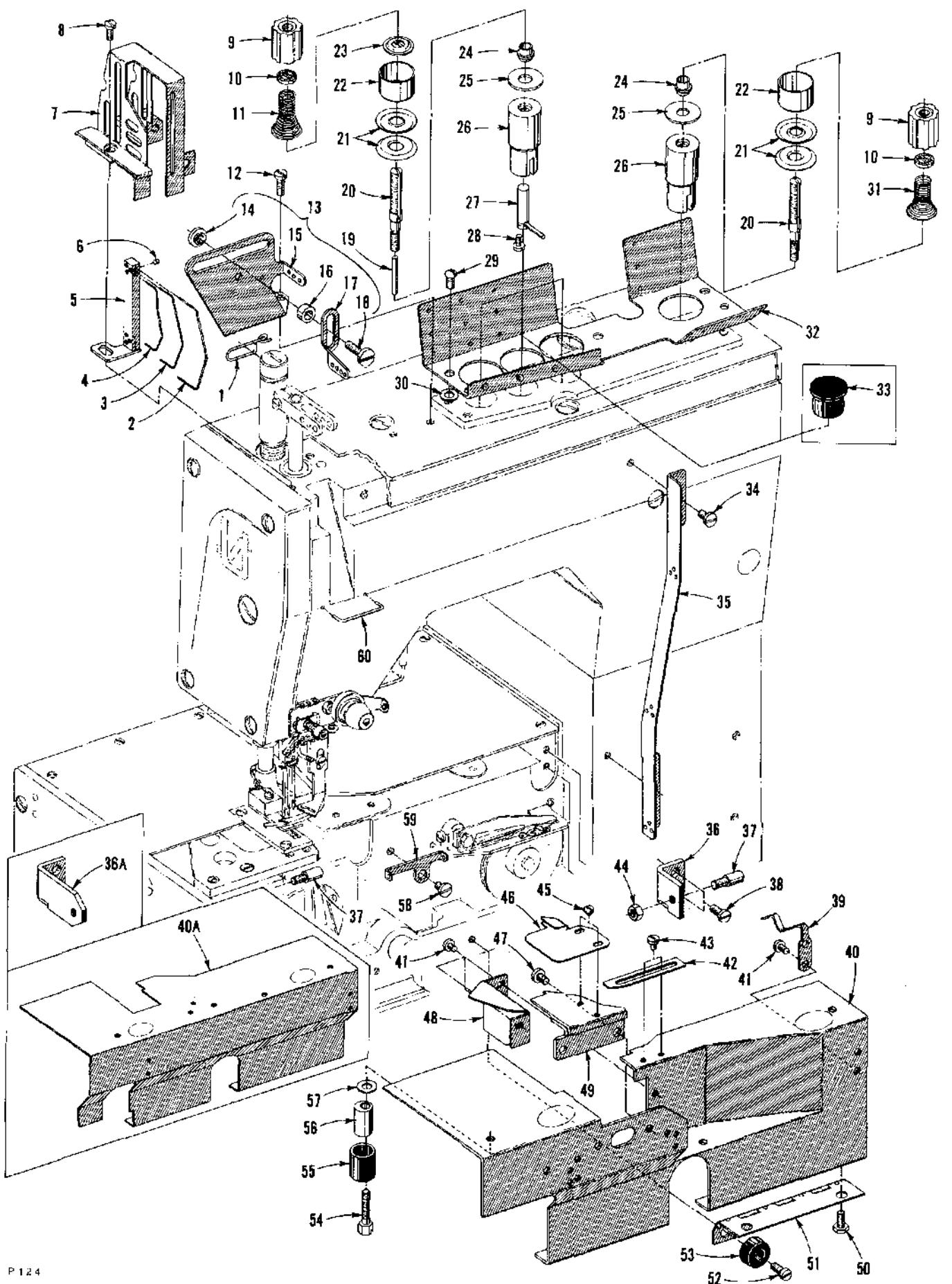
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	22894 AB	Screw -----	1
2	661-50	Washer, cup -----	1
3	660-969	"O" Ring -----	1
4	35036 F	Bushing, stitch adjusting shaft -----	1
5	660-220	"O" Ring -----	1
6	35036 AZ	Pad, brake -----	1
7	35036 C	Shaft Assembly, differential feed stitch adjusting	1
8	35034 G	Rocker, feed (differential) -----	1
9	22596 E	Screw -----	1
10	35034 J	Stud, eccentric -----	1
11	35040 A-15	Eccentric, double (differential) -----	1
12	22894 J	Screw -----	2
13	29126 FA	Fork Assembly, driving (differential) -----	1
14	29126 EU	Feed Bar Assembly (includes main, differential feed bars, and blocks)-----	1
15	22569 AD	Screw -----	2
16	- - -	Feed Dog, differential; see "SEWING COMBINATIONS" -	1
17	50334 H	Holder, differential feed dog -----	1
18	22729 L	Screw -----	2
19	50334 G	Holder, main feed dog -----	1
20	22637 P-24	Screw -----	1
21	- - -	Feed Dog, main; see "SEWING COMBINATIONS" -----	1
22	99277	Screw, stabilizing -----	1
23	22617 J-16	Screw -----	10
24	35034 E	Guide, feed bar (front) -----	1
25	50334 AD	Seal, feed bar (front) -----	1
26	35034 D	Guide, feed bar (rear) -----	1
27	50334 AC	Seal, feed bar (rear) -----	1
28	50334 V	Scraper, rear oil -----	1
29	50334 Y	Baffle, rear oil plate -----	1
30	50367 D	Lever, stitch control (differential feed) -----	1
31	22596 E	Screw -----	1
32	661-35	Pin -----	1
33	50335	Retainer, spring -----	1
34	22714 C	Screw, tension (feed adjusting) -----	1
35	50355	Spring -----	1
36	50335 A	Holder, spring -----	1
37	77 K	Screw -----	1
38	50335 C	Cam, roller -----	1
39	660-206	"O" Ring -----	1
40	35036 AP	Knob, stitch adjusting shaft -----	1
41	22764 A	Screw -----	1
42	50335 E	Shaft, stitch control -----	1
43	660-980	"O" Ring -----	1
44	50335 D	Collar, stitch length stop -----	2
45	22560 B	Screw -----	2



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SPREADER AND SPREADER DRIVING MECHANISM

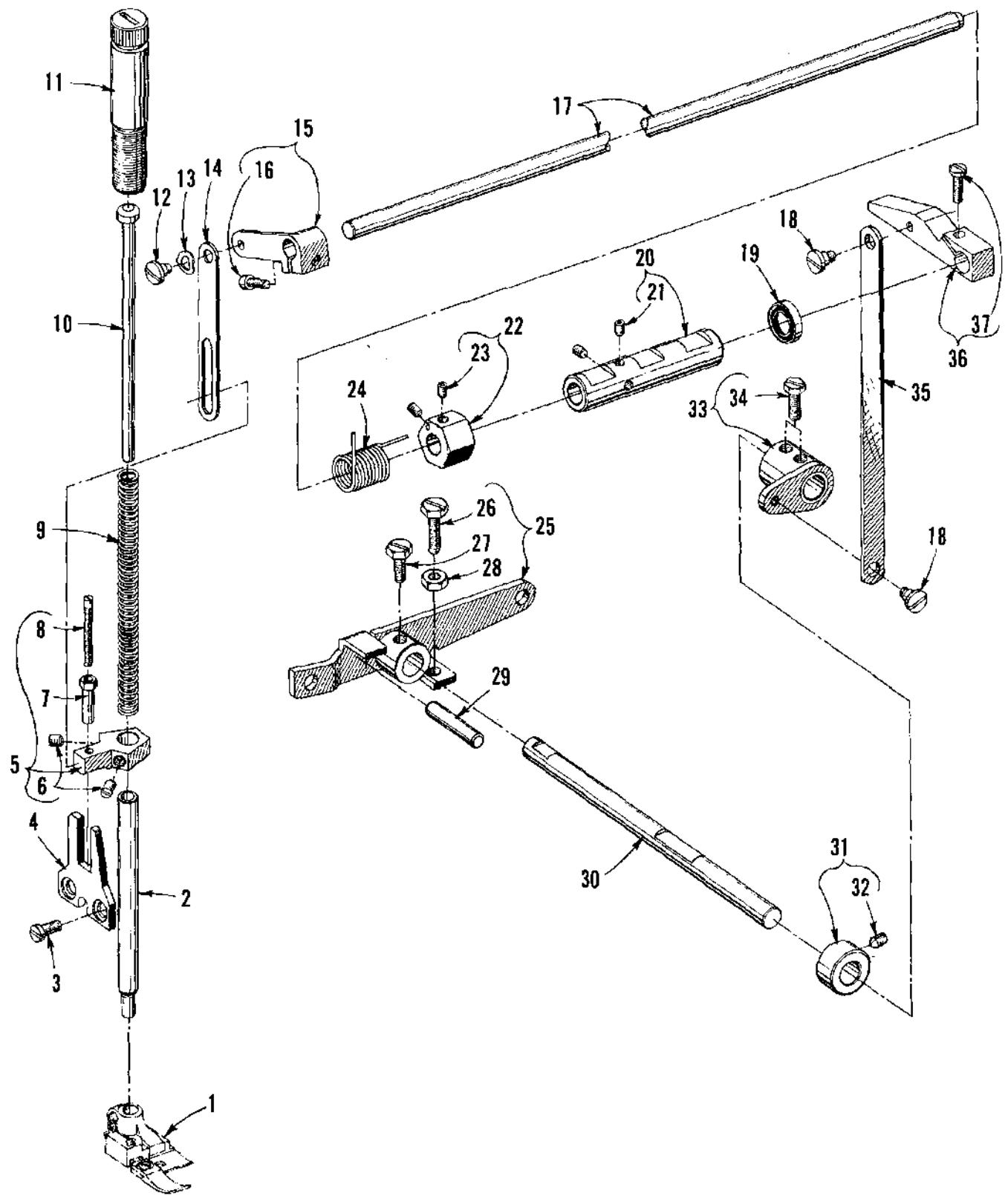
Ref. No.	Part No.	Description	Amt. Req.
1	57845 AA	Spreader -----	1
2	C50046	Holder, spreader -----	1
3	94	Screw -----	2
4	77	Screw -----	2
5	660-739	Seal, oil -----	1
6	C50047 B	Shaft, spreader holder -----	1
7	C50047 D	Lever, spreader holder shaft -----	1
8	88 A	Screw -----	2
9	C50047 F	Pin, Link -----	1
10	C50049 E	Arm, rocker shaft -----	1
11	22548	Screw -----	1
12	W0-2	Yarn, Columbia, 6 strands, 6 inches (152.4mm) long -----	1
13	C50049 B	Shaft, spreader rocker -----	1
14	56335 D	Collar, thrust -----	1
15	95	Screw -----	2
16	18	Nut -----	1
17	53636 C	Washer -----	2
18	C50052	Lever, rocker shaft -----	1
19	22894 X	Screw -----	1
20	C50052 A	Stud, connecting -----	1
21	29126 EM	Spreader Drive Eccentric Assembly -----	1
22	22894 J	Screw -----	2
23	C50036 AC	Washer, thrust -----	1
24	999-215	Ring, retaining -----	1
25	C50092 Z	Take-up, spreader thread -----	1
26	88 A	Screw -----	1
27	C50092 Y	Arm, driving lever -----	1
28	22894 W	Screw -----	1
29	660-966	Seal, oil -----	1
30	C50092 X	Shaft -----	1
31	C50036 AE	Collar, thrust -----	1
32	28 C	Screw -----	2
33	39592 AA	Nut, spreader tension -----	1
34	39592 AK	Ferrule, tension spring -----	1
35	50392 M	Spring, tension, spreader thread -----	1
36	39592 AD	Disc, tension -----	2
37	39592 AF	Felt, tension disc -----	1
38	C50092 AC	Post, tension -----	1
39	C50092 T	Eyelet, tension -----	1
40	39592 AH	Nut, tension post -----	1
41	C50044 N	Bracket, mounting -----	1
42	22882	Screw -----	1
43	C50044 M	Plate, spreader guide -----	1
44	22716 A	Screw -----	2
45	35032 H	Washer -----	2
46	22519	Screw -----	2
47	C50044 U	Guide, spreader thread -----	1
48	22825	Screw -----	1
49	605 A	Screw -----	2
50	C50092 U	Post, nipper (base) -----	1
51	57 WB	Plate, spring -----	1
52	15438 C	Spring -----	1
53	51959 D	Nut, tension -----	1
54	29475 BT	Spreader Thread Tension Assembly -----	1
55	57892 B	Nut, spreader tension post -----	1
56	39592 AR-1	Spring, tension -----	1
57	39592 AD	Disc, tension -----	2
58	C50036 AF	Post, spreader tension -----	1
59	41071 G	Nut -----	1
60	C50092 W	Guide, spreader thread -----	1
61	C50044 T	Plate, mounting; thread guide -----	1
62	22766	Screw -----	2
63	C50092 V	Bracket, spreader tension post -----	1



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FRONT COVER AND THREAD HANDLING PARTS

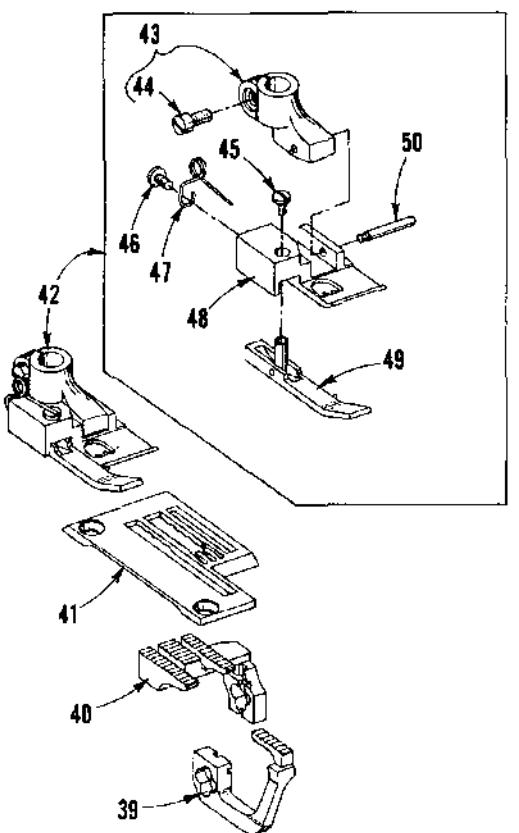
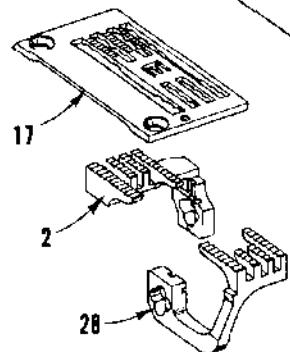
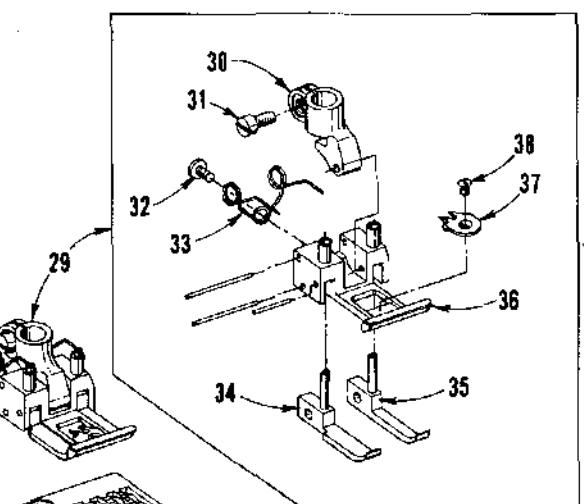
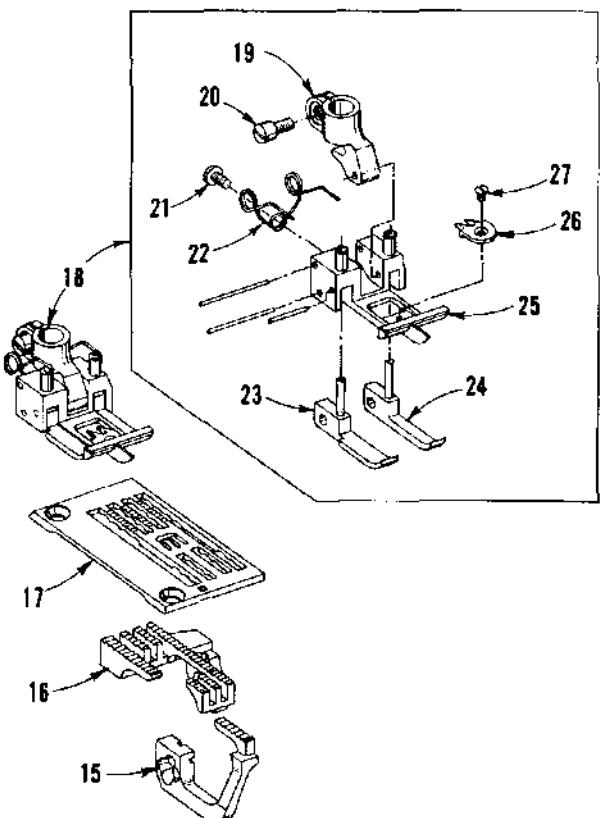
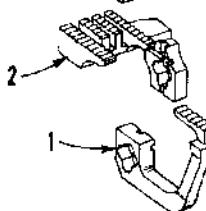
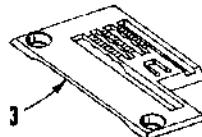
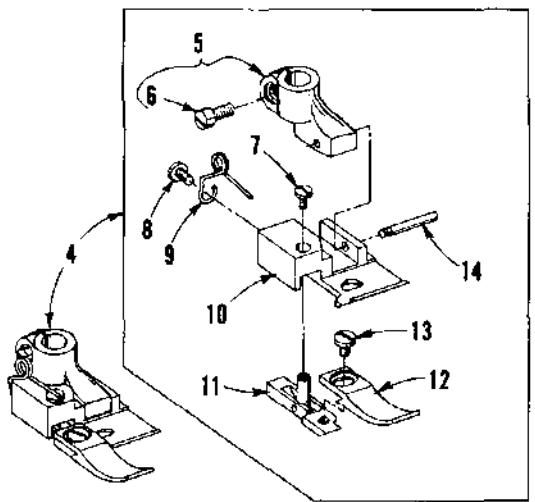
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	51758	Eyelet, spreader thread -----	1
2	50358 C	Wire, needle thread control (front) -----	1
3	50358 B	Wire, needle thread control (middle) -----	1
4	50358 A	Wire, needle thread control (rear) -----	1
5	50358 D	Holder, wire -----	1
6	73 B	Screw -----	6
7	C50054 M	Guard, needle bar eyelet -----	1
8	22569 C	Screw -----	3
9	C50092 S	Nut, thread tension -----	3 or 4
10	39592 AK	Ferrule, tension spring -----	3 or 4
11	39592 AR-5	Spring, needle thread tension -----	2 or 3
12	22569 C	Screw -----	2
13	29476 PG	Needle Thread Control Assembly -----	1
14	C50058 R	Nut -----	1
15	C50004 C	Plate, needle thread control -----	1
16	56358 D	Spacer -----	1
17	51858	Eyelet, adjustable -----	1
18	22757	Screw -----	1
19	C50092 J	Pin, thread tension release -----	2 or 3
20	C50092 L	Post, tension -----	3 or 4
21	109	Disc, tension -----	6 or 8
22	56392 F	Shield, tension spring -----	3 or 4
23	C50092 M	Washer, tension release -----	2 or 3
24	51292 A	Ferrule, tension post -----	3 or 4
25	C50092 R	Washer -----	3 or 4
26	50392 B	Housing, tension assembly -----	3 or 4
27	C50092 G	Pin, tension release actuating -----	2 or 3
28	18-799	Screw -----	2 or 3
29	22501 A	Screw -----	5
30	660-257	Gasket -----	5
31	39592 AR-1	Spring, looper thread tension -----	1
32	50392	Guide, thread -----	1
33	C50082 AH	Plug, top cover (rubber), for Style LF632K200MV -----	1
34	22569 D	Screw -----	2
35	50358	Eyelet, looper thread -----	1
36	50332 D	Bracket, support; for Styles LF632K200MV, LF633K200MW -----	1
36A	50332 B	Bracket, support; for Styles LF633K200MM, LF633K200MN -----	1
37	22799 AH	Stud, latch spring -----	2
38	22569 C	Screw -----	2
39	50332 A	Spring, latch -----	2
40	50382 P	Cover, front; for Styles LF632K200MV, LF633K200MW -----	1
40A	50382 AL	Cover, front; for Styles LF633K200MM, LF633K200MN -----	1
41	22513	Screw -----	7
42	50343 A	Plate, for folder on Styles LF632K200MV, LF633K200MW -----	1
43	22704	Screw, for Styles LF632K200MV, LF633K200MW -----	2
44	35569 J	Nut -----	1
45	22561	Screw, for Styles LF632K200MV, LF633K200MW -----	2
46	50303 A	Guide, edge; for Styles LF632K200MV, LF633K200MW -----	1
47	94	Screw -----	2
48	50382 N	Shield -----	1
49	50364 F	Platform -----	1
50	22792 A	Screw, adjustable -----	4
51	50378	Hinge, front cover -----	2
52	22569 B	Screw -----	4
53	661-26	Bumper, rubber -----	4
54	22519 J	Screw -----	2
55	50393 W	Bumper, rubber -----	2
56	50382 T	Stop, adjustable -----	2
57	20	Washer -----	2
58	22569 D	Screw -----	1
59	50392 A	Eyelet, looper thread -----	1
60	C50058 F	Wire, rubbing, needle thread -----	1



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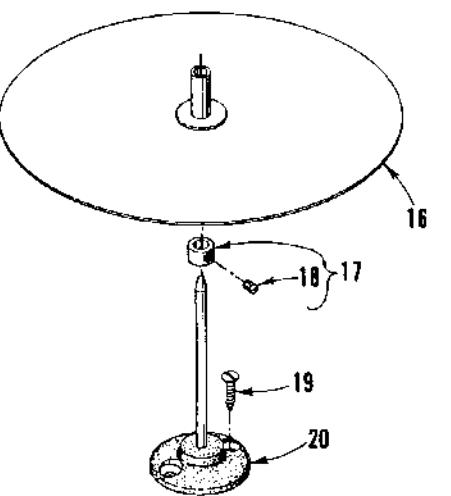
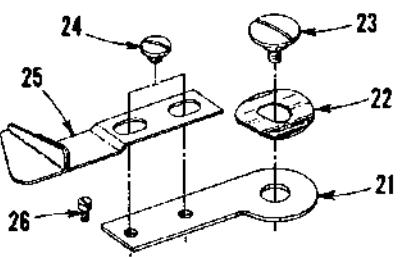
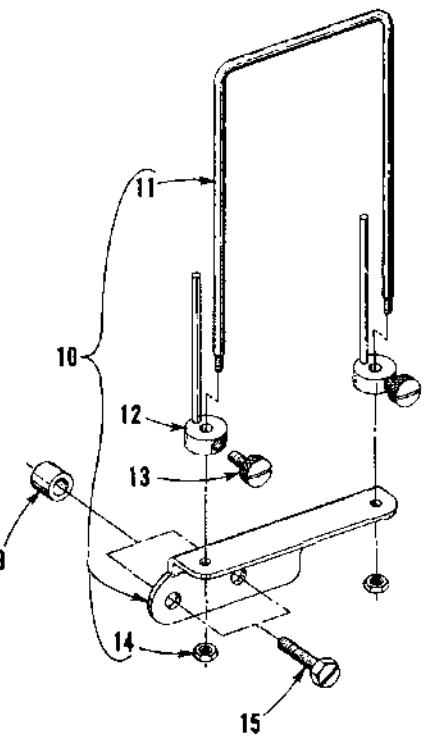
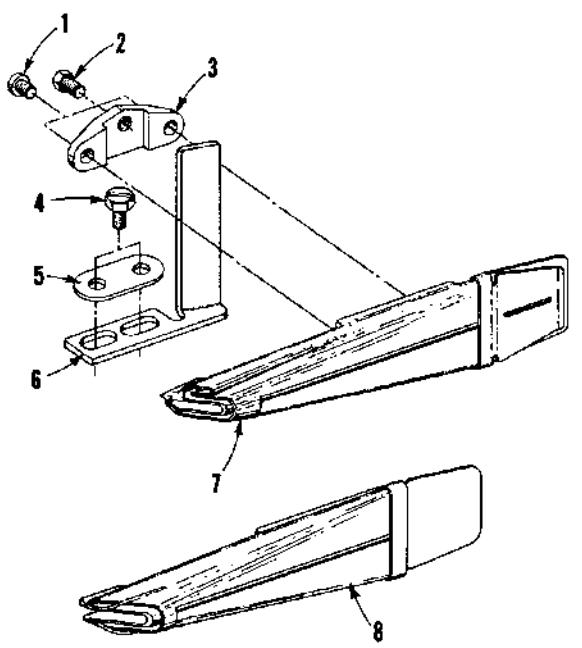
PRESSER FOOT AND TENSION RELEASE PARTS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Reg.</u>
1	- - -	Presser Foot Assembly, see "SEWING COMBINATIONS"	1
2	C50057 E	Bar, presser	1
3	22569 C	Screw	2
4	C50067 K	Plate, presser bar guide	1
5	C50056 K	Guide, presser bar	1
6	531	Screw	2
7	C50056 J	Nut, lock	1
8	22840 C	Screw, adjusting	1
9	C50056 C	Spring, presser bar	1
10	C50056 B	Guide, presser bar spring	1
11	C50056 D	Regulator, presser bar spring	1
12	22758	Screw	1
13	660-718	Washer, spring	1
14	50367 E	Link, presser foot lift	1
15	C50067 G	Lever, presser foot lift (upper left)	1
16	22596 E	Screw	1
17	50322 B	Shaft, presser foot lift (upper)	1
18	22758	Screw	2
19	660-986	Seal, oil	1
20	50390 B	Sleeve, tension release	1
21	22894 W	Screw	2
22	C50090 M	Collar, tension release adjusting	1
23	22894 P	Screw	2
24	50390 E	Spring, tension release return	1
25	50367 A	Lever, presser foot lift (outer)	1
26	22596	Screw	1
27	22882	Screw	1
28	12934 A	Nut, locking	1
29	667 M-14	Pin, dowel (lifter lever stop)	1
30	50322 C	Shaft, presser foot lift (lower)	1
31	C50036 R	Collar, thrust	1
32	22894 L	Screw, spot	1
33	50367	Lever, presser foot lift (lower)	1
34	22882	Screw	2
35	50367 B	Connection, presser foot lift	1
36	C50067 B	Lever, presser foot lift (upper right)	1
37	22596	Screw	1



SEWING COMBINATIONS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	50326 E	Feed Dog, differential; for Style LF632K200MV -----	1
2	50305 E	Feed Dog, main; for Styles LF632K200MV, LF633K200MN -----	1
3	C57824 A-8	Throat Plate, for Style LF632K200MV-8 -----	1
-	C57824 A-12	Throat Plate for Style LF632K200MV-12 -----	1
4	52820 H-8	Presser Foot, for Style LF632K200MV-8 -----	1
-	52820 H-12	Presser Foot, for Style LF632K200MV-12 -----	1
5	13130 B	Shank, presser foot -----	1
6	91	Screw -----	1
7	73 A	Screw -----	1
8	605	Screw -----	1
9	11534	Spring -----	1
10	52830 H-8	Bottom, presser foot, for No. 52820 H-8 -----	1
-	52830 H-12	Bottom, presser foot, for No. 52820 H-12 -----	1
11	52830 C	Section, yielding -----	1
12	52830 D	Guide, adjustable -----	1
13	22561	Screw -----	1
14	22799 B	Screw, hinge -----	1
15	50326	Feed Dog, differential; for Style LF633K200MM -----	1
16	50305	Feed Dog, main; for Style LF633K200MM -----	1
17	C57824 E-16	Throat Plate, for Styles LF633K200MM, LF633K200MN --	1
18	57820-16	Presser Foot, for Style LF633K200MM -----	1
19	G65-134	Shank, presser foot -----	1
20	91	Screw -----	1
21	605	Screw -----	1
22	79633	Spring -----	1
23	57830 B	Section, yielding (left) -----	1
24	57830 A	Section, yielding (right) -----	1
25	57830-16	Bottom, presser foot -----	1
26	G52897 A-16	Tongue, stitch -----	1
27	22716 A	Screw -----	1
28	50326 D	Feed Dog, differential; for Style LF633K200MN -----	1
29	57820 A-16	Presser Foot, for Style LF633K200MN -----	1
30	G65-134	Shank, presser foot -----	1
31	91	Screw -----	1
32	605	Screw -----	1
33	79633	Spring -----	1
34	57830 B	Section, yielding (left) -----	1
35	57830 A	Section, yielding (right) -----	1
36	57830 C-16	Bottom, presser foot -----	1
37	G52897 A-16	Tongue, stitch -----	1
38	22716 A	Screw -----	1
39	50326 C	Feed Dog, differential; for Style LF633K200MW -----	1
40	50305 D	Feed Dog, main; for Style LF633K200MW -----	1
41	C52828 K-16	Throat Plate, for Style LF633K200MW -----	1
42	52820 K-16	Presser Foot, for Style LF633K200MW -----	1
43	13130 B	Shank, presser foot -----	1
44	91	Screw -----	1
45	73 A	Screw -----	1
46	605	Screw -----	1
47	11534	Spring -----	1
48	52830 K-16	Bottom, presser foot -----	1
49	13130 A	Section, yielding -----	1
50	22799 B	Screw -----	1



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ATTACHMENTS AND ASSOCIATED PARTS

(FOR STYLES LF632K200MV and LF633K200MW)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	25 CC	Screw -----	2
2	92127	Screw -----	1
3	23432 B	Clamp, folder -----	1
4	22882	Screw -----	2
5	50364 E	Washer, plate -----	1
6	50364	Holder, folder -----	1
7		Folder (See Chart Below) -----	1
8		Folder (See Chart Below) -----	1
9	50392 D	Spacer -----	2
10	23439 G	Strip Tension Assembly -----	1
11	51-561 BLK.	Guide -----	1
12	23439 E	Pin, adjustable -----	2
13	188 D	Screw -----	2
14	907	Nut -----	2
15	627 A	Screw -----	2
16	21169 E	Disc, binding holder -----	1
17	161	Collar, stop -----	1
18	88	Screw -----	1
19	SC303	Screw, wood -----	2
20	21169 F	Base, disc holder -----	1

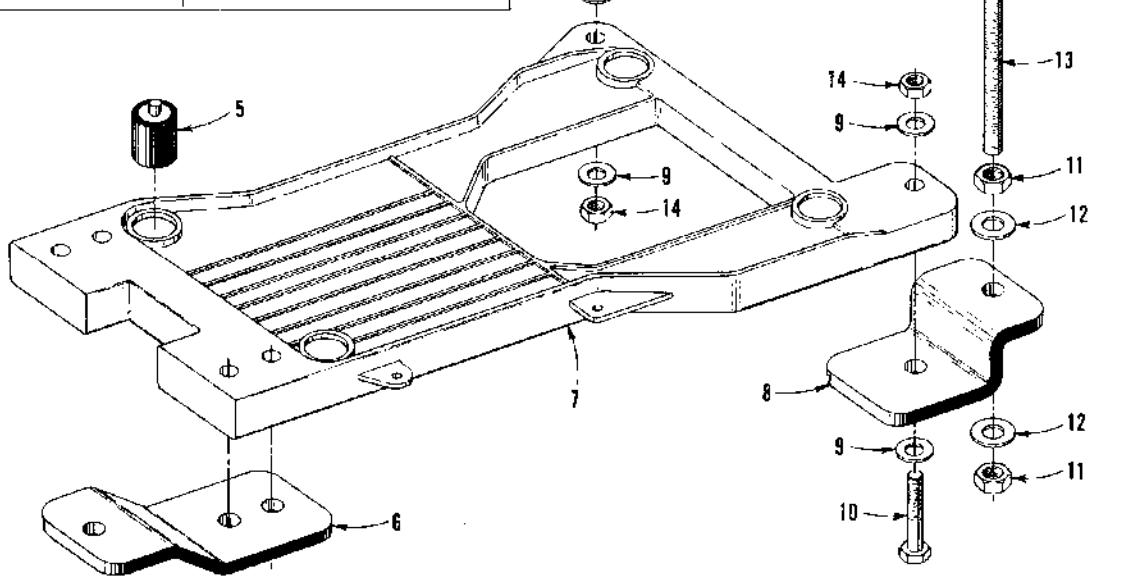
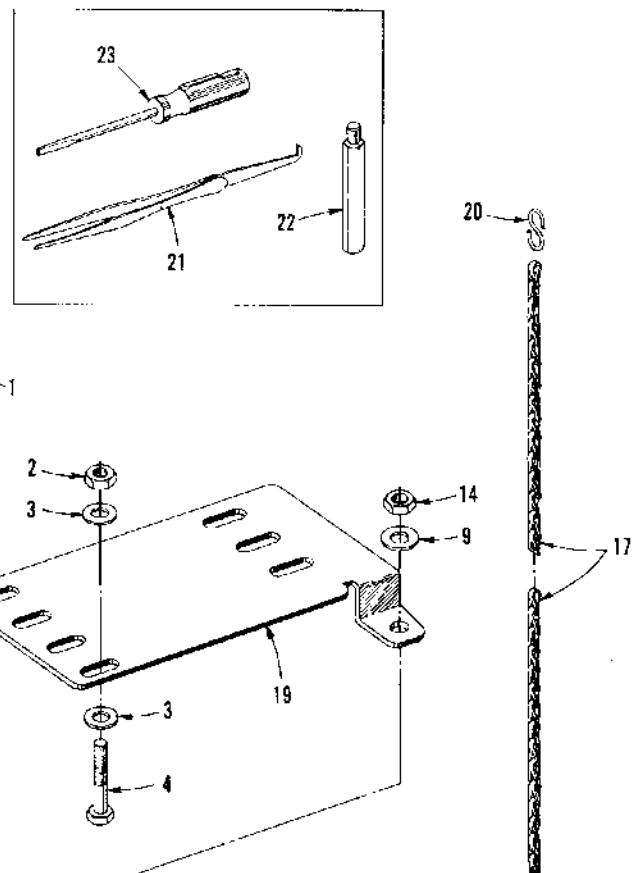
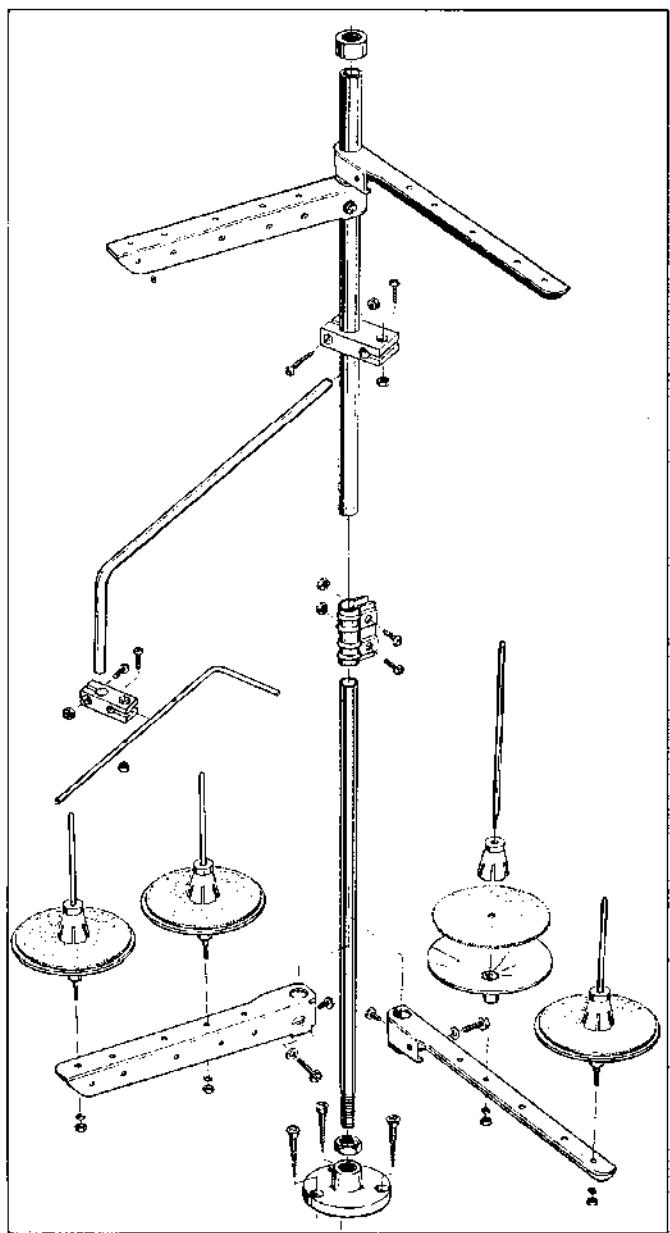
(FOR STYLES LF633K200MM and LF633K200MN)

21	79603 A	Support, guide -----	1
22	898 A-3	Washer, spring -----	1
23	898 A-4	Screw -----	1
24	99252	Screw -----	2
25	50303	Guide, edge -----	1
26	22564 D	Screw, stop -----	1

TABLE OF FOLDERS

<u>Ref. No.</u>	<u>Part No.</u>	<u>Machine Style Used on</u>		<u>Seam Type</u>	<u>Strip Size</u>	<u>Finish Size</u>	<u>Strip Capacity</u>
14	23406 R-1/2	MV-8-1/2	MV-12-1/2	BSb-1	1-1/4" (31.8mm)	1/2" (12.7mm)	Top* 3/64" (1.2mm)
	23406 R-5/8	MV-8-5/8	MV-12-5/8	BSb-1	1-1/2" (38.1mm)	5/8" (15.9mm)	Top* 3/64" (1.2mm)
	23406 U-3/4	MV-8-3/4	MV-12-3/4	BSb-1	1-3/4" (44.4mm)	3/4" (19.0mm)	Top* 3/64" (1.2mm)
	23406 S-3/4	MV-8-3/4	MV-12-3/4	BSb-1	1-13/16" (46.0mm)	3/4" (19.0mm)	Top* 5/64" (2.0mm)
	K59055	MV-8-7/8	MV-12-7/8	BSb-1	2-1/8" (54.0mm)	7/8" (22.2mm)	Top* 3/64" (1.2mm)
	23406 T-7/8	MV-8-7/8	MV-12-7/8	BSb-1	2" (50.8mm)	7/8" (22.2mm)	Top* 5/64" (2.0mm)
	K64049	MV-8-1	MV-12-1	BSb-1	2-1/4" (57.2mm)	1" (25.4mm)	Top* 3/64" (1.2mm)
	23406 T-1	MV-8-1	MV-12-1	BSb-1	2-1/4" (57.2mm)	1" (25.4mm)	Top* 5/64" (2.0mm)
15	K64050	MV-8-1-1/4	MV-12-1-1/4	BSb-1	2-3/4" (69.8mm)	1-1/4" (31.8mm)	Top* 5/64" (2.0mm)
	23406 N-3/4	MW-16-3/4		BSa-1	1-1/2" (38.1mm)	3/4" (19.0mm)	5/64" (2.0mm)
	23406 N-7/8	MW-16-7/8		BSa-1	1-3/4" (44.4mm)	7/8" (22.2mm)	5/64" (2.0mm)
	23406 N-1	MW-16-1		BSa-1	2" (50.8mm)	1" (25.4mm)	5/64" (2.0mm)
	23406 N-1-1/4	MW-16-1-1/4		BSa-1	2-1/2" (63.5mm)	1-1/4" (31.8mm)	5/64" (2.0mm)

* Above folders, producing seam Type BSb-1, finish 1/16" (1.6mm) wider on top than on bottom with 1/16" (1.6mm) margin to the left of left hand needle.



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THREAD STAND AND ACCESSORIES

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	21101 W-4	Thread Stand Assembly, for 4-thread machines -----	1
-	21101 W-5	Thread Stand Assembly, for 5-thread machines -----	1
2	50335 T	Nut -----	1
3	652-16	Washer -----	6
4	22788 H	Bolt -----	3
5	35095 B	Isolator -----	4
6	21374 AP	Support -----	2
7	21374 AG	Cradle, machine -----	1
8	21374 AU	Support -----	1
9	RM3293-3	Washer -----	14
10	22641	Bolt -----	5
11	RM3211-5	Nut -----	9
12	RM3293-4	Washer -----	6
13	21374 AT	Rod, threaded -----	3
14	RM3211-3	Nut -----	9
15	21374 AM	Rod -----	3
16	651 M	Nut -----	6
17	421 D-42	Chain, presser foot lift -----	1
18	21371 PY-32	Rod, threaded -----	1
19	21374 BB	Bracket, motor mounting -----	1
20	660-264	Hook, "S" -----	2
21	660-240	Tweezer, thread -----	1
22	22841 M	Stand, machine -----	4
23	21207 B	Screwdriver -----	1
	28604 R	Container of oil, 16 ounces (455 ml.), Spec. 175, (not shown) -----	1

CHIP CHUTE PARTS

* 1	35078 B	Upper Chip Chute
1	39578 AS	Lower Chip Chute
2	22652 D10	Screw
1	39578 AP	Top Piece
*	50378 C	Right Angle Chip Chute

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50368.....	33	50393 AW.....	25	79603 A.....	49
50368 A.....	33	50393 AX.....	25	79633.....	47
50368 B.....	27	50393 AY.....	25	80630 D.....	31
50368 C.....	33	50393 BA.....	25	92127.....	49
50368 D.....	33	50393 BB.....	25	92978.....	29
50368 E.....	33	50393 BK.....	25	97127.....	29
50378.....	43	50394 B.....	25	99252.....	49
50380 A.....	29	50394 G.....	25	99277.....	39
50382 A.....	29	50394 J.....	29	99521.....	35
50382 D.....	29	50394 K.....	25		
50382 E.....	29	50394 L.....	25		
50382 F.....	29	50394 S.....	27		
50382 H.....	29	51292 A.....	43		

GENERAL PREVENTIVE MAINTENANCE SCHEDULE

LF 600 TASK	DAILY	AFTER FIRST MONTH	EVERY MONTH	EVERY -3- MONTHS	EVERY -6- MONTHS	Yearly
Check oil level (sight gauge)oil level between red lines.	LF600					
Check pump operation (oil flow indicator - top of arm)	LF600					
Clean lint and dirt from machine	LF600					
Check that all guards and shields are in place and being used	LF600					
Change oil-filter (housed-on machine bottom cover)		LF600		LF600		
Change oil (oil which conforms to U.S.C. spec 175 must be used)		LF600			LF600	
Clean lint and dirt from suction screen (inside bottom cover)						LF600
Clean head oil suction screen						LF600
Check tension on internal timing belts		LF600			LF600	
Inspect clutch/ positioner motor, V-belt, tension and wear					LF600	
Check clutch motor clutch/brake adjustment				LF600		
Clean lint from clutch/positioner motor air passages		LF600	LF600			
Check needle (S) bent, blunt, sharp or worn eye or groove	LF600					

**NOTE: SCHEDULING IS BASED ON NORMAL WORKING CONDITIONS FREQUENCY OF TASKS DEPENDS
ON MACHINE DUTY CYCLE TIME AND PERSONNEL RESPONSIBLE TO PERFORM TASK
DETERMINED BY PLANT MANAGEMENT.**

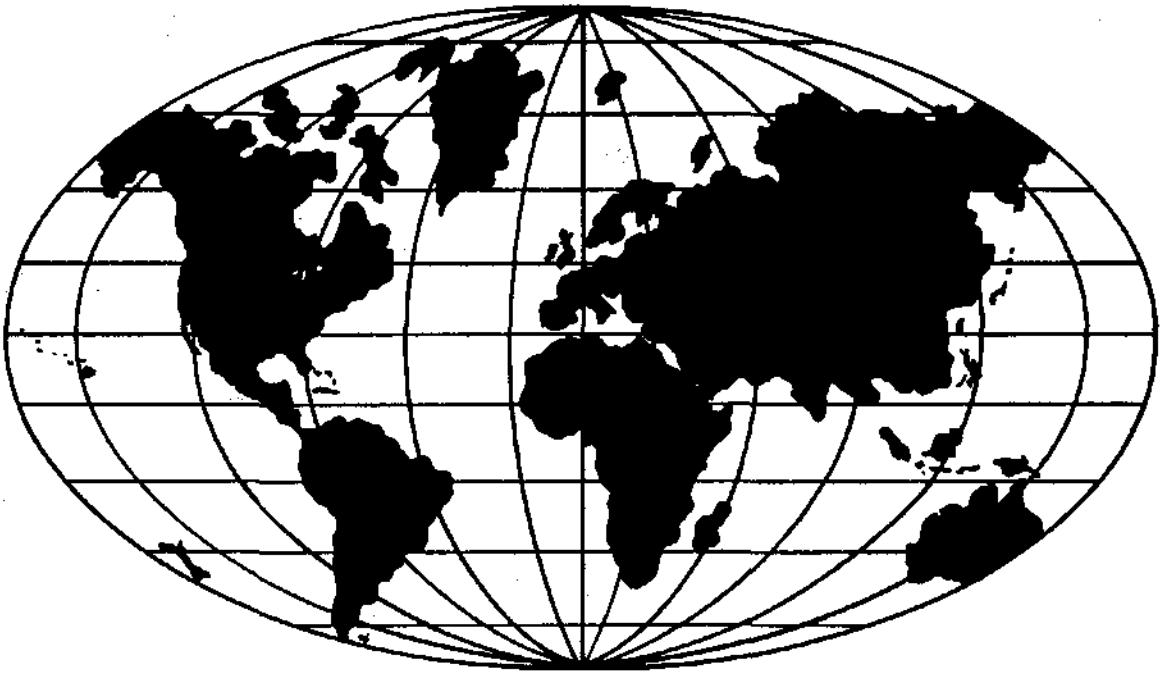
MACHINE INVENTORY INFORMATION

Unit Number	Maker's Name	Machine Style	Serial Number	Needle Type	Date Of Purchase

ADDITIONAL INFORMATION:

Notes: _____

Notes: _____



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