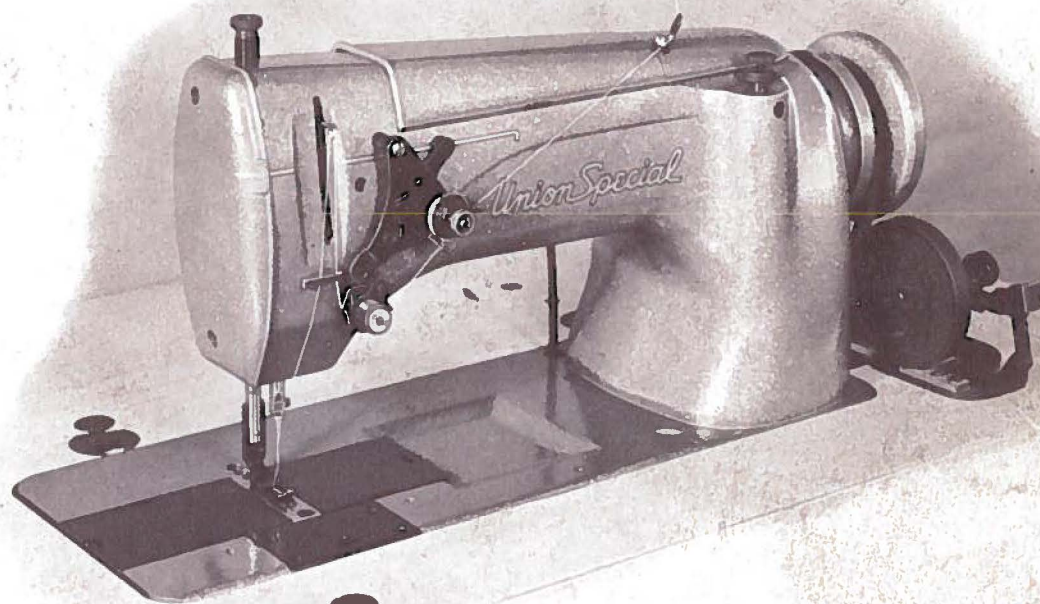


BEST QUALITY

Union Special®

LEWIS • COLUMBIA

INDUSTRIAL
SEWING
MACHINES



STYLES

61800 C

61800 D

61800 H

62200 G

62200 H

CLASSES 61800, 62200

CATALOG

No.

101L

Third Edition

STREAMLINED

NEEDLE FEED

LOCKSTITCH MACHINES

Union Special MACHINE COMPANY

CHICAGO

From the library of: Superior Sewing Machine & Supply LLC

Catalog No. 101 L

INSTRUCTIONS

FOR

ADJUSTING AND OPERATING

LIST OF PARTS

CLASSES 61800, 62200

Streamlined, Vertical Hook, Needle Feed, Lockstitch

Styles

	61800 C	
61800 D		62200 G
61800 H		62200 H

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

Third Edition

Copyright 1960
by

Union Special Machine Co.
Rights Reserved in All Countries

Union Special
MACHINE COMPANY
INDUSTRIAL SEWING MACHINES
CHICAGO

Printed in U.S.A.

August, 1967

FOREWORD

The predominant idea behind *Union Special* is to build the best industrial sewing machines in the world. The new high speed, streamlined, vertical hook, needle feed lockstitch machines are a decided achievement along these lines. All parts are made to precision gauges insuring complete interchangeability. A few of the outstanding new features are:

1. STREAMLINED DESIGN

Pleasing in appearance, this functional design provides greater stability and ruggedness, freedom from difficult-to-clean recesses; new neutral taupe finish is more restful to the eyes.

2. SIMPLIFIED OILING

Lubrication of these machines is automatic with the exception of three oil holes in upper arm. (See diagram, Fig. 1.)

3. FLEXIBLE COUPLING

Maximum gear life is produced by the flexible coupling located in the lower main shaft.

4. PERMANENT HOOK TIMING

After the hook has been timed according to factory procedure, and the hook shaft gear retaining screws secured, hook may be removed and replaced without further attention to setting and timing.

5. RAPID ACCELERATION

Precision methods in the manufacture of component parts makes possible top operating speed almost instantaneous.

It is our constant aim to furnish concisely prepared information that will enable the customers to procure all possible advantages from the use of Union Specials. The following pages illustrate and describe parts for styles in Classes 61800, 62200.

ADJUSTING INSTRUCTIONS for MECHANICS covering the 61800 C, D and H and 62200 G and H call attention to parts important to meeting conditional adjustments described with use of illustrations.

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

Union Special MACHINE COMPANY

Engineering Department

IDENTIFICATION OF MACHINES

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

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

APPLICATION OF CATALOG

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

IDENTIFYING PARTS

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

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

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

TERMS

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

NEEDLES

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

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

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

NEEDLES (Continued)

TYPE NUMBERS AND SIZES

Two types of needles are sold for use in Classes 61800 and 62200. For the standard machines, use needle Type 180 GL. For operations of an extremely heavy nature, needle Type 182 GA is available.

Each needle is stocked by Type number and Size number:

Type Number	The kind of shank, point, length, groove, finish and other details.
Size Number	The largest diameter of the blade (measured in thousandths of an inch across the eye) is stamped in the shank of each needle.

To have orders promptly and accurately filled, the empty package, a sample needle or the Type and Size number should be given. Use description on label. A complete order would read as follows: "1000 needles, Type 180 GL, Size 036". The Type numbers of the needles available for use in the styles of machines covered in this catalog are listed below. Beside the Type number is given the description of the needle:

Type No.	Description
180 GL	Lockstitch, short length, ball eye, single groove, deep spot, ball point, chromium plated, sizes - 032, 036, 040, 044, 048, 054, 060, 067.
182 GA	Lockstitch, long length, ball eye, single groove, deep spot, chromium plated, sizes - 044, 048, 054, 060, 067.

ORDERING REPAIR PARTS

ILLUSTRATIONS

The arrangement and purpose of this catalog is to facilitate easy and accurate ordering of Union Special Machine Company replacement parts.

Five Exploded View plates cover the Standard Styles listed in this catalog. Each plate presents a sector of the machine, parts aligned in assembled position. Small keyline views show by blackened area where parts fit in the assembled machine.

Sub-assemblies are covered in the Exploded Views by dotted line boxes.

Each plate bears respective reference numbers and arrows for each component part available. The part description, the amount required plus the Union Special Machine Company part number used when ordering is found on page facing illustration.

ILLUSTRATIONS (Continued)

Component parts of sub-assemblies which can be furnished for repairs are indicated by indentation of description under the description for the main sub-assembly. Example:

Ref. No.	Part No.	Description	Amt. Req.
55	51239 L	Feed Driving Connecting Ball	
		Joint, upper -----	1
56	97 A	Screw -----	2

It will be noted in the above example that the shell and the ball stud are not listed. Replacement of these parts is not recommended. Complete sub-assembly should be ordered.

Basically, Classes 61800 and 62200 are the same except Class 61800 is a single needle while the Class 62200 is a two needle; therefore, all parts for the standard machine are the same. In some cases, the quantity requirement is changed. Special plates near the back of this revised edition give separate and complete lists of sewing parts applicable to Styles 61800 C, 61800 D, 61800 H, 62200 G, 62200 H.

Near the back of this catalog is a numerical index of parts. Listed are part and page numbers where components are shown for accurate and complete description.

STYLES OF MACHINES IN CLASSES 61800 AND 62200

Streamlined Flat Bed Lockstitch Machines, Light, Medium and Heavy Duty, Needle Feed and Drop Feed, Rotary Hook, Vertical Hook Shaft, Thumb Screw Stitch Regulator with Locking Device, External Needle Thread Tension Mechanism, One Reservoir Enclosed Automatic Lubricating System for Main Driving Mechanism, Separate Reservoir for Automatic Lubrication of Rotary Hook Mechanism, Upper Left Head Mechanism Manually Lubricated, Maximum Work Space to Right of Needle Bar 10 Inches.

61800 C Single Needle Machine for miscellaneous seaming operations on light, medium and heavy weight materials; equipped with hinged bottom presser foot.

61800 D Single Needle Machine for top stitching waistbands to trousers; equipped with double action compensating presser foot.

61800 H Single Needle Machine for miscellaneous operations on medium and heavy work, requiring heavy thread. 16-4 cord is maximum usable thread size. Hinged bottom presser foot.

62200 G Two Needle Machine for miscellaneous seaming operations on work shirts, overalls, work pants, dungarees, corsets and other foundation garments, jackets, shop coats, aprons and similar light, medium and heavy weight articles.

62200 H Two Needle Machine for miscellaneous operations on overalls, western type dungarees, jackets, medium weight canvas, upholstery and similar items requiring the use of heavy thread. 16-4 cord is maximum usable thread size.

OILING INSTRUCTIONS

There are three oil reservoirs on the Class 62200 machines which are filled through the oil cups "C", "D" and "E" (Fig. 1). Each hook is automatically lubricated from its own reservoir by a spiral oil screw. The amount of oil required for each hook may be adjusted for by a metering screw located at the bottom of the reservoir. The main reservoir which houses the gears, stitch regulating mechanism, needle feed driving mechanism, upper main shaft bearing etc., lubricates these parts by a splash action and also supplies oil to the lower feed mechanism through the lower shaft.

The level of the oil in the three main reservoirs can readily be observed at the lucite gauges "F", "G" and "H". The manually oiled holes "A", "B" and "J" lubricate the head mechanism, the left upper main shaft bearing, and needle bar frame pivot pin, respectively.

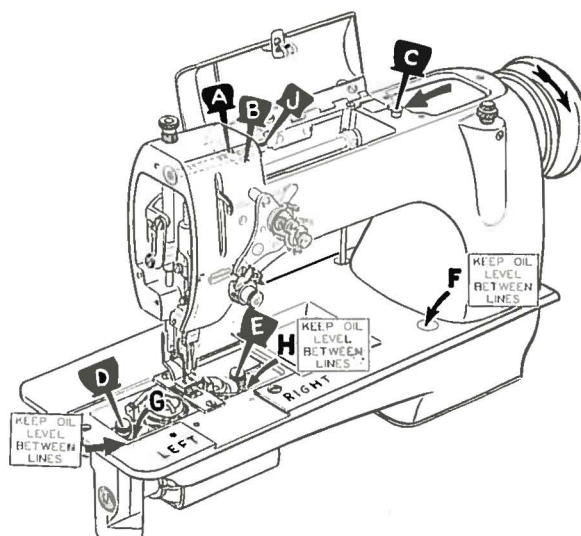


Fig. 1

Use a straight mineral oil of a Saybolt viscosity of 200 to 250 seconds at 100° Fahrenheit for all oiling places. Lubricate machine at points "A", "B" and "J" twice daily, depending on operating conditions, and add oil to cups "C", "D" and "E" to maintain levels between lines of the sight gauges "F", "G" and "H".

CAUTION! The main reservoir and hook reservoirs (or reservoir) is drained before the machine is shipped and must be filled before starting to operate.

The oiling for Class 61800 is the same as for Class 62200, except there is only one hook reservoir.

THREADING INSTRUCTIONS

THREADING THE NEEDLES

Follow instructions in threading diagrams (Figs. 2 and 3) for correct threading of needles and associated eyelets.

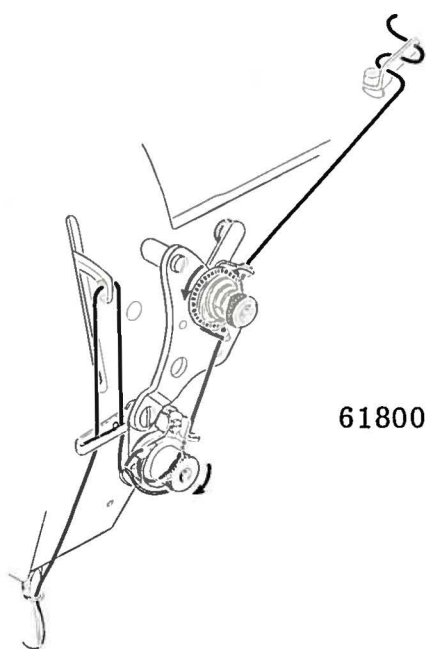


Fig. 2

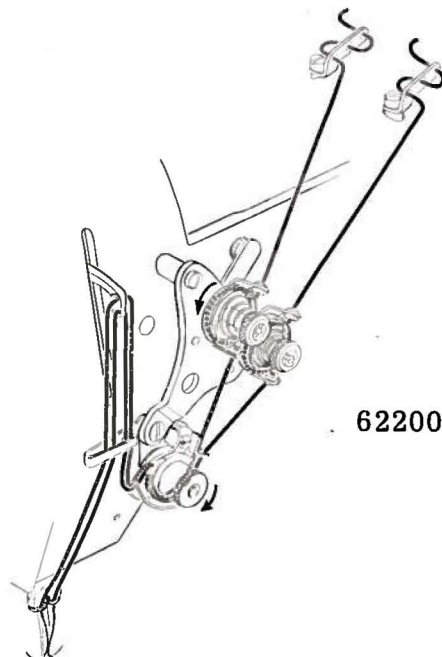


Fig. 3

WINDING THE BOBBIN

Thread the bobbin winder by leading the thread from the supply down through the eyelet (A, Fig. 4), down between the tension discs, and under the tension post. Press an empty bobbin on the winder shaft (B) up to the stop, wind the end of thread around the bobbin a few turns in a clockwise direction and press downwardly on hand lever (C) until pulley is moved into contact with machine belt, and is locked in that position. When the machine is operated, the bobbin will be rotated and filled until the thread engages the automatic throw-out member, which disengages the pulley. The extent to which the bobbin is filled can be varied by the regulating screw (D).

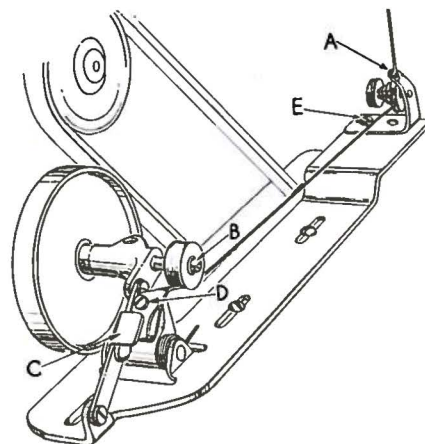


Fig. 4

The tension post bracket is mounted on the winder base, and can be shifted from left to right by loosening screw (E) so that any tendency of the bobbin to wind unevenly may be readily corrected.

The purpose of the bobbin winder is to assure the operator a full bobbin at all times. When the bobbin in the machine is used up, replace it with a full one and begin to wind the empty bobbin immediately. Bobbins can be rewound while machine is sewing.

INSERTING THE BOBBIN

Place the bobbins in the hooks so that they unwind in the opposite direction to that of the hook rotation (Fig. 5). Pull the threads into the slots of the bobbin cases (A). This operation will bring the bobbin threads between the tension springs and the bobbin cases. Adjust bobbin thread tension, by regulating the pressure on spring (B) with screw (C) on both bobbin cases, so that there is a slight drag on the thread. Make sure that the bobbin thread is between the tension spring and bobbin case.

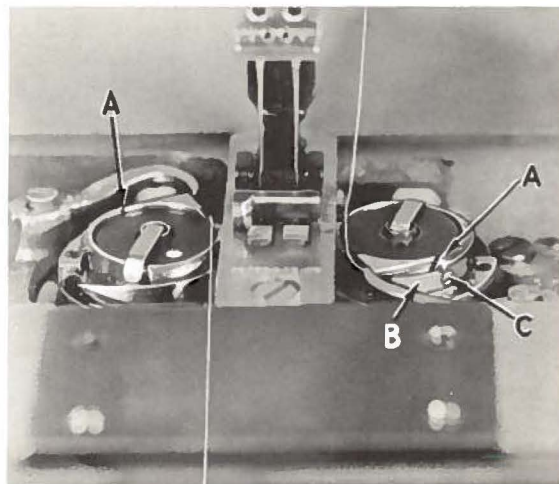


Fig. 5

ADJUSTING INSTRUCTIONS FOR MECHANICS

CHECKING THE FLOW OF OIL FROM THE HOOK SHAFTS

Oil is filtered to the hook shafts from the oil reservoirs. All of the hook opener mechanisms are maintained in peak operative condition by running in oil. Daily checks for adequate oil supply in the reservoirs are important.

CHECKING THE FLOW OF OIL FROM THE HOOK SHAFTS (Continued)

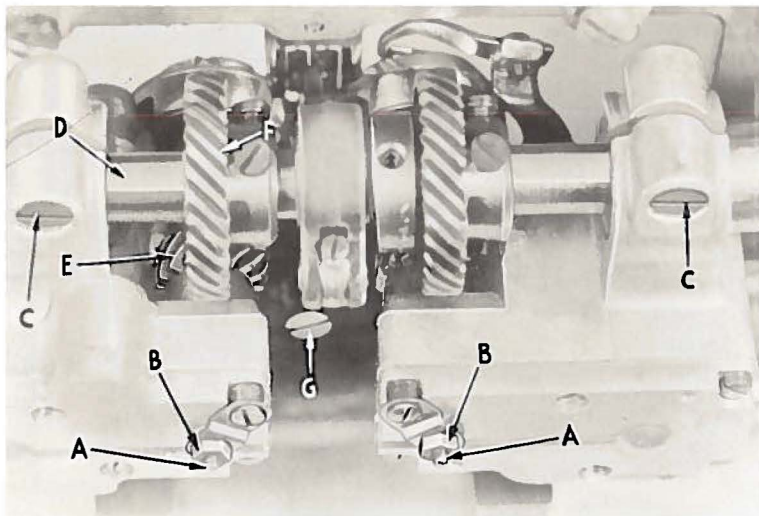


Fig. 6

The metering pins (A, Fig. 6) are the control screws for the quantity of oil flowing to the hooks. Regulate these pins somewhere between $1/2$ and $3/4$ of a turn from the closed position for normal flow requirements.

Check and regulate the flow of oil to the hook shafts by, first, loosening the lock nuts (B, Fig. 6) and with fingers, opening the metering pins 4 or 5 turns to allow a test maximum flow of oil to the hooks. Tighten the nuts; run the machine until oil sprays from the shafts or hooks. Then loosen lock nuts, turn pins in until they set and back off $1/2$ to $3/4$ turn. Tighten lock nuts, and holding

piece of yellow paper behind the hooks and parallel with the hook shafts, run the machine for about a minute to make sure that a fine spray of oil appears on the paper.

Additional checks are normally required at time of new installation and when refilling the reservoirs of machines that have been allowed to run completely dry.

NOTE: Check of oil from the hook shafts may also be made while hooks are out of the machine.

SETTING THE NEEDLE BAR

The setting of the needle bar (A, Fig. 7) to the proper needle bar height timing line will, in practically all cases, produce the optimum location of the needle loop with respect to the hook point for proper loop pick up.

A maximum "down" position of the needle bar may be established by turning the handwheel in the direction of operation until the crank pin and the needle bar connecting link align perpendicular behind the needle bar. (Looking into end as shown by Fig. 7, pin and link cannot be seen.)

Needle bar height adjusting is governed by the length of the needle used. Two sets of timing lines (B, Fig. 7) are engraved on every needle bar to assure accurate timing. The upper pair is used when Type 180 GL "short length" needles are specified, the lower pair is used with needle Type 182 GA "long length".

Set the upper timing line of the pair selected for timing (depending on the type needle being used) flush with the lower edge of the needle bar bushing (C). This is done by loosening screw "D" in the needle bar clamp and while holding the needle bar clamp in its "down" position, moving the needle bar as required. Tighten clamp screw at this position.

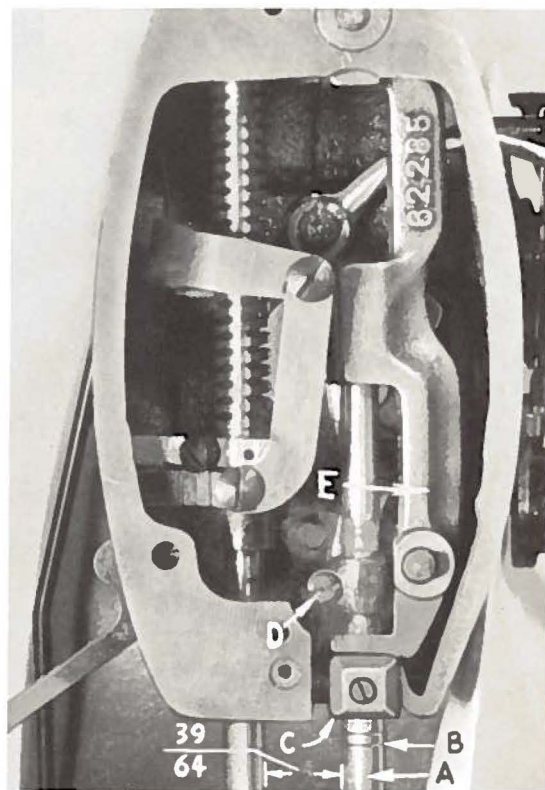


Fig. 7

SETTING THE NEEDLE BAR (Continued)

To position the needle bar in relation to the presser bar, first set the needle bar at the bottom of its stroke. Then, remove the top reservoir cover at the right end of the machine. Loosen clamp nut (B, Fig. 8) of the feed driving lever (A) and swing the needle bar frame (E, Fig. 7) forward or backward in the line of feed until the factory specified distance of $\frac{39}{64}$ inch is obtained between the needle bar and the presser bar. (Gauge No. 21227 BL is available for measuring this adjustment.) After needle bar meets required setting, tighten clamp nut (B, Fig. 8) and re-assemble cover.

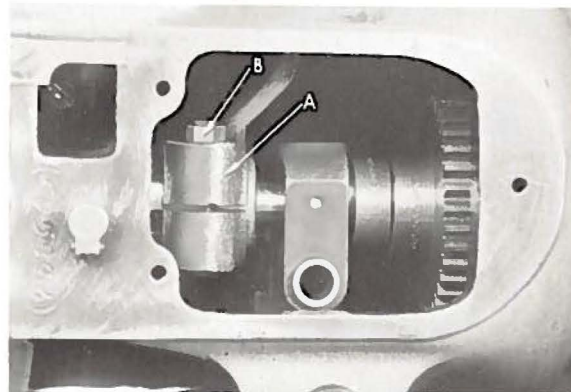


Fig. 8

TIMING

Timing is the synchronization between the upper main shaft and the lower main shaft.

To change or check the timing between the lower and upper main shafts, remove the head cover and the main gear case reservoir bottom cover (Fig. 9).

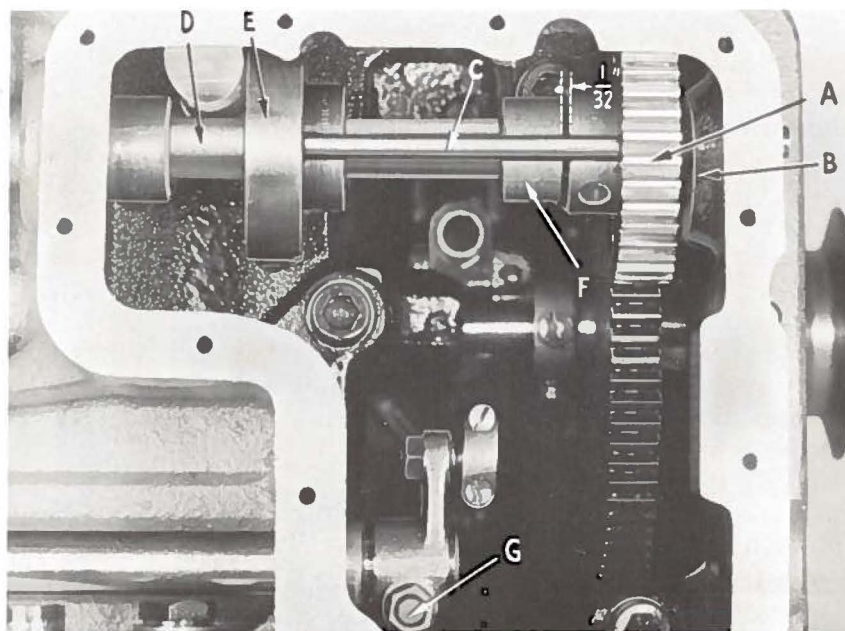


Fig. 9

Make certain (by a visual check) that the needle bar is in its maximum "down" position by turning the handwheel in direction of operation until crank pin and the needle bar connecting link align perpendicular behind the needle bar.

Timing between the needle bar and the feed lift eccentric (not illustrated but located on the lower feed shaft) is determined by angular relativity between flats of the upper main and lower main shafts.

TIMING (Continued)

Upon location of the needle bar in its maximum "down" position, the timing may be checked by looking into the main reservoir at bottom. If the machine is timed properly, the flexible coupling pin (C, Fig. 9) will line up with the center of the lower main shaft (D). It will also be noted that the end of the pin (C) which is held in gear (A) will line up with the small casting boss (B). Since the flexible coupling head (E) has two pins, located 180° apart, care must be taken to choose the correct pin for the timing checking. The correct pin (C) which is farthest away from the two hub securing screws, is to be used for this check.

If timing is incorrect, it will be necessary to move the lower main shaft (D) to the left far enough to remove it from the coupling. The gear with the hub and its pins should then be remeshed with the idler gear to produce the location of the correct coupling pin (C) as shown in the illustration. If the coupling hub (E) is removed from the lower main shaft, the hub screw that is used as the timing screw on the lower main shaft timing flat, is the first screw coming into view as the shaft is turned in operating direction. Replace gear case cover of bottom reservoir. Use no gasket sealing compound on any gaskets.

NOTE: There should be about 1/32 inch space between the main shaft collar (F) and the flexible coupling gear (A) when this coupling gear is fixed in operating position at extreme right.

Final check on timing can be made after machine is adjusted by observation of the entry of the needles into the feed dog holes (A, Fig. 10). The point of the needles should enter the feed dog holes as the feed dog is just passing the top of the throat plate.

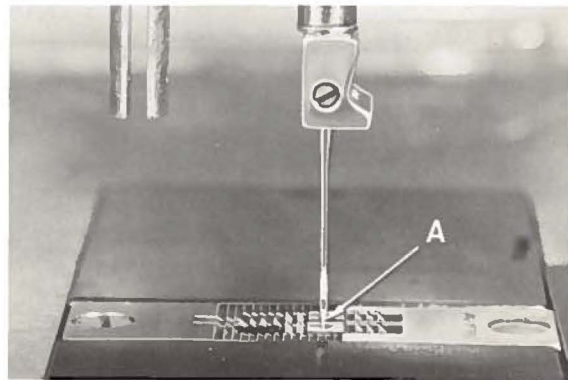


Fig. 10

LOCATING THE FEED DOG

Having previously spaced the needle bar with the presser bar, the position of feed dog with respect to the needles may be checked. The feed dog is to be so aligned in the line of feed that the needles will enter the needle holes at the center or just slightly to the front. Should an enlarged needle hole be required, countersink the feed dog from the top, and, if possible, do not enlarge the bottom of the needle hole.

To center needles in the feed dog in the line of feed, remove the bottom cover of the main reservoir exposing the clamp screw (G, Fig. 9) in the feed driving arm. Loosening the screw enables the feed rocker shaft to be rotated to secure the proper location of the feed dog. Retighten clamp screw and replace main reservoir bottom cover.

To adjust the feed dog across the line of feed, loosen the feed rocker set screws (A, Fig. 11) and move the feed rocker (B) in the required direction to center the needle in the feed dog needle hole.

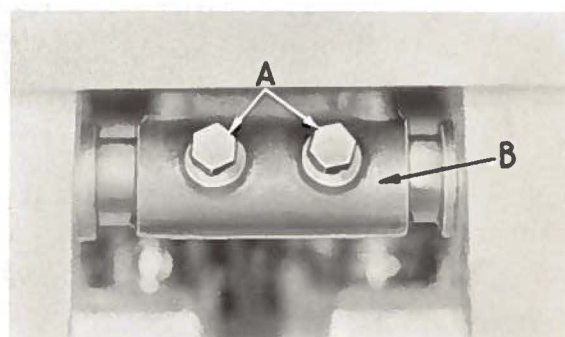


Fig. 11

TIMING THE HOOKS

The correct position of the hooks on their shafts is of great importance. The timing between the hook opener finger and the hook is governed by the position of the hook time screw on the hook shaft flat. If the wrong hook screw is placed on the flat, the hook opening finger will be out of time with the hook.

The time screw intended for the flat on the shaft is the first one visible as the hook is turned in operating direction.

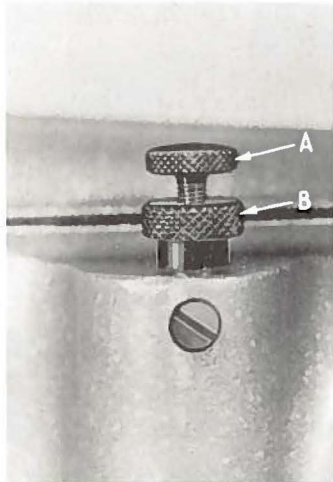


Fig. 12

Fig. 12 illustrates the stitch regulator. For timing the hooks, it is recommended the regulator be turned to produce shortest stitch length. To do this, turn the lock screw (A) counterclockwise to loosen. Turn the stitch regulator (B) also counterclockwise as far as possible. Lock in position by turning lock screw (A) clockwise.

Loosen the two screws on each of the hook shaft pinion gears (E, Fig. 6) so the hooks will turn freely with the hook shaft without turning the driving gears.

Visually check position of the needles. Make sure their spots face their respective hooks. Now, turn handwheel in operating direction to obtain a maximum "down" position of the needle bar. When this has been reached, continue to turn until lower timing line (of the pair selected) (B, Fig. 7) is flush with the bottom of the lower needle bar bushing. At this time, the hook point should be approximately 1/32 inch above needle eye.

The needle and the hook point should be approximately .003 inch apart (Fig. 13) while the needle guard is just brushing the needle (A) as the hook point is rotated back and forth across the needle. The hook needle guard may be bent slightly to obtain this condition.

Adjustment of the hooks, right or left, is accomplished by loosening the saddle screws (C, Fig. 6), and moving the hook saddles as required. (Note: Two screws in back are not shown.)

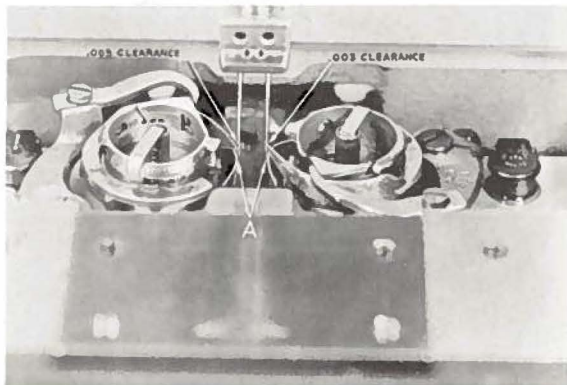


Fig. 13

After the saddle is correctly located and the retaining screws are tightened, (tightening the back screws first and the clamp screws last) the hook shaft driving gear (F, Fig. 6) should be centered on the hook shaft looking directly at the gear faces. The alignment of the driving gear and the hook shaft is extremely important if the maximum gear life and minimum gear sound are to be gained.

TIMING THE HOOKS (Continued)

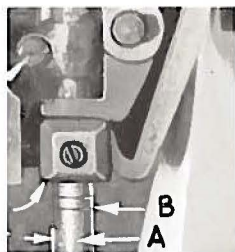


Fig. 14

When the saddles and their driving gears have been correctly positioned, the hooks may be timed by using the timing marks on the needle bar (B, Fig. 14). To maintain permanently the hook in its properly timed position, tighten the set screws on the hook shaft driven gear (E, Fig. 6).

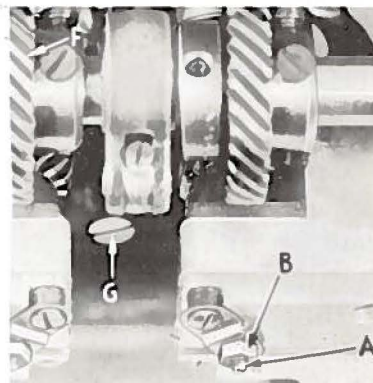


Fig. 15

Whenever it is necessary for a hook to be removed after this initial timing, the hook need only be replaced on the shaft with the timing screw against the flat on the hook shaft as described in paragraph 1. Automatically, the hook retains its correctly timed position.

SETTING THE FEED DOG HEIGHT

Place the throat plate in the machine. The approximate height of the feed dog teeth is .050 inch above the throat plate (Fig. 16) at the highest point of travel.

Height adjustment is accomplished by turning screw (G, Fig. 15) in the feed bar on which the bottom edge of the feed dog rests. Raise the feed dog to the desired height by turning the screw clockwise. To lower it, turn the screw in the opposite direction.

ADJUSTING THE HOOK OPENER FINGER

Place the opener finger (A, Fig. 17) in the machine. Turn the handwheel in the operating direction until the finger is at its maximum point of travel from the needle. While in this position, the opener finger should be moved tightly against the hook basket (E). Loosen screw (C) to make this adjustment. The opener finger should contact the cam surface on the basket for a length of $1/16$ inch. To make this adjustment, loosen the clamp screw (B) and the opener finger lever and swing the lever to the proper position to obtain the $1/16$ inch setting. The screw (D) is used to take up any vertical end play that may exist in the opener finger drive shaft. Now loosen screw (C) and move the opener finger approximately .005 inch away from the cam surface of the hook basket. Re-tighten screw.

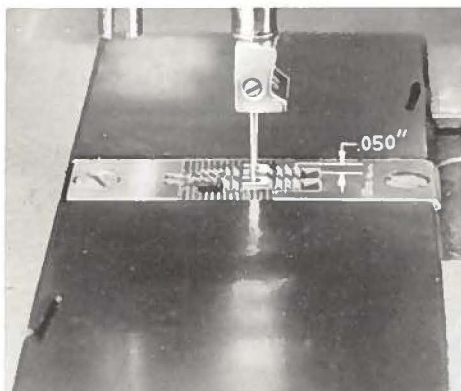


Fig. 16

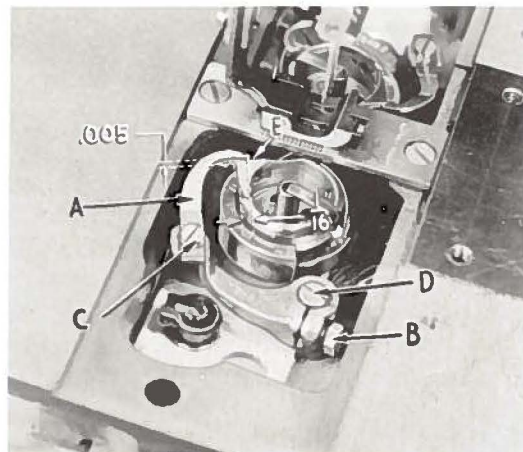


Fig. 17

ADJUSTING THE FOOT PRESSURE

The presser spring regulator (B, Fig. 18) atop the machine head controls the amount of pressure on the presser foot. Turning the thumbscrew in counterclockwise direction decreases foot pressure while clockwise turning increases it. Only enough pressure to feed the work uniformly is required.

With the hand lifter in down position (A, Fig. 18) the presser foot should rest securely on the throat plate. Approximately 1/16 to 1/8 inch should be maintained between the presser bar guide and the presser bar connection as the foot rests on the throat plate.

CHECK SPRING ADJUSTMENT

The take-up spring barrel (A, Fig. 19), which controls the needle thread should be set so that the lower spring stop is at the 9 o'clock position as shown (B, Fig. 19). Loosen

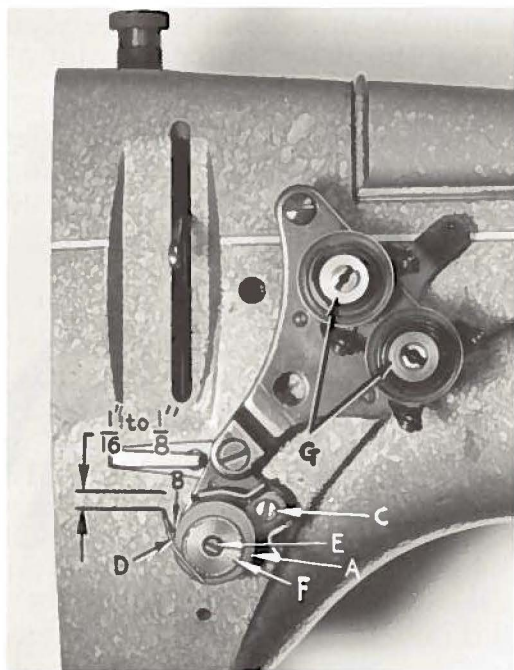


Fig. 19

screw (C) and turn barrel (A) immediately behind locknut (F) to make this adjustment. This recommended position for the barrel should be approximately correct for first sewing trials. Ultimately, the take-up spring barrel should be adjusted so that there is about 1/16 to 1/8 inch movement of the check spring (D) as the needle thread passes around the 6 o'clock position of the hook.

Test check spring tension (D). There should be enough tension to insure a good returning snap when spring is raised and released. The take-up spring adjusting screw (E) may be set so that the head slot slants from the 10 to 4 o'clock position for first sewing trials. This adjustment is made from the take-up pressure screw (E) position of no pressure, and turning the screw counterclockwise to above suggested position. Maintain this adjustment with locknut (F). Final check spring pressure adjustment will depend upon weight and type of thread and weight of fabric.

POSITIONING OF THE FRONT EYELET

Set the front frame needle thread eyelet (A, Fig. 20) in its lowest position parallel with the cloth plate.

ADJUSTMENT FOR CONTINUOUS SEWING

By sewing trials, adjust the needle thread tension (G, Fig. 19), check spring pressure and position (A), set the stitch length (A, Fig. 12) to required specifications.

Machine should sew continuously without thread breakage, circle tack, in line of feed tack, and across the line of feed tack, at all speeds.



Fig. 18

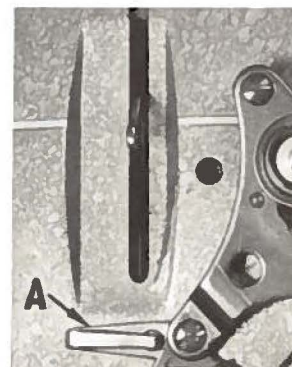
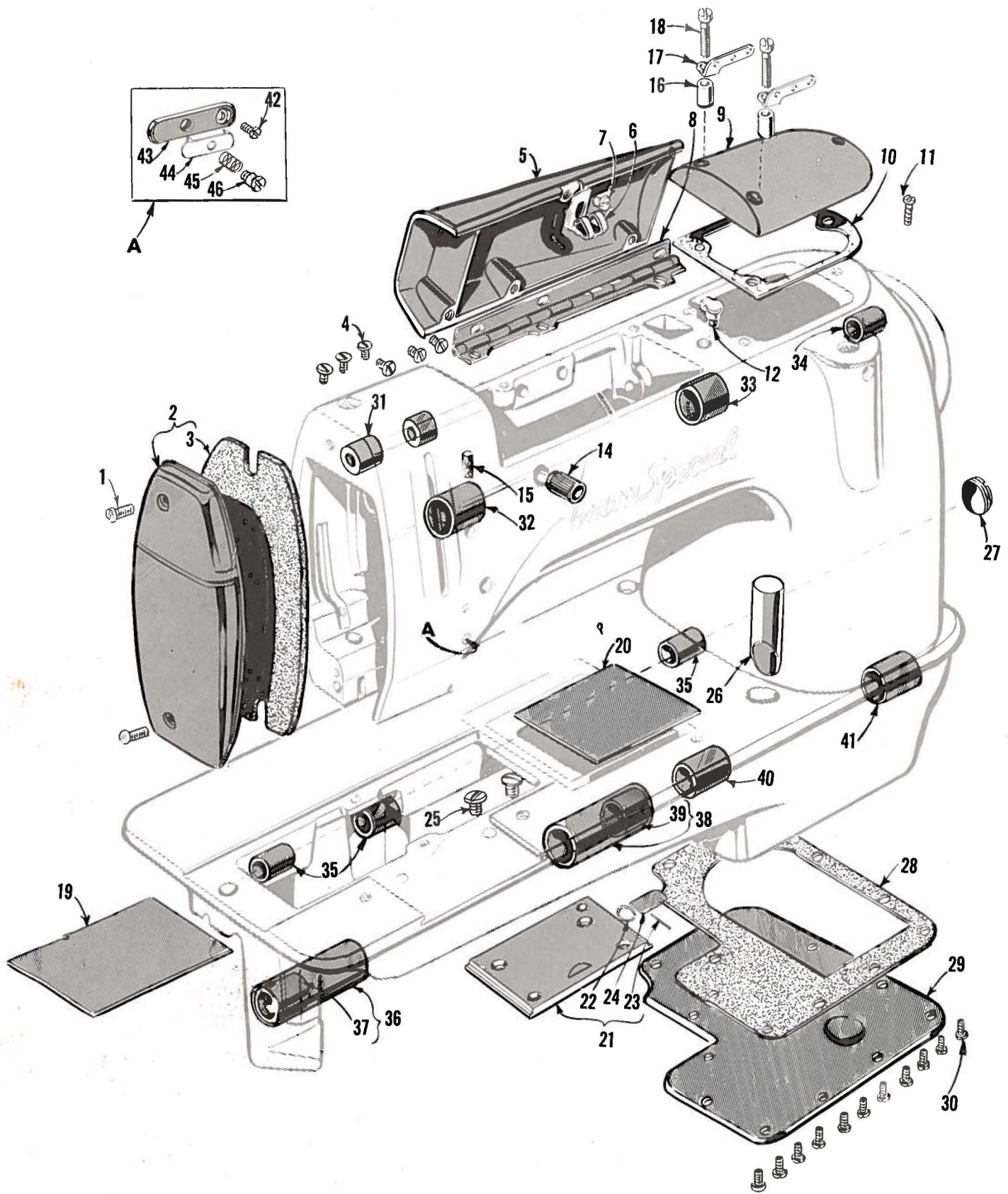


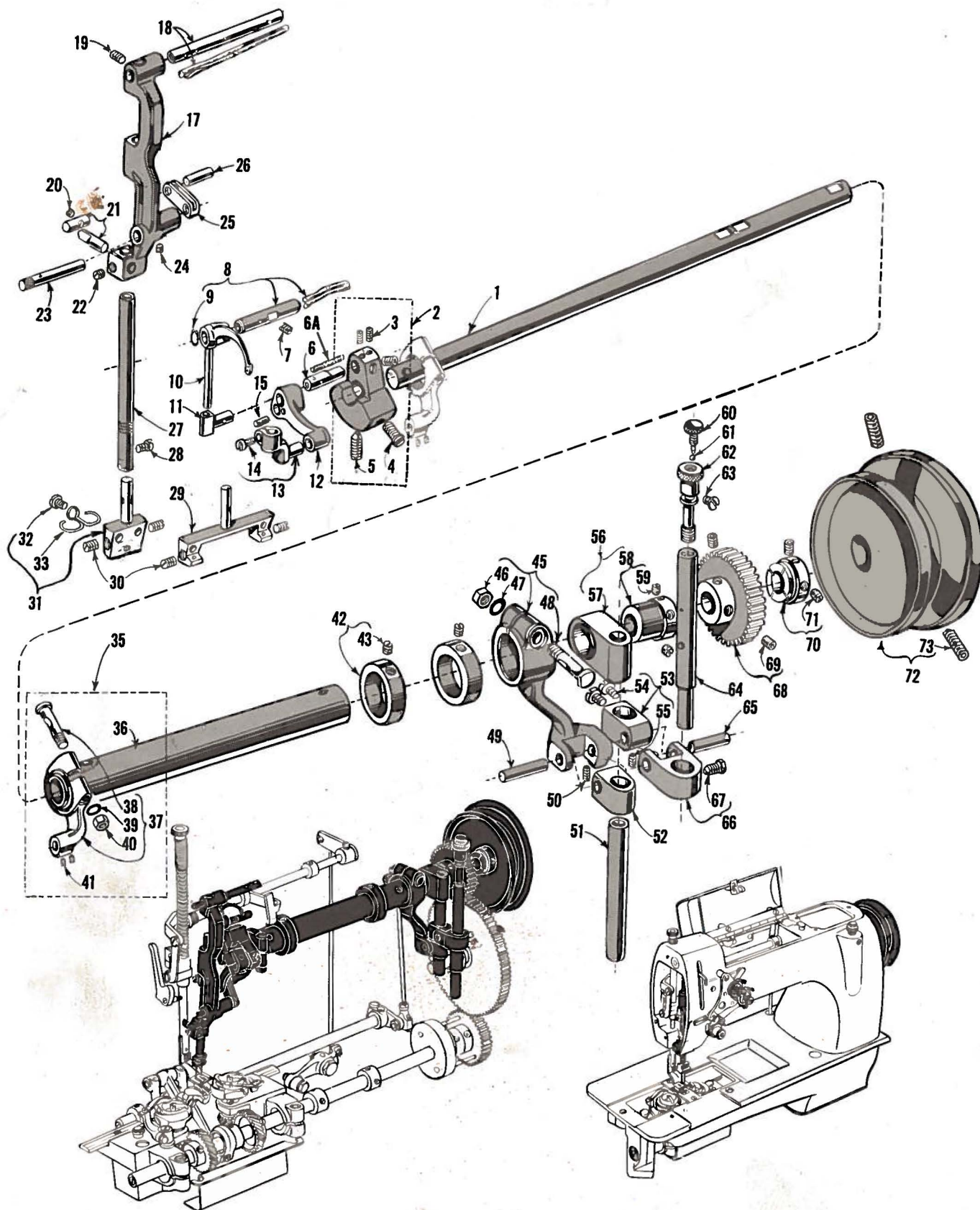
Fig. 20

EXPLODED VIEWS
PART NO. AND DESCRIPTIONS
NUMERICAL INDEX OF PARTS



MAIN FRAME BUSHINGS, COVERS AND PLATES

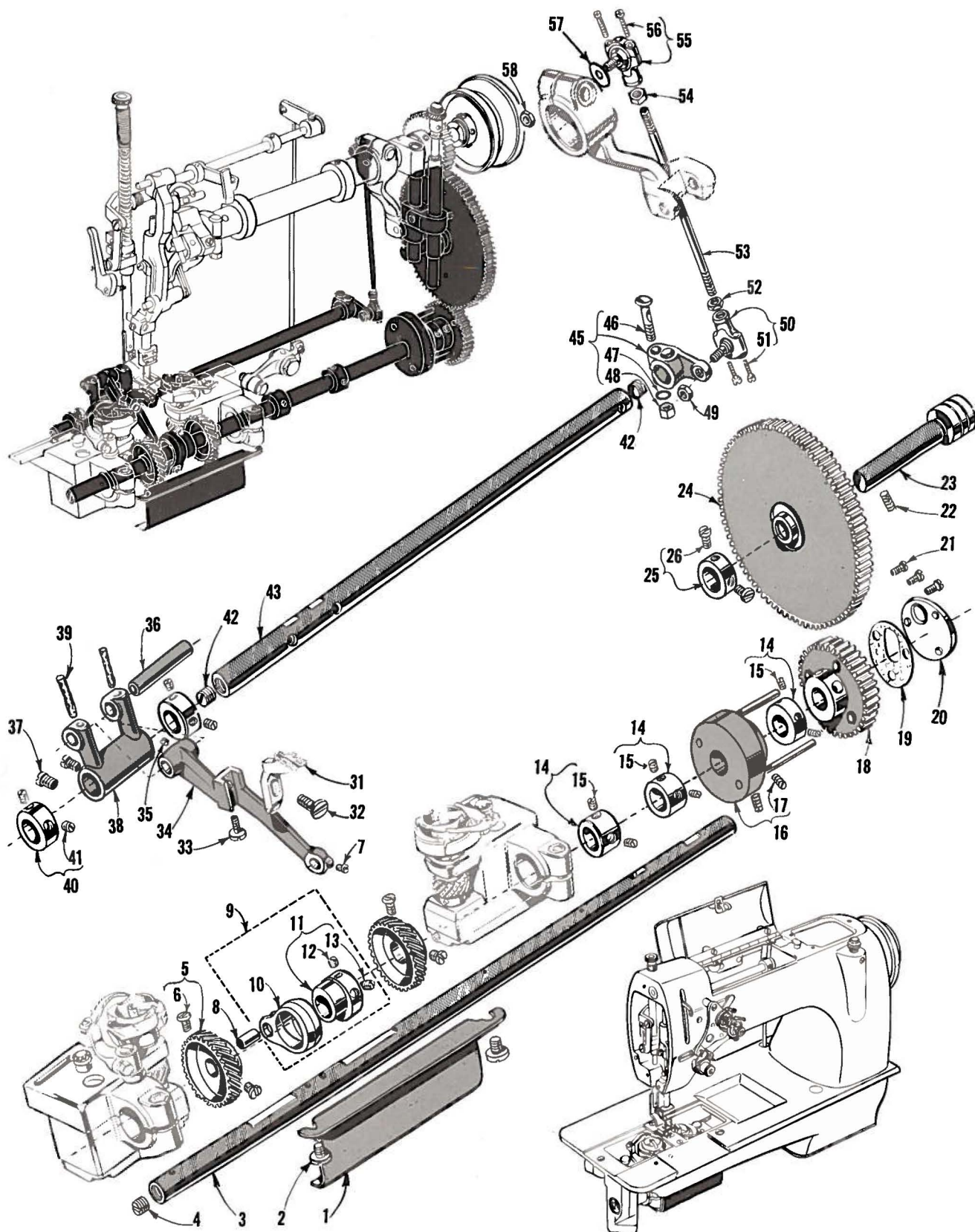
Ref. No.	Part No.	Description	Amt. Req.
1	22569	Screws, Head Cover -----	2
2	62282	Head Cover -----	1
3	62282 K	Sound Insulator -----	1
4	22569 D	Screws, Top Cover and Top Cover Hinge-----	6
5	62282 A	Top Cover, Hinged -----	1
6	62282 B	Top Cover Latch -----	1
7	22569 D	Screw, Top Cover Latch -----	1
8	62282 C	Top Cover Hinge -----	1
9	62282 D	Top Cover, right -----	1
10	62282 E	Gasket, Top Cover, right -----	1
11	22569	Screw, Top Cover, for 61800 -----	2
		Screw, Top Cover, for 62200 -----	1
12	666-117	Oil Cup-----	1
14	62292 M	Tension Release Pin Bushing -----	1
15	666-140	Oil Wick, Needle Feed Rock Shaft Bushing, left-----	1
16	62271 G	Eyelet Mounting Sleeve, for 61800-----	1
		Eyelet Mounting Sleeve, for 62200-----	2
17	61271	Needle Thread Lead-in Eyelet, for 61800 -----	1
		Needle Thread Lead-in Eyelet, for 62200 -----	2
18	294	Screw, Top Cover, for 61800 -----	1
		Screw, Top Cover, for 62200 -----	2
19	62202 F-125	Bed Slide, left, for 61800 and No. 8 gauge 62200 - - - - -	1
	62202 F-124	Bed Slide, left, for No. 12 gauge-----	1
	62202 F-123	Bed Slide, left, for No. 16 gauge-----	1
	62202 F-122	Bed Slide, left, for No. 20 gauge-----	1
	62202 D	Bed Slide, left, for No. 24 gauge-----	1
	62202 F-120	Bed Slide, left, for No. 28 gauge-----	1
	62202 F-119	Bed Slide, left, for No. 32 gauge-----	1
	62202 F-117	Bed Slide, left, for No. 40 gauge-----	1
	62202 F-115	Bed Slide, left, for No. 48 gauge-----	1
	62202 F-113	Bed Slide, left, for No. 56 gauge-----	1
	62202 F-111	Bed Slide, left, for No. 64 gauge-----	1
	62202 F-107	Bed Slide, left, for No. 80 gauge-----	1
	62202 F-103	Bed Slide, left, for No. 96 gauge-----	1
20	62202 G-98	Bed Slide, right, for No. 8 gauge -----	1
	62202 G-97	Bed Slide, right, for No. 12 gauge -----	1
	62202 G-96	Bed Slide, right, for No. 16 gauge -----	1
	62202 G-94	Bed Slide, right, for Nos. 20 and 24 gauges -----	1
	62202 G-92	Bed Slide, right, for Nos. 28 and 32 gauges -----	1
	62202 G-90	Bed Slide, right, for No. 40 gauge -----	1
	62202 G-88	Bed Slide, right, for No. 48 gauge -----	1
	62202 G-86	Bed Slide, right, for No. 56 gauge -----	1
	62202 G-84	Bed Slide, right, for No. 64 gauge -----	1
	62202 G-80	Bed Slide, right, for No. 80 gauge -----	1
	62202 G-76	Bed Slide, right, for No. 96 gauge -----	1
21	62202 N	Bed Slide, front -----	1
22	62202 T	Friction Spring, Bed Slide, front -----	1
23	62202 S	Retaining Spring, Bed Slide, front -----	1
24	62202 R	Friction Slide, Bed Slide, front-----	1
25	25 C	Screws, Bed Slide, front, and Attachments-----	2
26	50-568 Blk.	Oil Sight Gauge-----	1
27	22539 D	Plug Screw, Feed Rocker Rock Shaft Hole-----	1
28	62282 G	Gasket, Bottom Cover -----	1
29	62282 F	Bottom Cover -----	1
30	22569 C	Screws, Bottom Cover -----	11
31	62285 B	Needle Bar Frame Pivot Pin Bushings -----	2
32	62284 B	Needle Feed Rock Shaft Bushing, left -----	1
33	62284 A	Needle Feed Rock Shaft Bushing, right-----	1
34	62290 B	Main Shaft Bushing -----	1
35	62236 C	Feed Rocker Rock Shaft Bushing -----	3
36	62232 C	Lower Main Shaft Bushing Sleeve, left -----	1
37	62232 A	Lower Main Shaft Bushing -----	1
38	62232 D	Lower Main Shaft Bushing Sleeve, right-----	1
39	62232 A	Lower Main Shaft Bushing -----	1
40	62232 F	Lower Main Shaft Bushing, inside right -----	1
41	62232 B	Lower Main Shaft Bushing, right -----	1
"A" The use of these parts is recommended when sewing with nylon thread.			
42	22564 B	Screw -----	1
43	62271 F	Needle Thread Nipper Base-----	1
44	57 WB	Nipper Plate -----	1
45	15438 C	Needle Bar Thread Nipper Spring -----	1
46	57 WD	Screw -----	1



UPPER MAIN SHAFT, NEEDLE FEED DRIVE AND STITCH REGULATING MECHANISM

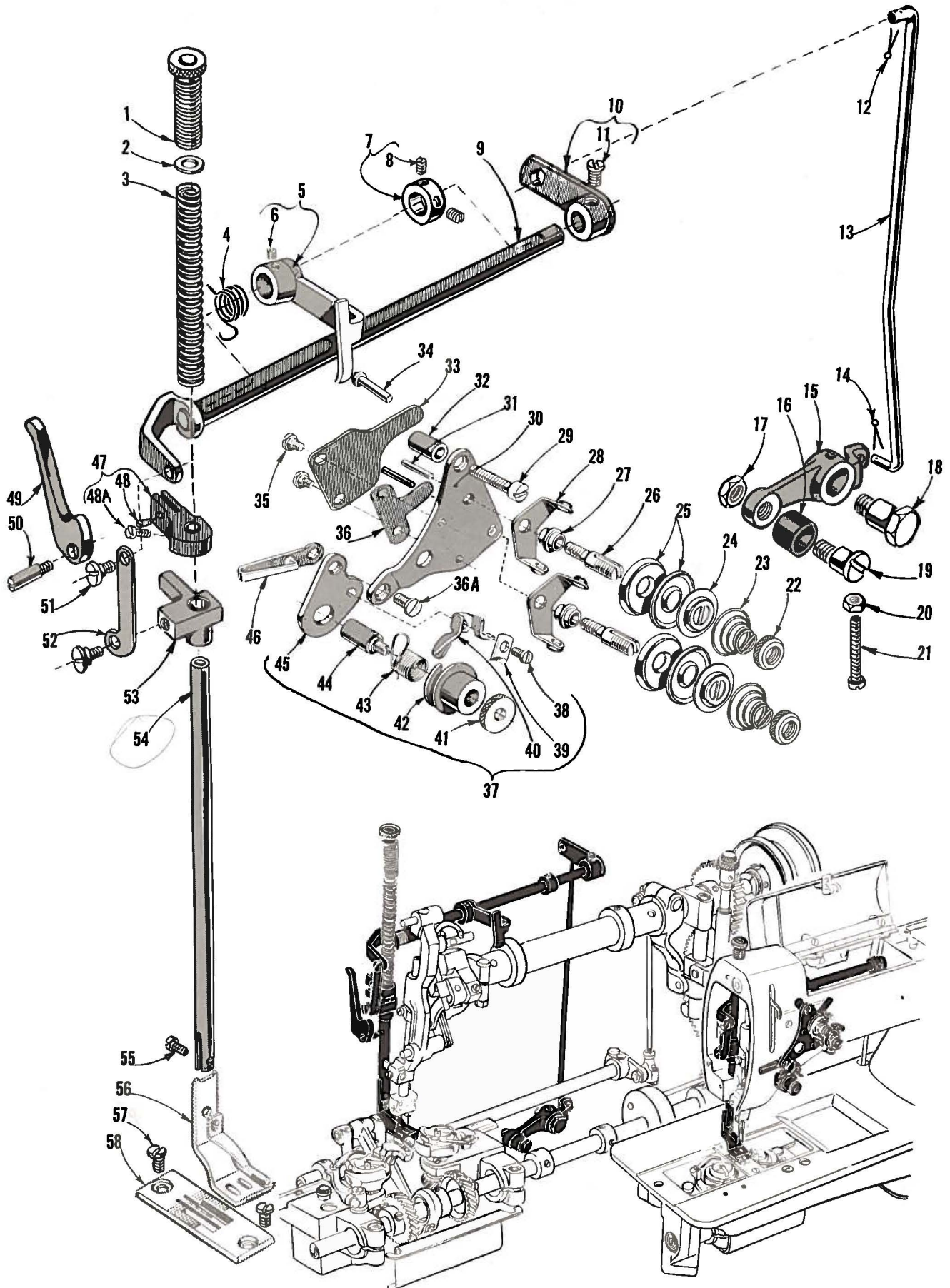
Ref. No.	Part No.	Description	Amt. Req.
1	62222	Upper Main Shaft -----	1
2	62291 A	Main Shaft Crank and Counterweight -----	1
3	22894 C	Set Screw, Main Shaft Crank-----	3
4	22884 A	Set Screw, Main Shaft Crank-----	1
5	22894 AC	Spot Screw, Main Shaft Crank-----	1
6	62252 A	Crank Pin-----	1
6A	666-137	Oil Wick for 62252 A -----	1
7	22533	Screw, Take-up Lever Stud -----	1
8	62251 B	Take-up Lever Stud -----	1
9	660-208	Retaining Ring, Take-up Lever Stud -----	1
10	62251 C	Take-up Lever -----	1
11	62251 A	Take-up Lever Sleeve -----	1
12	62255 B	Needle Bar Driving Link-----	1
13	62255	Needle Bar Connection Stud -----	1
14	22596 D	Screw, Needle Bar Connection Stud-----	1
15	666-113	Oil Wick, Needle Bar Connection Stud-----	1
17	62285	Needle Bar Frame -----	1
18	62285 A	Needle Bar Frame Pivot Pin -----	1
19	78	Screw, Needle Bar Frame Pivot Pin -----	1
20	22565 B	Screw, Needle Bar Frame Guide and Stud -----	1
21	62285 H	Needle Bar Frame Guide and Stud -----	1
22	95	Screw, Needle Bar Frame Guide and Stud -----	1
23	62285 D	Needle Bar Frame Rocking Link Pin, front -----	1
24	89	Screw, Needle Bar Frame Rocking Link Pin, front -----	1
25	62285 C	Needle Bar Frame Rocking Link-----	1
26	62285 E	Needle Bar Frame Rocking Link Pin, rear -----	1
27	62217 A	Needle Bar, for 62200-----	1
28	22845 H	Holding Screw, Needle Bar Head, for 62200-----	1
29	62218 A	Needle Bar Head, for gauges 40 thru 96 (specify gauge) -----	1
30	22743	Holding Screw, Needles -----	2
31	62218 A	Needle Bar Head, for gauges 8 thru 32 (specify gauge) -----	1
32	22798 B	Screw -----	1
33	62271 K	Needle Holder Eyelet, for 12 and 16 gauges -----	1
	62271 L	Needle Holder Eyelet, for gauges 20 thru 32-----	1
35	29475 X	Needle Feed Rock Shaft and Lever Assembly-----	1
36	62284 E	Needle Feed Rock Shaft -----	1
37	62284 C	Needle Feed Rock Shaft Lever -----	1
38	62283 F	Screw, Needle Feed Rock Shaft Lever -----	1
39	6042 A	Washer, Needle Feed Rock Shaft Lever-----	1
40	55235 E	Nut, Needle Feed Rock Shaft Lever -----	1
41	22565 C	Screw, Needle Feed Rock Shaft Lever -----	2
42	62284 D	Needle Feed Rock Shaft Locking Collar-----	2
43	95	Screw, Locking Collar -----	1
45	62283 B	Feed Driving Lever -----	1
46	55235 E	Nut, Feed Driving Lever -----	1
47	6042 A	Washer, Feed Driving Lever -----	1
48	62283 F	Screw, Feed Driving Lever-----	1
49	62283 H	Feed Driving Lever Guide Link Pin -----	1
50	22560 A	Screw, Feed Driving Lever Guide Link Pin -----	1
51	62283 E	Feed Driving Lever Guide Shaft -----	1
52	62283 G	Feed Driving Lever Guide, lower -----	1
53	62283 C	Feed Driving Lever Guide, upper-----	1
54	22570 A	Screw, Feed Driving Lever Guide, upper -----	2
55	531	Screw, Feed Driving Lever Guide, upper -----	1
56	29126 BP	Feed Driving Eccentric Assembly -----	1
57	62283 A	Bearing, Feed Driving Eccentric Assembly -----	1
58	62283 J	Eccentric, Feed Driving Eccentric Assembly .150 inch throw -----	1
59	95	Screw, Feed Driving Eccentric -----	2
60	62245 A	Stitch Regulating Stud Locking Screw-----	1
61	28619	Locking Ball, Stitch Regulating Stud -----	1
62	62245	Stitch Regulating Stud -----	1
63	62245 B	Locating Stud, Stitch Regulating Stud-----	1
64	62246	Stitch Regulating Shaft-----	1
65	62283 D	Pin, Stitch Regulating Shaft Connection-----	1
66	62246 A	Stitch Regulating Shaft Connection -----	1
67	22882 B	Screw, Stitch Regulating Shaft Connection-----	1
68	62260	Feed Driving Gear, upper -----	1
69	22894 F	Set Screw, Feed Driving Gear, upper-----	2
70	62221 A	Thrust Collar -----	1
71	22894 F	Screw, Thrust Collar -----	2
72	62221	Handwheel, #2 Vee Belt -----	1
	62221 C	Handwheel, #1 Vee or Round Belt-----	
73	22894 G	Screw, Handwheel -----	2

NOTE: Detail numbers 32 and 33 are included with detail number 31 on all gauges except No. 8 gauge.



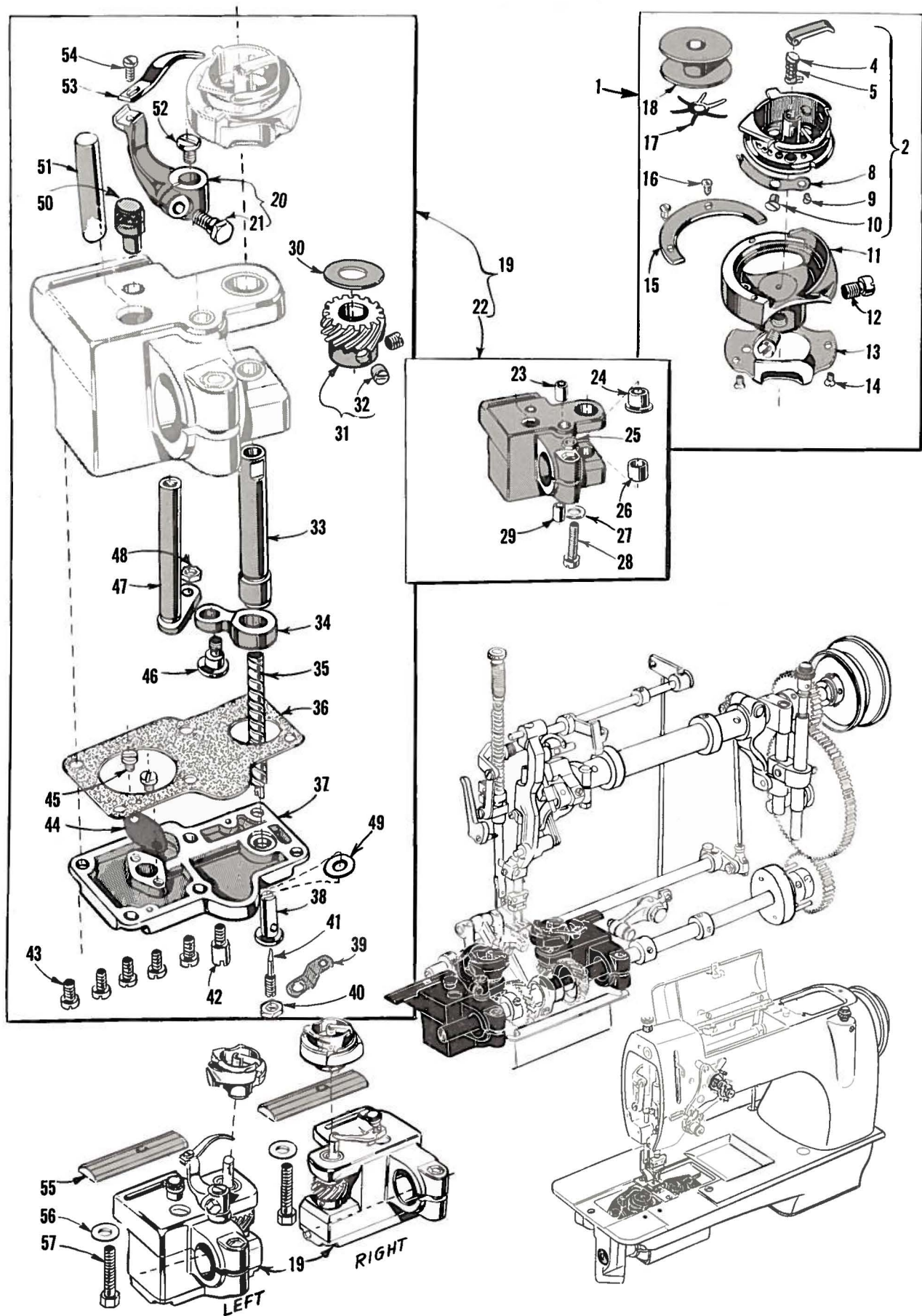
LOWER FEED DRIVING AND HOOK DRIVING PARTS

Ref. No.	Part No.	Description	Amt. Req.
1	62243 A	Hook Shaft Driving Gear Guard -----	1
2	25 S	Screw, Hook Shaft Driving Gear Guard -----	2
3	62232 G	Lower Main Shaft -----	1
4	22706 A	Screw, Feed Driving Shaft -----	1
5	62243 E	Hook Shaft Driving Gear -----	1 or 2
6	22839 A	Screw, Hook Shaft Driving Gear -----	2
7	22768	Screw, Feed Lift Eccentric Link Pin -----	1
8	62238 A	Feed Lift Eccentric Link Pin -----	1
9	29126 BL	Feed Lift Eccentric Assembly -----	1
10	62238	Feed Lift Eccentric Bearing -----	1
11	62206	Feed Lift Eccentric -----	1
12	22894 C	Set Screw, Feed Lift Eccentric -----	1
13	22894 D	Spot Screw, Feed Lift Eccentric -----	1
14	51147	Collar, Lower Main Shaft -----	3
15	95	Screw, Collar, Lower Main Shaft -----	2
16	62260 H	Lower Main Shaft Driving Gear Coupling -----	1
17	22894 F	Set Screw, Coupling -----	2
18	62260 G	Main Shaft Driving Gear -----	1
19	62282 J	Gasket, Lower Main Shaft Hole Cover Plate -----	1
20	62282 H	Lower Main Shaft Hole Cover Plate -----	1
21	22569 C	Screw, Lower Main Shaft Hole Cover Plate -----	3
22	22597 A	Set Screw, Intermediate Gear Shaft -----	1
23	62262	Intermediate Gear Shaft -----	1
24	62261	Intermediate Gear -----	1
25	61264 A	Collar, Intermediate Gear Shaft -----	1
26	HA61 D	Screw, Collar, Intermediate Gear Shaft -----	2
31		Feed Dog (See Page 29) -----	1
32	9663	Screw, Feed Dog -----	1
33	22775 A	Screw, Feed Dog Height Adjustment -----	1
34	62234	Feed Bar -----	1
35	89	Screw, Feed Bar -----	1
36	61235	Feed Bar Shaft -----	1
37	22866 G	Screw, Feed Rocker -----	2
38	62236	Feed Rocker -----	1
39	666-115	Oil Wick -----	2
40	62236 D	Collar, Feed Rocker Rock Shaft -----	2
41	95	Screw, Collar, Feed Rocker Rock Shaft -----	2
42	22706 A	Screw, Feed Rocker Rock Shaft -----	2
43	62236 A	Feed Rocker Rock Shaft -----	1
45	62236 E	Feed Rocker Rock Shaft Driving Arm -----	1
46	55235 D	Locking Stud, Driving Arm -----	1
47	6042 A	Washer, Driving Arm -----	1
48	55235 E	Nut, Driving Arm -----	1
49	18	Nut, Ball Joint Feed Driving Connection, lower -----	1
50	51241 D	Ball Joint Feed Driving Connection, lower -----	1
51	22729 C	Screw, Ball Joint Connection -----	2
52	269	Nut, Feed Driving Connecting Rod -----	1
53	HS35 E	Feed Driving Connecting Rod -----	1
54	18	Nut, Feed Driving Connecting Rod -----	1
55	51239 L	Ball Joint Feed Driving Connection, upper -----	1
56	22729 C	Screw, Ball Joint Connection -----	2
57	51242 M	Washer, Ball Joint Feed Driving Connection, upper -----	1
58	18	Nut, Ball Joint Feed Driving Connection, upper -----	1



PRESSER BAR, FOOT LIFT AND TENSION RELEASE PARTS

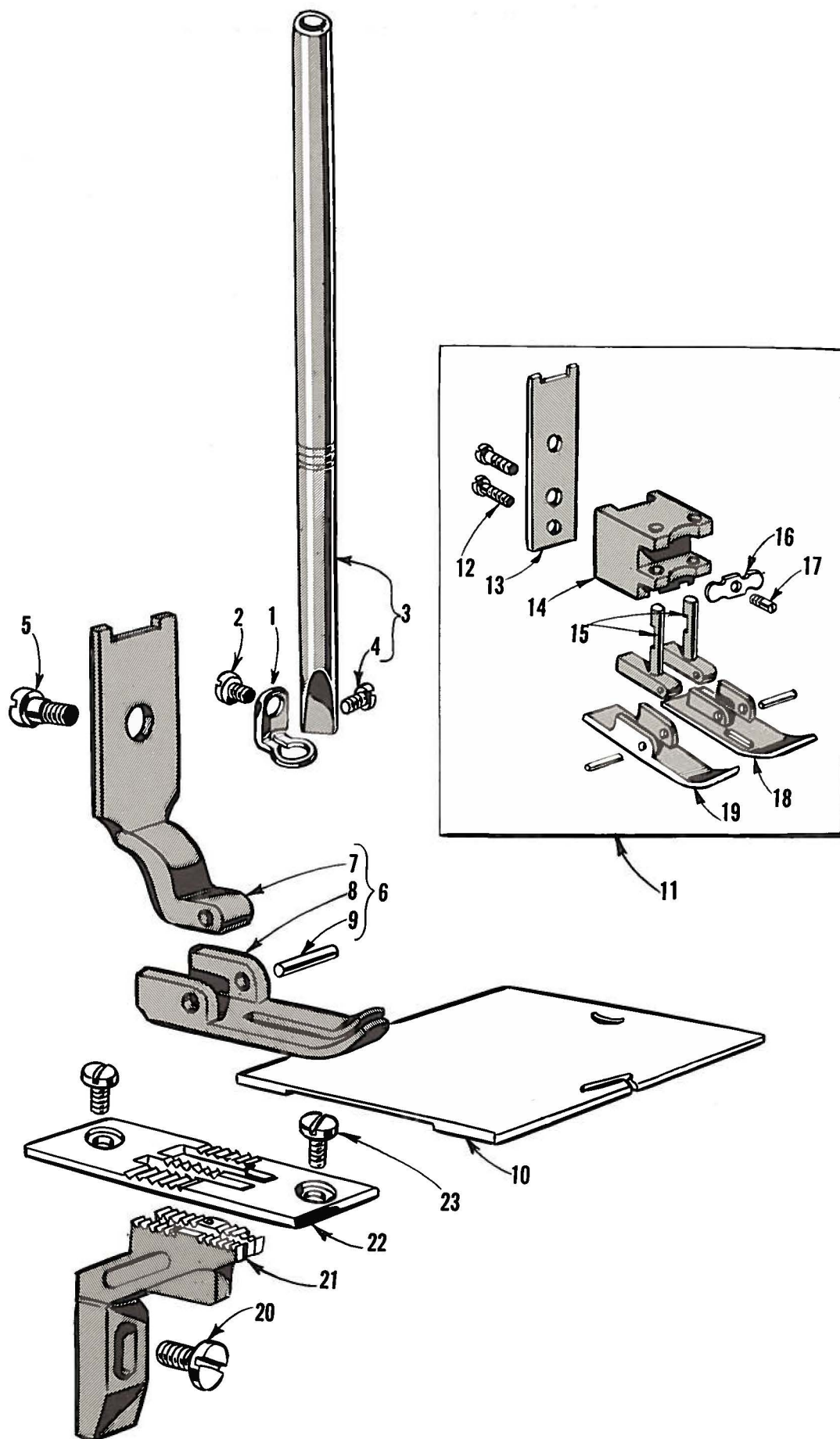
Ref. No.	Part No.	Description	Amt. Req.
1	61257 G	Presser Spring Regulator and Presser Bar Bushing, upper -----	1
2	61256 G	Washer, Presser Bar Bushing, upper -----	1
3	62256	Presser Spring -----	1
4	62268 A	Presser Foot Lifter Shaft Spring-----	1
5	62292 K	Tension Release Arm-----	1
6	22894 W	Screw, Tension Release Arm -----	1
7	61248 H	Stitch Regulator Shaft Collar -----	1
8	88	Screw, Stitch Regulator Shaft Collar -----	2
9	62268	Presser Foot Lifter Shaft -----	1
10	62268 H	Presser Foot Lifter Lever -----	1
11	22884	Screw, Presser Foot Lifter Lever-----	1
12	660-142	Cotter Pin, upper, Presser Foot Lifter Rod -----	1
13	62268 J	Presser Foot Lifter Rod -----	1
14	660-142	Cotter Pin, lower, Presser Foot Lifter Rod -----	1
15	62268 F	Presser Foot Lifter Lever Bell Crank-----	1
16	62268 G	Presser Foot Lifter Lever Bell Crank Roller -----	1
17	11635 B	Nut, Presser Foot Lifter Lever Bell Crank Roller-----	1
18	22817 C	Screw, Presser Foot Lifter Lever Bell Crank-----	1
19	22712 A	Screw, Presser Foot Lifter Lever Bell Crank Roller -----	1
20	9937	Lock Nut, Presser Foot Lifter Lever Bell Crank -----	1
21	22874	Adjusting Screw, Presser Foot Lifter Lever Bell Crank-----	1
22	61292 C	Tension Post Nut-----	1 or 2
23	61392 F-9	Needle Thread Tension Spring -----	1 or 2
24	61292 H	Tension Release Washer -----	1 or 2
25	109	Tension Disc -----	2 or 4
26	62292 S	Tension Post -----	1 or 2
27	51292 A	Tension Post Ferrule-----	1 or 2
28	62292 H	Tension Post Thread Eyelet -----	1 or 2
29	294	Screw, Tension Post Bracket-----	2
30	62292 J	Tension Post Bracket-----	1
31	62292 C	Tension Release Pin-----	1 or 2
32	62292 P	Spacing Sleeve -----	1
33	62292 L	Tension Disc Lifter -----	1
34	62292 N	Tension Release Pin-----	1
35	22760	Screw, Tension Disc Lifter -----	2
36	62292 R	Tension Disc Lifter Spring -----	1
36A	22569 C	Screw, Needle Thread Guide -----	1
37	29475 AL	Check Spring Assembly -----	1
38	22562	Screw, Thread Eyelet -----	1
39	62253 H	Barrel Clamp -----	1
40	62253 E	Thread Eyelet -----	1
41	62253 K	Nut-----	1
42	62253 L	Check Spring Barrel -----	1
43	62253 D	Check Spring -----	1
44	62253 J	Screw Stud -----	1
45	62253 F	Mounting Plate -----	1
46	62271 C	Needle Thread Guide -----	1
47	62259	Presser Bar Guide -----	1
48	77 Q	Screw -----	1
48 A	93 A	Screw -----	1
49	61265	Hand Lifter-----	1
50	22799 M	Screw, Hand Lifter-----	1
51	22758 B	Screw, Presser Foot Lifter Link -----	2
52	62268 E	Presser Foot Lifter Link -----	1
53	62258	Presser Bar Connection -----	1
54	62257 A	Presser Bar-----	1
55	22726 L	Screw, Presser Foot -----	1
56		Presser Foot (See Page 31) -----	1
57	22569 F	Screw, Throat Plate-----	2
58		Throat Plate (See Page 29) -----	1



HOOK, HOOK DRIVING AND LUBRICATING PARTS

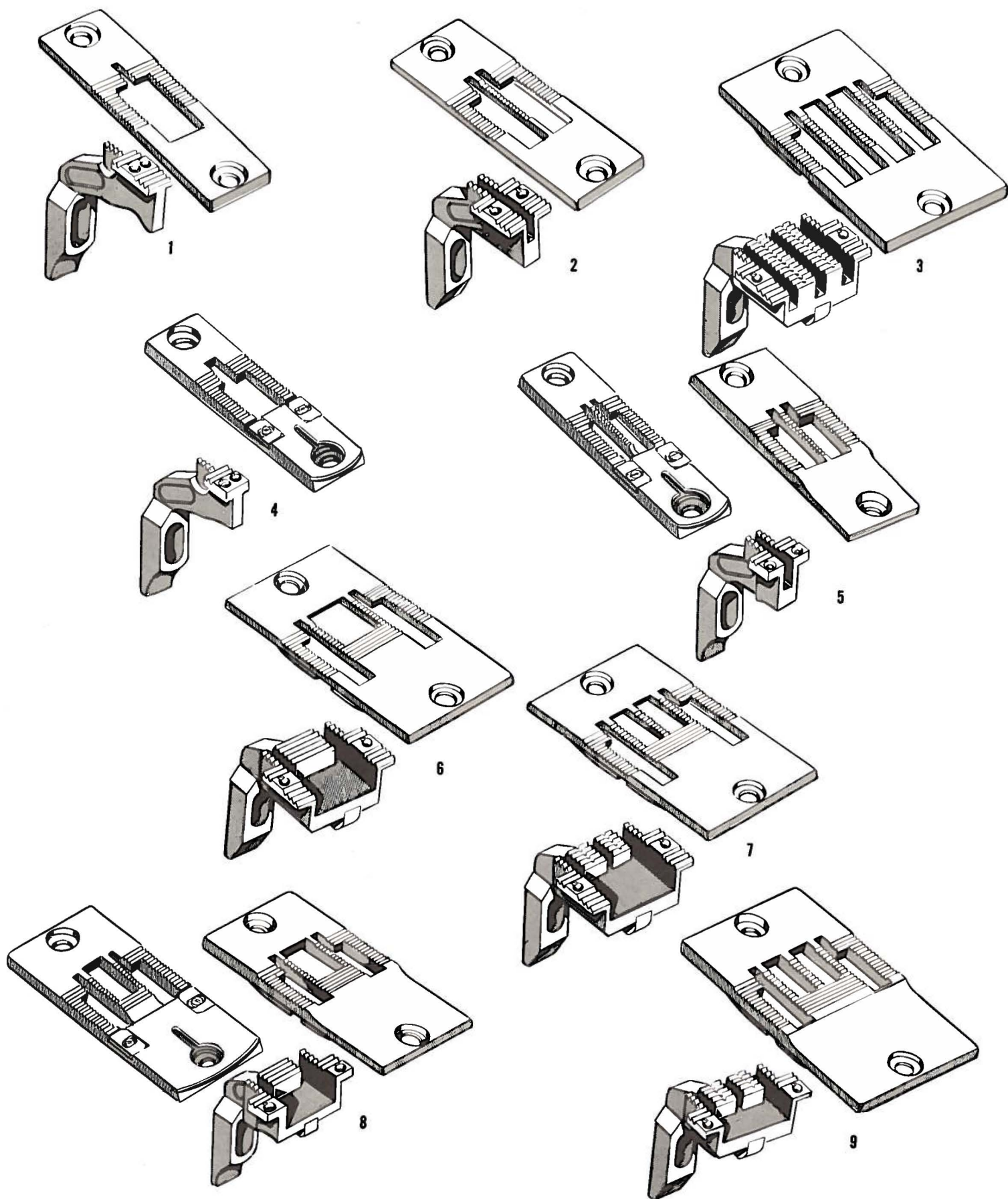
Ref. No.	Part No.	Description	Amt. Req.
1	29474 H	Vertical Hook Assembly, for 61800 C, 61800 D and 62200 G -----	1 or 2
	29474 K	Vertical Hook Assembly, for 61800 H and 62200 H -----	1 or 2
2	62214 +	Bobbin Case Assembly-----	1
4	62215 C	Latch Pressure Pin -----	1
5	62215 B	Latch Spring-----	1
8	62214 J +	Thread Tension Spring-----	1
9	22716 F	Screw-----	1
10	22716 E	Screw-----	1
11	62208 A	Hook, for 61800 C, 61800 D and 62200 G-----	1
	62208 C	Hook, for 61800 H and 62200 H -----	1
12	72	Screw-----	2
13	62210	Needle Guard-----	1
14	22716 A	Screw-----	2
15	62214 D	Bobbin Case Retainer, for 61800 C, 61800 D, and 62200 G-----	1
	62214 K	Bobbin Case Retainer, for 61800 H and 62200 H -----	1
16	22716 G	Screw-----	2
17	62212 B	Bobbin Brake Spring for 61800 H and 62200 H -----	1
18	62212	Bobbin-----	1
19	29480 AT	Hook Shaft Mounting Bracket and Oil Reservoir Assembly, left-----	1
	29480 AU	Hook Shaft Mounting Bracket and Oil Reservoir Assembly, right -----	1
20	62242 A	Bobbin Case Opener Lever -----	1
21	22519 E	Screw-----	1
22	62241	Hook Shaft Mounting Bracket and Oil Reservoir, left -----	1
	62241 A	Hook Shaft Mounting Bracket and Oil Reservoir, right-----	1
23	62242 C	Bushing-----	1
24	62241 H	Bushing, bronze -----	1
25	259 A	Nut-----	1
26	62241 G	Bushing, bronze -----	1
27	6042 A	Washer -----	1
28	820	Screw-----	1
29	62242 E	Bushing-----	1
30	62244 A	Washer -----	1
31	62244	Hook Shaft Pinion -----	1
32	98	Screw-----	2
33	62240	Hook Shaft-----	1
34	62242 D	Bobbin Case Opener Lever Link -----	1
*35	62296 B	Hook Shaft Spiral Oil Feed -----	1
36	62241 C	Gasket, left -----	1
	62241 E	Gasket, right -----	1
37	62241 B	Bottom Cover, left-----	1
	62241 D	Bottom Cover, right-----	1
38	62296 D	Hook Shaft Oil Valve-----	1
39	62296 C	Lock Washer-----	1
40	907	Nut-----	1
41	62296 A	Oil Flow Regulating Screw -----	1
42	22585 G	Screw-----	1
43	22585	Screw-----	5
44	62241 F	Oil Filter Screen-----	1
45	T26	Screw-----	2
46	22735 A	Screw-----	1
47	62242 B	Bobbin Case Opener Lever Shaft -----	1
48	12934 A	Nut-----	1
49	41355 U-8	Shim, .008 inch thick-----	if required
50	666-243	Oil Cup -----	1
51	50-629 Blk.	Oil Sight Gauge -----	1
52	88 D	Screw-----	1
53	62242	Bobbin Case Opener -----	1 or 2
54	J87 J	Screw-----	1 or 2
55	62241 K-168	Rest Plate, .168 inch thick-----	1 or 2
	62241 K-178	Rest Plate, .178 inch thick-----	1 or 2
	62241 K-188	Rest Plate, .188 inch thick-----	1 or 2
	62241 K-198	Rest Plate, .198 inch thick-----	1 or 2
56	61341 J	Washer -----	1 or 2
57	157	Screw-----	1 or 2

*Not furnished as component of Nos. 29480 AT or 29480 AU.



PARTS FOR STYLES IN CLASS 61800

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Amt. Req.</u>
1	61871 A	Needle Bar Eyelet, for 61800 C, 61800 D and 61800 H-----	1
2	187 A	Screw-----	1
3	61817	Needle Bar, for 61800 C, 61800 D and 61800 H -----	1
4	77 A	Screw-----	1
5	22726 L	Screw, for presser foot -----	1
6	61820 A	Presser Foot, for 61800 C and 61800 H -----	1
7	61830	Shank -----	1
8	61830 A	Bottom-----	1
9	61330 B-35	Hinge Pin -----	1
10	61802	Bed Slide, right, for 61800 C, 61800 D and 61800 H --	1
	62202 F-124	Bed Slide, left, for 61800 C, 61800 D and 61800 H ---	1
11	61820 B	Presser Foot, for 61800 D -----	1
12	22797	Screw-----	2
13	61830 G	Shank, vertical section -----	1
14	61830 B	Shank, base section -----	1
15	61830 E	Plunger-----	2
16	61830 F	Equalizer -----	1
17	22799 F	Screw-----	1
18	61830 D	Bottom Section, right-----	1
19	61830 C	Bottom Section, left -----	1
20	9663	Screw -----	1
21	61805 A	Feed Dog, for 61800 C, 61800 D and 61800 H -----	1
22	61828	Throat Plate, for 61800 C, 61800 D and 61800 H -----	1
23	22569 F	Screw -----	2



COMBINATIONS OF SEWING PARTS

Minor numbers after the part numbers indicate the gauge or the distance between the needles in 64ths of an inch. Example: 62205 F-16 is a feed dog with 16/64 or 1/4 inch between the needles. The gauge of "K" numbers is shown in parentheses after the part number.

All feed dogs have .082 inch diameter needle holes except those where the number is preceded by a reference mark. Refer to explanation below.

FULL FEED

<u>REFERENCE NO. 1</u>			<u>REFERENCE NO. 2</u>			<u>REFERENCE NO. 3</u>		
FEED DOG	THROAT PLATE, TYPE		FEED DOG	THROAT PLATE, TYPE		FEED DOG	THROAT PLATE, TYPE	
62205 A-8	62228 A-8	Flat	62205 F-12	62228-12	Flat	62205-64	62224-64	Flat
62205 A-12	62228 A-12	Flat	62205 F-16	62228-16	Flat	62205-80	62224-80	Flat
K67352 (10)	K67351 (10)	Flat	62205 F-20	62228-20	Flat	62205-96	62224-96	Flat
+62205 H-12	62228 A-12	Flat	62205 F-24	62224-24	Flat			
			+ 62205 H-16	62228-16	Flat			
			+ 62205 H-20	62228-20	Flat			
			+ 62205 H-24	62224-24	Flat			
			*K67501 (12)	K68439 (12)	Flat			
			*K68375 (20)	62228-20	Flat			
			*K68444 (24)	62224-24	Flat			

HALF FEED

<u>REFERENCE NO. 4</u>			<u>REFERENCE NO. 5</u>		
FEED DOG	THROAT PLATE, TYPE		FEED DOG	THROAT PLATE, TYPE	
K68441 (8)	K68440 (8)	Tape Slot	62205 B-12	62228 B-12	Tape Slot
			62205 B-16	62224 B-16	Tape Slot
			62205 B-20	62224 B-20	Tape Slot
			62205 B-24	62224 B-24	Tape Slot
			*K68445 (12)	62228 B-12	Tape Slot
			62205 B-24	62224 F-24	Raised

FULL QUARTER FEED

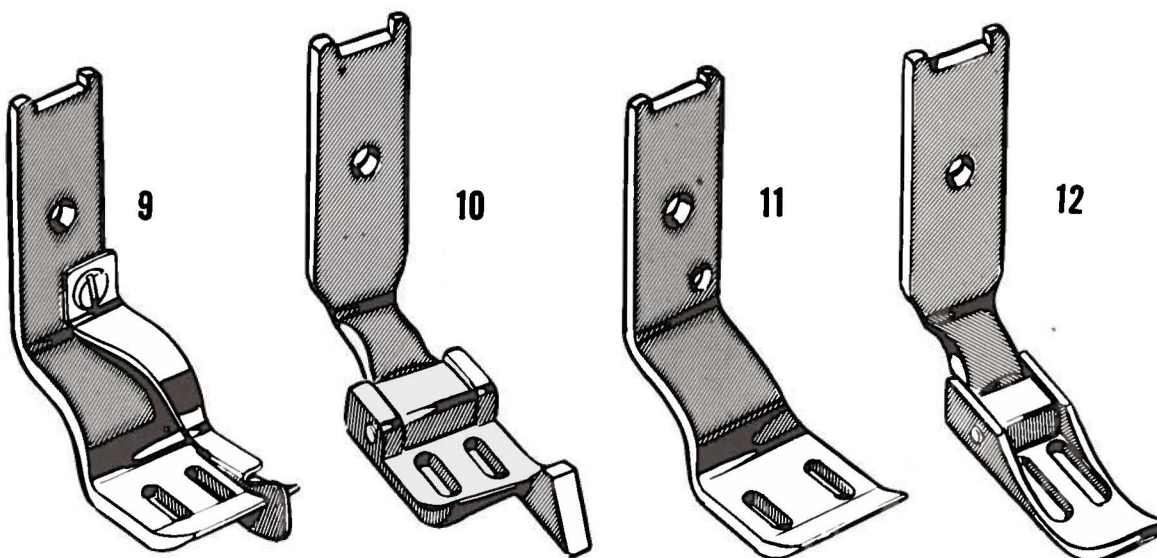
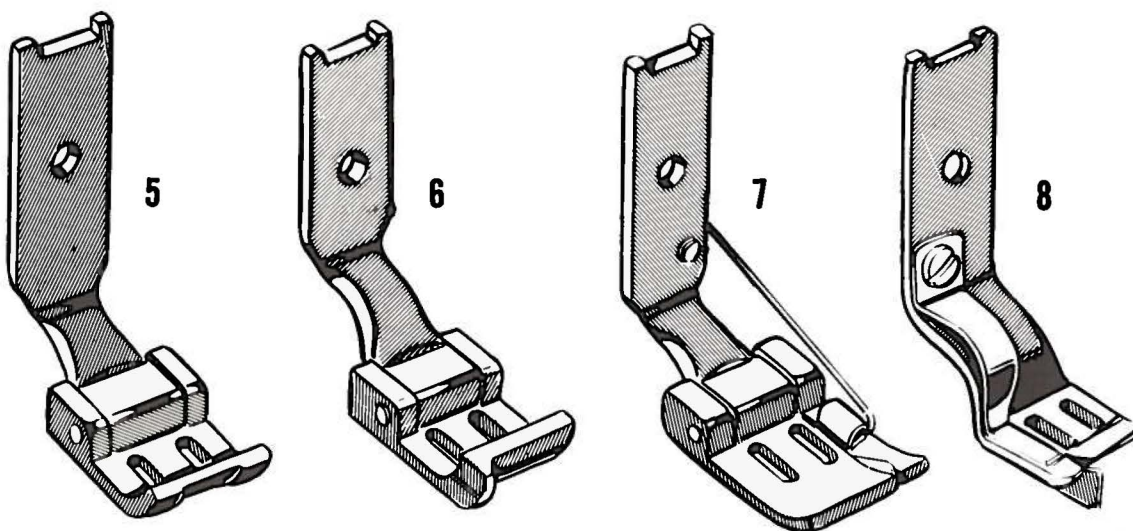
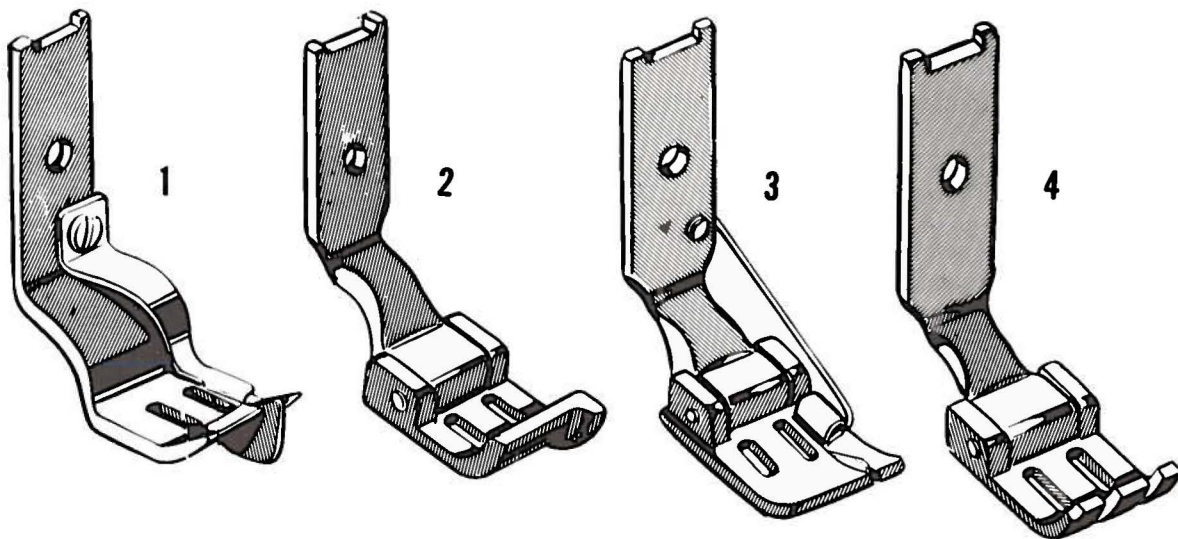
<u>REFERENCE NO. 6</u>			<u>REFERENCE NO. 7</u>		
FEED DOG	THROAT PLATE, TYPE		FEED DOG	THROAT PLATE, TYPE	
62205 C-28	62224 C-28	Flat	62205 C-64	62224 C-64	Flat
62205 C-32	62224 C-32	Flat	62205 C-80	62224 C-80	Flat
62205 C-40	62224 C-40	Flat	62205 C-96	62224 C-96	Flat
62205 C-48	62224 C-48	Flat			
62205 C-56	62224 C-56	Flat			
+62205 G-28	62224 C-28	Flat			
+62205 G-32	62224 C-32	Flat			

HALF QUARTER FEED

<u>REFERENCE NO. 8</u>			<u>REFERENCE NO. 9</u>		
FEED DOG	THROAT PLATE, TYPE		FEED DOG	THROAT PLATE, TYPE	
62205 D-32	62224 D-32	Raised	62205 D-56	62224 D-56	Flat
62205 D-40	62224 D-40	Raised	62205 D-64	62224 D-64	Flat
62205 D-48	62224 D-48	Raised			
62205 D-28	62224 E-28	Tape Slot			
62205 D-32	62224 E-32	Tape Slot			
62205 D-40	62224 E-40	Tape Slot			
62205 D-48	62224 E-48	Tape Slot			

* Feed Dog has .063 inch diameter needle hole

+ Feed Dog has .093 inch diameter needle hole



PRESSER FEET

REF. NO.	PART NO.	TYPE	GAUGE	MARGIN	SHANK	BOTTOM	HINGE PIN	TILTING SPRING	SPRING GUIDE	SCREW
1	62220-12	Solid	12	1/16					62230 E-12	605
	62220-16	Solid	16	1/16					62230 E-16	605
2	62220 A-8	Hinged	8		61830	62230 A-8	62230 D-41			
	62220 A-12	Hinged	12		62230	62230 A-12	62230 D-41			
	62220 A-16	Hinged	16		62230	62230 A-16	62230 D-41			
	62220 A-20	Hinged	20		62230	62230 A-20	62230 D-41			
	62220 A-24	Hinged	24		62230	62230 A-24	62230 D-41			
	62220 A-28	Hinged	28		62230	62230 A-28	62230 D-41			
	62220 A-32	Hinged	32		62230	62230 A-32	62230 D-41			
3	62220 C-12	Hinged	12	3/32	62230 F	62230 G-12		62230 H	62230 J	605 A
	62220 C-16	Hinged	16	3/32	62230 F	62230 G-16		62230 H	62230 J	605 A
4	62220 D-12	Hinged	12		62230	62230 K-12	62230 D-41			
	62220 D-16	Hinged	16		62230	62230 K-16	62230 D-41			
	62220 D-20	Hinged	20		62230	62230 K-20	62230 D-41			
	62220 D-24	Hinged	24		62230	62230 K-24	62230 D-41			
	62220 D-28	Hinged	28		62230	62230 K-28	62230 D-41			
	62220 D-32	Hinged	32		62230	62230 K-32	62230 D-41			
	62220 D-40	Hinged	40		62230	62230 K-40	62230 D-41			
	62220 D-48	Hinged	48		62230	62230 K-48	62230 D-41			
	62220 D-56	Hinged	56		62230	62230 K-56	62230 D-41			
	62220 D-64	Hinged	64		62230	62230 K-64	62230 D-41			
	62220 D-80	Hinged	80		62230	62230 K-80	62230 D-41			
	62220 D-96	Hinged	96		62230	62230 K-96	62230 D-41			
5	62220 E-8	Hinged	8		61830	62230 L-8	61330 B-29			
	62220 E-12	Hinged	12		62230	62230 L-12	62230 D-41			
	62220 E-16	Hinged	16		62230	62230 L-16	62230 D-41			
	62220 E-20	Hinged	20		62230	62230 L-20	62230 D-41			
	62220 E-24	Hinged	24		62230	62230 L-24	62230 D-41			
	62220 E-28	Hinged	28		62230	62230 L-28	62230 D-41			
	62220 E-32	Hinged	32		62230	62230 L-32	62230 D-41			
	62220 E-40	Hinged	40		62230	62230 L-40	62230 D-41			
	62220 E-48	Hinged	48		62230	62230 L-48	62230 D-41			
	62220 E-56	Hinged	56		62230	62230 L-56	62230 D-41			
	62220 E-64	Hinged	64		62230	62230 L-64	62230 D-41			
6	62220 F-8	Hinged	8		61830	62230 M-8	61330 B-29			
	62220 F-12	Hinged	12		62230	62230 M-12	62230 D-41			
	62220 F-16	Hinged	16		62230	62230 M-16	62230 D-41			
	62220 F-20	Hinged	20		62230	62230 M-20	62230 D-41			
	62220 F-24	Hinged	24		62230	62230 M-24	62230 D-41			
7	62220 G-8	Hinged	8	1/16	61830	62230 N-8	61330 B-35	62230 H	62230 J	605 A
	62220 G-12	Hinged	12	1/16	62230 F	62230 N-12	62230 D-41	62230 H	62230 J	605 A
	62220 G-16	Hinged	16	1/16	62230 F	62230 N-16	62230 D-41	62230 H	62230 J	605 A
	62220 G-20	Hinged	20	1/16	62230 F	62230 N-20	62230 D-41	62230 H	62230 J	605 A
	62220 G-24	Hinged	24	1/16	62230 F	62230 N-24	62230 D-41	62230 H	62230 J	605 A
	62220 G-28	Hinged	28	1/16	62230 F	62230 N-28	62230 D-41	62230 H	62230 J	605 A
	62220 G-32	Hinged	32	1/16	62230 F	62230 N-32	62230 D-41	62230 H	62230 J	605 A
8	62220 H-12	Solid	12	1/16					62230 R	605
9	62220 J-12	Solid	12	3/32					62230 E-12	605
	62220 J-16	Solid	16	3/32					62230 E-12	605
10	62220 K-16	Hinged	16		62230	62230 S-16	62230 D-41			
11	62220 L-24	Solid	24							
12	K68059	Hinged	12							
	K68360	Hinged	16							

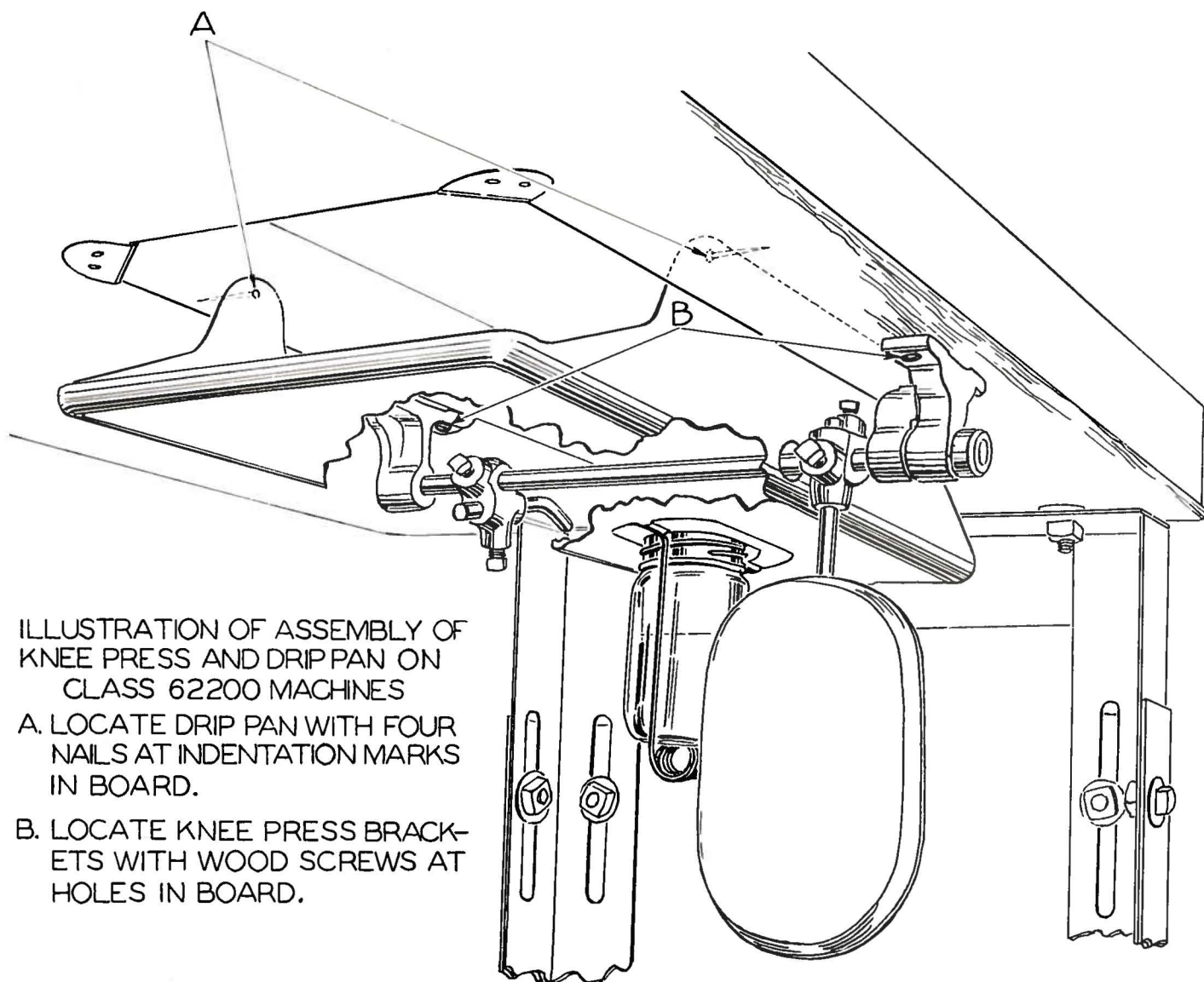


ILLUSTRATION OF ASSEMBLY OF
KNEE PRESS AND DRIP PAN ON
CLASS 62200 MACHINES

- A. LOCATE DRIP PAN WITH FOUR
NAILS AT INDENTATION MARKS
IN BOARD.
- B. LOCATE KNEE PRESS BRACK-
ETS WITH WOOD SCREWS AT
HOLES IN BOARD.

NUMERICAL INDEX OF PARTS

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
18	21	22585 G.....	25	61292 H.....	23	62221 A.....	19
25 C	17	22596 D.....	19	61330 B.....	27, 31	62221 C.....	19
25 S.....	21	22597 A.....	21	61341 J.....	25	62222.....	19
T26	25	22706 A.....	21	61392 F.....	23	62224.....	29
HS35 E.....	21	22712 A.....	23	61802.....	27	62224 B.....	29
50-568 Blk.....	17	22716 A.....	25	61805 A.....	27	62224 C.....	29
50-629 Blk.....	25	22716 E.....	25	61817.....	27	62224 D.....	29
57 WB.....	17	22716 F.....	25	61820 A.....	27	62224 E.....	29
57 WD.....	17	22716 G.....	25	61820 B.....	27	62224 F.....	29
HA61 D.....	21	22726 L.....	23, 27	61828.....	27	62228.....	29
72	25	22729 C.....	21	61830.....	27, 31	62228 A.....	29
77 A	27	22735 A.....	25	61830 A.....	27	62228 B.....	29
77 Q	23	22743	19	61830 B.....	27	62230.....	31
78	19	22758 B.....	23	61830 C.....	27	62230 A.....	31
J87 J.....	25	22760.....	23	61830 D.....	27	62230 D.....	31
88	23	22768.....	21	61830 E.....	27	62230 E.....	31
88 D.....	25	22775 A.....	21	61830 F.....	27	62230 F.....	31
89	19, 21	22797.....	27	61830 G.....	27	62230 G.....	31
93 A	23	22798 B.....	19	61871 A.....	27	62230 H.....	31
95	19, 21	22799 F.....	23	62202 D.....	17	62230 J.....	31
98	25	22799 M.....	27	62202 F.....	17, 27	62230 K.....	31
109	23	22817 C.....	23	62202 G.....	17	62230 L.....	31
157	25	22839 A.....	21	62202 N.....	17	62230 M.....	31
187 A	27	22845 H.....	19	62202 R.....	17	62230 N.....	31
258 A	25	22866 G.....	21	62202 S.....	17	62230 R.....	31
269	21	22874.....	23	62202 T.....	17	62230 S.....	31
294	17, 23	22882 B.....	19	62205.....	29	62232 A.....	17
531	19	22884.....	23	62205 A.....	29	62232 B.....	17
605	31	22884 A.....	19	62205 B.....	29	62232 C.....	17
605 A	31	22894 C.....	19, 21	62205 C.....	29	62232 D.....	17
660-142	23	22894 D.....	21	62205 D.....	29	62232 F.....	17
660-208	19	22894 F.....	19, 21	62205 F.....	29	62232 G.....	21
666-113	19	22894 G.....	19	62205 G.....	29	62234.....	21
666-115	21	22894 W.....	23	62205 H.....	29	62236.....	21
666-117	17	22894 AC.....	19	62206.....	21	62236 A.....	21
666-137	19	28619.....	19	62208 A.....	25	62236 C.....	17
666-140	17	29126 BL.....	21	62208 C.....	25	62236 D.....	21
666-243	25	29126 BP.....	19	62210.....	25	62236 E.....	21
820	25	29474 H.....	25	62212.....	25	62238.....	21
907	25	29474 K.....	25	62212 B.....	25	62238 A.....	21
6042 A	19, 21, 25	29475 X.....	19	62214.....	25	62240.....	25
9663	21, 27	29475 AL.....	23	62214 D.....	25	62241.....	25
9937	23	29480 AT.....	25	62214 J.....	25	62241 A.....	25
11635 B.....	23	29480 AU.....	25	62214 K.....	25	62241 B.....	25
12934 A	25	41355 U-8.....	25	62215 B.....	25	62241 C.....	25
15438 C	17	51147.....	21	62215 C.....	25	62241 D.....	25
22519 E.....	25	51239 L.....	21	62217 A.....	19	62241 E.....	25
22533	19	51241 D.....	21	62218 A.....	19	62241 F.....	25
22539 D.....	17	51242 M.....	21	62220.....	31	62241 G.....	25
22560 A	19	51292 A.....	23	62220 A.....	31	62241 H.....	25
22562	23	55235 D.....	21	62220 C.....	31	62241 K.....	25
22564 B	17	55235 E.....	19, 21	62220 D.....	31	62242.....	25
22565 B	19	61235.....	21	62220 E.....	31	62242 A.....	25
22565 C	19	61248 H.....	23	62220 F.....	31	62242 B.....	25
22569	17	61256 G.....	23	62220 G.....	31	62242 C.....	25
22569 C	17, 21, 23	61257 G.....	23	62220 H.....	31	62242 D.....	25
22569 D	17, 19	61264 A.....	21	62220 J.....	31	62242 E.....	25
22569 F	23, 27	61265.....	23	62220 K.....	31	62243 A.....	21
22570 A	19	61271.....	17	62220 L.....	31		
22585	25	61292 C.....	23	62221.....	19		

Continued on Page 34

NUMERICAL INDEX OF PARTS

<u>Part No.</u>	<u>Page No.</u>	<u>Part No.</u>	<u>Page No.</u>	<u>Part No.</u>	<u>Page No.</u>	<u>Part No.</u>	<u>Page No.</u>
62243 E.....	21	62260 G.....	21	62282 J.....	21	62292 C.....	23
62244.....	25	62260 H.....	21	62282 K.....	17	62292 H.....	23
62244 A.....	25	62261.....	21	62283 A.....	19	62292 J.....	23
62245.....	19	62262.....	21	62283 B.....	19	62292 K.....	23
62245 A.....	19	62268.....	23	62283 C.....	19	62292 L.....	23
62245 B.....	19	62268 A.....	23	62283 D.....	19	62292 M.....	17
62246.....	19	62268 E.....	23	62283 E.....	19	62292 N.....	23
62246 A.....	19	62268 F.....	23	62283 F.....	19	62292 P.....	23
62251 A.....	19	62268 G.....	23	62283 G.....	19	62292 R.....	23
62251 B.....	19	62268 H.....	23	62283 H.....	19	62292 S.....	23
62251 C.....	19	62268 J.....	23	62283 J.....	19	62296 A.....	25
62252 A.....	19	62271 C.....	23	62284 A.....	17	62296 B.....	25
62253 D.....	23	62271 F.....	17	62284 B.....	17	62296 C.....	25
62253 E.....	23	62271 G.....	17	62284 C.....	19	62296 D.....	25
62253 F.....	23	62271 K.....	19	62284 D.....	19	K67351.....	29
62253 H.....	23	62271 L.....	19	62284 E.....	19	K67352.....	29
62253 J.....	23	62282.....	17	62285.....	19	K67501.....	29
62253 K.....	23	62282 A.....	17	62285 A.....	19	K68059.....	31
62253 L.....	23	62282 B.....	17	62285 B.....	17	K68360.....	31
62255.....	19	62282 C.....	17	62285 C.....	19	K68375.....	29
62255 B.....	19	62282 D.....	17	62285 D.....	19	K68439.....	29
62256.....	23	62282 E.....	17	62285 E.....	19	K68440.....	29
62257 A.....	23	62282 F.....	17	62285 H.....	19	K68441.....	29
62258.....	23	62282 G.....	17	62290 B.....	17	K68444.....	29
62259.....	23	62282 H.....	21	62291 A.....	17, 19	K68445.....	29
62260.....	19						