Form 3133W
Rev. (165)

SINGER*

Service Manual

212W145

THE SINGER COMPANY

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FOREWORD

This book contains complete information covering operation, adjustment, parts list, attachments and special fittings for **Machine 212w145**. Descriptions and exploded views of all parts assemblies on **pages 15** to **69** inclusive, will be found helpful when ordering any part of the machine requiring renewal.

TO ALL WHOM IT MAY CONCERN:

The improper placing or renewal of the Trademark SINGER* or any other of the Trademarks of The Singer Company (all of which are duly Registered Trademarks) on any machine that has been repaired, rebuilt, reconditioned, or altered in any way whatsoever outside a SINGER factory or an authorized SINGER agency is forbidden.

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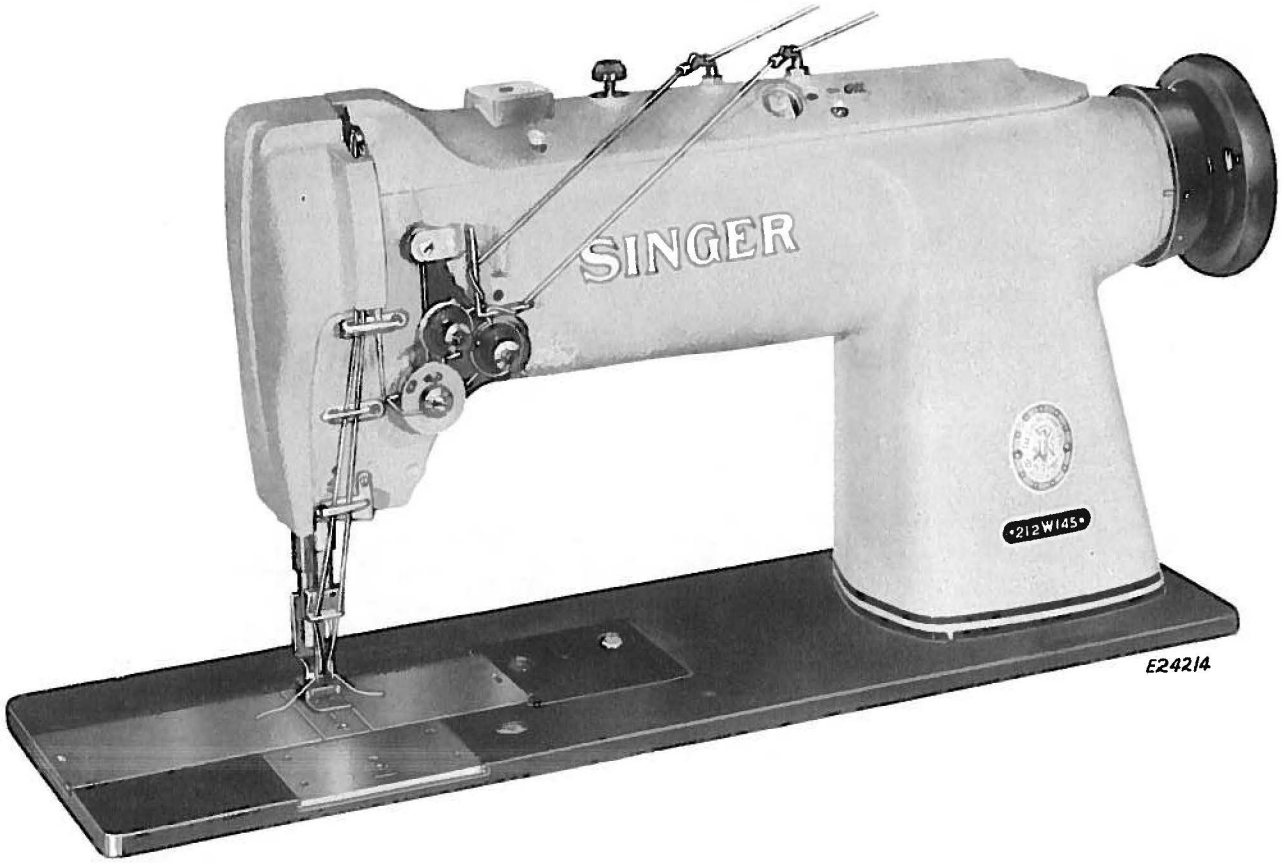

DESCRIPTION

Machine 212w145, for stitching medium weight fabrics such as shirts, smocks, underwear, etc.
Two Needle, Lock Stitch.
Lubricated Link Take-up.
Two Belt Driven, Automatically Lubricated Rotary Sewing Hooks on Vertical Axis.
Drop Feed.
Maximum length of Stitch 6 to the inch.
Presser Bar Lift 1/4 inch.
Needle Bar Stroke 1-5/16 inches.
Machine Pulley with outside diameter of belt groove 2.90 inches for 3/8 inch "V" belt. Effective diameter for 5/16 inch round leather belt is 2-3/8 inches.
The Arm Shaft and Bed Shaft are mounted in Ball Bearings at the rear end and Automatically Lubricated Plain Bearings at the front end.
The Hook Shaft is mounted in Ball Bearings at upper end and Automatically Lubricated Plain Bearings at the lower end.
The Feed Driving Rock Shaft is mounted in Split Bearings, which may be adjusted.
Bed 20-3/8 inches long, 7 inches wide.
Space at right of needle 10-1/2 inches.
Made in gauges from 1/32 inch to 1-1/2 inches.
One to one Bobbin Case Opener.

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SPEED

The speed recommended for this machine is 4000 R.P.M., depending on material being stitched. It is advisable to run a new machine slower than the maximum speed for the first few minutes to allow time for the oil to reach the moving parts. The machine pulley turns over toward the operator.

SETTING UP

Fasten the drip pan to the table with its left end even with the left end of the cut-out. Fasten the knee lifter bracket in the location shown in **Fig. 2,** assembling it so that the lifter rod **A** does not strike the drip pan. The screw slots in the bracket provide the necessary adjustment. The stop stud **B, Fig. 2** should be set to stop the action of the knee lifter as soon as the presser foot is raised enough to trip the hand lever. Then screw the drain pipe **C** into the drain hole in the drip pan and attach the oil jar **D,** as shown in **Fig. 2.**

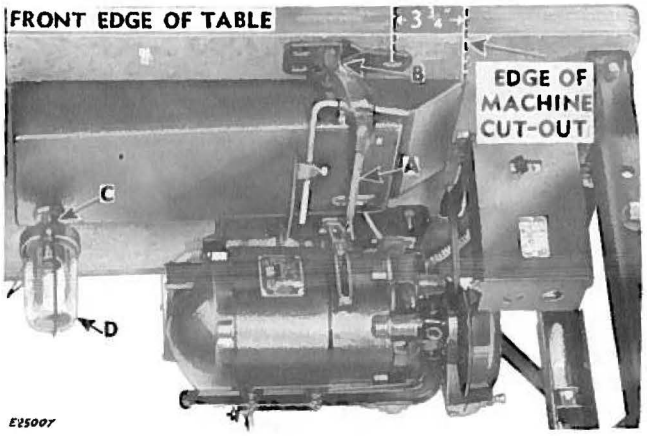

Fig. 2. Knee Lifter, Drip Pan and Oil Jar in Position

TO OIL THE MACHINE

When machine is received from the factory, it should be thoroughly cleaned and oiled.

Use "TYPE A" or "TYPE C" OIL, sold by Singer Sewing Machine Company.

See inside front cover for description of these oils.

Before starting the machine, remove the two oil gauges **E, Fig. 3,** and fill the oil reservoirs in the sewing hook saddles to the full mark on the gauges. Fill oil reservoir in top of arm, through oil filler hole **J, Fig. 4,** to high mark on oil sight **H, Fig. 4.** Push down and turn oil control plunger **G, Fig. 4** until it locks in down position. Release plunger if machine is to be left idle for more than an hour.

CAUTION: Oil control plunger **G** must be locked in a down position before starting machine.

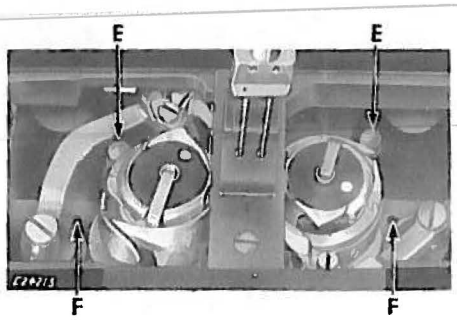

Fig. 3. Showing Gauges for Oil Reservoirs

To lubricate the hook gears and opener gears, a generous supply of oil should be applied AT LEAST TWICE DAILY to the two oil holes **F, Fig. 3.**

When machine is in continuous use, the oil level in the three reservoirs must be checked twice daily.

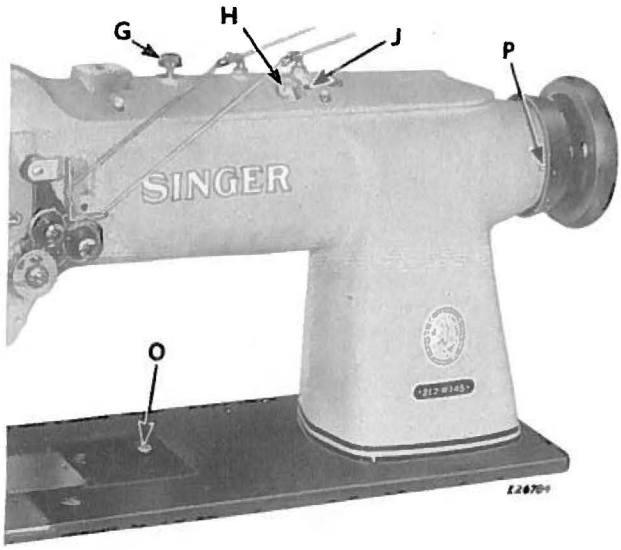

Fig. 4. Oiling Points on the Machine

TO REGULATE OIL FLOW TO HOOK RACEWAY

The amount of oil received by the hook raceway is very important. To check this, remove the bobbin case. With the machine running, hold a small piece of white paper near the hook for 15 seconds. Remove the paper and a small spray of oil should be visible. If no oil spray shows, check the oil level in the hook saddle reservoirs.

Then tip the machine back, away from the operator and loosen the oil control valve set screw **J2, Fig. 20.** Return the machine to its upright position. Turn the oil control valve screw **L, Fig. 5** to the right for more oil or to the left for less oil. If there is no increase of oil noticeable on the test paper after 1/2 turn of the

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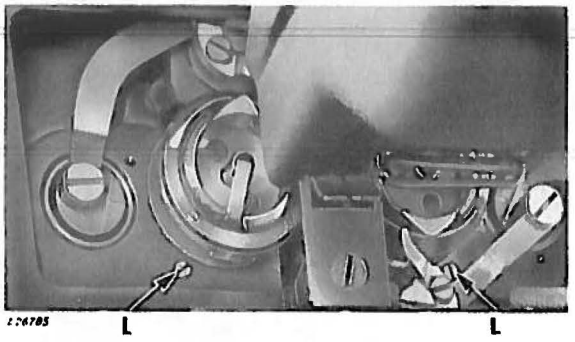

Fig. 5

control valve screw, remove the hook shaft cap screw and check for interference of the oil flow.

After each adjustment, a short test run should be made; for additional oil, the short run is advisable to allow the increase of oil to flow through to the oil wick; for decreasing the flow of oil, the short run will allow the excess oil to disperse. After each adjustment, the oil control valve set screw **J2, Fig. 20** should be securely tightened.

NEEDLES

Needles for **Machine 212w145** are of Class and Variety 135 x 7 and are made in sizes 12, 14, 16, 18, 20 and 21.

The above needles regularly have nickel finish, but can be supplied with chromium finish if ordered.

The size of the needle to be used should be determined by the size of the thread, which must pass freely through the eye of the needle. Rough or uneven thread, or thread which passes with difficulty through the eye of the needle will interfere with the successful use of the machine.

Orders for needles must specify the quantity required, the size number, and the class and variety numbers separated by an **X.**

The following is an example of an intelligible order:

"100 No. 16, 135x7 Needles"

The best stitching results will be obtained by using the needles sold by Singer Sewing Machine Company.

THREAD

Left twist thread should be used for both needles. Either right or left twist can be used for the bobbins.

Hold the thread as shown. Turn the thread over toward you between the thumb and forefinger of the right hand; if left twist, the strands will wind tighter. If right twist, the strands will unwind.

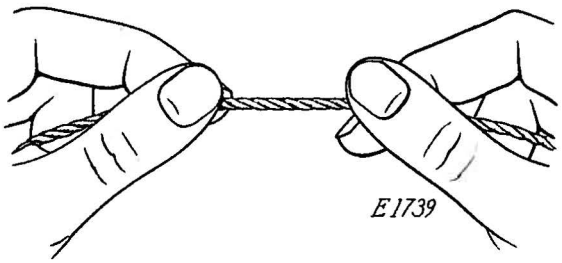

Fig. 6. How to determine the Twist

TO REMOVE THE BOBBINS

Draw out the slide plates in the bed of the machine. Turn the machine pulley over toward you until the needle bar moves up to its highest point. Raise the bobbin case latches **K, Fig. 8** and lift out the bobbins.

TO WIND THE BOBBIN

Fasten the bobbin winder to the table with its driving pulley in line with and approximately 1/4 inch from the machine belt, so that when thumb latch **E** is pressed down, the driving pulley will make firm contact with the machine belt, and when sufficient thread has been wound on the bobbin, the driving pulley will be automatically released from contact with the belt.

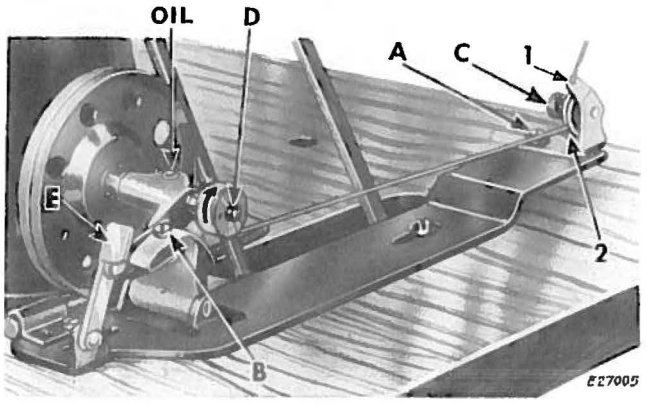

Fig. 7. Winding the Bobbin

Place the bobbin on the bobbin winder spindle and push it on as far as it will go.

Pass the thread down through the thread guide **(1)** in the tension bracket, around the back of and between the tension discs **(2).** Then wind the end of the thread around the bobbin a few times in the direction shown in **Fig. 7,** press down latch **E,** moving the bobbin winder pulley against the machine belt, and start the machine.

When sufficient thread has been wound upon the bobbin, the bobbin winder will stop automatically.

If the thread does not wind evenly on the bobbin, loosen the screw **A** in the tension bracket and move the bracket to the right or left as may be required, then tighten the screw.

The amount of thread wound on the bobbin is regulated by screw **B.** To wind more thread on the bobbin, turn screw **B** in. To wind less thread on the bobbin, turn the screw out.

Bobbins can be wound while the machine is stitching.

When winding a bobbin with fine thread, a light tension should be used. Adjust the knurled nut **C, Fig. 7** to regulate the tension.

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TO REPLACE THE BOBBIN AND THREAD THE BOBBIN CASES

The following instructions apply to both bobbin cases:

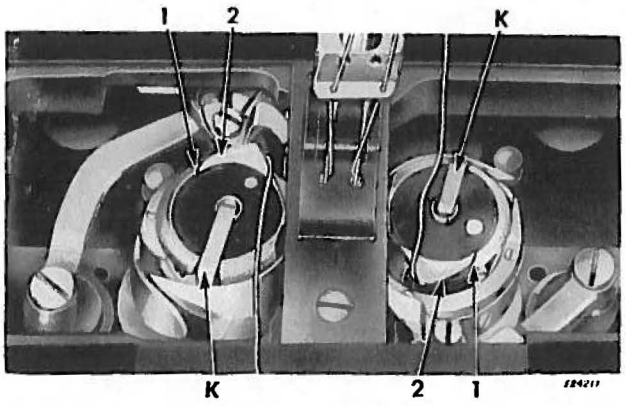

Fig. 8. Threading Bobbin Cases

Hold the bobbin between the thumb and forefinger of the right hand, the thread on the bottom from left to right, and place it on the center stud of the bobbin case, then push down the latch **K**, as shown in **Fig. 8.** Draw the thread into the slot **1** in the edge of the bobbin case and back of the projection **2**, leaving a loose end of thread about two inches long above the slide. When closing the slides, leave just enough space for the threads to pass through.

TO SET THE NEEDLES

Turn the machine pulley over toward you until the needle bar moves up to its highest point. Loosen the set screws in the needle holder and put the needles up into the holder as far as they will go, with the long grooves of the needles facing each other and the eyes of both needles directly in line with the arm of the machine, then tighten the set screws.

UPPER THREADING

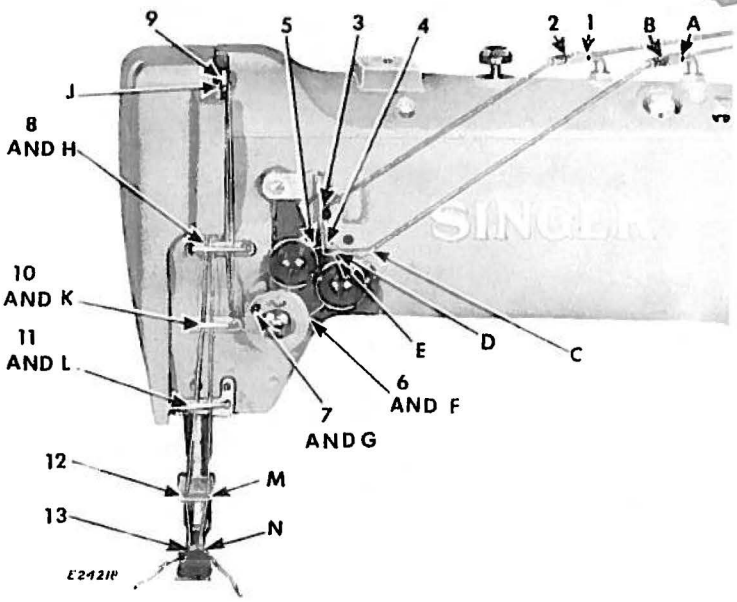

Fig. 9. Upper Threading

To thread the left needle or the one farthest from the upright part of the arm, pass thread from left spool on spool stand through left guide at top of spool stand, down through hole **1**, then through hole **2** in thread guide on top of arm, down through holes **3** and **4** in thread guide at front of machine, over from right to left between tension discs **5**, down under from right to left around thread controller **6**, up into fork **7** of thread controller against the pressure of wire controller spring, up through thread guide **8**, up and from right to left through upper hole **9** in end of thread take-up lever, down through thread guide **8** again and through two thread guides **10** and **11**, down through left hole **12** in needle holder and from right to left through eye of left or outside needle **13.**

To thread the right needle or the one nearest the upright part of the arm, pass thread from right spool on spool stand through right guide at top of spool stand, down through hole **A**, then through hole **B** in thread guide on top of arm, down through holes **C** and **D** in thread guide in front of machine, under from right to left between right tension discs **E**, down under from right to left around thread controller **F**, up into fork **G** of thread controller against the pressure of wire controller spring, up through thread guide **H**, up and from right to left through lower hole **J** in end of thread take-up lever, down through thread guide **H** again and through two thread guides **K** and **L**, down through right hole **M** in needle holder and from left to right through eye of right or inside needle **N.**

Draw about three inches of thread through the eye of each needle with which to begin sewing.

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TO PREPARE FOR SEWING

With the left hand, hold the ends of the needle threads, leaving them slack from the hand to the needles. Turn the machine pulley over toward you until the needles move down and up again to their highest point, thus catching the bobbin threads; draw up the needle threads and the bobbin threads will come up with them through the holes in the feed dog (see **Fig. 10**). Lay the threads back under the presser foot and close the slides.

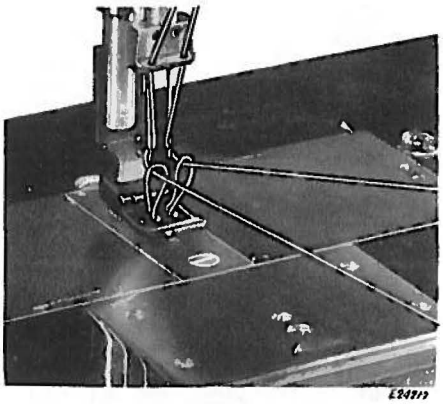

Fig. 10. Drawing up the Bobbin Threads

TO START SEWING

Place the material under the presser foot, lower the foot and start to sew, turning the machine pulley over toward you.

TO REMOVE THE WORK

Have the thread take-up lever at the highest point, raise the presser foot, draw the work back and cut the threads close to the goods. Lay the threads back under the presser foot.

TENSIONS

The needle and bobbin threads should be locked in the center of the thickness of the material, thus:

Fig. 11. Perfect Stitch

If the tension on the needle thread is too tight, or if that on the bobbin thread is too loose, the needle thread will lie straight along the upper surface of the material, thus:

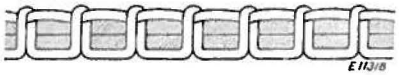

Fig. 12. Tight Needle Thread Tension

If the tension on the bobbin thread is too tight, or if that on the needle thread is too loose, the bobbin thread will lie straight along the under side of the material, thus:

Fig. 13. Loose Needle Thread Tension

TO REGULATE THE TENSIONS

The tensions on the needle threads are regulated by the two thumb nuts **B2, Fig. 15** at the front of the tension discs on the front of the machine. To increase the tension, turn these thumb nuts over to the right. To decrease the tension, turn the thumb nuts over to the left.

The tensions on the bobbin threads are regulated by means of the screw nearest the center of the tension spring on the outside of each bobbin case. To increase the tension, turn the screw over to the right. To decrease the tension, turn the screw over to the left.

TO REGULATE THE LENGTH OF STITCH

The number of stitches per inch is stamped on the machine pulley, **Fig. 4** located on the arm shaft.

To change the length of stitch, press down the plunger **O, Fig. 4** in the bed of the machine and at the same time turn the machine pulley slowly until the plunger enters a notch in the adjustable feed eccentric cam. Still holding the plunger, turn the machine pulley over a part of a revolution until the desired number of the stitches per inch on the machine pulley is opposite the reference mark **P, Fig. 4** on arm, then release the plunger.

TO REGULATE THE PRESSURE ON MATERIAL

The pressure on the material is regulated by the screw **N, Fig. 14** at the back of the machine, the screw acting on a flat spring. To increase the pressure, turn this screw downward. To decrease the pressure, turn this screw upward. The pressure should be only heavy enough to enable the feed to move the work along evenly.

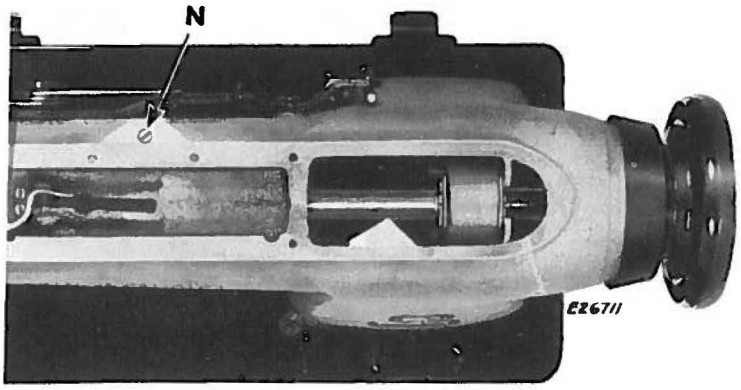

Fig. 14

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HINTS FOR PERFECT OPERATION

Follow instructions and oil machine regularly.

The machine pulley must always turn toward the operator.

Do not run the machine with presser foot resting on the feed without cloth under the presser foot.

Do not run the machine when the bobbin cases and needles are threaded, unless there is material under the presser foot.

Do not try to help the machine by pulling the fabric, lest you bend the needles. The machine feeds the work without assistance.

The slides over the bobbin cases should be kept closed when the machine is in operation.

Do not press on the knee lifter lever while the machine is in operation, as this will prevent the work from feeding properly.

Occasionally remove the accumulation of lint from around the hooks and from between the feed rows beneath the throat plate.

NEVER TOUCH THE STITCH REGULATOR PLUNGER WHEN THE MACHINE IS RUNNING.

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THREAD CONTROLLER

The function of the thread controller spring is to hold back the slack of the needle threads until the point of each needle reaches the goods in its descent, as without this controlling action of the spring, the slack thread or silk (more especially silk) will sometimes be penetrated by the points of the needles as the needles are descending.

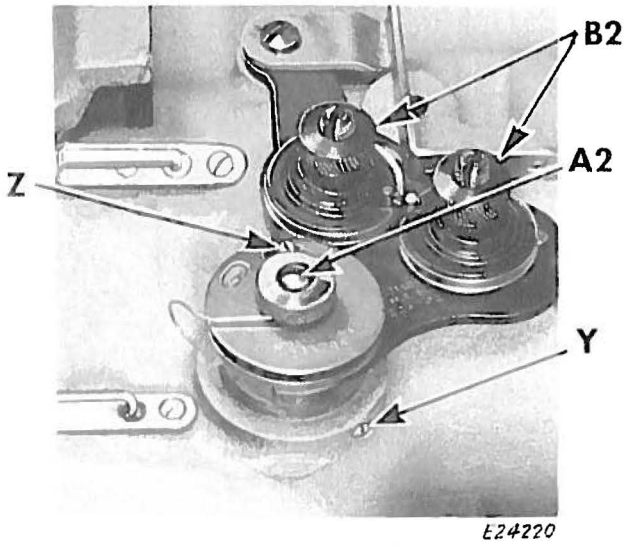

Fig. 15. Adjustment of Thread Controller

To change the thread controller stop for more controller action on the threads, loosen the set screw **Z, Fig. 15** and turn the thread controller spring stop to the right; for less action, turn the thread controller spring stop to the left, after which securely tighten the set screw **Z.**

It may be necessary to increase the tension of the spring for coarse thread, or to decrease it for fine thread.

To increase the tension of the thread controller on the threads, loosen the tension stud set screw **Y, Fig. 15** located nearly under the tension stud, and turn the tension stud **A2** slightly to the left with a screwdriver, or to decrease the tension, turn it to the right and retighten the stud set screw **Y.**

TO SET THE NEEDLE BAR

See that the needles are up in the holder as far as they will go. There are two lines across the needle bar about two inches above the lower end. When the needle bar is at its lowest position, the upper mark should be just visible at the end of the needle bar bushing.

If the needle bar is not correctly set, loosen the needle bar connecting stud pinch screw **M, Fig. 16**

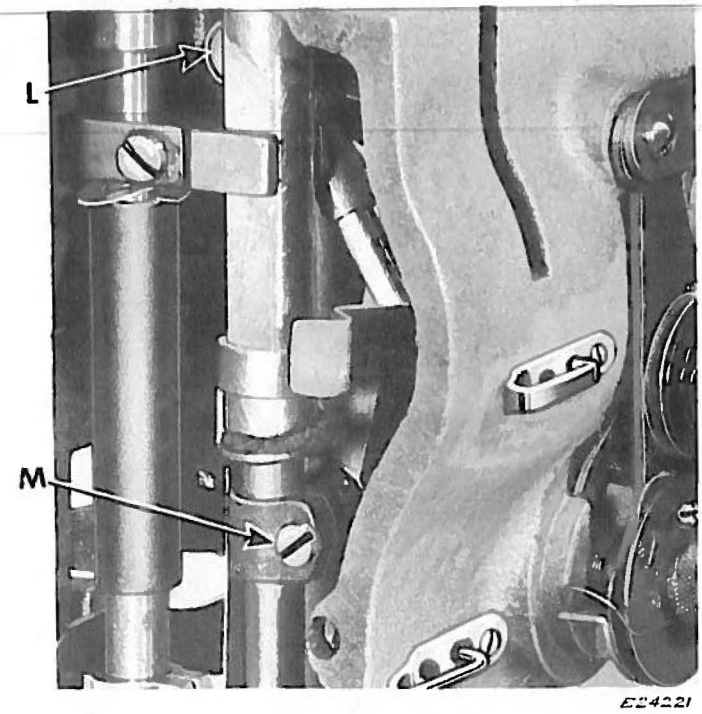

Fig. 16

and place the needle bar in the correct position as directed, then retighten the screw **M.**

To set a needle bar which has no timing marks, first set the feed eccentric so that there is no feeding motion. Then set the needle bar so that when it rises 3/32 inch from its lowest position and the points of the sewing hooks are at the centers of the needles, the eyes of the needles will be about 1/16 inch below the points of the hooks.

TO ADJUST HEIGHT OF SEWING HOOKS

On the upward stroke of the needle bar, with the lower timing mark just visible at the end of the needle bar bushing, the hook point should be 1/16 inch above the eye of the needle.

To adjust hook, fasten the throat plate to the bed of the machine with the bobbin case stop in sewing position. A .032 inch shim should slide between bobbin case stop and throat plate. If the shim is too loose, turn the machine pulley so that the Allen screws **H2, Fig. 19** are accessible with an Allen wrench. Loosen both screws and remove the cloth washer in the bobbin case, then turn the hook so that a hole in the bobbin case is in line with the hook height adjusting screw **J2, Fig. 19.** By turning the adjusting screw down, the hook is pushed higher. If the shim does not go between bobbin stop and throat plate, turn the adjusting screw left and press the hook down. Check the timing and tighten the Allen screw **H2.** After the Allen screws are tight, turn the adjusting screws **J2, Fig. 19** just enough to leave a small amount of tension.

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TO SET THE SEWING HOOKS TO OR FROM THE NEEDLES

To prevent the points of the hooks from dividing the strands of the threads, they should run as close to the needles (within the scarf) as possible.

Turn the machine pulley over toward you until the points of the sewing hooks are at the centers of the needles. Loosen the two screws **N** and the two screws **T, Fig. 17** underneath the bed of the machine and move the hook saddles to the right or left, as may be required, until the points of the hooks are as close to the needles as possible without striking them, then securely tighten the four screws **N** and **T.**

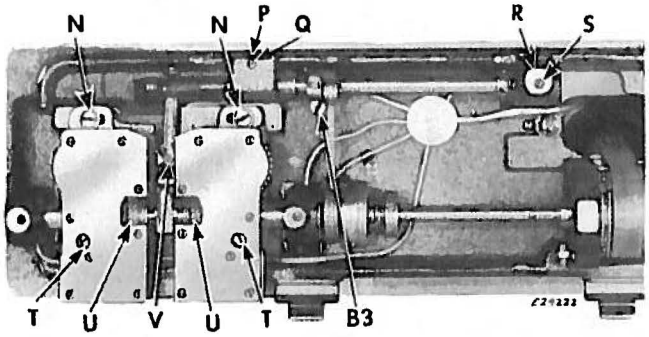

Fig. 17

CAUTION: Make sure hook driving gears **U, Fig. 17** are set correctly with relation to face of hook saddle. Use .008 shim.

The function of the needle guard **G2, Fig. 19,** which is attached to the side of the sewing hook, is to prevent the point of the hook from striking the needle, if, when passing through the material, the needle is deflected toward the hook.

The needle guard can be bent with a small pair of pliers until it prevents the hook point from striking the needle, but it should not be bent outward enough to deflect the needle from its normal path.

TO TIME THE SEWING HOOKS

Adjust the feed eccentric so that there is no feeding motion.

Remove the throat plate and turn the machine pulley over toward you until the lower timing mark across the needle bar is just visible at the lower end of the needle bar bushing on the upward stroke of the needle bar.

If the needle bar and sewing hooks are correctly timed, the point of each hook will be at the center of its needle and about 1/16 inch above the eye.

If the sewing hooks are not correctly timed, turn the machine pulley over toward you until the needle bar has descended to its lowest point and has risen until the lower timing mark across the needle bar is just visible at the end of the needle bar bushing. Loosen the two screws **H2, Fig. 19** in the hub of each hook and turn the hooks until the point of each hook is at the center of its needle. Then securely tighten the two screws **H2.**

TO REMOVE THE BOBBIN CASES FROM THE SEWING HOOKS

Remove the four hook gib screws **W, Fig. 18** from the sewing hooks, lift off the hook gibs **F2, Fig. 19** and remove the bobbin cases **X, Fig. 18.**

CAUTION: This machine is equipped with chrome plated bobbin cases, which should always be replaced with chrome plated bobbin cases.

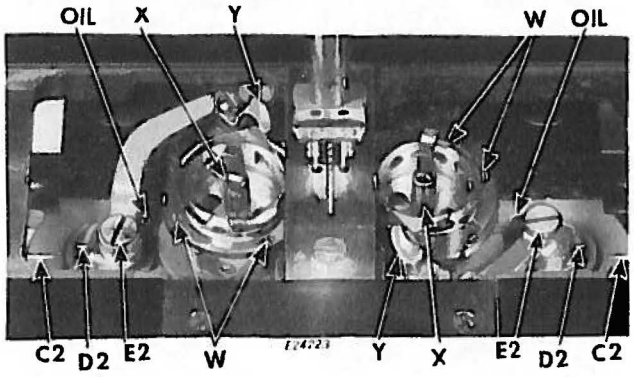

Fig. 18

TO REMOVE THE SEWING HOOKS FROM THE MACHINE

Remove the presser foot, throat plate and feed dog, then loosen two Allen set screws **H2, Fig. 19** in hub of hook and lift hook off end of shaft. In order to remove hook shaft, first remove screws in ball bearing retaining cap directly under the hook. Next, tip machine back and loosen set screws **L2, Fig. 20** in hook shaft gears and lift hook shaft by top end. If shaft does not lift out easily, loosen screws in cover plate of hook saddle sufficiently to permit oil to drain out, then remove cover, being careful not to damage the gasket **M2, Fig. 20,** then tap end of hook shaft.

CAUTION: Each hook is equipped with a screw in the hub for adjusting the vertical position of the hook relative to the throat plate seat. When replacing or installing new hooks, care must be taken to see that the bobbin case stop finger fits correctly in the throat plate. If it is too high, it will interfere with the free passage of thread. If it is too low, it may slip out and cause damage to the hook and bobbin case.

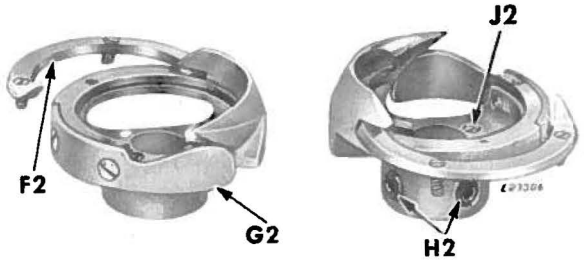

Fig. 19. Sewing Hook Removed from Machine Showing Hook Washer

To make the adjustment, remove the cloth washer in the bottom of the bobbin case and loosen the

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Allen set screws in the hook hub, then turn the hook until the adjusting screw appears beneath one of the holes in the bottom of the bobbin case. Hold the hook down against its seat with one hand, and with the other hand, turn the adjusting screw with screwdriver until the proper up and down position is attained. Tighten Allen set screws in hub of hook.

To remove the ball bearing from the hook shaft, rest the bearing on two pieces of sheet metal across the open jaws of a vise with the shaft end up, tap shaft until bearing is removed.

TO REMOVE THE HOOK SHAFT FROM THE HOOK SADDLE

Remove the needles, slide plates, throat plate and feed dog. Turn the machine pulley, so that the Allen screws in the hub of the hook are easy to reach with an Allen wrench. Loosen the Allen screws **H2, Fig. 19** and lift the hook from the shaft. It may be necessary to turn the machine pulley to bring the bobbin case opener into the most open position.

Remove both ball bearing retainer screws. Tip the machine back away from the operator and with the Allen wrench, loosen the screws in the hub of the hook driving gears **L2, Fig. 20.** Pull the hook shaft through the top.

If the hook shaft does not lift out easily, loosen screws in cover plate of hook saddle sufficiently to permit oil to drain out, then remove the cover, being careful not to damage the gasket **M2, Fig. 20,** then tap end of hook shaft.

The above procedure also applies to the removal of the hook shaft gears.

TO ADJUST THE BOBBIN CASE OPENER

The bobbin case opener **Y, Fig. 18** should be set so that it touches the bobbin case as lightly as possible, yet turns the bobbin case enough to make a sufficient opening for the free passage of the thread between the throat plate and the bobbin case.

TO ADJUST TIMING OF BOBBIN CASE OPENER

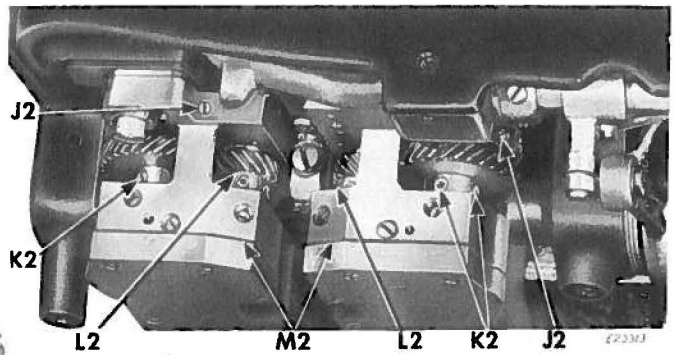

Fig. 20

Turn the machine pulley over toward you until lowest timing mark on needle bar is even with end of needle bar bushing. In this position, the mark **D2, Fig. 18** on the flange of the opener driving shaft should line up with the reference mark **C2 Fig. 18** on hook saddle.

If opener shaft is out of time, tip machine back and loosen set screws **K2, Fig. 20** in opener driving gears, then return machine to upright position and turn shaft with screwdriver in **E2, Fig. 18** at top end of shaft, then tighten set screws **K2, Fig. 20** in gears.

TO ADJUST THE FEED ROCK SHAFT BEARINGS

The feed rock shaft is carried in split bushings which can be adjusted to take up any wear which may occur. Loosen the two lock screws **Q** and **R, Fig. 17** and turn in the two adjusting screws **P** and **S, Fig. 17** until all lost motion of the rock shaft has been eliminated, then securely tighten the lock screws **Q** and **R.**

TO RAISE OR LOWER THE FEED DOG

Usually when the feed dog is at its highest position, it should show a full tooth above the throat plate.

Remove the throat plate. Clean the lint and dust from between the feed points and replace the throat plate. Tip the machine back and turn the machine pulley toward you until the feed dog is at its highest position. Loosen screw **V, Fig. 17** in the feed lifting cam fork and raise or lower the feed dog, as may be required. Then tighten the screw **V.**

When raising or lowering the feed dog, be careful that its underside does not drop low enough to strike the sewing hooks.

The feed dog should be set so that when the needles are down, they will be slightly in front of the center of the needle holes (toward the operator). In case the needles do not enter the holes in the feed dog correctly, loosen the pinch screw **B3, Fig. 17** and adjust the feed dog as required, then securely tighten the pinch screw.

TO REMOVE TAKE-UP LEVER

Remove arm cover at top of machine, loosen set screw **U2, Fig. 22,** and remove take-up lever hinge stud **L, Fig. 16.** Lift take-up lever out through slot in top of arm **V2, Fig. 22.**

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THE FEED ECCENTRIC

The feed eccentric is provided with a gib **P2, Fig. 21,** which can be adjusted to take up any wear or loose motion between the feed eccentric and the eccentric body. To adjust the gib, loosen the two locking screws **Q2, Fig 21** nearest the gib, then turn the two adjusting screws **O2** against the gib until all play is eliminated and the eccentric fits snugly in the slot in the eccentric body. Securely tighten the two locking screws **Q2.**

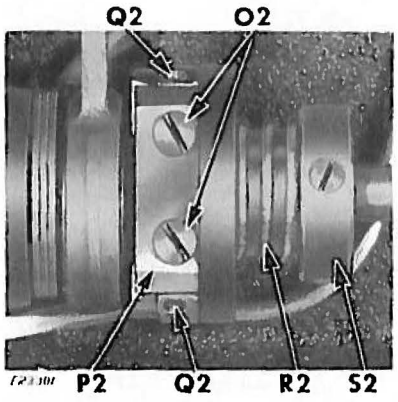

Fig. 21

The spring **R2** presses against the feed eccentric cam to prevent it from moving out of position while the machine is operating. The collar **S2** may be moved to the right or left to change the spring pressure. It should ordinarily be set flush with the end of the hub of the eccentric body.

TO REPLACE THE ARM SHAFT CONNECTION BELT

Remove the needles to avoid damage while machine is out of time. Slide the belt off lower pulley **Z2, Fig. 23.** Loosen the two screws in the machine pulley and remove machine pulley and ball bearing which comes out with the wheel. Lift the belt up and draw it around the arm shaft through the space normally occupied by the ball bearing.

Replace the belt through the ball bearing hole. After placing the belt over the upper pulley **T2, Fig. 22,** replace the machine pulley. To remove all the end play from the shaft, lightly tighten the set screws in the machine pulley and, holding the needle bar crank in place, tap the machine pulley into position with the palm of the hand, then tighten screws firmly. Turn the machine pulley over toward you until the thread take-up lever is at its highest point. Then turn the hook driving shaft until the arrow **Z2, Fig. 23** on the belt pulley is in line with the mark **Y2, Fig. 23** on the bed. Now, without disturbing either the arm shaft or hook driving shaft, slip the belt over the lower pulley. The feed will then be correctly timed with the needle.

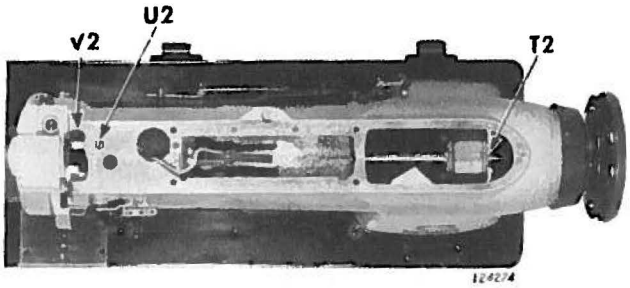

Fig. 22

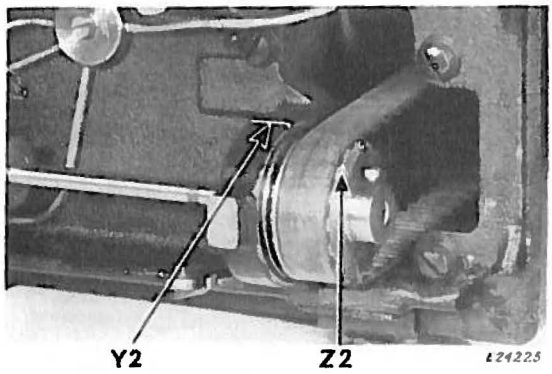

Fig. 23

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PARTS LIST
FOR
MACHINE NO. 212w145

INSTRUCTIONS FOR ORDERING

To simplify ordering of parts, exploded views of the various sections of the mechanism are shown in the same illustration as the assembly of those parts. On the page opposite the illustration is a list of parts with key or reference numbers to indicate the position of that part in the illustration. These key numbers in the first column are for reference only and are not to be used in ordering parts.

In ordering from this list, use ONLY the PART number in the SECOND column.

The number stamped on a Sewing Machine Part is the number of the single part only.

Every combination of parts sent out has its specific number which, although not stamped on Parts must be used when ordering the combination.

Each number always indicates the SAME PART in whatever list it appears, or for whatever Machine.

The letters after some of the numbers indicate the style of finish only, as follows:

AL	Heat Treated for Toughness.
ALX	Heat Treated for Toughness and Black Oxide.
C	Hardened only.
D	Polished only.
E	Soft, Not polished.
F	Hardened and Polished.
X	Black Oxide, for Iron and Steel.
XC	Hardened and Black Oxide, for Iron and Steel.

These letters MUST BE USED when they appear in the list and AFTER the number, as in the list.

In this series:
1 to 1500, 200001 to 201500 and 350001 to 351500 are Screw Numbers.
1501 to 1800, 201501 to 201800 and 351501 to 351800 are Nut Numbers.
1801 to 2000, 201801 to 202000 and 351801 to 352000 are Roller Numbers.
2001 to 50000 and 202001 to 350000 are Numbers of Machine Parts.

Parts marked with an asterisk (*) are furnished only when repairs are made at the factory; these (*) parts are named at bottom of descriptive list opposite illustration.

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ARM SHAFT AND TAKE-UP ASSEMBLY

Ref. No.	Part No.	Description
1	267300	Take-up Lever
2	267239	Hinge Stud with 267240
3	200383C	Set Screw
4	267240	Oil Packing (wick)
5	202552	Connecting Link
6	202399	Driving Stud with 202277
7	202277	Oil Packing (wick)
8	264714	Connecting Stud with 200072C and 202330
9	200072C	Pinch Screw
10	202330	Oil Packing (wick)
11	267160	Oil Pad (felt) (upper)
12	267249	Oil Control Spring
13	200142E	Screw (2)
14	267236	Oil Reservoir Oil Wick
15	267247	Arm Shaft *267158 with 200333C, 200374AL, 200378C, 200388C, 267221 and *267222
16	267221	Connecting Link Stud with 202254
17	202254	Oil Packing (wick)
18	200374AL	Set Screw
19	200388C	Set Screw
20	200333C	Position Screw
21	200378C	Position Screw Check Screw
22	267224	Friction Washer
23	267159	Arm Shaft Bushing
24	204329	Oil Pad (felt) (lower)
25	200341C	Set Screw
26	267162	Belt Pulley with 200363AL, 350492C and two 202253
27	202253	Spring Flange
28	350492C	Position Screw
29	200363AL	Set Screw
30	267161	Connection Belt (reinforced neoprene)
31	267306	Machine Pulley 267305 with 272142
32	267305	Machine Pulley (aluminum alloy casting) for "V" belt (outside diam. of belt groove 2.9 in.) (rim diam. 4 in.) (inside belt groove) with 350540C and 350541C
33	350541C	Set Screw
34	350540C	Position Screw
35	272142	Bearing (back) (double shielded bearing)
	*267158	Arm Shaft
	*267222	Needle Bar Crank

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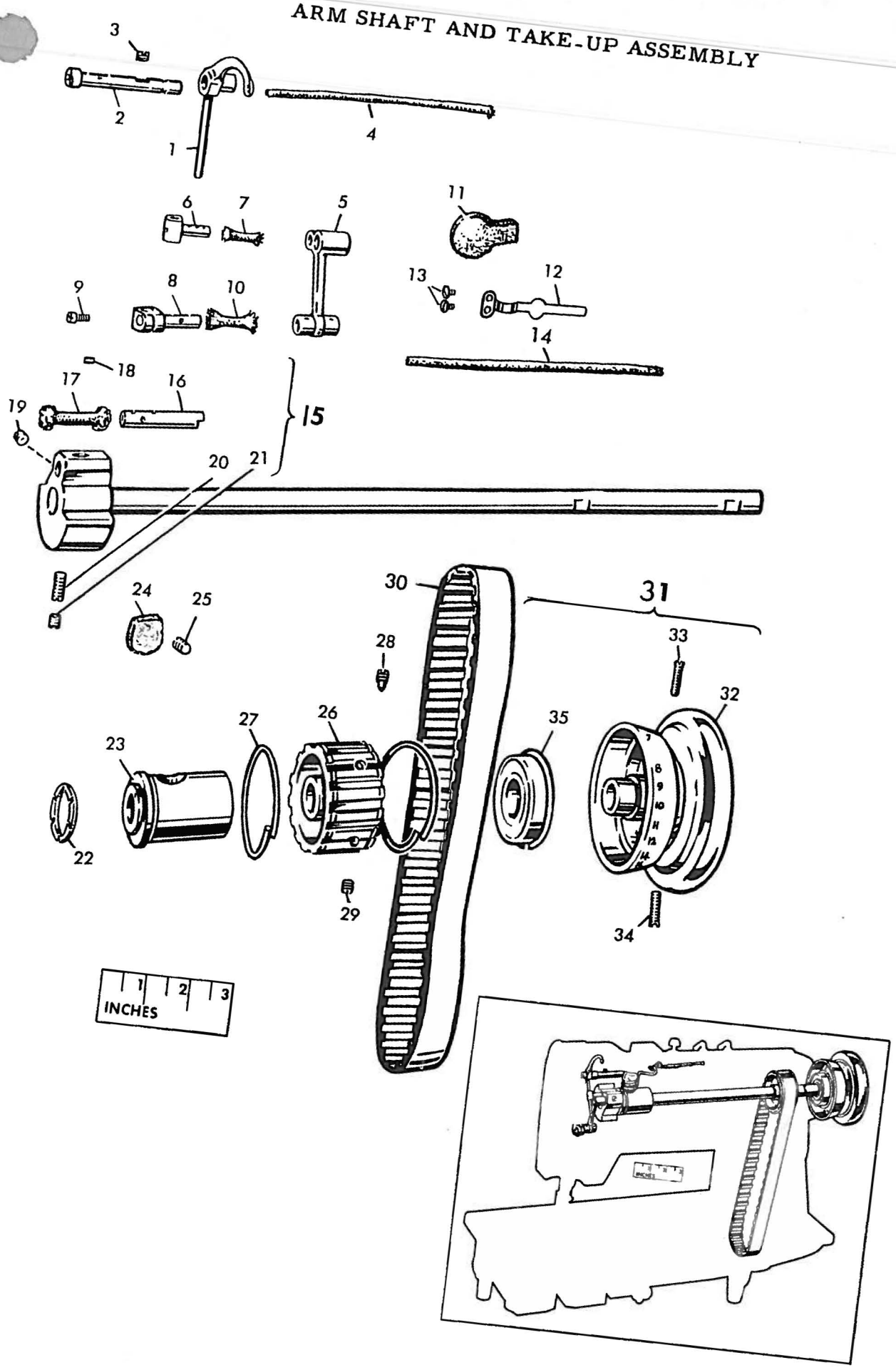
ARM SHAFT AND TAKE-UP ASSEMBLY



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BED SLIDES, COVERS AND MISCELLANEOUS PARTS

Ref. No.	Part No.	Description
1	267153	Arm Cover (top) with 267272
2	200047X	Screw (6)
3	267250	Oil Control Spring Plunger with 267323
4	267323	Plunger Pin
5	271017	Thread Guide (top of Arm) (2)
6	201525E	Lock Nut (2)
7	267272	Oil Level Indicator
8	267252	Gasket (vellumoid)
9	267302	Face Plate
10	267177	Hinge Pin
11	200389C	Set Screw
12	268197	Face Plate Lock Spring Plate
13	267308	Oil Guard
14	268032	Lock Spring
15	201313F	Screw (2)
16	228661	Face Plate Cushion (rubber)
17	223853	Bed Slide (front) for use with Throat Plates in gauges from 1/32 to 1/2 inch
17	224043	Bed Slide (front) for use with Throat Plates in gauges from 17/32 to 1 inch
17	224044	Bed Slide (front) for use with Throat Plates in gauges from 1-1/32 to 1-1/2 inch
18	224144	Attachment Slide Plate with 213479 and 236061
19	200386C	Lock Screw
20	236061	Friction Slide
21	213479	Spring
22	223852	Bed Slide (back)
23	223811	Stop
24	223812	Spring
25	204235	Arm Position Pin (2)
26	200004E	Arm Screw (4)
27	202005	Washer (4)
28	224146	Attachment Slide Plate with 213479 and 236061, for use with depressed Throat Plates
	*267301	Arm
	*267163	Bed with 203376

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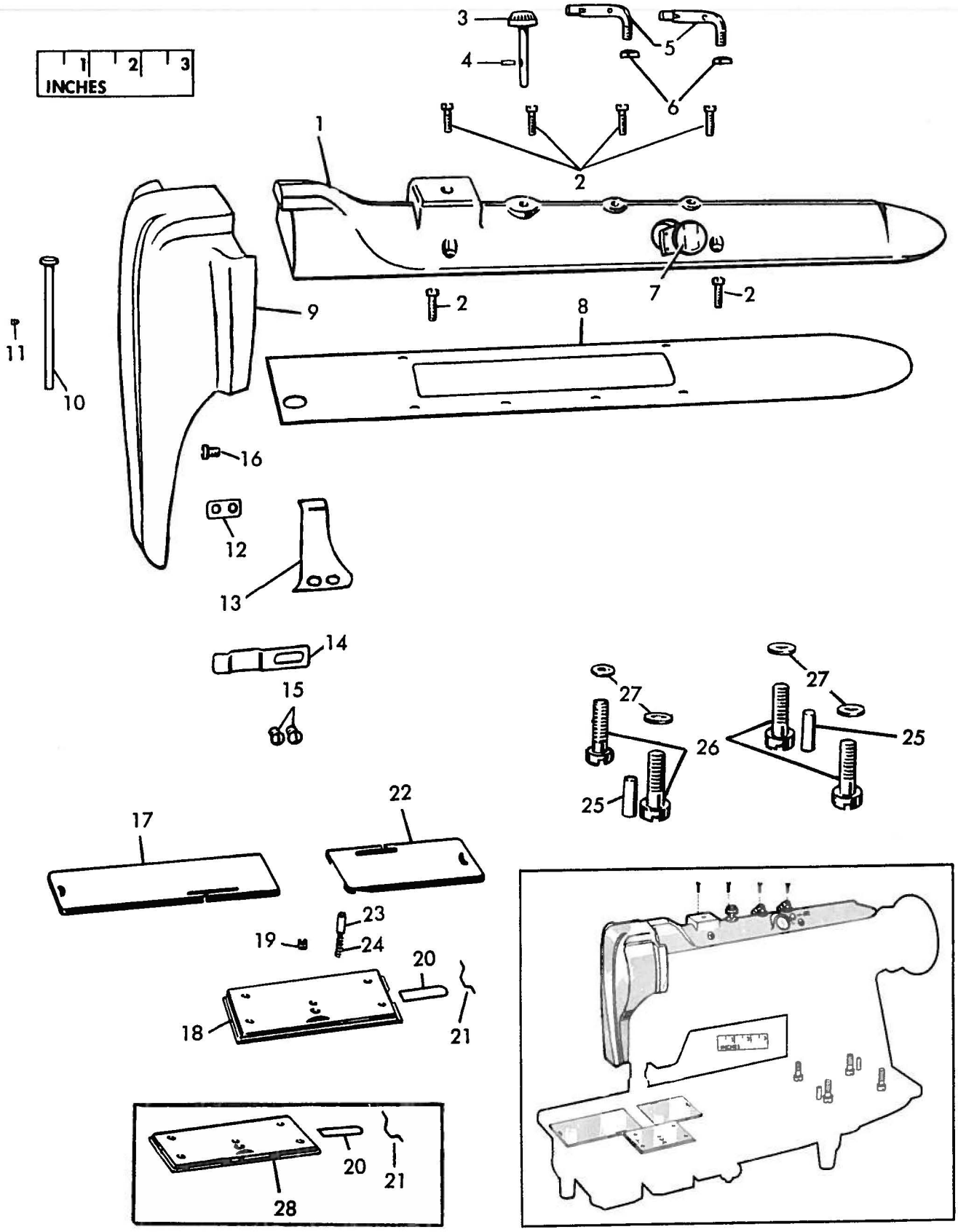
BED SLIDES, COVERS AND MISCELLANEOUS PARTS



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FEED DOGS AND THROAT PLATES

Ref. No.	Part No.	Description
1	236402	Throat Plate, 50 needle hole, needles 3/32 in. apart, for needle sizes 14 and 15, in gauges 1/32, 3/64 and 1/16 in., for 236401
2	200161D	Clamp Screw
3	203376	Position Pin
4	691F	Screw
5	236401	Feed Dog, for 236402
6	200106E	Screw (2)
7	236405	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 3/32, 1/8 and 5/32 in., for 236403
8	236403	Feed Dog, for 236405
9	236485	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 3/16 to 11/32 in., in steps of 1/32 in., for 236477
10	236477	Feed Dog, for 236485
11	236427	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 3/8, 13/32, 7/16, 15/32 and 1/2 in., for 211669
12	211669	Feed Dog, for 236427
13	236430	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 1/2, 17/32, 9/16, 19/32 and 5/8 in., for 211674
14	211674	Feed Dog, for 236430
15	236433	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 9/16 to 23/32 in., in steps of 1/32 in., for 211679
16	211679	Feed Dog, for 236433
17	236436	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 23/32 to 7/8 in., in steps of 1/32 in., for 211685
18	211685	Feed Dog, for 236436
19	236441	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 13/16 to 1-1/8 in., in steps of 1/32 in., for 236439
20	236439	Feed Dog, for 236441
21	236444	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 1 to 1-3/16 in., in steps of 1/32 in., for 211693
22	211693	Feed Dog, for 236444
23	236450	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 1-1/4, 1-9/32 and 1-5/16 in., for 211698
24	211698	Feed Dog, for 236450
25	236454	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 1-3/8 to 1-1/2 in., in steps of 1/32 in., for 236452
26	236452	Feed Dog, for 236454

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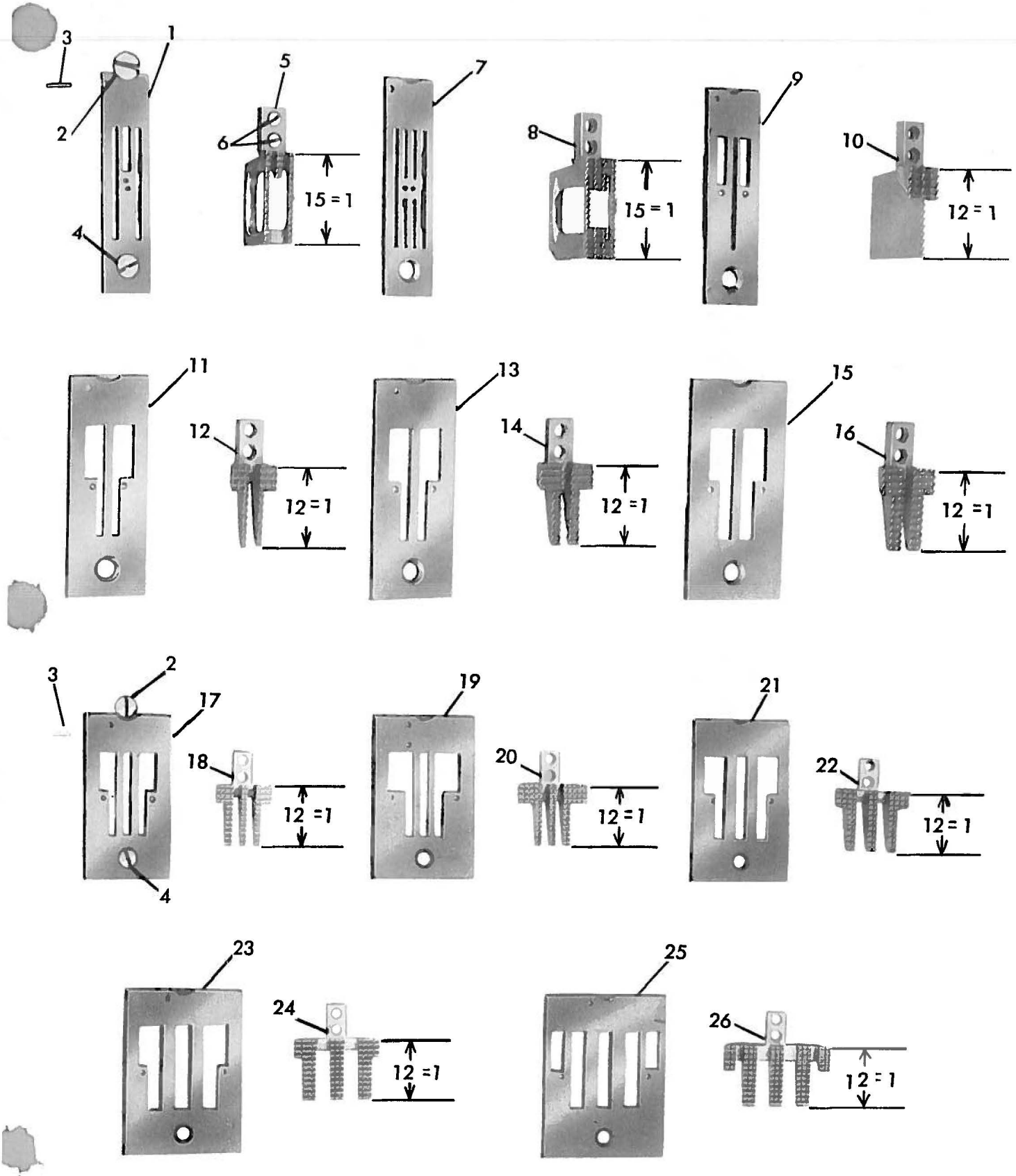
FEED DOGS AND THROAT PLATES



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HOOK AND BOBBIN CASE WITH BOBBIN

Ref. No.	Part No.	Description
1	267357	Hook and Bobbin Case complete, Nos. 236082 and 267356
2	236082	Bobbin Case complete, Nos. 200594C, 201016C, *202056, 203216, 203473, 203474, 203648, *236081 and 236083
3	203648	Bobbin Case Latch
4	203473	Latch Plunger
5	203474	Latch Spring
6	203216	Washer (cloth)
7	236083	Tension Spring
8	201016C	Tension Spring Regulating Screw
9	200594C	Tension Spring Screw
10	267356	Hook *267355 with 267358 to 267360, 350574F, two each 200591X, 201253F and 201409F
11	350574F	Hook Height Adjusting Screw
12	140434ALX	Set Screw
13	267360	Thread Guard
14	200591X	Screw
15	267359	Needle Guard
16	201409F	Screw
17	267358	Hook Gib
18	201253F	Screw
19	203470	Bobbin (2)
	*202056	Bobbin Case Latch Pin
	*236081	Bobbin Case (chromium plated)
	*267355	Hook (sewing) with two 140434ALX

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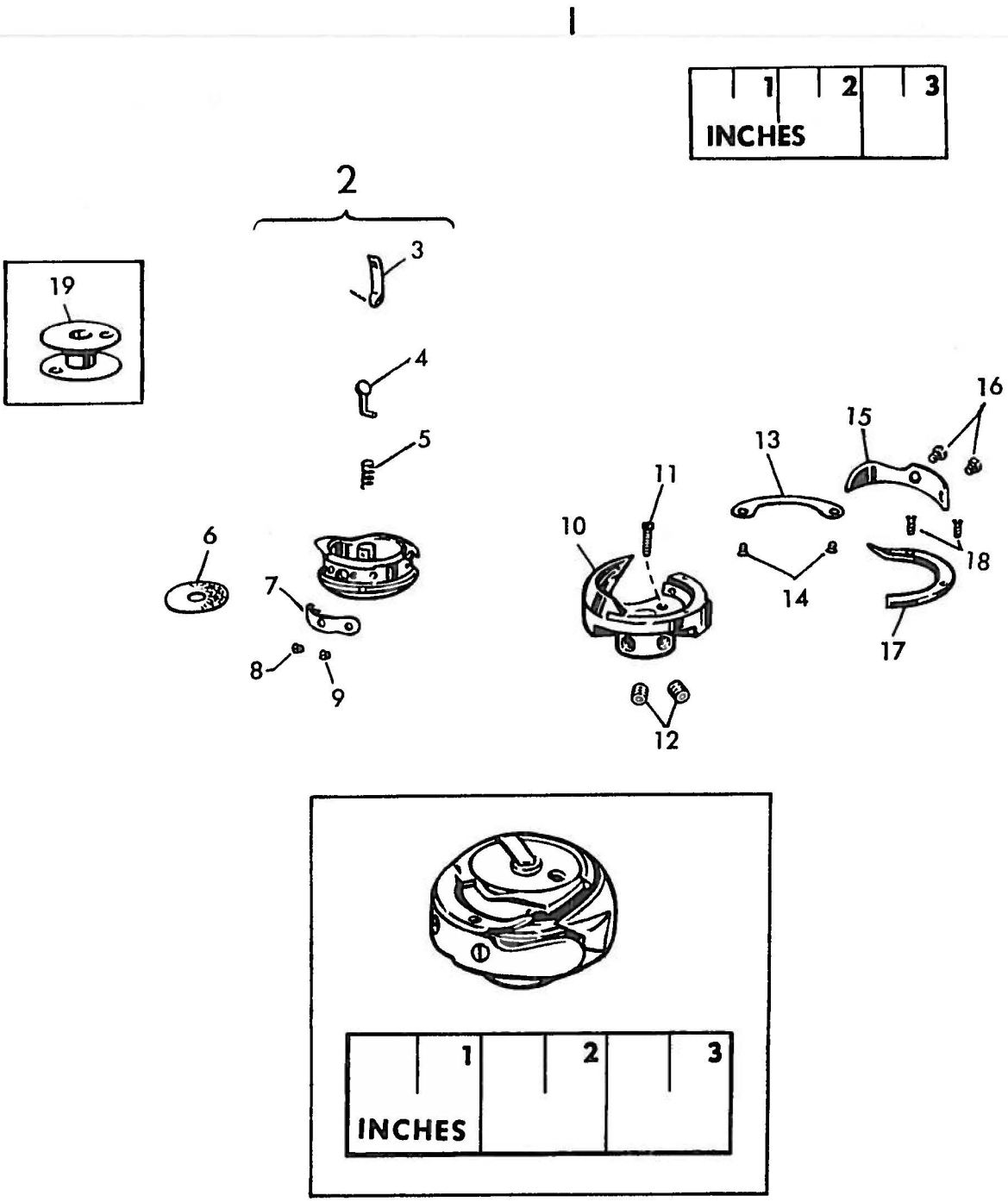
HOOK AND BOBBIN CASE WITH BOBBIN



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HOOK DRIVING AND FEED DRIVING ECCENTRIC ASSEMBLY WITH HOOK SADDLE BEARINGS

Ref. No.	Part No.	Description
1	202254	Wick (2)
2	267245	Feed Regulating Stud
3	270026	Spring
4	240245	Retaining Spring
5	350440X	Bed Oil Screw
6	267189	Driving Shaft
7	263093	Saddle Bearing (left) Oil Packing (wick)
8	267195	Saddle Bearing (left)
9	267188	Gear (spiral) with 200382C and 201220C (2)
10	200382C	Set Screw
11	201220C	Position Screw
12	267196	Saddle Bearing (right)
13	223847	Saddle Bearing (right) Oil Packing (wick)
14	267033	Friction Washer
15	200582X	Screw (3)
16	268064	Feed Driving Eccentric
17	267623	Friction Plate
18	350548C	Screw
19	267180	Flange with 267623, two each 241763, 350467C, 350477C and 350548C
20	241763	Set Screw Packing (brass)
21	350477C	Set Screw
22	350467C	Set Screw
23	268065	Adjusting Disc
24	268066	Spring
25	268067	Collar with two 200382C
26	267191	Collar 267190 with 267060
27	267190	Collar with 200382C and 201220C
28	267060	Ball Bearing
29	267063	Retaining Washer
30	200580X	Screw (3)
31	267304	Belt Pulley with 202253 and two 201254C
32	202253	Spring Flange
33	201254C	Set Screw

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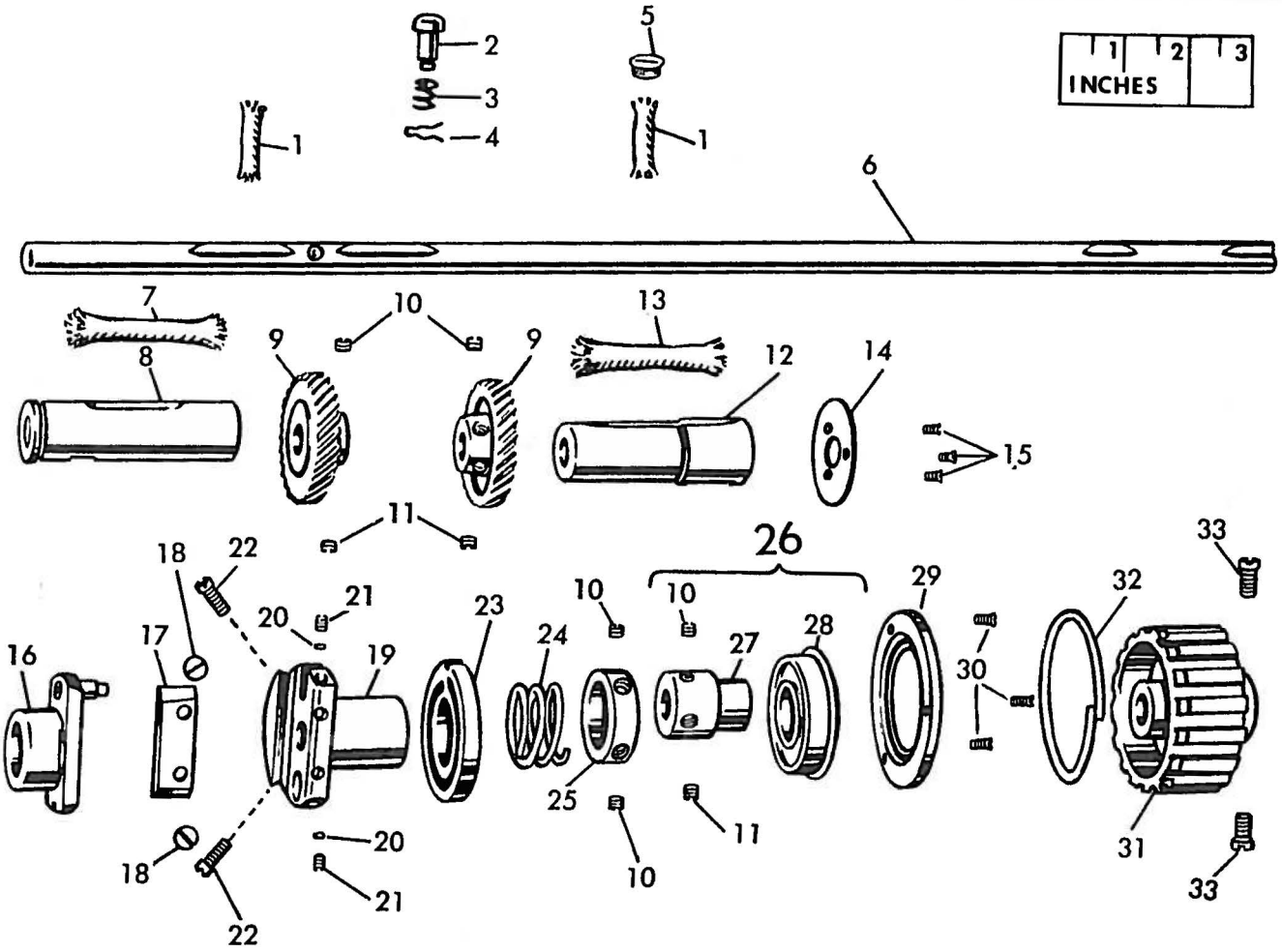
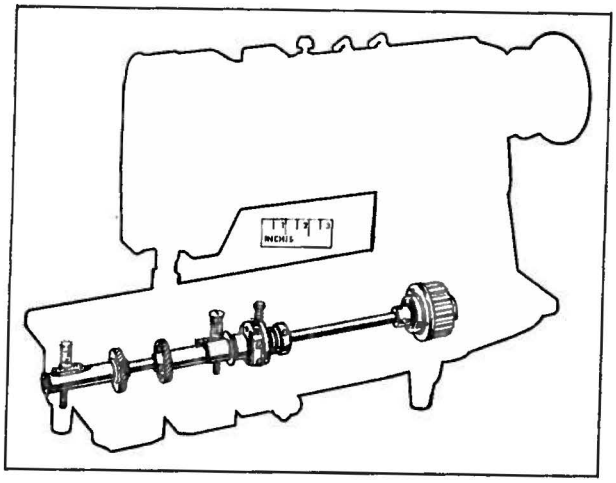
HOOK DRIVING AND FEED DRIVING ECCENTRIC ASSEMBLY WITH HOOK SADDLE BEARINGS





From the library of: Superior Sewing Machine & Supply LLC

HOOK SADDLE (LEFT) COMPLETE

Ref. No.	Part No.	Description
1	267291	Hook Saddle (left) complete, Nos. 200110D, 200378C, 244084, 267017, 267018, 267053, 267166, 267171, 267193, 267198, 267199, 267212, 267215, 267248, 267351, 267357, 267365, 267366, 350564E, two each 200089X, 200135C, 200143X, 267361 and eight 200061ALX
2	267357	Hook and Bobbin Case complete
3	267171	Link (left)
4	200135C	Cap Screw
5	267018	Cam Shaft
6	267361	Retainer
7	200089X	Screw
8	267053	Hook Ball Bearing
9	276061	Oil Wick Holder
10	270880	Oil Wick
11	350564E	Oil Regulating Screw
12	267169	Cam Shaft Bushing (upper)
13	267215	Hook Shaft with 270880 and 276061
14	267366	Pinion (spiral) with two 350595XC
15	350595XC	Set Screw
16	267017	Hinge Bracket (left)
17	200143X	Screw
18	267166	Opener Crank
19	267351	Bobbin Case Opener
20	200110D	Screw
21	267248	Pinion Thrust Bearing
22	267367	Hook Shaft Bushing
23	244084	Check Screw Packing (fibre)
24	200378C	Oil Regulating Screw Check Screw
25	200335C	Bushing Set Screw
26	200185D	Oil Stop Screw
27	267193	Hook Saddle (left) with 200185D, 200347AL, 267168, 267169, 267367 and two 200335C
28	200347AL	Bushing (upper) Set Screw
29	267365	Cam Shaft Gear (spiral) with two 350595XC
30	267168	Cam Shaft Bushing (lower) with 270880
31	267212	Gasket
32	267198	Oil Gauge Sleeve with 267277
33	267277	Oil Strainer
34	267199	Oil Reservoir (left)
35	200061ALX	Screw
36	267140	Pinch Sleeve (upper)
37	267139	Pinch Sleeve (lower)
38	200001E	Screw
39	267197	Oil Gauge
40	225585	Washer
41	200006E	Hook Saddle Screw

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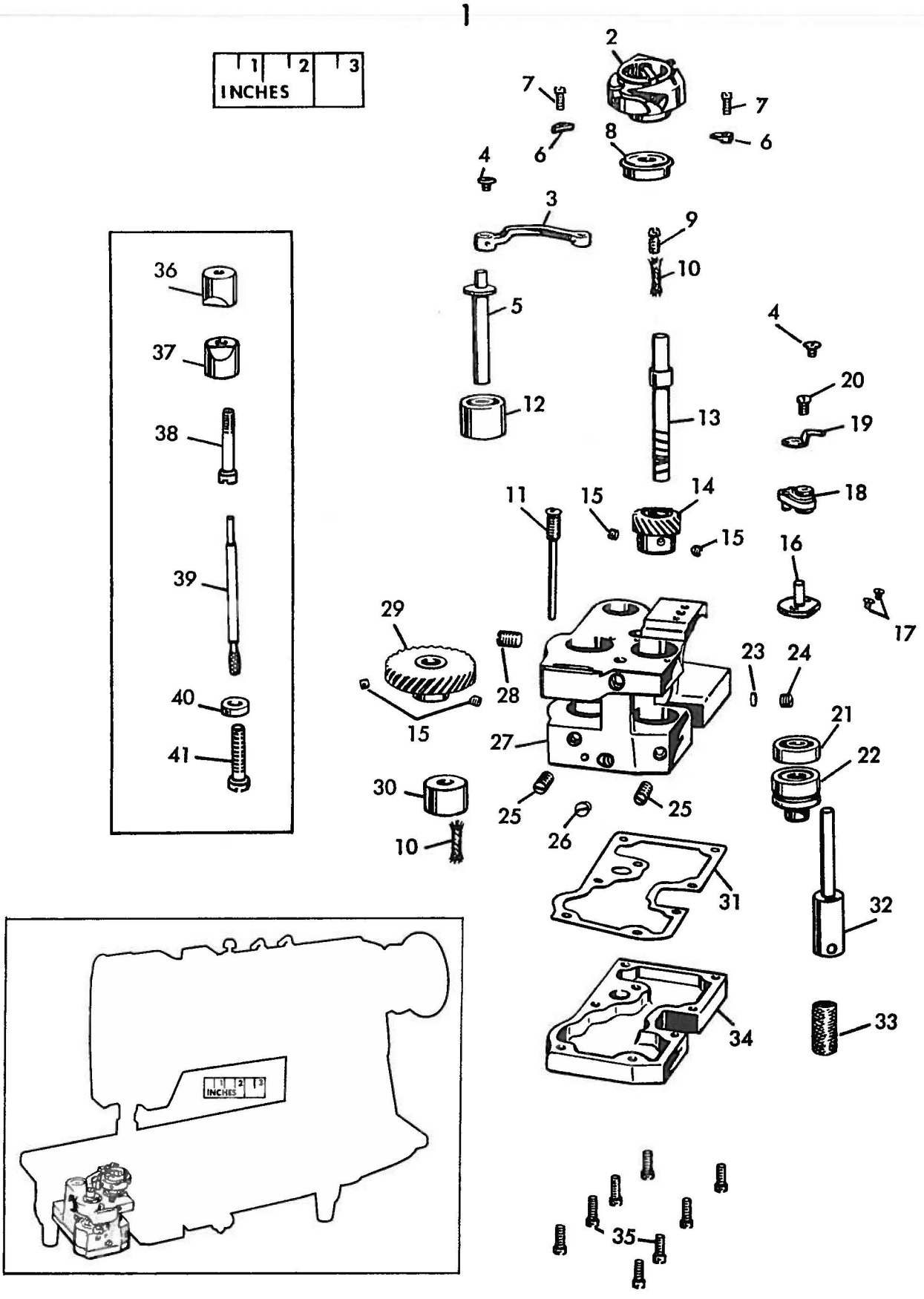
HOOK SADDLE (LEFT) COMPLETE



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HOOK SADDLE (RIGHT) COMPLETE

Ref. No.	Part No.	Description
1	267292	Hook Saddle (right) complete, Nos. 200110D, 200374AL, 200378C, 200388C, 244084, 267018, 267053, 267166, 267167, 267172, 267194, 267198, 267200, 267212, 267215, 267248, 267266, 267351, 267357, 267365, 267366, 350564E, two each 200089X, 200135C, 267361 and eight 200061ALX
2	267357	Hook and Bobbin Case complete
3	267053	Hook Ball Bearing
4	267361	Retainer
5	200089X	Screw
6	276061	Oil Wick Holder
7	270880	Oil Wick
8	267215	Hook Shaft with 270880 and 276061
9	267172	Link (right)
10	200135C	Cap Screw
11	267018	Cam Shaft
12	267366	Pinion (spiral) with two 350595XC
13	350595XC	Set Screw
14	350564E	Oil Regulating Screw
15	267167	Hinge Stud (right)
16	267166	Opener Crank
17	267351	Bobbin Case Opener
18	200110D	Screw
19	267248	Pinion Thrust Bearing
20	267367	Hook Shaft Bushing
21	267194	Hook Saddle (right) with 200185D, 200347AL, 267168, 267169, 267367 and two 200335C
22	267169	Cam Shaft Bushing (upper)
23	267365	Cam Shaft Gear (spiral) with two 350595XC
24	200347AL	Bushing (upper) Set Screw
25	267168	Cam Shaft Bushing (lower) with 270880
26	200378C	Oil Regulating Screw Check Screw
27	244084	Check Screw Packing (fibre)
28	200335C	Bushing Set Screw
29	200185D	Oil Stop Screw
30	200374AL	Hinge Stud (right) Set Screw
31	200388C	Check Screw
32	267198	Oil Gauge Sleeve with 267277
33	267277	Oil Strainer
34	267212	Gasket
35	267200	Oil Reservoir (right)
36	200061ALX	Screw
37	267140	Pinch Sleeve (upper)
38	267139	Pinch Sleeve (lower)
39	200001E	Screw
40	267197	Oil Gauge
41	225585	Washer
42	200006E	Hook Saddle Screw

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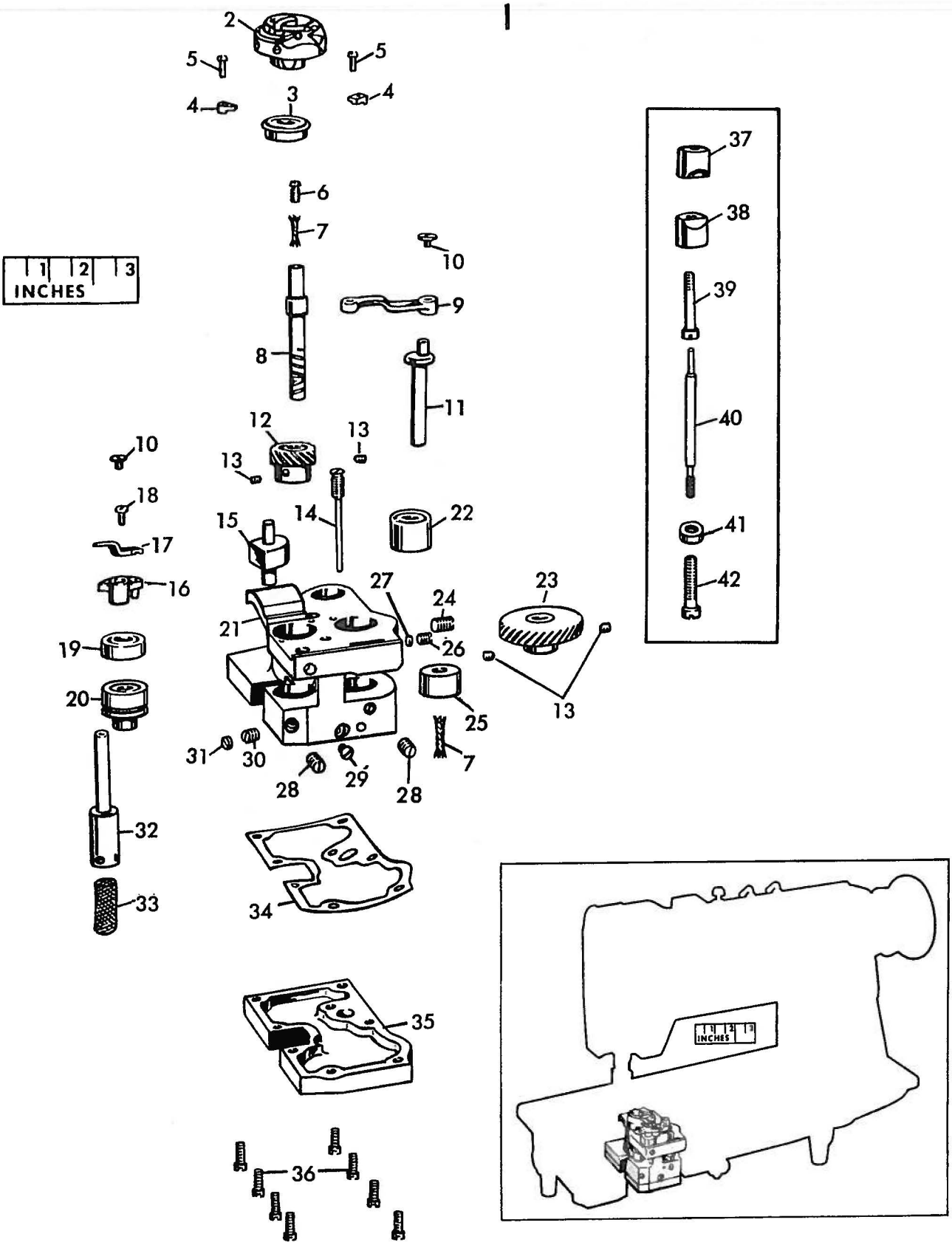
HOOK SADDLE (RIGHT) COMPLETE



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LOWER FEED ASSEMBLY WITH FEED DOG

Ref. No.	Part No.	Description
1	267318	Feed Driving Rock Shaft 248502 with 201518E, 267274 and 350393C
2	267274	Feed Bar 248406 with 200040AL, 225837 and 267273
3	248502	Rock Shaft
4	350393C	Hinge Screw (driving)
5	201518E	Nut
6	248406	Feed Bar with 200336E and 201535E
7	200040AL	Fork Screw
8	225837	Washer
9	200336E	Support Screw
10	201535E	Nut
11	267273	Eccentric Fork with 200173D and 223655
12	223655	Oiling Felt
13	200173D	Screw
14	267182	Eccentric with 201220C
15	201220C	Set Screw
16	236477	Feed Dog, for 236485
17	200106E	Screw (2)
18	248420	Bushing (left) (split)
19	200347AL	(left) Pinch Screw
20	201007C	(left) Pinch Screw Set Screw
21	244084	Packing (fibre)
22	202625	Stop Collar with two 200383C (2)
23	200383C	Set Screw
24	267181	Crank with 200029E and 200054C
25	200029E	Pinch Screw
26	200054C	Pinch Screw
27	267034	Hinge Stud
28	267032	Connection 267031 with 268063 and 270653
29	268063	Needle Bearing
30	267031	Connection
31	270653	Needle Bearing
32	248421	Bushing (right) (split)
33	200327C	(right) Pinch Screw
34	200347AL	(right) Pinch Screw Set Screw
35	202254	Oil Wick (2)
36	243744	Gasket (2)
37	350366X	Oil Stop Screw (2)

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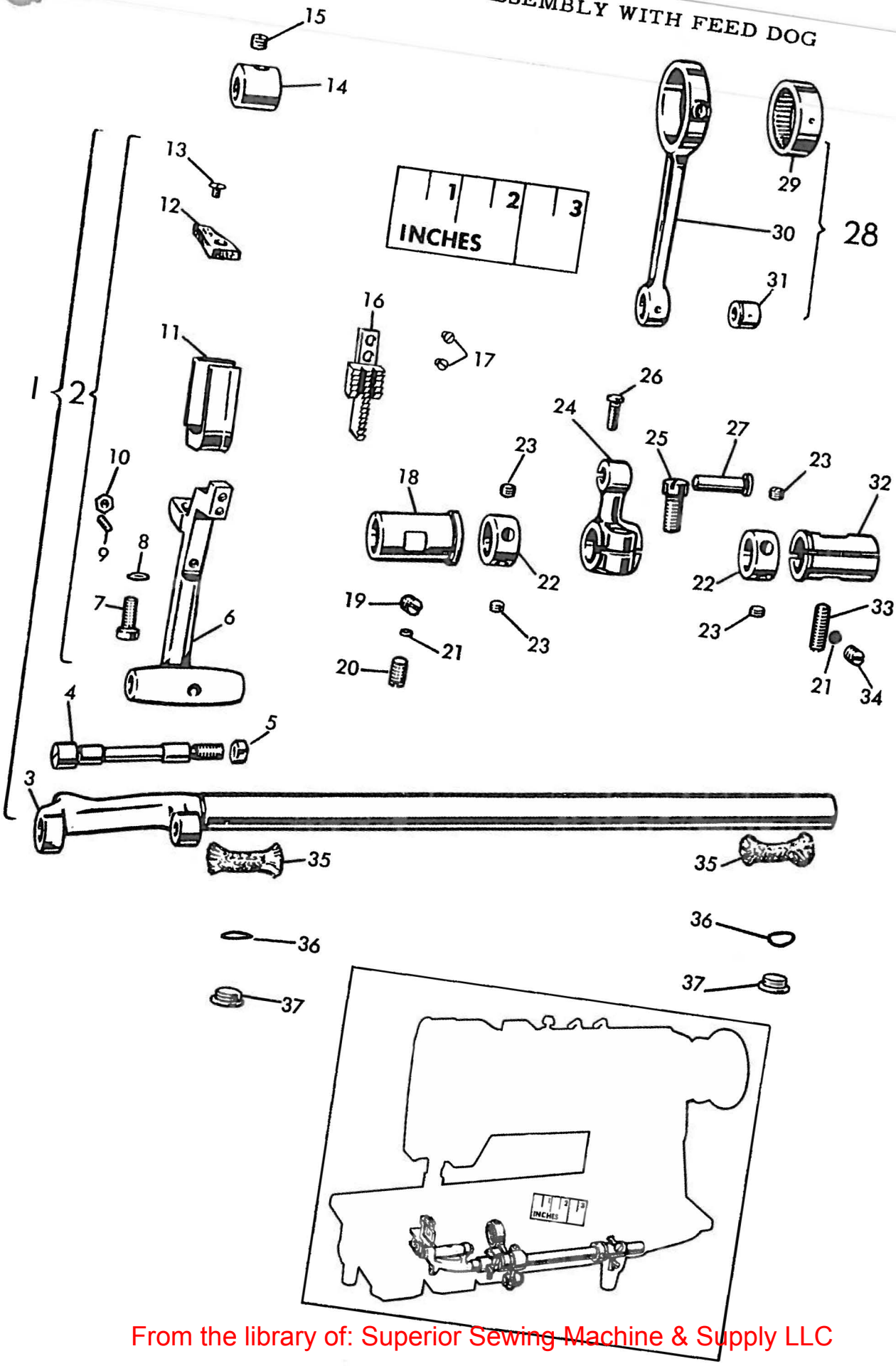
LOWER FEED ASSEMBLY WITH FEED DOG



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NEEDLE BAR AND LUBRICATING WICKS

Ref. No.	Part No.	Description
1	267317	Bushing (upper)
2	200352AL	Set Screw (2)
3	267311	Oiling Felt (upper)
4	267312	Oiling Felt (upper) Retainer
5	267309	Oiling Felt (lower)
6	267310	Oiling Felt (lower) Retainer
7	200904X	Screw
8	235871	Bushing (lower)
9	267307	Connecting Link Guide Block
10	200051E	Screw (2)
11	267267	Needle Bar
12	267269	Needle Holder, in gauges from 3/32 to 15/32 in., in steps of 1/32 in., with two 200141F
13	200141F	Needle Set Screw
14	267256	Feed Driving Rock Shaft Bushing (left) Oil Tube with 267262
15	267262	Wick
16	267259	Hook Saddle Bearing (right) Oil Tube with 267262
17	267255	Feed Driving Eccentric Connection Oil Tube with 267261
18	267261	Wick
19	267258	Hook Saddle Bearing (left) Oil Tube with 267264
20	267264	Wick
21	267290	Hook Driving Shaft Ball Bearing Oil Tube with 267262
22	267321	Bed Oil Supply Tube with 267322
23	267322	Wick
24	267257	Feed Driving Rock Shaft Bushing (right) Oil Tube with 267263
25	267263	Wick
26	267276	Clamp Oiling Felt
27	267254	Bed Oil Tube Clamp
28	267293	Feed Driving Eccentric Connection Oil Tube Support
29	200025C	Screw

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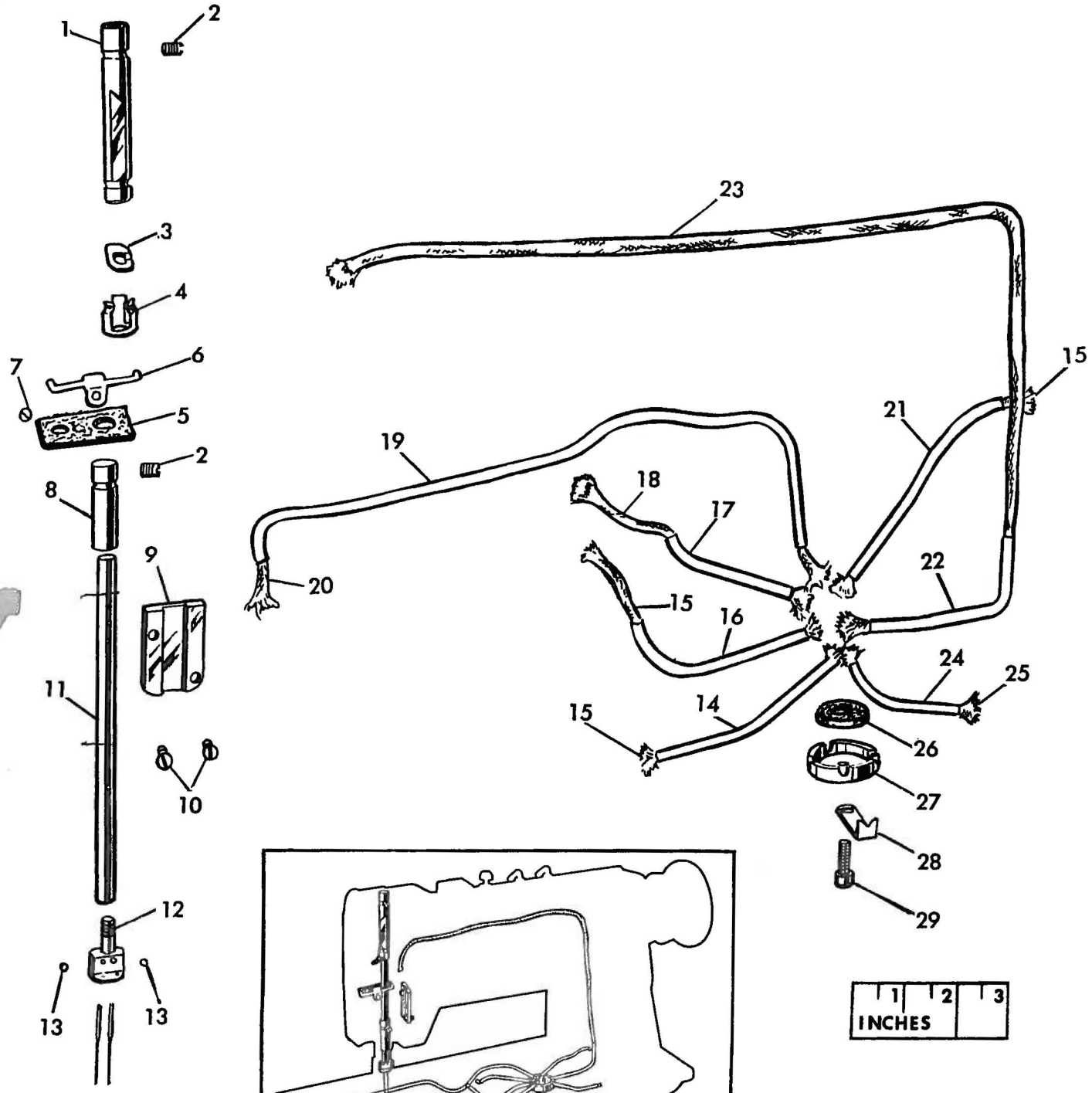
NEEDLE BAR AND LUBRICATING WICKS



From the library of: Superior Sewing Machine & Supply LLC

PRESSER BAR, PRESSER FOOT AND PRESSER FOOT LIFTING ASSEMBLY

Ref. No.	Part No.	Description
1	208566	Presser Bar with 200074F
2	200074F	Screw
3	229103	Presser Foot, 46 needle hole, in gauges 1/4, 9/32 and 5/16 inch
4	207072	Presser Bar Bushing (2)
5	200352AL	Set Screw (2)
6	200975F	Lever Bracket Guide Screw
7	267265	Lever Rod
8	267313	Spring Bracket with 200086C
9	200086C	Pinch Screw
10	202671	Presser Bar Lifter
11	200653C	Hinge Screw
12	267238	Releasing Lever Bracket
13	206608	Releasing Lever Bracket Spring
14	202401	Take-up Lever Oiling Felt
15	200132E	Oiling Felt Screw
16	235901	Position Guide with 200054E
17	200054E	Pinch Screw
18	350464X	Lever Hinge Screw
19	200738X	Spring Stop Screw
20	267289	Lifting Lever Spring
21	240068	Lifting Lever
22	240067	Connection Lever
23	200262X	Hinge Screw
24	350581C	Spring Regulating Screw
25	267319	Spring (flat)
26	200948F	Spring Support Screw
27	240564	Lifting Rod
28	227227	Lifting Rod Stop Collar with 200113F
29	200113F	Set Screw

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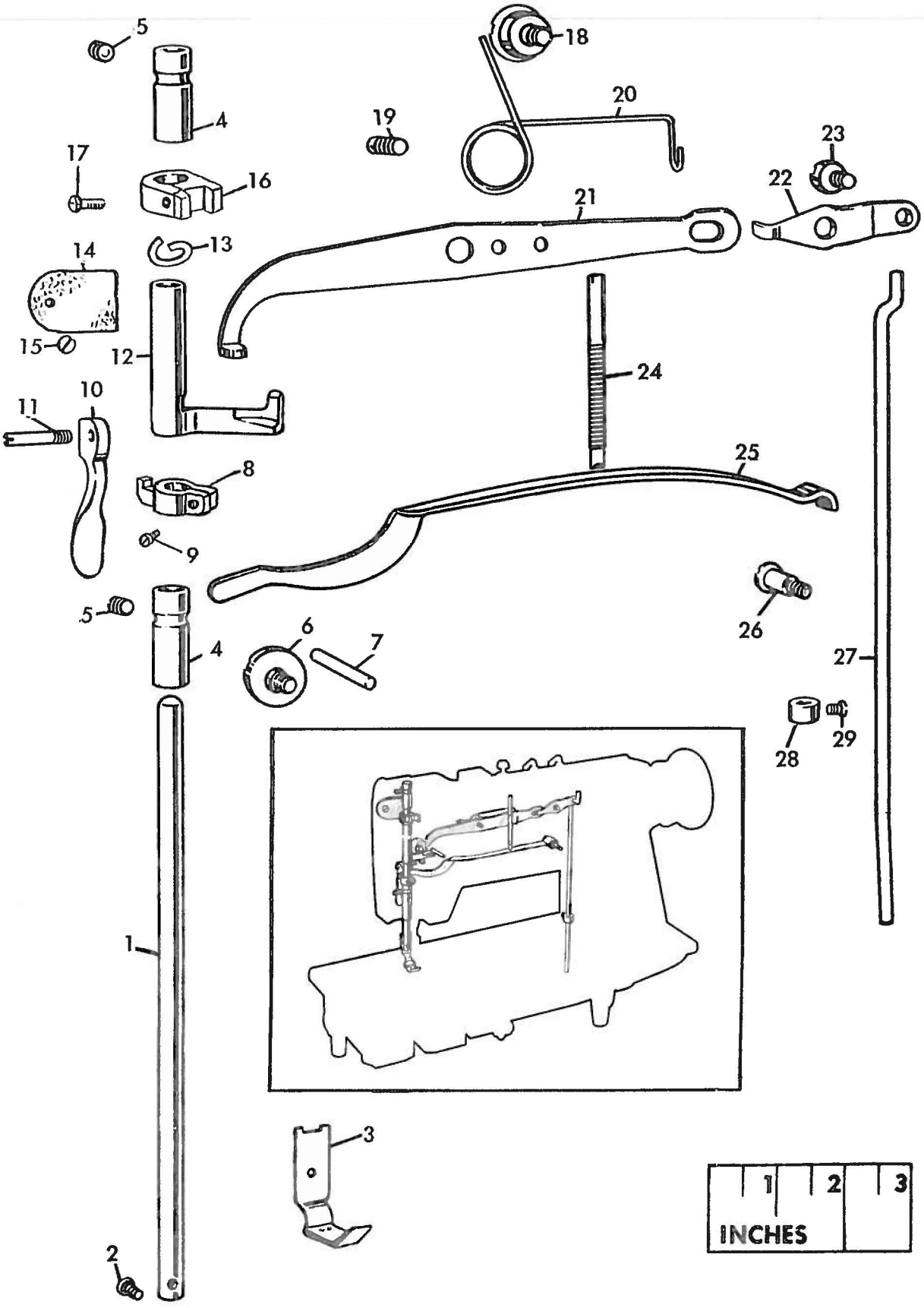
PRESSER BAR, PRESSER FOOT AND PRESSER FOOT LIFTING ASSEMBLY



From the library of: Superior Sewing Machine & Supply LLC

PRESSER FEET AND NEEDLE HOLDERS

Ref. No.	Part No.	Description
1	229092	Presser Foot, 50 needle hole, needles 3/32 in. apart, in gauges 1/32, 3/64 and 1/16 inch
2	229102	Presser Foot, 46 needle hole, in gauges from 3/32 to 7/32 in., in steps of 1/32 inch
3	229103	Presser Foot, 46 needle hole, in gauges 1/4, 9/32 and 5/16 inch
4	229104	Presser Foot, 46 needle hole, in gauges from 11/32 to 1/2 in., in steps of 1/32 inch
5	229105	Presser Foot, 46 needle hole, in gauges 17/32 and 9/16 inch
6	229106	Presser Foot, 46 needle hole, in gauges 19/32, 5/8, 21/32 and 11/16 inch
7	229107	Presser Foot, 46 needle hole, in gauges 23/32 and 3/4 inch
8	229108	Presser Foot, 46 needle hole, in gauges from 25/32 to 1 in., in steps of 1/32 inch
9	229110	Presser Foot, 46 needle hole, in gauges from 1-1/32 to 1-1/2 in., in steps of 1/32 inch
10	267320	Needle Holder, needles 3/32 in. apart and must be set diagonally, in gauges 1/32, 3/64 and 1/16 in., with two 200141F
11	267269	Needle Holder, in gauges from 3/32 to 15/32 in., in steps of 1/32 in., with two 200141F
11	267270	Needle Holder, in gauges from 1/2 to 3/4 in., in steps of 1/32 in., with two 200141F
12	267271	Needle Holder, in gauges from 25/32 to 1-1/2 in., in steps of 1/32 in., with two 200141F
13	200141F	Needle Set Screw

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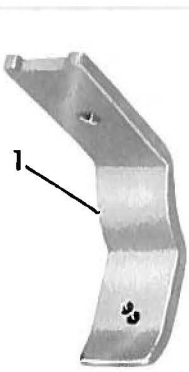
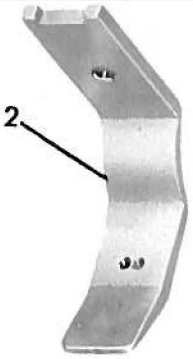
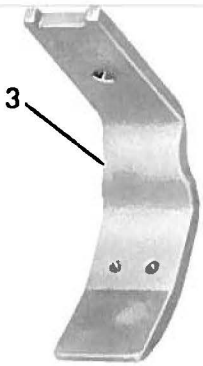
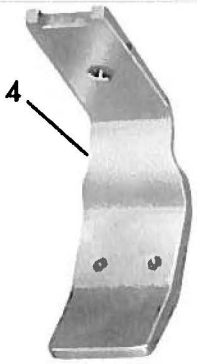
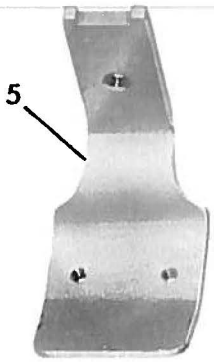
PRESSER FEET AND NEEDLE HOLDERS

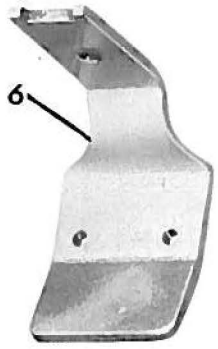


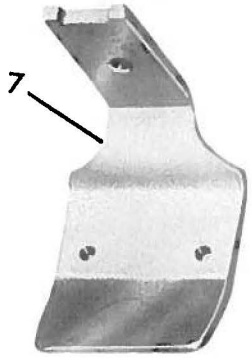


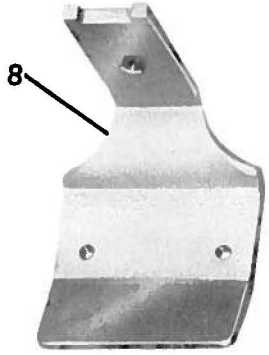


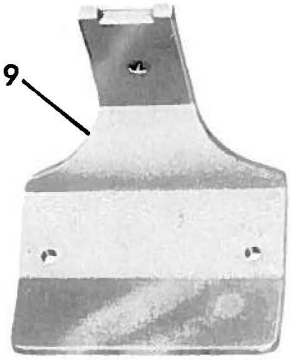


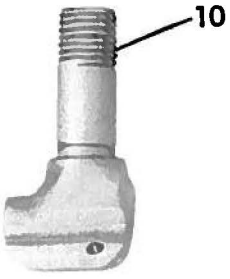


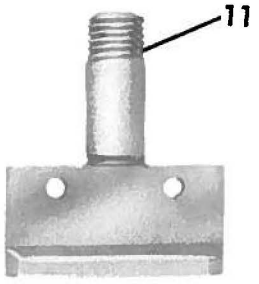


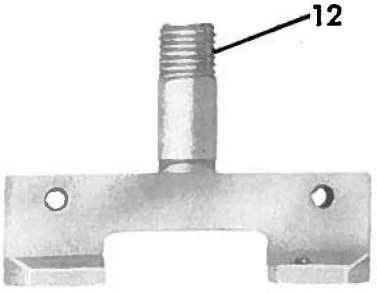


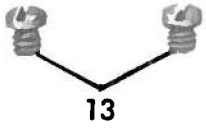


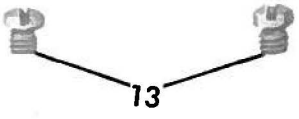












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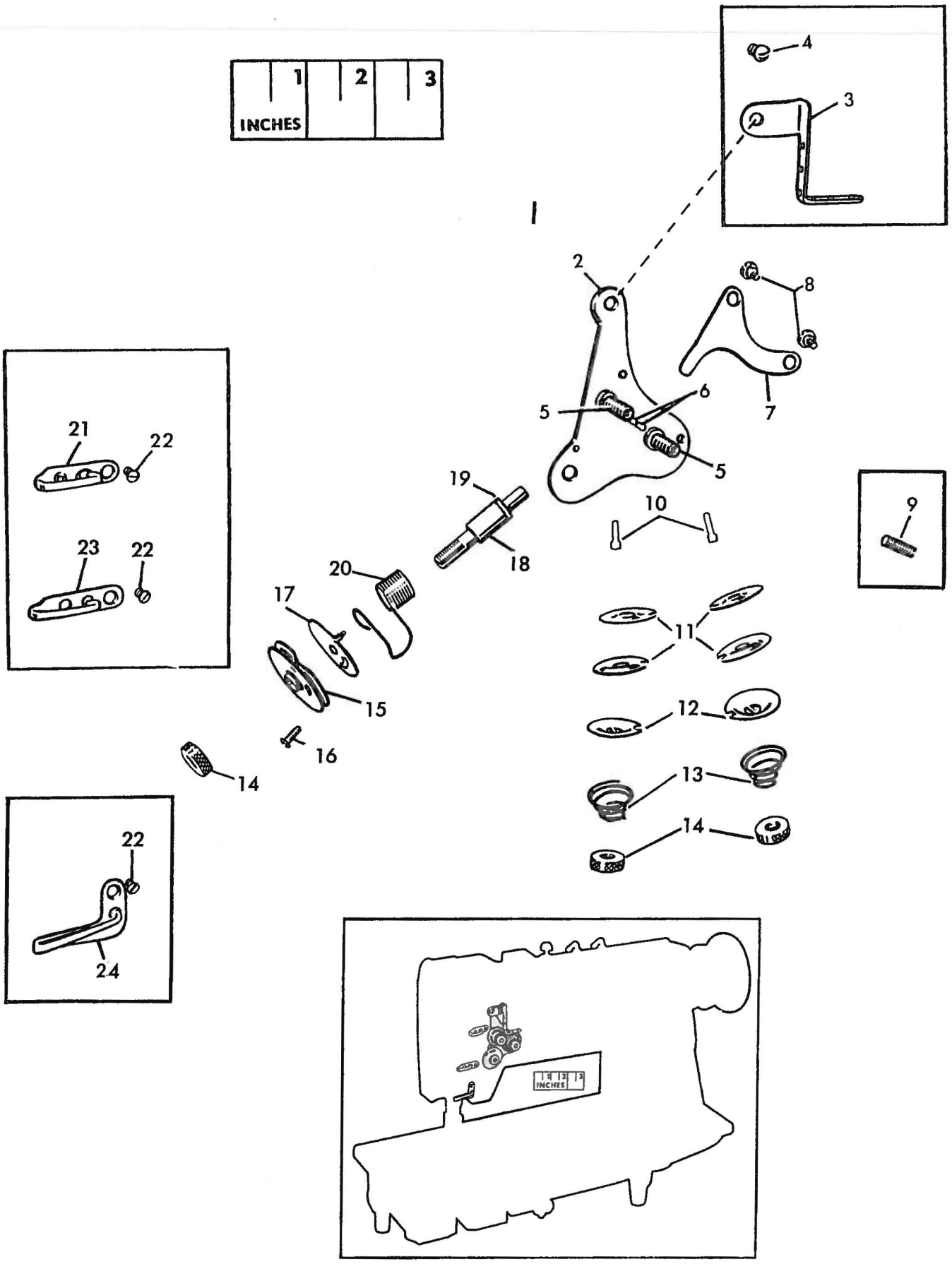
TENSION COMPLETE AND THREAD GUIDES

Ref. No.	Part No.	Description
1	267314	Tension Bracket complete, Nos. 201199F, 223702, 223703, 223706, 237174, 267315, 350588X, two each 13710, 200309E, 204271, 223704, three 201572X and four 244048
2	223702	Tension Bracket with two each 201224X and 236060
3	267288	Thread Retainer
4	200159F	Tension Bracket Screw
5	201224X	Tension Stud
6	236060	Tension Disc Position Pin
7	223703	Tension Release Lever
8	200309E	Screw
9	200337C	Thread Controller Stud Set Screw
10	223704	Tension Release Plunger
11	244048	Tension Disc
12	204271	Tension Release Washer
13	13710	Tension Spring
14	201572X	Thumb Nut
15	223706	Thread Controller Disc
16	350588X	Screw
17	267315	Thread Controller Spring Stop
18	201199F	Thread Controller Stud with 204925
19	204925	Washer
20	237174	Spring
21	267246	Thread Guide (upper)
22	200582X	Screw (3)
23	267316	Thread Guide (center)
24	270149	Thread Guide (lower)

From the library of: Superior Sewing Machine & Supply LLC

TENSION COMPLETE AND THREAD GUIDES



From the library of: Superior Sewing Machine & Supply LLC

ACCESSORIES

Ref. No.	Part No.	Description
1	228736	Drip Pan with four 3/4 in. wire nails
2	228691	Machine Base Oil Drain Jar complete, Nos. 131266, 228452, 228690 and two 131267
3	228452	Machine Base Oil Drain Jar complete, Nos. 131217, 131266, 131961, 131962 and two 1247C
4	131266	Nipple (short)
5	131962	Cap
6	1247C	Clamp Screw
7	131217	Clamp 131188 with 131189
8	131188	Clamp
9	131189	Clamp Lever
10	131961	Jar (glass)
11	131267	Nipple Elbow
12	228690	Nipple (six in. long)
13	202258	Bed Hinge Connection (2)
14	200570E	Screw (4)
15	224413	Knee Lifter Connection Lever Lifting Rod Roller Bracket complete, Nos. 200270X, 224411 and 224412
16	200113F	Set Screw
17	224412	Rod Roller Bracket with 200113F
18	224411	Rod Roller
19	200270X	Hinge Screw
20	120342	Oiler (copper plated) with 120343
21	120343	Spout
22	225498	Screw Driver
23	228476	Screw Driver (Bobbin Case)
24	41400	Machine Rest Pin (wood)
25	225554	Wrench
26	200157X	Attachment Screw
27	203470	Bobbin (4)
28	267242	Wrench (3/32 in. Hex)
	135x7	Needles, twelve, size 14
	3123w	Instruction Book

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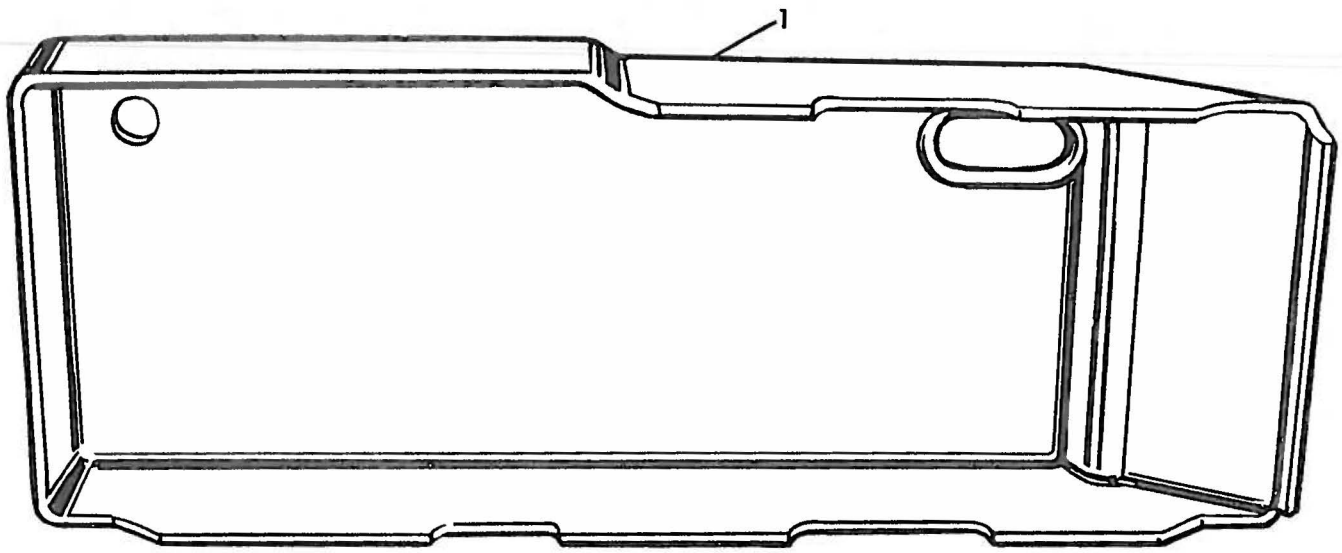
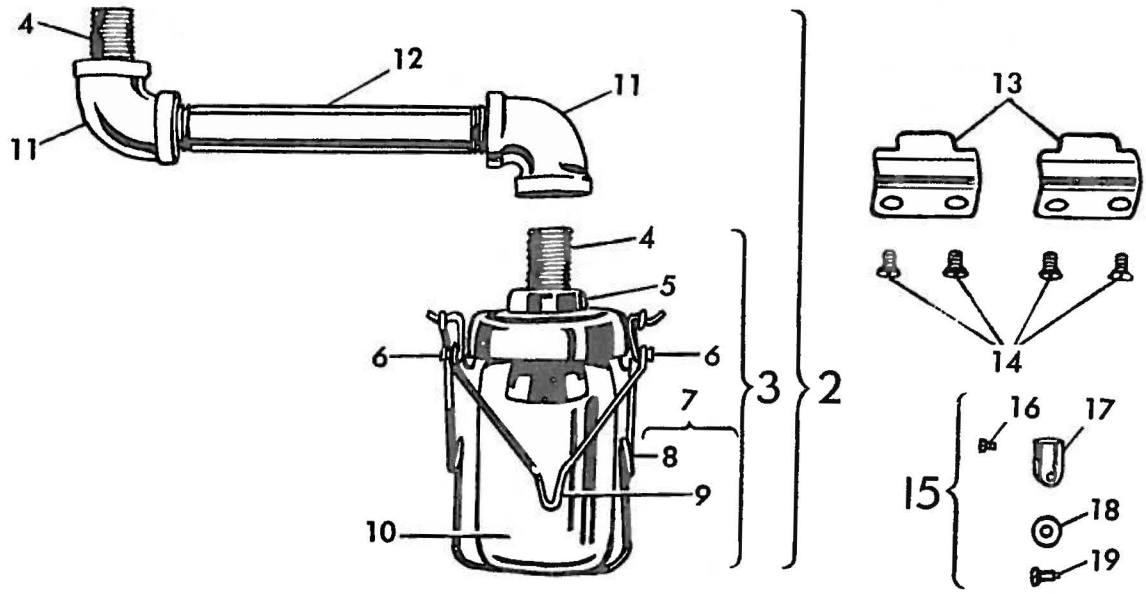
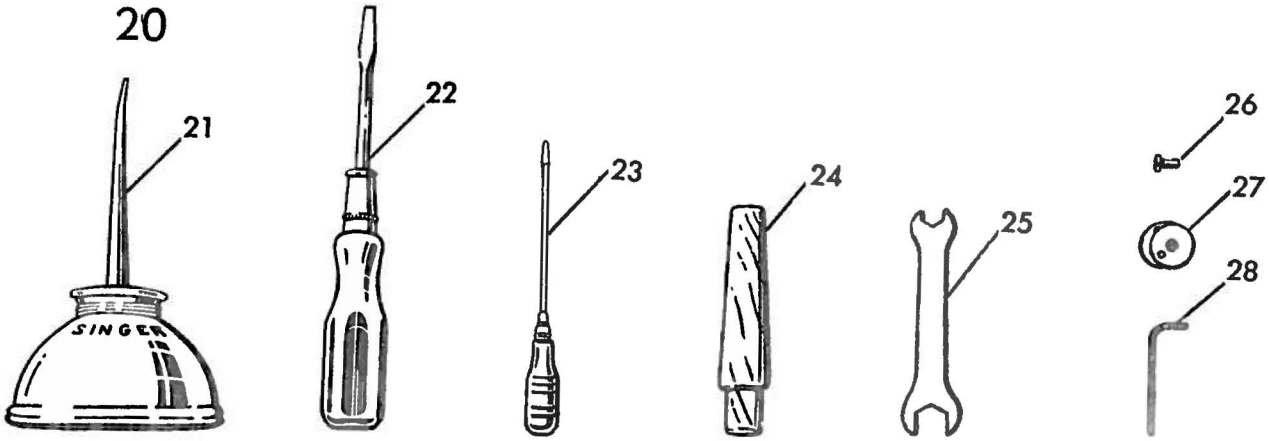
ACCESSORIES







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ACCESSORIES

BOBBIN WINDER (SWINGING AUTOMATIC, RIGHT HAND) FOR "V" BELT DRIVE

Ref. No.	Part No.	Description
1	259462	Universal Bobbin Winder complete, Nos. 200056E, 200082D, 200113F, 200299X, 202478, 225381, 225444, 225453 to 225456, 225458, 225462, 228026, 259428, 259429, 259461, 259662, two each 225459 and wood screws 3/4 in., No. 12, R.H.B.
2	225462	Bobbin Winder Tension Bracket complete, Nos. 13710, 201572X, 225461 and two 2102
3	201572X	Tension Stud Thumb Nut
4	13710	Tension Spring
5	2102	Tension Disc
6	225461	Tension Bracket with 201499X
7	201499X	Tension Stud
8	200082D	Tension Bracket Screw
9	228026	Washer
10	259662	Bobbin Winder and Tension Bracket Base
11	225456	Frame Spring Plunger
12	225455	Frame Spring
13	259461	Pulley with 200380C
14	200380C	Set Screw
15	200113F	Brake Clamp Screw
16	259429	Brake Clamp
17	259428	Brake (leather)
18	200299X	Trip Lever Hinge Screw
19	202478	Stop Latch Trip Lever
20	225458	Stop Latch Thumb Lever
21	225459	Stud
22	225444	Stop Latch
23	200056E	Screw
24	225381	Spindle
25	259660	Oil Well Washer
26	225454	Frame Hinge Pin
27	202277	Oil Packing (wick)
28	225453	Frame with 202277 and 259660

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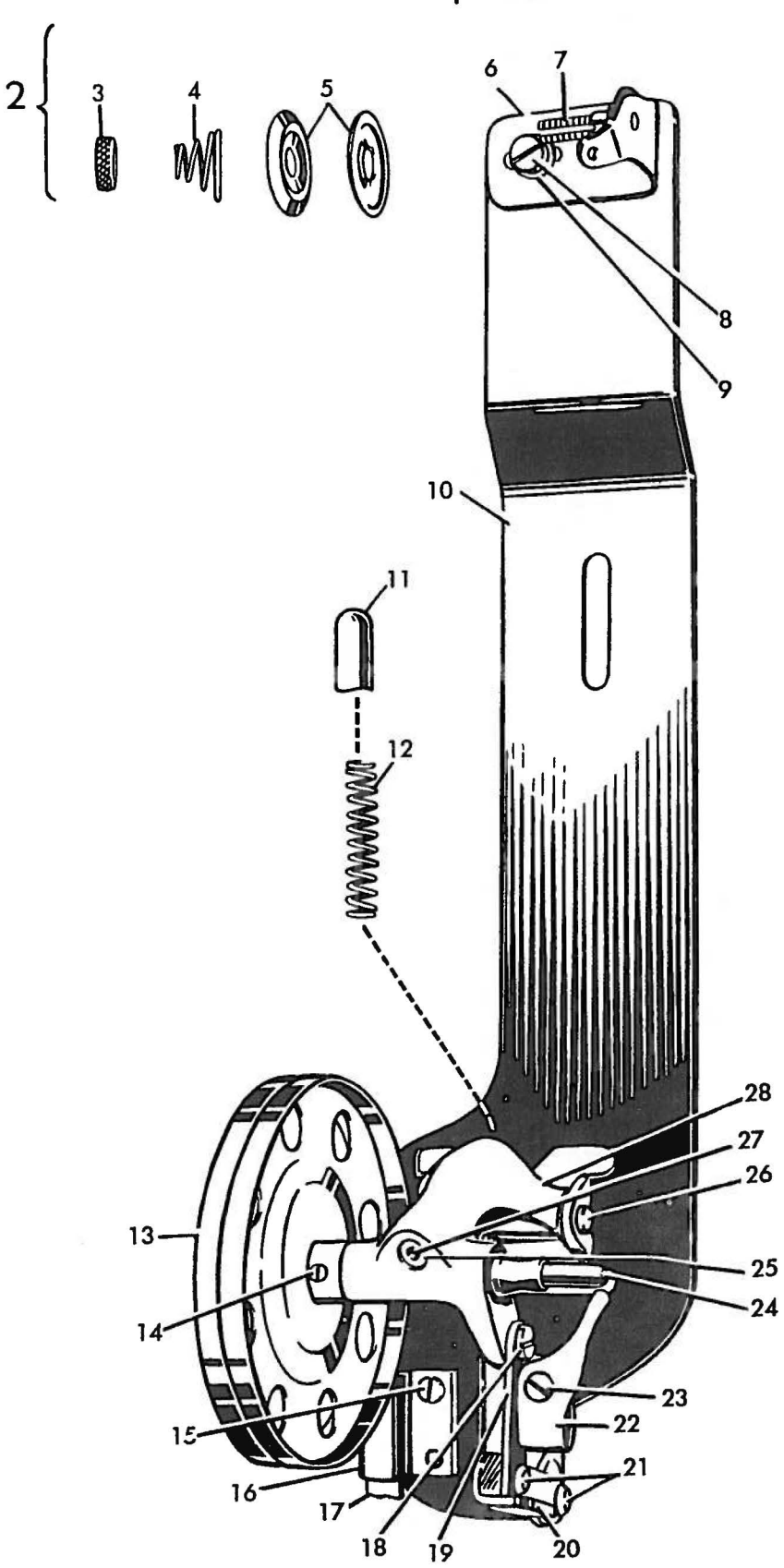
ACCESSORIES

BOBBIN WINDER (SWINGING AUTOMATIC, RIGHT HAND) FOR "V" BELT DRIVE



From the library of: Superior Sewing Machine & Supply LLC

ACCESSORIES

KNEE LIFTER

Ref. No.	Part No.	Description
1	228754	Knee Lifter Rock Lever complete, Nos. 228318, 228364, 228365, 228370 and 228751
2	228751	Bracket 228707 with 228363, 228367, 228386, 228455 and 228752
3	228707	Bracket with 200347AL and three wood screws 7/8 in., No. 12
4	228363	Hinge Pin
5	200347AL	Stop Stud Set Screw
6	228455	Position Spring
7	228367	Stop Stud
8	228386	Spring
9	228752	Rock Lever with two 350231C
10	228365	Rod
11	200530C	Set Screw
12	228370	Extension with 200530C
13	350231C	Set Screw
14	228318	Knee Plate Arm
15	228364	Knee Plate with 350231C

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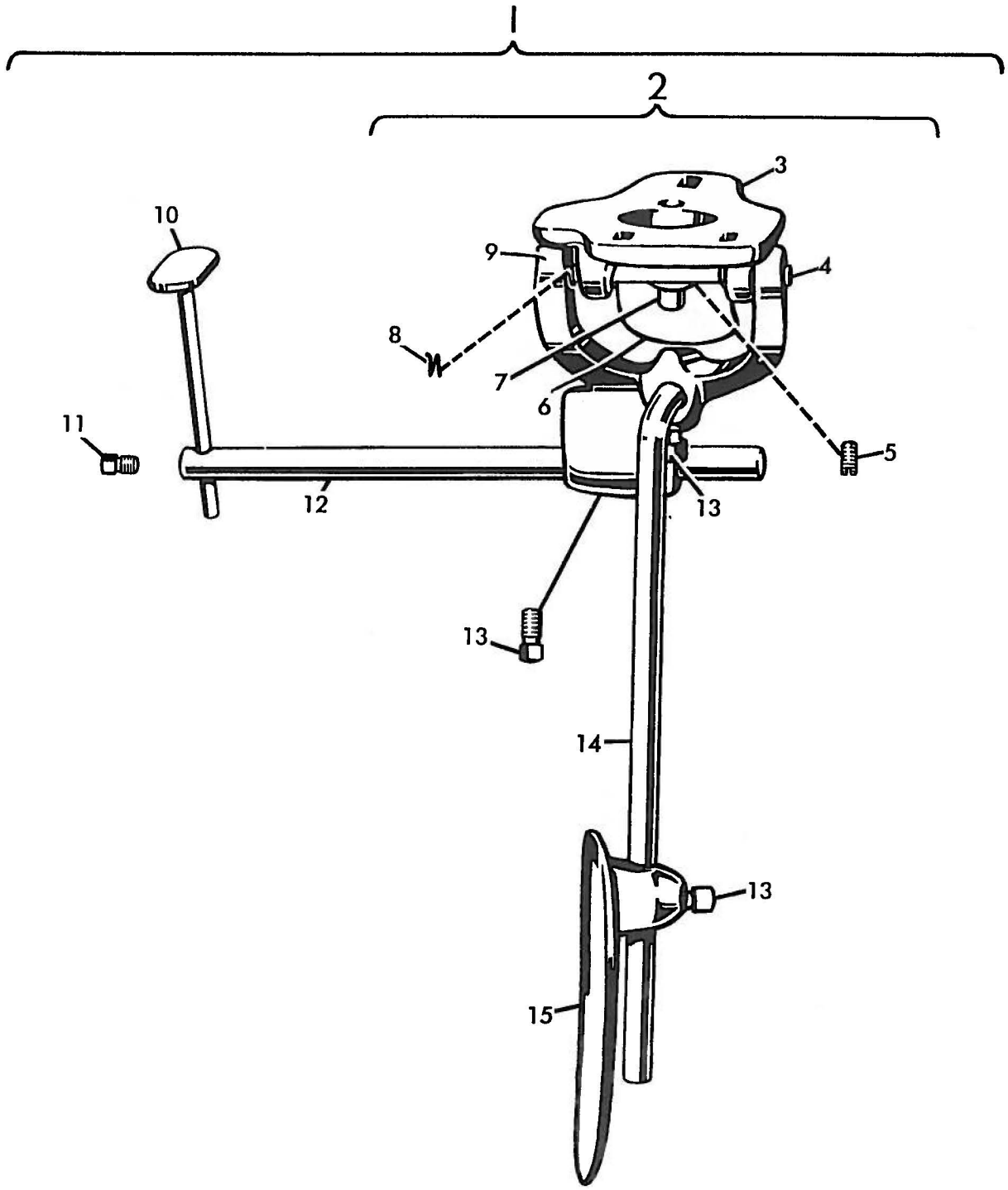
ACCESSORIES

KNEE LIFTER



From the library of: Superior Sewing Machine & Supply LLC

ACCESSORIES

THREAD UNWINDER

(FOR THREE SPOOLS)

Ref. No.	Part No.	Description
1	228777	Thread Unwinder (for three spools) complete, Nos. 228765 to 228768, 228771, 228774, three 150203, 228764, 228769 and wood screws 7/8 in., No. 12
2	228769	Thread Guide
3	228771	Holder (for three guides)
4	228774	Thread Guide Rod
5	228767	Spool Rest Rod
6	228764	Spool Pin
7	150203	Spool Rest Cushion (felt)
8	228766	Spool Rest (for two spools) (flat) with 201254C
9	201254C	Set Screw
10	228765	Spool Rest (for one spool) (flat) with 201254C
11	228768	Spool Stand

MISCELLANEOUS PARTS

USED IN CONJUNCTION WITH THREAD UNWINDER

12	225390	Thread Cone Holder
13	60913	Spool Weight with 60914
14	60914	Center Pin
15	27739	Thread Cone (wood)

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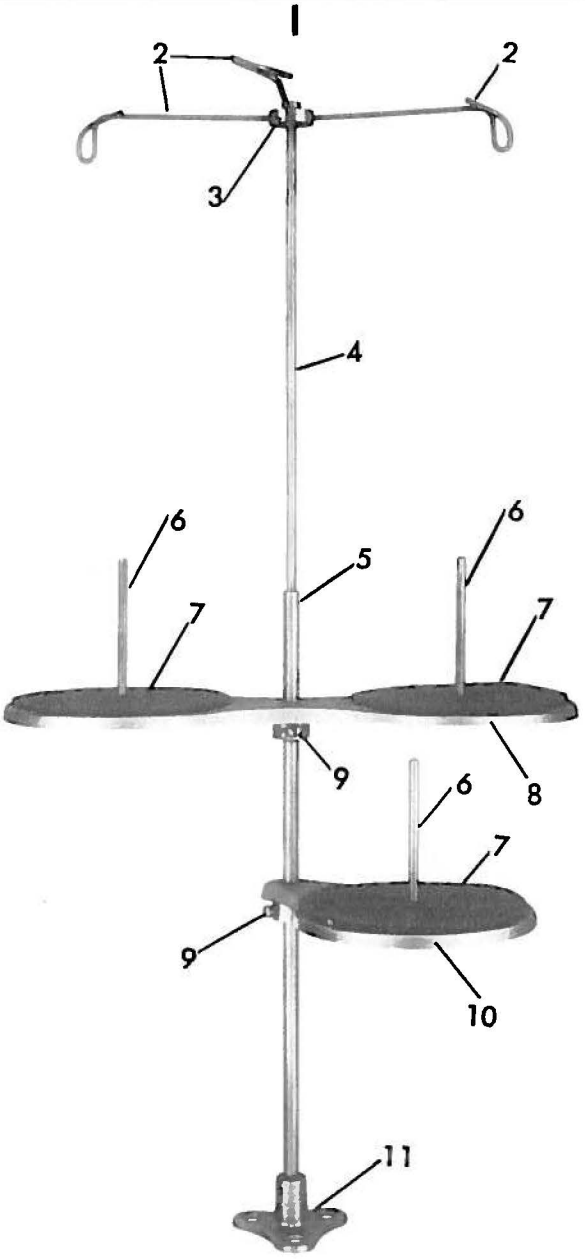
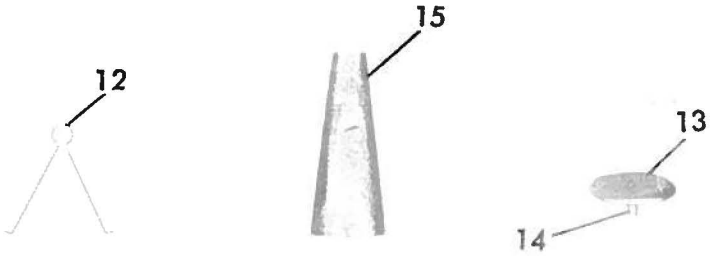
ACCESSORIES

THREAD UNWINDER
(FOR THREE SPOOLS)



MISCELLANEOUS PARTS

USED IN CONJUNCTION WITH THREAD UNWINDER



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FITTINGS

FEED DOGS AND THROAT PLATES

Ref. No.	Part No.	Description
		Nos. 236436 to 236438, for 211684 and 211685
1	236436	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 23/32 to 7/8 in., in steps of 1/32 inch
1	236437	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 3/4 and 7/8 in. gauge
1	236438	Throat Plate, 40 needle hole, for needle size 20, in 3/4 and 7/8 in. gauge
2	200161D	Clamp Screw
3	203376	Position Pin
4	691F	Screw
5	211684	Feed Dog, for 236436 to 236438
6	200106E	Screw (2)
7	211685	Feed Dog, for 236436 to 236438
8	236441	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 13/16 to 1-1/8 in., in steps of 1/32 in., for 236439 and 236440
8	236442	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 7/8 and 1 in. gauge, for 236439 and 236440
9	236439	Feed Dog, for 236441 and 236442
10	236440	Feed Dog, for 236441 and 236442
11	236444	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 1 to 1-3/16 in., in steps of 1/32 in., for 211693
12	211693	Feed Dog, for 236444
13	236450	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 1-1/4, 1-9/32 and 1-5/16 in., for 211698
13	236451	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 1-1/4 in. gauge, for 211698
14	211698	Feed Dog, for 236450 and 236451
15	236454	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 1-3/8 to 1-1/2 in., in steps of 1/32 in., for 236452 and 236453
15	236455	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 1-1/2 in. gauge, for 236452 and 236453
16	236452	Feed Dog, for 236454 and 236455
17	236453	Feed Dog, for 236454 and 236455
18	236462	Throat Plate, 40 needle hole, for needle size 20, in 1/4, 5/16 and 1/2 in. gauge, for 211739 and 236466
19	236472	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 1/4 to 1/2 in., in steps of 1/32 in., for 211739 and 236466
20	211739	Feed Dog, for 236462 and 236472
21	236466	Feed Dog, for 236462 and 236472

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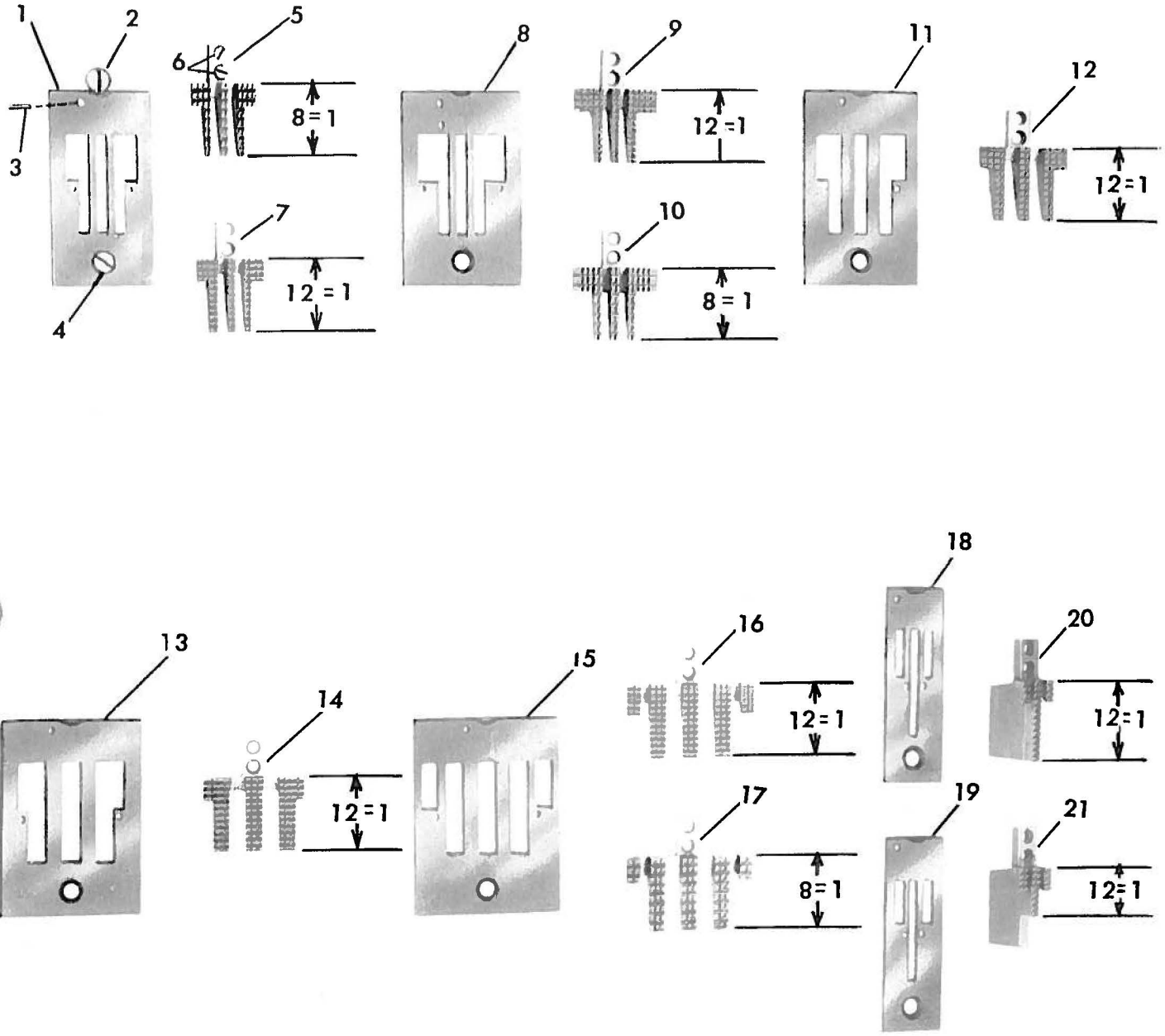
FITTINGS

FEED DOGS AND THROAT PLATES



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FITTINGS

FEED DOGS AND THROAT PLATES

Ref. No.	Part No.	Description
1	236457	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges from 3/16 to 3/8 in., in steps of 1/32 in., for 236456 and 236471
2	200161D	Clamp Screw
3	203376	Position Pin
4	691F	Screw
5	236456	Feed Dog, for 236457
6	200106E	Screw (2)
7	236471	Feed Dog, for 236457
8	236459	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in 1/4 and 5/16 in. gauge, for 236458
9	236458	Feed Dog, for 236459
10	236467	Throat Plate, 53 needle hole, for needle sizes 12 and 13, in gauges 1/8, 5/32 and 3/16 in., for 236464
10	236463	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 5/32 and 3/16 in., for 236464
11	236464	Feed Dog, for 236463 and 236467

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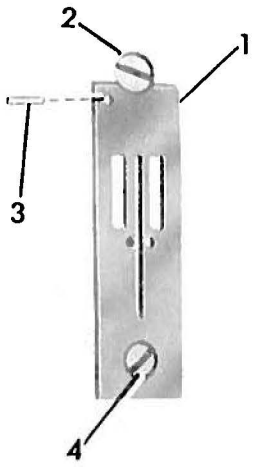
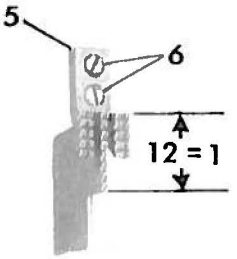
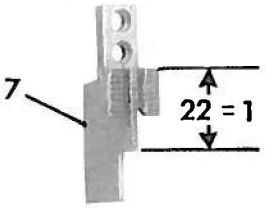
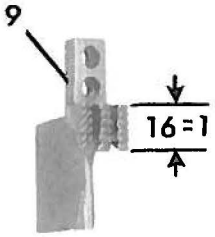
FITTINGS

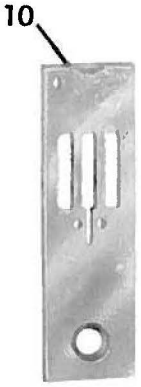
FEED DOGS AND THROAT PLATES

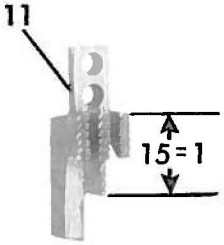












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FITTINGS

FEED DOGS AND THROAT PLATES

Ref. No.	Part No.	Description
1	236402	Throat Plate, 50 needle hole, needles 3/32 in. apart, for needle sizes 14 and 15, in gauges 1/32, 3/64 and 1/16 in., for 236401
2	200161D	Clamp Screw
3	203376	Position Pin
4	691F	Screw
5	236401	Feed Dog, for 236402
6	200106E	Screw (2)
		Nos. 236404 to 236406, for 236403
7	236404	Throat Plate, 53 needle hole, for needle sizes 12 and 13, in gauges 3/32, 1/8 and 5/32 inch
7	236405	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 3/32, 1/8 and 5/32 inch
7	236406	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges 3/32 and 1/8 inch
8	236403	Feed Dog, for 236404 to 236406
9	236485	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 3/16 to 11/32 in., in steps of 1/32 in., for 236477
10	236477	Feed Dog, for 236485
		Nos. 236427 to 236429, for 211669
11	236427	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 3/8, 13/32, 7/16, 15/32 and 1/2 inch
11	236428	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges 3/8, 13/32, 7/16, 15/32 and 1/2 inch
11	236429	Throat Plate, 40 needle hole, for needle size 20, in gauges 13/32, 7/16, 15/32 and 1/2 inch
12	211669	Feed Dog, for 236427 to 236429
		Nos. 236430 to 236432, for 211674
13	236430	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 1/2, 17/32, 9/16, 19/32 and 5/8 inch
13	236431	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 1/2 and 5/8 in. gauge
13	236432	Throat Plate, 40 needle hole, for needle size 20, in 5/8 in. gauge
14	211674	Feed Dog, for 236430 to 236432
		Nos. 236433 to 236435, for 211679
15	236433	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 9/16 to 23/32 in., in steps of 1/32 inch
15	236434	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 5/8 in. gauge
15	236435	Throat Plate, 40 needle hole, for needle size 20, in 5/8 in. gauge
16	211679	Feed Dog, for 236433 to 236435

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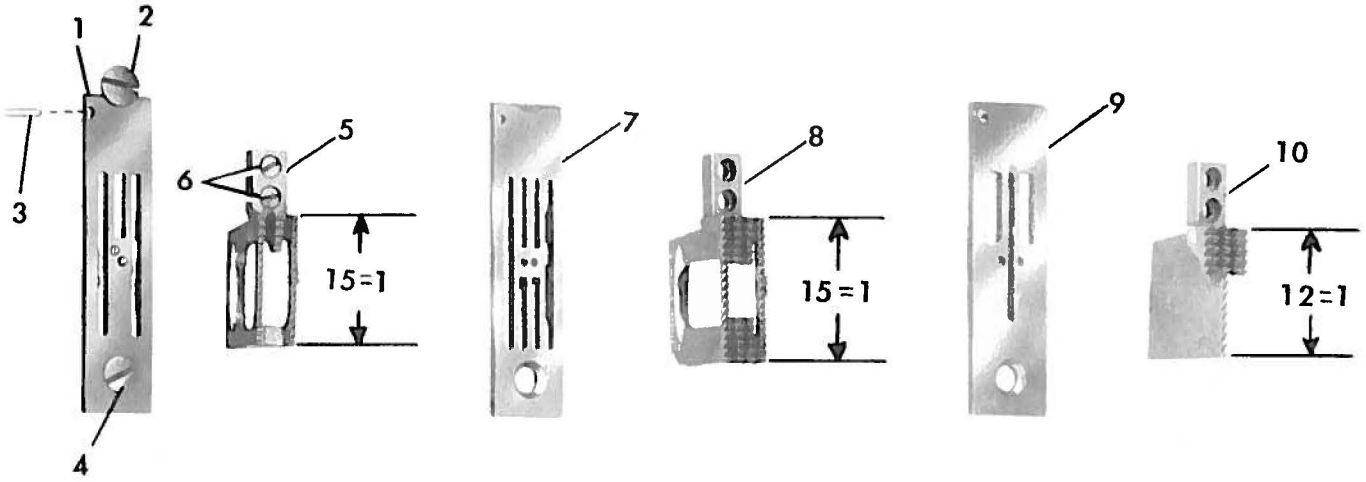
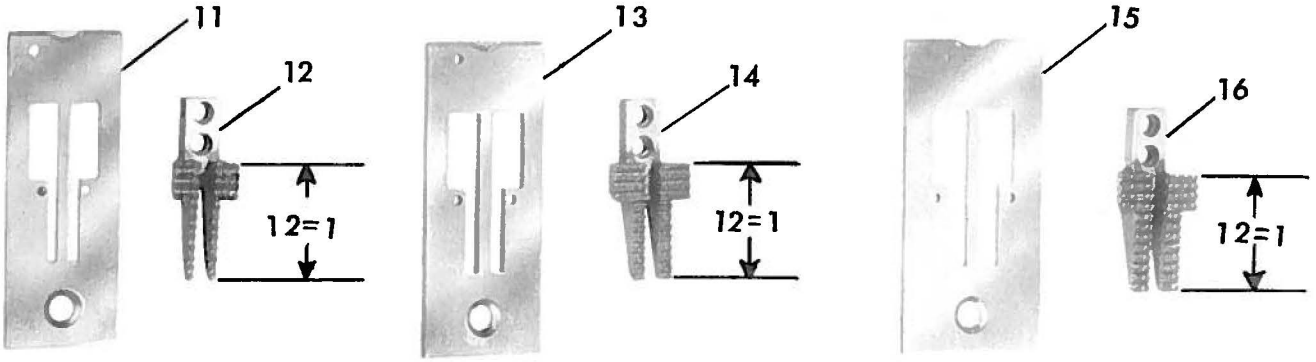
FITTINGS

FEED DOGS AND THROAT PLATES





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FITTINGS

FEED DOGS AND THROAT PLATES

Ref. No.	Part No.	Description
		Nos. 236408 to 236410, for 212571
1	236408	Throat Plate, 53 needle hole, for needle sizes 12 and 13, in gauges 3/16 and 7/32 inch
1	236409	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 3/16 and 7/32 inch
1	236410	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges 5/32 and 3/16 inch
2	203376	Position Pin
3	691F	Screw
4	200161D	Clamp Screw
5	212571	Feed Dog, for 236408 to 236410
6	200106E	Screw (2)
		Nos. 236412 to 236414, for 236411
7	236412	Throat Plate, 53 needle hole, for needle sizes 12 and 13, in gauges 1/4 and 9/32 inch
7	236413	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges 1/4 and 9/32 inch
7	236414	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in gauges 7/32 and 1/4 inch
8	236411	Feed Dog, for 236412 to 236414
9	236417	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in gauges from 7/32 to 7/16 in., in steps of 1/32 in., for 236415, 236416 and 236470
9	236465	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 1/4 and 3/8 in. gauge, for 236415, 236416 and 236470
9	236418	Throat Plate, 40 needle hole, for needle size 20, in 1/4 and 3/8 in. gauge, for 236415, 236416 and 236470
10	236415	Feed Dog, for 236417, 236418 and 236465
11	236416	Feed Dog, for 236417, 236418 and 236465
12	236470	Feed Dog, for 236417, 236418 and 236465
13	236421	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in 5/16 in. gauge, for 236419
13	236422	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 5/16 in. gauge, for 236419
14	236419	Feed Dog, for 236421 and 236422
		Nos. 236424 to 236426, for 236423
15	236424	Throat Plate, 53 needle hole, for needle sizes 12 and 13, in 11/32 and 3/8 in. gauge
15	236425	Throat Plate, 50 needle hole, for needle sizes 14 and 15, in 11/32 and 3/8 in. gauge
15	236426	Throat Plate, 46 needle hole, for needle sizes 16 and 18, in 3/8 in. gauge
16	236423	Feed Dog, for 236424 to 236426

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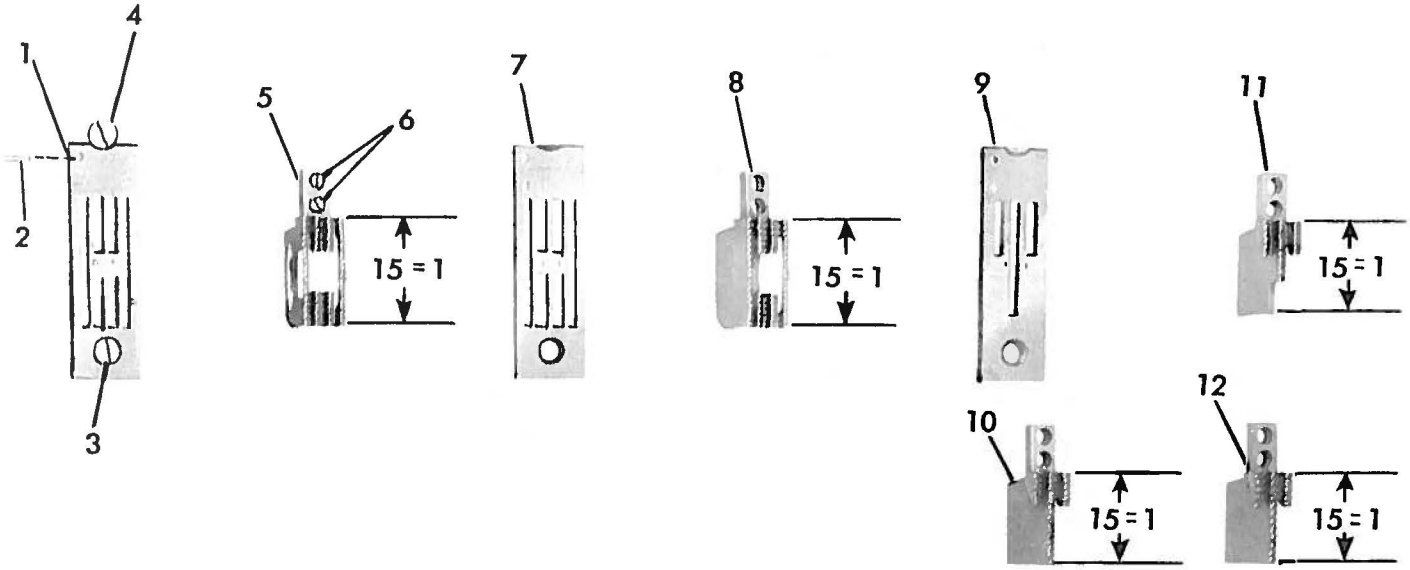
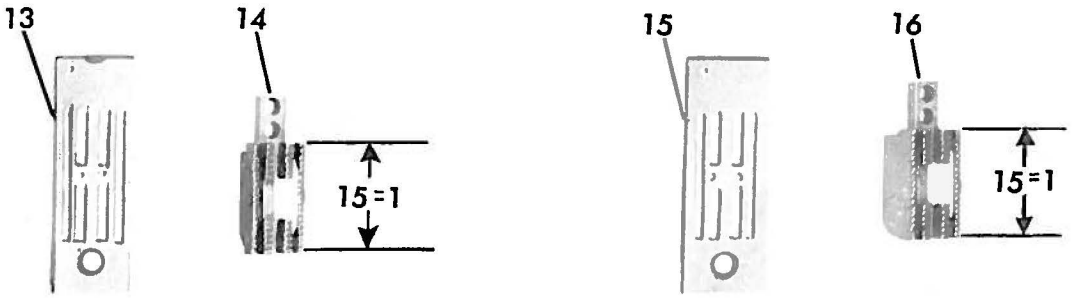
FITTINGS

FEED DOGS AND THROAT PLATES





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FITTINGS

FOOT LIFTER AND MACHINE PULLEYS

MACHINE PULLEYS

Ref. No.	Part No.	Description
1	267175	Machine Pulley 267174 with 272142
2	267174	Machine Pulley for "V" belt (outside diam. of belt groove 2.9 in.) (rim diam. 4 in.) with 350540C and 350541C
3	350541C	Set Screw
4	350540C	Position Screw
5	272142	Arm Shaft Ball Bearing (back)
6	267306	Machine Pulley 267305 with 272142
7	267305	Machine Pulley (aluminum alloy casting) for "V" belt (outside diam. of belt groove 2.9 in.) (rim diam. 4 in.) (inside belt groove) with 350540C and 350541C

FOOT LIFTER

8	227955	Foot Lifter Lever complete, Nos. 225016, 227678, 227939 and 227952
9	227678	Chain, 48 in. long, with 202784
10	202784	Chain Hook (upper)
11	227952	Lever with 227954
12	227954	Chain Hook (lower)
13	227939	Stand with two wood screws 1 in., No. 12
14	225016	Hinge Pin

PARTS REQUIRED FOR CHANGING FROM KNEE LIFTER TO FOOT LIFTER

15	223733	Lever Extension
16	200082D	Screw (2)
17	227561	Spring
18	200835D	Spring Stop Screw

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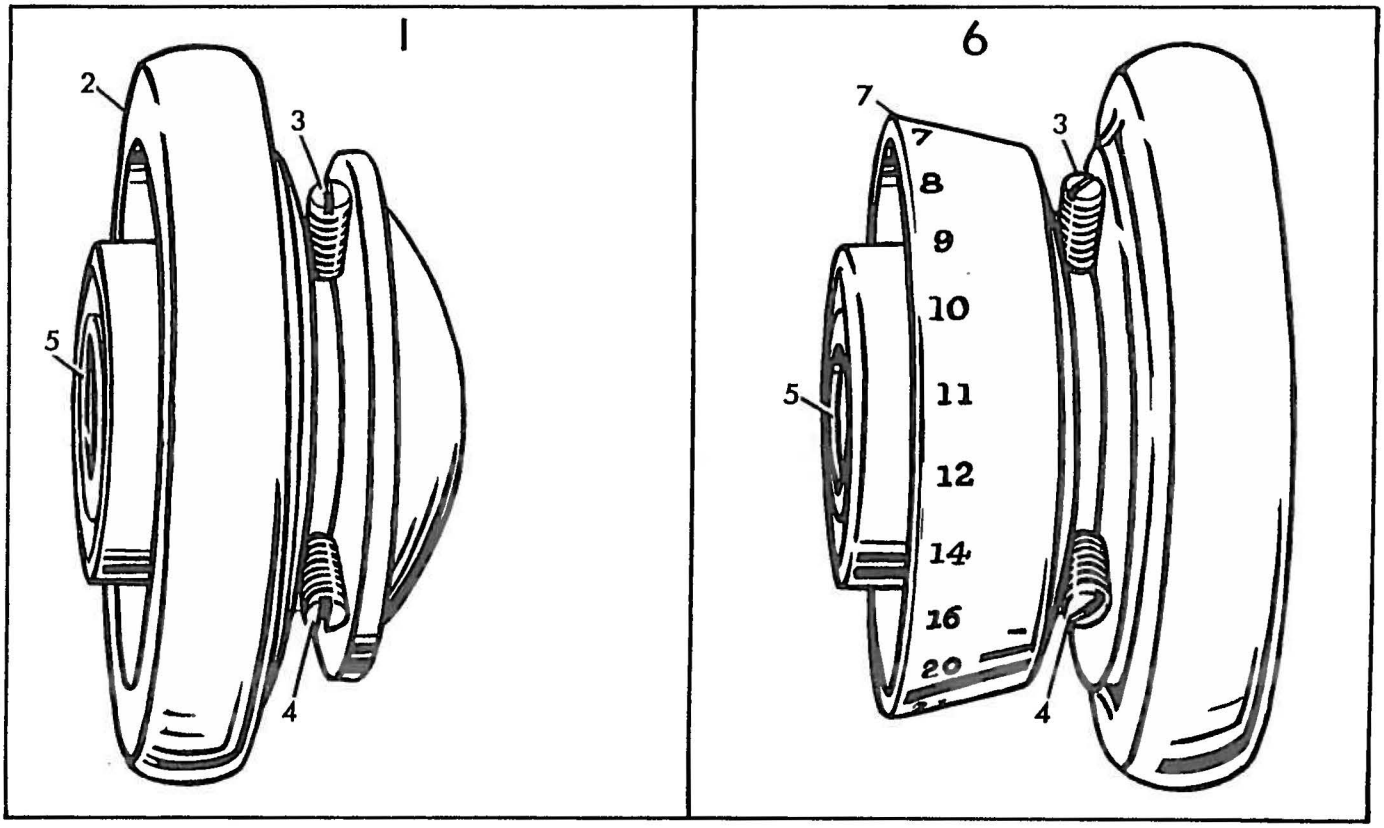
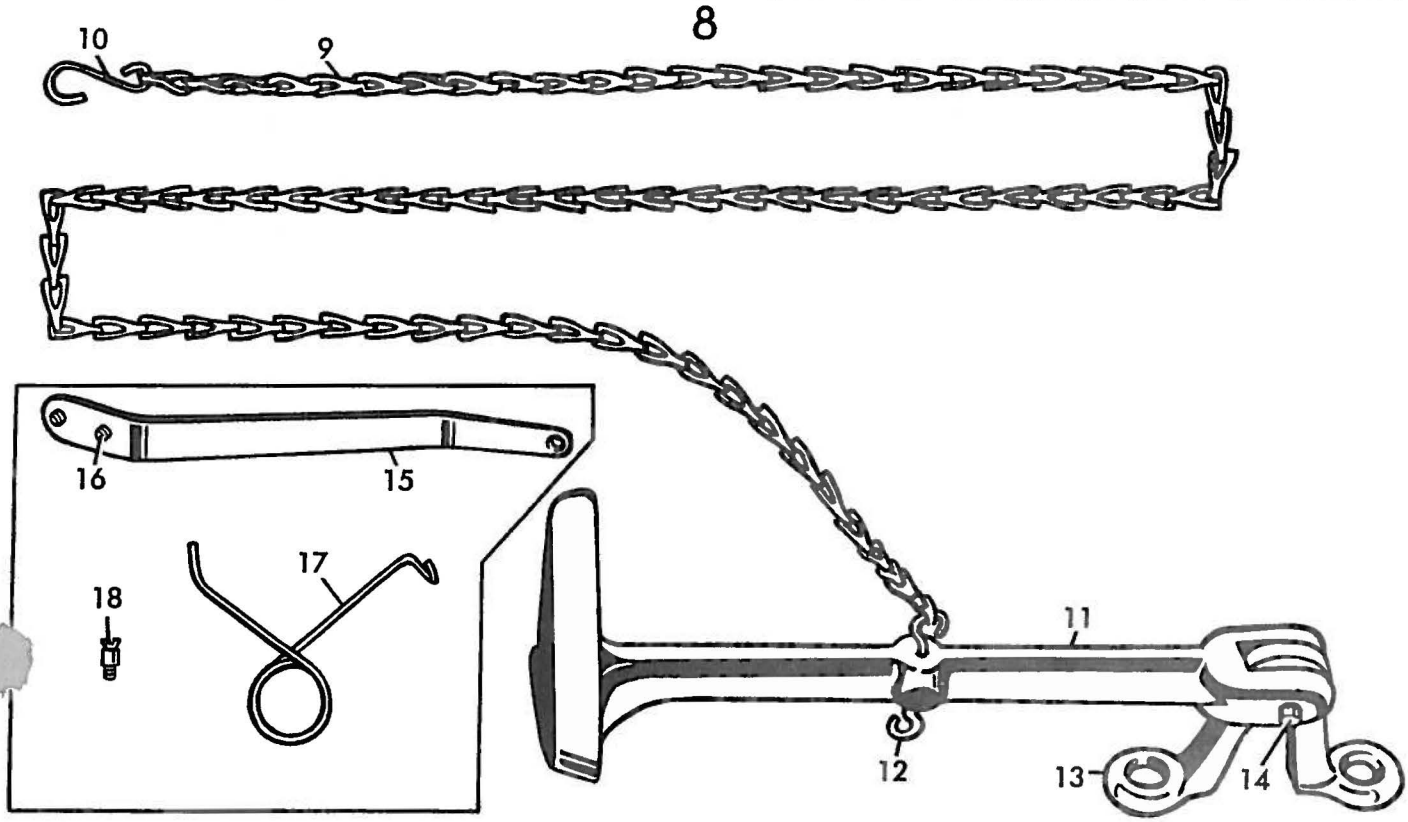
FITTINGS

FOOT LIFTER AND MACHINE PULLEYS





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FITTINGS
PRESSER FEET

Ref. No.	Part No.	Description
1	229264	Presser Foot (hinged) complete, 46 needle hole, in gauges 13/32, 7/16, 15/32 and 1/2 in., Nos. 202090, 202923 and 229263
2	202923	Shank
3	229263	Plate
4	202090	Hinge Pin
5	229278	Presser Foot (hinged) complete, 46 needle hole, in gauges 1/8, 5/32, 3/16 and 7/32 in., Nos. 202090, 229276 and 229277
6	229276	Plate
7	229277	Shank
8	229280	Presser Foot (hinged) complete, 46 needle hole, in gauges 1/4, 9/32 and 5/16 in., Nos. 202090, 229277 and 229279
9	229279	Plate
10	230697	Presser Foot (hinged) complete, 46 needle hole, in 1/4 in. gauge, Nos. 202090, 202923 and 229720, for strip work
11	229720	Plate
12	230831	Presser Foot (hinged) complete, 46 needle hole, in 3/4 in. gauge, Nos. 202923, 230795 and 230830, for felling
13	230830	Plate
14	230795	Hinge Pin
15	229935	Presser Foot (hinged) complete, 46 needle hole, in gauges 7/32, 1/4, 9/32 and 5/16 in., Nos. 202926, 229184 and 230795. Hinge pin set back 1/16 in. from regular, for felling
16	229184	Plate
17	202926	Shank
18	223904	Presser Foot (hinged) complete, 50 needle hole, in gauges 3/32, 1/8, 5/32 and 3/16 in., Nos. 202923, 223903 and 230795, for felling
19	223903	Plate
20	229167	Presser Foot (hinged) complete, 46 needle hole, in gauges 7/32, 1/4, 9/32 and 5/16 in., Nos. 202923, 229195 and 230795, for felling
21	229195	Plate
22	229169	Presser Foot (hinged) complete, 46 needle hole, in gauges 7/32, 1/4, 9/32 and 5/16 in., Nos. 202923, 229168 and 230795, for felling
23	229168	Plate
24	229188	Presser Foot (hinged) complete, 46 needle hole, in gauges 1/8, 5/32 and 3/16 in., Nos. 202926, 229164 and 230795, Hinge pin set back 1/16 in. from regular, for felling
25	229164	Plate
26	229194	Presser Foot (hinged) complete, 46 needle hole, in gauges 3/32, 1/8, 5/32 and 3/16 in., Nos. 202923, 229193 and 230795, for felling
27	229193	Plate

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FITTINGS

PRESSER FEET

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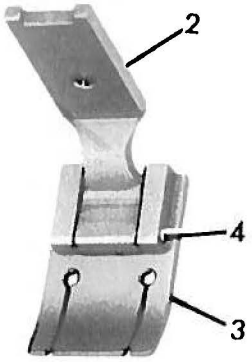

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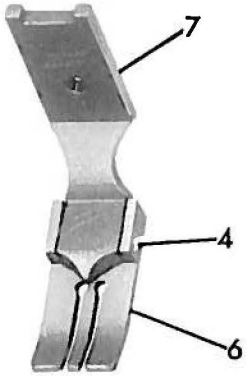

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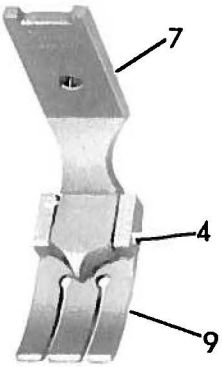

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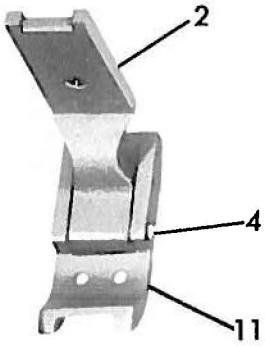

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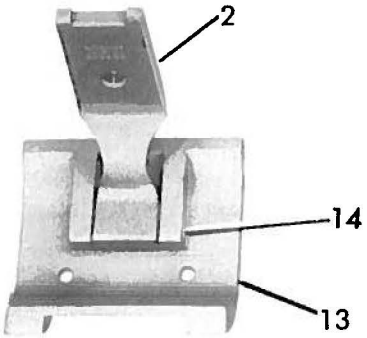

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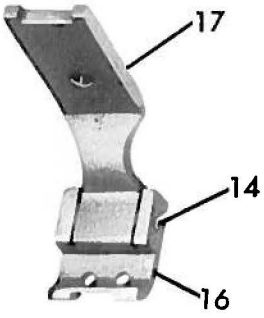

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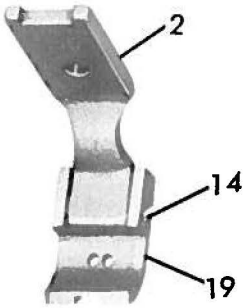

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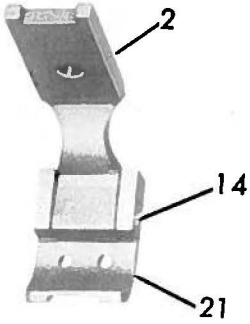

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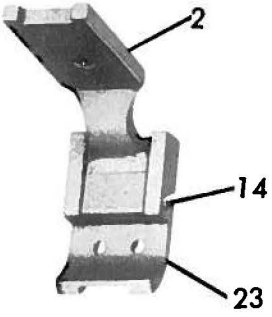

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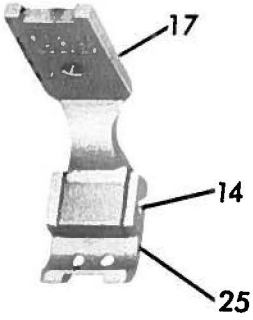

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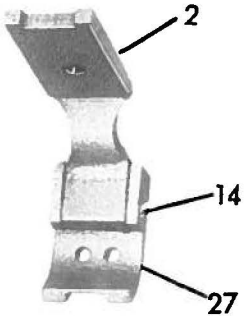

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FITTINGS

PRESSER FEET

Ref. No.	Part No.	Description
1	229092	Presser Foot, 50 needle hole, needles 3/32 in. apart, in gauges 1/32, 3/64 and 1/16 inch
2	229102	Presser Foot, 46 needle hole, in gauges from 3/32 to 7/32 in., in steps of 1/32 inch
3	229103	Presser Foot, 46 needle hole, in gauges 1/4, 9/32 and 5/16 inch
4	229104	Presser Foot, 46 needle hole, in gauges from 11/32 to 1/2 in., in steps of 1/32 inch
5	229105	Presser Foot, 46 needle hole, in gauges 17/32 and 9/16 inch
6	229106	Presser Foot, 46 needle hole, in gauges 19/32, 5/8, 21/32 and 11/16 inch
7	229107	Presser Foot, 46 needle hole, in gauges 23/32 and 3/4 inch
8	229108	Presser Foot, 46 needle hole, in gauges from 25/32 to 1 in., in steps of 1/32 inch
9	229110	Presser Foot, 46 needle hole, in gauges from 1-1/32 to 1-1/2 in., in steps of 1/32 inch
10	229542	Presser Foot, 46 needle hole, in gauges from 1/8 to 1/2 in., in steps of 1/32 in., with 200172X and 229541
11	229541	Presser Foot Spring Guide, in gauges from 1/8 to 1/2 in., in steps of 1/32 inch
12	200172X	Screw
13	229573	Presser Foot, 46 needle hole, in gauges from 3/32 to 1/4 in., in steps of 1/32 inch
14	229575	Presser Foot, 46 needle hole, in 11/32 in. gauge
15	229578	Presser Foot, 46 needle hole, in 7/8 and 1-1/4 in. gauge
16	229604	Presser Foot, 46 needle hole, in 1-1/2 in. gauge

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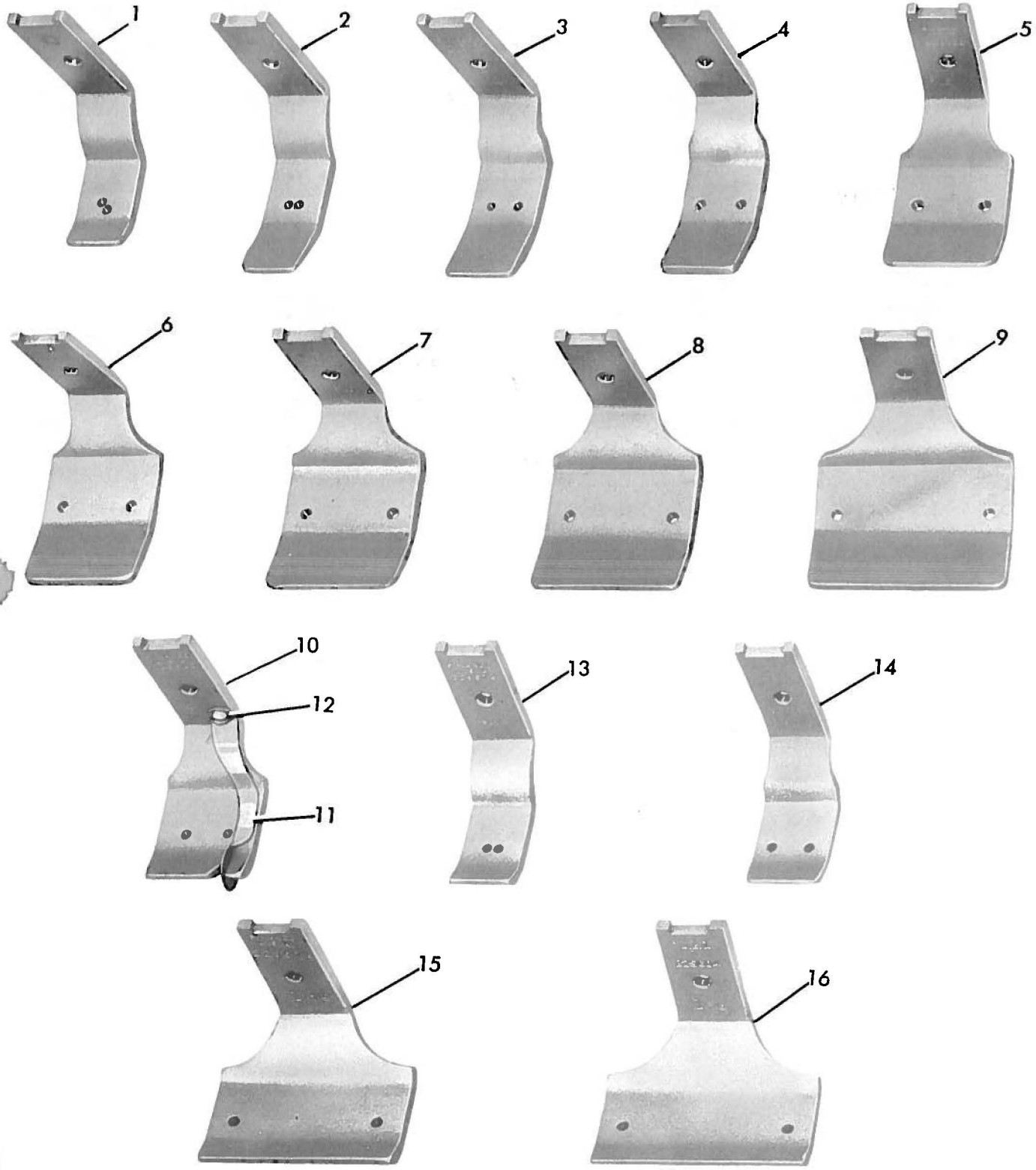
FITTINGS

PRESSER FEET



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FITTINGS

PRESSER FEET

Ref. No.	Part No.	Description
1	229094	Presser Foot (hinged) complete, 46 needle hole, in gauges 1/8, 5/32 and 3/16 in., Nos. 202923, 229093 and 230795
2	229093	Presser Foot Plate
3	230795	Hinge Pin
4	202923	Shank
5	229096	Presser Foot (hinged) complete, 46 needle hole, in gauges 7/32, 1/4, 9/32 and 5/16 in., Nos. 202923, 229095 and 230795
6	229095	Plate
7	229098	Presser Foot (hinged) complete, 46 needle hole, in gauges 11/32, 3/8 13/32 and 7/16 in., Nos. 202923, 229097 and 230795
8	229097	Plate
9	229133	Presser Foot (hinged) complete, 46 needle hole, in gauges 7/32, 1/4, 9/32 and 5/16 inch, Nos. 202923, 229132 and 230795
10	229132	Plate
11	229135	Presser Foot (hinged) complete, 46 needle hole, in 3/8 in. gauge, Nos. 202923, 229134 and 230795
12	229134	Plate
13	229139	Presser Foot (hinged) complete, 46 needle hole, in 1/2 in. gauge, Nos. 202923, 229138 and 230795
14	229138	Plate
15	229141	Presser Foot (hinged) complete, 46 needle hole, in gauges 21/32, 11/16, 23/32 and 3/4 in., Nos. 202923, 229140 and 230795
16	229140	Plate
17	229163	Presser Foot (hinged) complete, 50 needle hole, in gauges 3/32, 1/8, 5/32 and 3/16 in., Nos. 202923, 229162 and 230795
18	229162	Plate
19	229262	Presser Foot (hinged) complete, 46 needle hole, in gauges from 3/16 to 3/8 in., in steps of 1/32 in., Nos. 202090, 202923 and 229261
20	229261	Plate
21	202090	Hinge Pin

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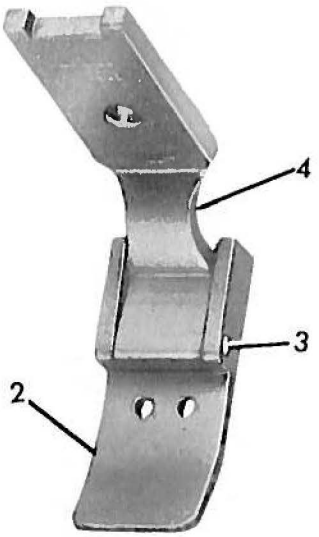
FITTINGS

PRESSER FEET

1



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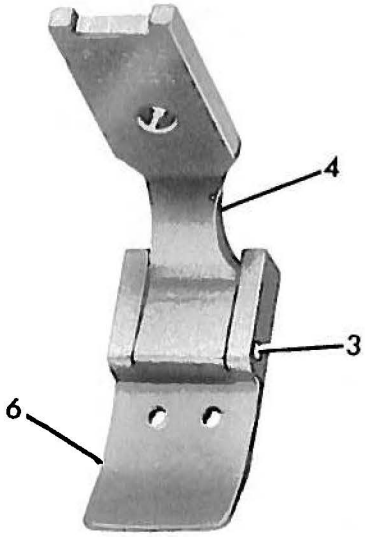

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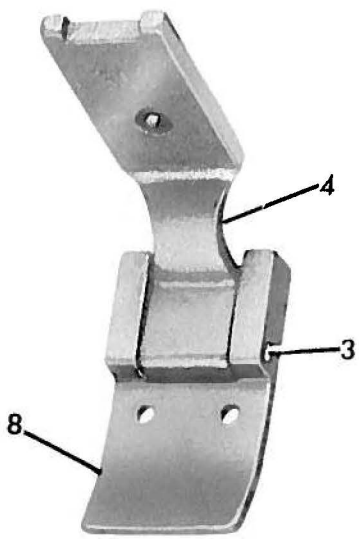

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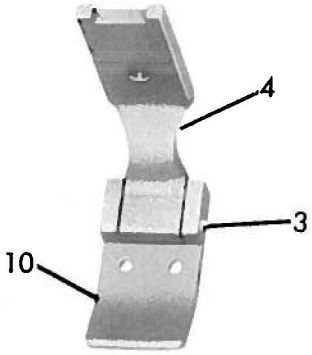

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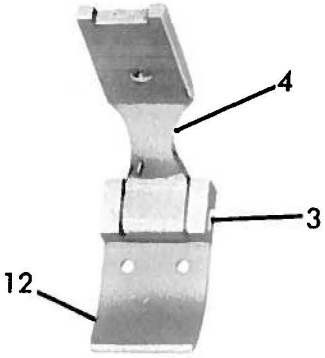

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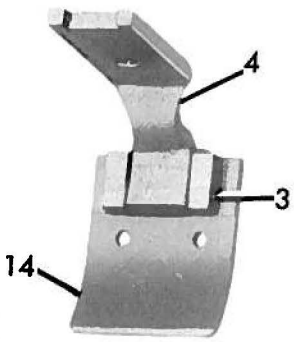

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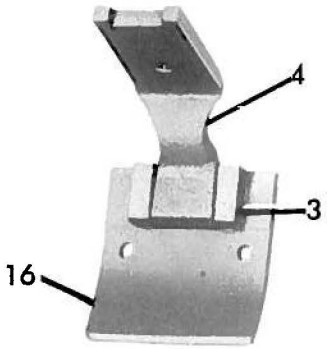

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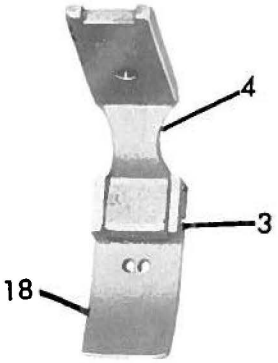

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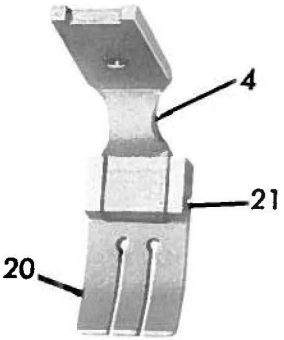

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FITTINGS

PRESSER FEET

Ref. No.	Part No.	Description
1	229198	Presser Foot (hinged) complete, 46 needle hole, in gauges 11/32, 3/8, 13/32 and 7/16 in., Nos. 202923, 229197 and 230795, for felling
2	229197	Plate
3	230795	Hinge Pin
4	202923	Shank
5	229202	Presser Foot (hinged) complete, 46 needle hole, in gauges from 15/32 to 5/8 in., in steps of 1/32 in., Nos. 202923, 229201 and 230795, for felling
6	229201	Plate
7	229216	Presser Foot (hinged) complete, 46 needle hole, in gauges 7/32, 1/4, 9/32 and 5/16 in., Nos. 202926, 229215 and 230795. Hinge pin set back 1/16 in. from regular, for felling
8	229215	Plate
9	202926	Shank
10	229218	Presser Foot (hinged) complete, 46 needle hole, in gauges 1/8, 5/32 and 3/16 in., Nos. 202930, 229217 and 230795. Hinge pin set back 1/8 in. from regular, for felling
11	202930	Shank
12	229217	Plate
13	229322	Presser Foot (hinged) complete, 46 needle hole, in gauges 1/8, 5/32 and 3/16 in., Nos. 202926, 229321 and 230795. Hinge pin set back 1/16 from regular, for felling
14	229321	Plate
15	229369	Presser Foot (hinged) complete, 46 needle hole, in gauges 1/8, 5/32 and 3/16 in., Nos. 202923, 229368 and 230795, for felling
16	229368	Plate
17	229561	Presser Foot (hinged) complete, 46 needle hole, in 3/8 in. gauge Nos. 202926, 229560 and 230795. Hinge pin set back 1/16 in. from regular, for felling
18	229560	Plate

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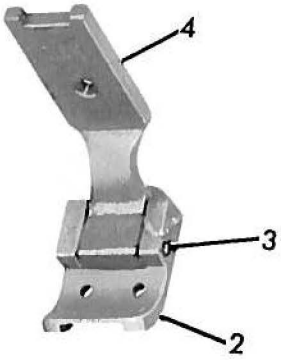
FITTINGS

PRESSER FEET

1



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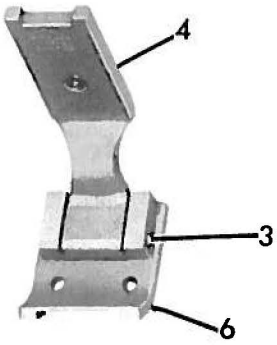

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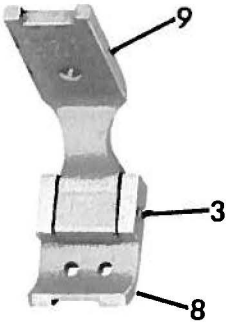

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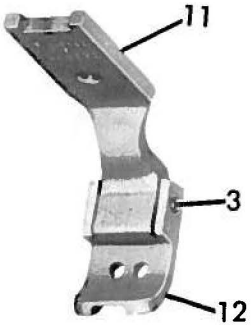

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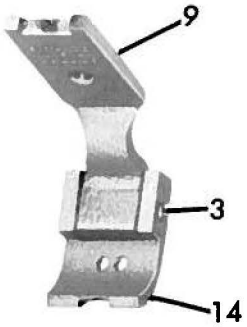

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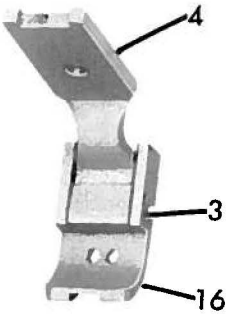

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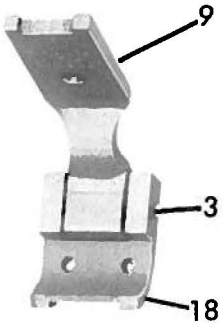

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FITTINGS

PRESSER FEET

Ref. No.	Part No.	Description
1	229965	Presser Foot (hinged) complete, 46 needle hole, in 1/2 in. gauge, Nos. 202930, 229964 and 230795 Hinge pin set back 1/8 in. from regular, for felling
2	229964	Plate
3	230795	Hinge Pin
4	202930	Shank
5	229145	Presser Foot (hinged) complete, 46 needle hole, in 7/8 in. gauge, Nos. 202923, 229144 and 230795
6	229144	Plate
7	202923	Shank
8	229147	Presser Foot (hinged) complete, 46 needle hole, in 1 in. gauge, Nos. 202923, 229146 and 230795
9	229146	Plate
10	229153	Presser Foot (hinged) complete, 46 needle hole, in 1-1/4 in. gauge, Nos. 202923, 229152 and 230795
11	229152	Plate
12	248512	Presser Foot (hinged) with Spring Guide complete, in gauges 3/16, 7/32 and 1/4 in., Nos. 201031F, 248452, 248453 and 248511
13	248511	Presser Foot (hinged) complete, 46 needle hole, in gauges 3/16, 7/32 and 1/4 in., Nos. 226080, 230795, 248455, 248510 and 248512
14	248455	Shank
15	248510	Plate
16	226080	Plate Spring
17	248453	Spring Guide Bracket with 201535E and 350422X
18	350422X	Screw Stud
19	201535E	Nut
20	201031F	Screw
21	248452	Spring Guide

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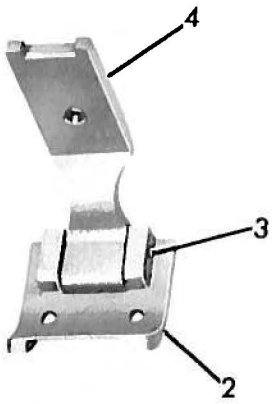
FITTINGS

PRESSER FEET

1



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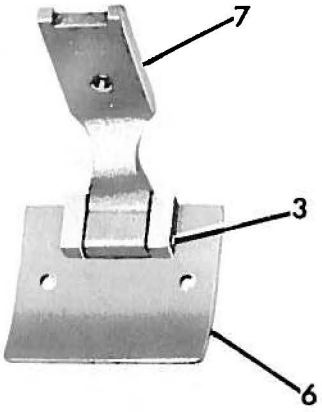

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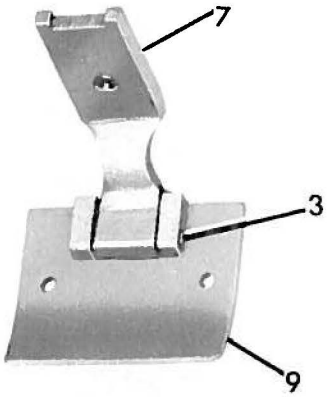

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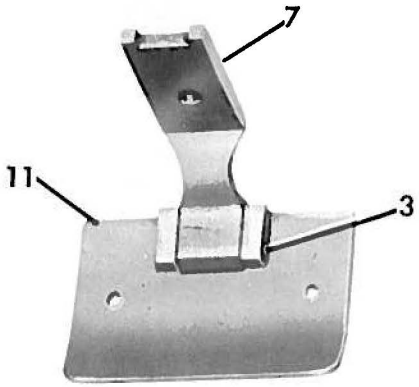

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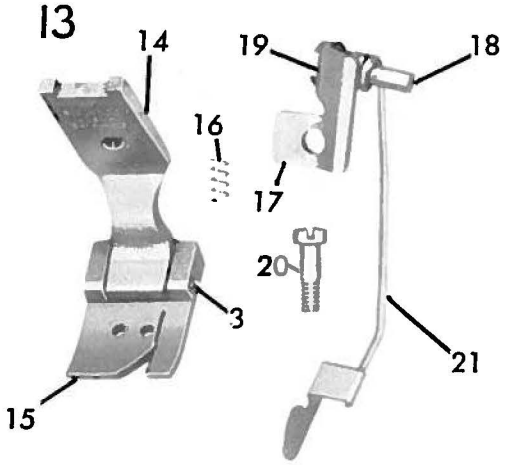

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STRIP REELS AND STRIP TENSION DEVICE

STRIP REELS

ATTACHED TO THE TOP OF THE ARM

Ref. No.	Part No.	Description
1	227212	Double Strip Reel complete, Nos. 200017C, 227108, 227113, 227115, two each 226198, 226199 and 227210
2	227210	Collar 227116 with 200731E and 227327
3	227116	Collar
4	200731E	Wing Screw
5	227327	Tension Spring (spiral)
6	226199	Disc (6 in. diam.) with 225980
7	201484C	Rod Set Screw
8	227115	Rod (upper) with Strip Guide
9	225980	Base
10	227113	Rod (lower) with Strip Guide
11	226198	Disc (9 in. diam.) with 225980
12	227108	Strip Reel Support with two 201484C
13	200017C	Support Screw

STRIP REEL

ATTACHED TO THE UNDER SIDE OF THE BENCH

14	227139	Strip Reel complete, Nos. 227138, 227148, 227210, two each 226199 and wood screws 1 in., No. 10
15	227148	Rod
16	227138	Strip Reel Support with 201484C

STRIP TENSION DEVICE

17	231369	Strip Tension Device complete (adjustable for strips up to 3 in. in width) Nos. 231363 to 231367, two each 200162D, 231368 and wood screws 1 in., No. 12 F.H.B.
18	231363	Base
19	231368	Strip Guide
20	200162D	Screw
21	231364	Strip Tension Plate with 200457D, 201599X and two 200383C
22	200457D	Adjusting Thumb Screw
23	201599X	Nut
24	200383C	Set Screw
25	231365	Shaft
26	231367	Spring Adjusting Collar with 200380C
27	200380C	Set Screw
28	231366	Tension Plate Spring

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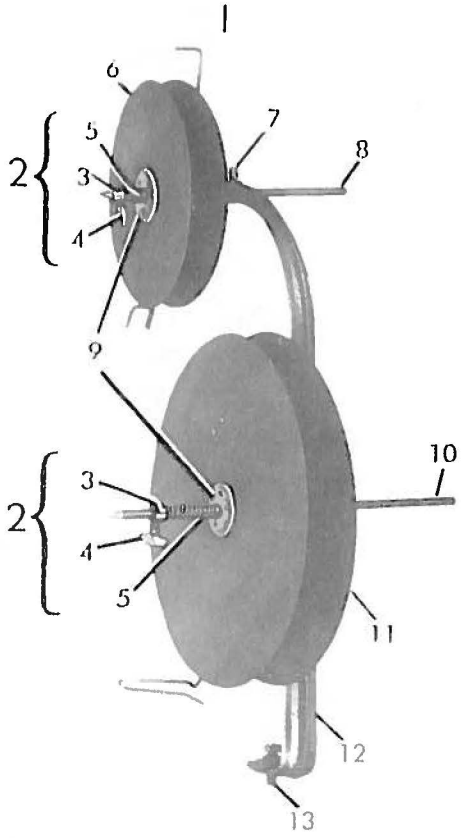
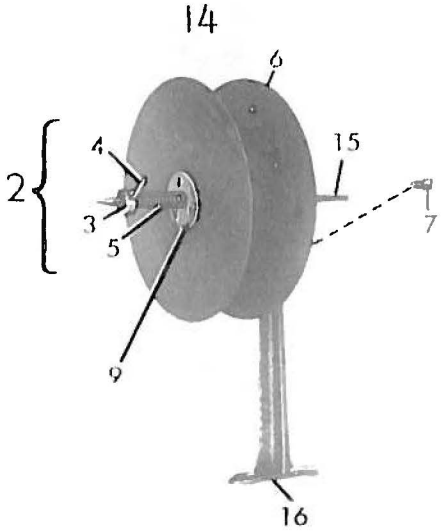
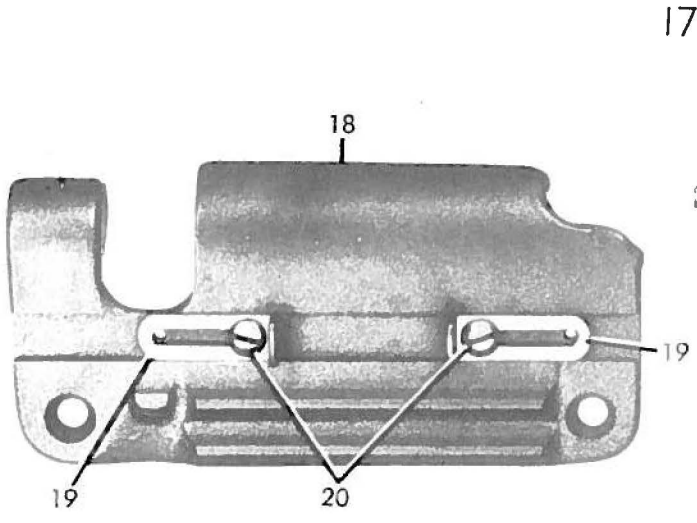
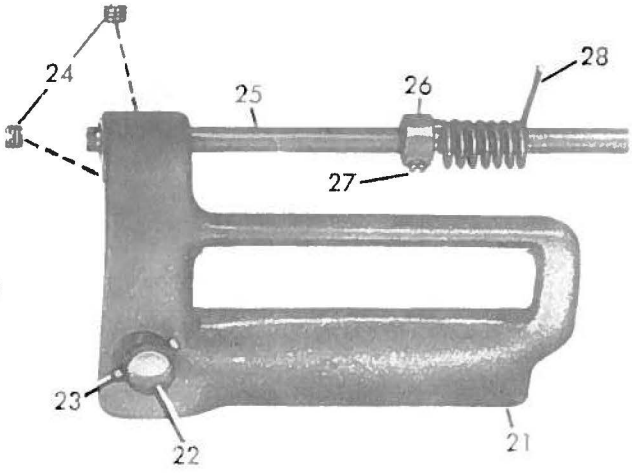
STRIP REELS AND STRIP TENSION DEVICE









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NUMERICAL LIST OF PARTS

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