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SERVICE MANUAL

AND

PARTS LIST

FOR

SINGER["] 212w140

HIGH SPEED TWO NEEDLE LOCK STITCH MACHINE



THE SINGER MANUFACTURING COMPANY

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FOREWORD

This book contains complete information covering operation, adjustment, parts list, attachments and special fittings for Machine 212W140. Descriptions and exploded views of all parts assemblies on pages 15 to 68 inclusive, will be found helpful when ordering any part of the machine requiring renewal.



X-RAY VIEW OF MACHINE 212W140 (LUBRICATING SYSTEM SHOWN IN SOLID BLACK)

DESCRIPTION

Machine 212W140, for stitching corsets, overalls and clothing generally.

Two Needle, Lock Stitch.

Lubricated Link Take-up.

Two Belt Driven, Automatically Lubricated Rotary Sewing Hooks on Vertical Axis.

Compound Feed.

Maximum length of Stitch δ 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.

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 biled.

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 full the difference voirs in the sewing hook saddles to the full mark on the gauges. Fill oil reservoir on top of arm through oil fille hole J. Fig. 4, to high mark on oils got H. Fig. 4. Such down and turn oil control plunger G. Fig. 4 until it locks in down position. Release plunger for toping is to be lett idle for more than an noir.

CAUTION: Oil control plunger **G** must be tocked 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. 22. 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 c'l noticeable on the test paper after 1/2 turn of the



Fig. 5

control valve screw, remove the hook shaft cap screw **B**, **Fig. 21** 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. 22** should be securely tightened.

NEEDLES

Needles for Machine 212W140 are of Class and Variety 135 x 7 which 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, also 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 front of the machine belt, so that the pulley will drop away from the belt when sufficient thread has been wound upon the bobbin.



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**, push the bobbin winder pulley over 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 the screw **B**. To wind more thread on the bobbin, turn the screw **B** inwardly. To wind less thread on the bobbin, turn the screw outwardly.

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.

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, the inside needle or the one nearest the upright part of the arm having its long groove toward the left, and the outside needle or the one farthest from the upright part of the arm having its long groove toward the right, the eyes of both needles being directly in line with the arm of the machine, then tighten the set screws.

UPPER THREADING

To thread the outside 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



Fig. 9. Upper Threading

spool stand, down through hole (1), then through hole (2) in thread guide on top of arm, downward through holes (3, 4, and 5) in thread guide at front of machine, over from right to left between tension discs (6), down under from right to left around thread controller (7), up into fork (8), of thread controller against the pressure of wire controller spring, up through thread guide (9), up and from right to left through upper hole (10) in end of thread take-up lever, down through thread guide (9) again and through two thread guides (11 and 12), down through left hole (13) in needle holder and from right to left through eye of left or outside needle (14).

To thread the inside 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, downward through holes (C, D, and E) in thread guide at front of machine, under from right to left between right tension discs (F), down under from right to left around thread controller (G) up into fork (H) of thread controller against the pressure of wire controller spring up through thread guide (J), up and from right to left through lower hole (K) in end of thread take-up lever, down through thread guide (\mathbf{J}) again and through two thread guides (L and M), down through right hole (N) in needle holder and from left to right through eye of right or inside needle (O).

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 towards 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; 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 COMMENCE SEWING

Place the material beneath the presser foot, lower the presser foot and commence 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

TO RE-ENGAGE THE SAFETY CLUTCH (If machine is so fitted)

When safety clutch has dis-engaged, first check to see that the bed shaft turns freely. Remove any thread that may have become jammed in the hook. To reengage the clutch, 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 feed driving eccentric cam. Turn the machine pulley over toward you until the safety clutch is re-engaged. Then reset the length of stitch as described above.

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.

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 found advisable to increase the tension of the spring for coarse thread, or to lessen 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 frame.

In case the needle bar is not correctly set, loosen the needle bar connecting stud pinch screw **M**, **Fig. 17**

and place the needle bar in the correct position as directed above, then retighten the screw M. To set a needle bar which has no mark, 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 marking A, Fig. 16 just visible on the needle bar, the hook point should be 1/16 inch above the eye of the needle as shown in Fig. 16. 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. 20 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. 20. 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. 20 just enough to leave a small amount of tension.



Fig. 16. Height Adjustment of Sewing Hook

RELATIVE POSITIONS OF NEEDLE BAR AND PRESSER BAR

The distance between the needle bar and presser bar, after adjusting the feed eccentric so that there is no feed movement, should be 17/32 inch as shown on **Fig. 17**.

If the distance between the needle and presser bars is more or less than 17/32 inch, loosen the needle bar frame shaft clamp screw N2, Fig. 23. While the screw is loose, the needle bar frame can be moved forward or backward, as may be required, until the distance between the needle and presser bars is 17/32 inch. A piece of sheet metal 17/32 inch wide may be used to determine the correct distance. When making the adjustment, be sure to see that the feed eccentric is set so that there is no feeding movement. When the adjustment has been made, securely tighten screw N2.



Fig. 17

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 four screws N,N and T,T, Fig. 18 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,N and T,T.





CAUTION: Make sure hook driving gears **U**, **Fig. 18** are set correctly with relation to face of hook saddle. Use .008 shim.

The function of the hook (needle guard) **G2**, **Fig. 20**, 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 mark across the needle bar is just visible at the end of the needle bar frame 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.

In case 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 frame. Loosen the two screws **H2**, **Fig. 20** 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. 19** from the sewing hooks, lift off the hook gibs **F2**, **Fig. 20** and remove the bobbin cases **X**, **Fig. 19**.

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



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. 20** 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. 22** 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. 22**, 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.



Fig. 20. Sewing Hook Removed from Machine Showing Hook Washer

If it is too low, it is apt to slip out and cause damage to the hook and bobbin case when the machine is in operation. To make the adjustment, remove the cloth washer in the bottom of the bobbin case, loosen the 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. 20** 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.



Fig. 21

Remove both ball bearing retainer screws A, Fig. 21. 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. 22. 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. 22**, 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. 19** 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

Turn the machine pulley over toward you until lowest timing mark on needle bar is even with end of needle bar frame. In this position, the mark D2, Fig. 19 on the flange of the opener driving shaft should line up with the reference mark C2, Fig. 19 on hook saddle. If opener shaft is out of time, tip machine back and loosen set screws K2, Fig. 22 in opener driving gears, then return machine to upright position and turn shaft with screwdriver in E2, Fig. 19 at top end of shaft, then tighten set screws K2, Fig. 22 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. 18 and turn in the two adjusting screws P and S, Fig. 18 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 towards you until the feed dog is at its highest position; loosen screw V, Fig. 18 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. 18** and adjust the feed dog as required, then securely tighten the pinch screw **B3** and check the relative position of the needle and presser bars as instructed on **page 10**.

TO REMOVE TAKE-UP LEVER

Remove arm cover at top of machine, loosen set screw U2, Fig. 25, and remove take-up lever hinge stud L, Fig. 17. Lift take-up lever out through slot in top of arm V2, Fig. 25.

TO REMOVE THE NEEDLE BAR ROCK FRAME

Open face plate, remove take-up hinge stud and take-up. Remove cover plate on the front upright portion of the arm, then loosen needle bar rock frame rock shaft connection pinch screw **N2**, **Fig. 23**. Pull needle bar rock frame with its shaft from machine.



THE FEED ECCENTRIC

The feed eccentric is provided with a gib P2, Fig. 24, 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 24 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.



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 damaging while machine is out of time. Slide the belt off lower pulley **Z2**, **Fig. 26**. 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. 25**, 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



Fig. 26

place, tap the machine pulley into position with the palm of the hand, then tighten screws firmly. Turn the machine pulley over towards you until the thread take-up lever is at its highest point. Then turn the hook driving shaft until the arrow **Z2**, **Fig. 26** on the belt pulley is in line with the mark **Y2**, **Fig. 26** 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.

PARTS LIST FOR MACHINE 212w140

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:

- A Hardened, Polished, Nickel Plated and Buffed.
- 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.
- W Polished and Nickel Plated.
- X Black Oxide, for Iron and Steel.
- XC Hardened and Black Oxide, for Iron and Steel.
- Z Chromium Plated.

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.

ARM SHAFT, NEEDLE BAR AND TAKE-UP ASSEMBLY

Ref.	Part	
No.	No.	Description
1	2673 00	Take-up Lever
2	267239	Hinge Stud with 267240
3	267240	Oil Packing (wick)
4	202552	Connecting Link
5	202399	Driving Stud with 202277
6	202277	Oil Packing (wick)
7	264714	Connecting Stud with 200072C and 202330
8	200072C	Pinch Screw
9	202330	Oil Packing (wick)
10	267160	Oil Pad (felt) (upper)
11	267249	Oil Control Spring
12	200142E	Screw (2)
13	267236	Oil Reservoir Oil Wick
14	267247	Arm Shaft *267158 with 200333C, 200374AL, 200378C, 200388C, 267221 and *267222
15	267221	Connecting Link Stud with 202254
16	202254	Oil Packing (wick)
17	200374AL	Set Screw
18	200388C	Set Screw
19	200333C	Position Screw
20	200378C	Position Screw Check Screw
21	267224	Friction Washer
22	267159	Arm Shaft Bushing
23	204329	Oil Pad (felt) (lower)
24	200341C	Set Screw Belt Pulley with 200363AL, 350492C and two 202253
25	267162	
26	202253	Spring Flange Position Screw
27 28	350492C 200363AL	Set Screw
$\frac{20}{29}$		Connection Belt (reinforced neoprene)
30	267283	Machine Pulley 267282 with 270004
31	267282	Machine Pulley (aluminum alloy casting) for "V" belt
51		(outside diam.of belt groove 2.9 in.) (rim diam.4 in.) (inside belt groove) with 350540C and 350541C
32	350541C	Set Screw
33	350540C	Position Screw
34	270004	Bearing (back)
35	267267	Needle Bar
36	267269	Needle Holder, in gauges from $3/32$ to $15/32$ in., in
		steps of $1/32$ in., with two $200141\mathrm{F}$
37	200141F	Set Screw
	*267158	Arm Shaft
	*267222	Needle Bar Crank

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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 201351E
4	201351E	Screw Stud
5	271017	Thread Guide (top of Arm) (2)
6	201525E	Lock Nut (2)
7	267272	Oil Level Indicator
8	267252	Gasket (vellumoid)
9	267176	Face Plate
10	267177	Hinge Pin
11	200389C	Set Screw
12	268197	Face Plate Lock Spring Plate
13	267220	Oil Guard
14	268032	Lock Spring
15	201313F	Screw (2) Face Plate Cushion (rubber)
16 17	228661 223853	Bed Slide (front) for use with Throat Plates in gauges from
11	223033	1/32 to $1/2$ inch
17	224043	Bed Slide (front) for use with Throat Plates in gauges from
11		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 (large) (3)
27	200006E	Arm Screw (small)
28	202005	Washer (large) (3)
29	250473	Washer (small)
30	267152 2505625	Arm Cover (side) Screw
31	350563E 202258	Bed Hinge Connection (2)
32 33	202258 200570E	Screw (4)
34	224146	Attachment Slide Plate with 213479 and 236061, for use with
74		depressed Throat Plates
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	*267151	Arm
	*267163	Bed with 203376

*267163 Bed with 203376



BED SLIDES, COVERS AND MISCELLANEOUS PARTS

PRESSER BAR, PRESSER FOOT AND PRESSER FOOT LIFTING ASSEMBLY

Ref. <u>No.</u>	Part No.	Description
1	208566	Presser Bar with 200074F
2	200074F	Screw
3	207072	Presser Bar Bushing (2)
4	200352C	Set Screw (3)
5	210949	Spring Bracket with 200086C
6	200086C	Pinch Screw
7	267238	Releasing Lever Bracket
8	202671	Presser Bar Lifter
9	200653C	Hinge Screw
10	206608	Releasing Lever Bracket Spring
11	202401	Take-up Lever Oiling Felt
12	200132E	Oiling Felt Screw
13	202338	Guide Lever with 200086F
14	200086F	Pinch Screw
15	202337	Position Guide
16	200738C	Spring Stop Screw
17	350464X	Lever Hinge Screw
18	267289	Lifting Lever Spring
19	240068	Lifting Lever
20	240067	Connection Lever
21	200262X	Hinge Screw
22	267251	Spring (flat)
23	350581C	Spring Regulating Screw
24	200948F	Spring Support Screw
25	200975F	Lever Bracket Guide Screw
26	267265	Lever Rod
27	240564	Lifting Rod
28 29 30	227227	Lifting Rod Stop Collar with 200113F Set Screw Knee Lifter Connection Lever Lifting Rod Roller Bracket complete, Nos. 200270X, 224411 and 224412
31 32 33	224412 224411 200270X 22462	Rod Roller Bracket with 200113F Rod Roller Hinge Screw Presser Foot (hinged) complete, 50 needle hole, in gauges
34 35	224062 223309	7/32,1/4,9/32 and 5/16 in.,Nos.223309,224061 and 230795 Shank
36 37	$224061 \\ 230795$	Plate Hinge Pin



PRESSER BAR, PRESSER FOOT AND PRESSER FOOT LIFTING ASSEMBLY

TENSION COMPLETE AND THREAD GUIDES

Ref. <u>No.</u>	Part No.	Description
1	223705	Tension Bracket complete, Nos. 200978X, 201199F, 223702, 223703, 223706, 237174, two each 13710, 200309E, 204271, 223704, three 201572X and four 244048
2	223702	Tension Bracket with two each 201224B and 236060
3	267288	Thread Retainer
4	200159F	Tension Bracket Screw
5	201224B	Tension Stud
6	236060	Tension Disc Position Pin
7	223703	Tension Release Lever
8	200309E	Screw
9	200337X	Thread Controller Stud Set Screw
10	241360	Thread Controller Spring Stop
11	200132E	Screw
12	223704	Tension Release Plunger
13	244048	Tension Disc
14	204271	Tension Release Washer
15	13710	Tension Spring
16	201572X	Thumb Nut
17	223706	Thread Controller Disc
18	200978X	Screw
19	201199F	Thread Controller Stud with 204925
20	204925	Washer
21	237174	Spring
22	267246	Thread Guide (upper)
23	200582X	
24	236007	Thread Guide (center)
25	224040	Thread Guide (lower)

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TENSION COMPLETE AND THREAD GUIDES

LOWER FEED ASSEMBLY WITH FEED DOG

Ref. No.	Part No.	Description
1	267275	Feed Driving Rock Shaft 223650 with 201518E, 267274 and 350393C
0	267274	Feed Bar 248406 with 200040AL, 225837 and 267273
2 3	223650	Rock Shaft
4	350393C	Hinge Screw (driving)
	201518E	Nut
5 6	248406	Feed Bar with 200336E and 201535E
6 7	200040AL	Fork Screw
8	225837	Washer
9	200336E	Support Screw
7 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	223638	Feed Dog, 50 needle hole, in gauges $1/4$ to $13/32$ in., for 223884
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
2 8	267032	Connection 267031 with 268063 and 270653
2 9	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)



LOWER FEED ASSEMBLY WITH FEED DOG

HOOK DRIVING AND FEED DRIVING ECCENTRIC ASSEMBLY WITH HOOK SADDLE BEARINGS

Ref. <u>No.</u>	Part No.	Description
$ \begin{array}{r} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ \end{array} $	202254 267245 270026 240245 350440X 267189 223847 267195 200327C 267188 200382C 201220C 267196 200335C 267033 201403X 268064 267623 350548C 267180	Wick (2) Feed Regulating Stud Spring Retaining Spring Bed Oil Screw Driving Shaft Saddle Bearing Oil Packing (wick) (2) Saddle Bearing (left) (left) Set Screw Gear (spiral) with 200382C and 201220C (2) Set Screw Position Screw Saddle Bearing (right) (right) Set Screw Friction Washer Screw (3) Feed Driving Eccentric Friction Plate Screw Flange with 267623, two each 241763, 350467C, 350477C,
$21 \\ 22 \\ 23 \\ 24 \\ 25 \\ 26 \\ 27 \\ 28 \\ 29 \\ 30 \\ 31 \\ 32 \\ 33 \\ 34$	241763 350477C 350467C 268065 268066 267191 267190 267060 267063 200580X 267192 202253 201254C	and 350548C Set Screw Packing (brass) Set Screw Adjusting Disc Spring Collar with two 200382C Collar 267190 with 267060 Collar with 200382C and 201220C Ball Bearing Retaining Washer Screw (3) Belt Pulley with 202253 and two 201254C Spring Flange Set Screw



HOOK AND BOBBIN CASE WITH BOBBIN

Ref. No.	Part No.	Description
1 2	267357 248460	Hook and Bobbin Case complete, Nos. 248460 and 267356 Bobbin Case complete, Nos. 200594C, 201016C, *202056, 203216, 203473, 203474, 203648, 236083, 241674, 241675, *248459 and two 350405C
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	241674	Oiling Felt
11	241675	Retainer
12	350405C	Screw
13	267356	Hook *267355 with 267358 to 267360, 350574F, two each 200591X, 201253F and 201409F
14	350574F	Hook Height Adjusting Screw
15	140434ALX	
16	267360	Thread Guard
17	200591X	Screw
18	267359	Needle Guard
19	201409F	
20	267358	Hook Gib
21	201253F	Screw
22	203470	Bobbin (2)
	*202056	Bobbin Case Latch Pin
	*248459	Bobbin Case (chromium plated)
	*267355	Hook (sewing) with two 140434ALX

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HOOK SADDLE (LEFT) COMPLETE

1 267291 Hook Saddle (left) complete, Nos. 200110D, 200378C, 244084, 267017, 267018, 267053, 267166, 267171, 267193, 267195, 267366, 35056LE, two each 200089X, 200135C, 200143X, 267361 and eight 200061AL 2 267357 Hook and Bobbin Case complete 3 267171 Link (left) 4 200135C Cap Screw 5 267018 Cam Shaft 6 267361 Retainer 7 20089X Screw 8 267053 Hook Ball Bearing 9 276061 Oil Wick 11 350564E Oil Regulating Screw 2 267175 Hook Shaft Bushing (upper) 13 26766 Pinion (spiral) with two 350595XC 14 267367 Hook Shaft Bushing 17 200143X Screw 18 267166 Opener Crank 19 267367 Hook Shaft Bushing 200100D Screw Screw 20101012 Screw Screw 2010102 Screw Screw 2010120 Screw </th <th>Ref. No.</th> <th>Part No.</th> <th>Description</th>	Ref. No.	Part No.	Description
2 267357 Hook and Bobbin Case complete 3 267171 Link (left) 4 200135C Cap Screw 5 267018 Cam Shaft 6 267361 Retainer 7 20089X 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 26717 Hinge Bracket (left) 17 200143X Screw 18 267166 Opener Crank 19 267351 Bobbin Case Opener 20 20010D Screw 21 267248 Pinion Thrust Bearing 22 267367 Hook Shaft Bushing 23 244084 Check Screw Packing (fibre) 24	1	267291	267017, 267018, 267053, 267166, 267171, 267193, 267198, 267199, 267212, 267215, 267248, 267351, 267357, 267365, 267366, 350564E, two each 200089X, 200135C, 200143X, 267361 and eight 200061AL
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 Stushing (upper) 13 267215 Hook Shaft with 270880 and 276061 14 267366 Pinion (spiral) with two 350595XC 15 350595XC Set Screw 16 267107 Hinge Bracket (left) 17 200143X Screw 18 267166 Opener Crank 19 267351 Bobbin Case Opener 20 200110D Screw 21 267348 Pinion Thrust Bearing 22 20376C Oil Regulating Screw Check Screw 23 244084 Check Screw Packing (fibre)	2	267357	Hook and Bobbin Case complete
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23 244084 Check Screw Packing (fibre) 24 200378C Oil Regulating Screw Check Screw 25 200335C Bushing Set Screw 26 200972D Oil Stop Screw 27 267193 Hook Saddle (left) with 200347AL, 200972D, 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 206758 31 206758 Oil Facking (wick) 32 267212 Gasket 33 267198 Oil Gauge Sleeve with 267277 34 267277 Oil Strainer 35 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			
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27 267193 Hook Saddle (left) with 200347AL, 200972D, 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 206758 31 206758 Oil Packing (wick) 32 267212 Gasket 33 267198 Oil Gauge Sleeve with 267277 34 267277 Oil Strainer 35 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			
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28 200347AL Bushing (upper) Set Screw 29 267365 Cam Shaft Gear (spiral) with two 350595XC 30 267168 Cam Shaft Bushing (lower) with 206758 31 206758 Oil Packing (wick) 32 267212 Gasket 33 267198 Oil Gauge Sleeve with 267277 34 267277 Oil Strainer 35 267199 Oil Reservoir (left) 36 200061AL Screw 37 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer	27	267193	267367 and two $200335C$
29 267365 Cam Shaft Gear (spiral) with two 350595XC 30 267168 Cam Shaft Bushing (lower) with 206758 31 206758 Oil Packing (wick) 32 267212 Gasket 33 267198 Oil Gauge Sleeve with 267277 34 267277 Oil Strainer 35 267199 Oil Reservoir (left) 36 200061AL Screw 37 267139 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer		30021741	Bushing (upper) Set Screw
30 267168 Cam Shaft Bushing (lower) with 206758 31 206758 Oil Packing (wick) 32 267212 Gasket 33 267198 Oil Gauge Sleeve with 267277 34 267277 Oil Strainer 35 267199 Oil Reservoir (left) 36 200061AL Screw 37 267139 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			Cam Shaft Gear (spiral) with two 350595XC
31 206758 Oil Packing (wick) 32 267212 Gasket 33 267198 Oil Gauge Sleeve with 267277 34 267277 Oil Strainer 35 267199 Oil Reservoir (left) 36 200061AL Screw 37 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			Cam Shaft Bushing (lower) with 206758
32 267212 Gasket 33 267198 Oil Gauge Sleeve with 267277 34 267277 Oil Strainer 35 267199 Oil Reservoir (left) 36 200061AL Screw 37 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			Oil Packing (wick)
33 267198 Oil Gauge Sleeve with 267277 34 267277 Oil Strainer 35 267199 Oil Reservoir (left) 36 200061AL Screw 37 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			
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35 267199 Oil Reservoir (left) 36 200061AL Screw 37 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			
36 200061AL Screw 37 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			Oil Reservoir (left)
37 267140 Pinch Sleeve (upper) 38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			
38 267139 Pinch Sleeve (lower) 39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			
39 200001E Screw 40 267197 Oil Gauge 41 225585 Washer			
40 267197 Oil Gauge 41 225585 Washer			
41 225585 Washer			
			Washer
		200006E	Hook Saddle Screw



HOOK SADDLE (LEFT) COMPLETE

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 200061AL
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 (1) with two 350595XC
12	267366	Pinion (spiral) with two 350595XC
13	350595XC	Set Screw Oil Regulating Screw
14	350564E	Hinge Stud (right)
15	267167 267166	Opener Crank
16 17	267351	Bobbin Case Opener
18	200110D	Screw
19	267248	Pinion Thrust Bearing
20	267367	Healt Shaft Buching
$\frac{1}{21}$	267194	Hook Saddle (right) with 200347AL, 200972D, 267168, 267169, 267367 and two 200335C
22	267169	Cam Shaft Bushing (upper)
23	267365	Cam Shaft Gear (spiral) with two 350595XC
$\frac{2}{24}$	200347AL	Bushing (upper) Set Screw
25	267168	Cam Shaft Bushing (lower) with 206758
$\frac{1}{26}$	206758	Oil Packing (wick)
27	200378C	Oil Regulating Screw Check Screw
28	244084	Check Screw Packing (fibre)
29	200335C	Bushing Set Screw
30	200972D	Oil Stop Screw
31	200374AL	Hinge Stud (right) Set Screw
32	200388C	Check Screw
33	267198	Oil Gauge Sleeve with 267277
34	267277	Oil Strainer Gasket
35	$267212 \\ 267200$	Oil Reservoir (right)
36 37	200061AL	
38	267140	Pinch Sleeve (upper)
39	267139	Pinch Sleeve (lower)
40	200001E	Screw
41	267197	Oil Gauge
42	225585	Washer
43	2 00006E	Hook Saddle Screw





FEED DOGS, NEEDLE HOLDERS AND THROAT PLATES

Ref. No.	Part No.	Description
1	224059	Throat Plate, in gauges $1/32$, $3/64$ and $1/16$ inch
2	200161D	Clamp Screw
3	203376	Position Pin
4	691F	Screw
5	224058	Feed Dog, 50 needle hole, needles 1/8 in.apart, in gauges 1/32, 3/64 and 1/16 in., for 224059
6	200106E	Screw (2)
7	224030	Throat Plate, in gauges 3/32 to 5/32 inch
8	223637	Feed Dog, 50 needle hole, in gauges 3/32 to 5/32 inch, for 224030
9	224031	Throat Plate, in gauges $3/16$ and $7/32$ inch
í0	223639	Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224031
11	223884	Throat Plate, in gauges $1/4$ to $13/32$ inch
12	223638	Feed Dog,50 needle hole, in gauges 1/4 to 13/32 in., for 223884
13	224033	Throat Plate, in gauges 7/16 to 31/32 inch
14	223634	Feed Dog, 50 needle hole, in gauges 7/16 to 31/32 in., for 224033
15	224035	Throat Plate, in gauges 1 to $1-1/2$ inch
16	223641	Feed Dog, 50 needle hole, in gauges 1 to 1-1/2 in., for 224035
17	267268	Needle Holder, needles 1/8 in. apart and must be set diagonally, in gauges 1/32, 3/64 and 1/16 in., with two 200141F
17	267269	Needle Holder, in gauges 3/32 to 15/32 in., with two 200141F
18	267270	Needle Holder, in gauges 1/2 to 3/4 in., with two 200141F
19	267271	Needle Holder, in gauges 25/32 to 1-1/2 in., with two 200141F
20	200141F	Needle Set Screw

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PRESSER FEET

Ref.	Part	Description
No.	No.	
1	224127	Presser Foot (hinged) complete, 50 needle hole, needles 1/8 in.apart in gauges 1/32, 3/64 and 1/16 in., Nos. 223309, 224126 and 230795
2	223309	Shank
3	230795	Hinge Pin
4	224126	Plate
5	224158	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 3/32 and 1/8 in., Nos. 223309, 224157 and 230795
6	224157	Plate
7	223799	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 5/32 and 3/16 in., Nos. 223309, 223798 and 230795
8	223798	Plate
9	224062	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 7/32 to 5/16 in., Nos. 223309, 224061 and 230795
10	224061	Plate
11	224080	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 11/32 to 7/16 in., Nos. 223309, 224079 and 230795
12	224079	Plate
13	224082	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 15/32 to 9/16 in., Nos. 223309, 224081 and 230795
14	224081	Plate
15	22 4084	Presser Foot (hinged) complete, 50 needle hole, in gauges 19/32 and 5/8 in., Nos. 223309, 224083 and 230795
16	224083	Plate
17	223771	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 21/32 to 3/4 in., Nos. 223309, 223770 and 230795
18	223770	Plate
19	224133	Prate Presser Foot (hinged) complete, 50 needle hole, in gauges 25/32 to 15/16 in., Nos. 223309, 224132 and 230795
2 0	224132	Plate
21	22 4068	Presser Foot (hinged) complete, 50 needle hole, in gauges 31/32 to 1-1/16 in., Nos. 223309, 224067 and 230795
22	224067	Plate
23	22 4086	Presser Foot (hinged) complete, 50 needle hole, in gauges $1-3/32$ to $1-3/16$ in., Nos. 223309, 224085 and 230795
24	224085	Plate
25	224088	Presser Foot (hinged) complete, 50 needle hole, in gauges $1-7/32$ to $1-7/16$ in., Nos. 223309, 224087 and 230795
26	224087	Plate
27	224078	Presser Foot (hinged) complete, 50 needle hole, in gauges 1-15/32 and 1-1/2 in., Nos. 223309, 224077 and 230795
28	224077	Plate
































NEEDLE BAR ROCK FRAME, NEEDLE BAR ROCK FRAME ROCK SHAFT AND LUBRICATING WICKS

Ref. No.	Part No.	Description
1	267286	Needle Bar Rock Frame Rock Shaft *267285 with 40025 and *267284
2	40025	Position Pin
3	267287	Wear Plate
4 4	200587D	Screw
5	267231	Oiling Felt
6	267233	Retainer (lower)
7	267232	Retainer (upper)
8	200176E	Screw (4)
9	267362	Rock Shaft Bushing (2)
i o	200358C	Set Screw (2)
11	200383C	Set Screw Check Screw (2)
12	267229	Connection with 200029C
13	200029C	Pinch Screw
14	267230	Link
15	350566C	Hinge Screw with 202277 (2)
16	202277	Packing (wick)
17	201517E	Nut (2)
18	267228	Rock Shaft Crank with 200029C
19	267254	Bed Oil Tube Clamp
20	267276	Clamp Oiling Felt
21	200034C	Screw Feed Driving Eccentric Connection Oil Tube Support
22	267293	Feed Driving Rock Shaft Bushing (right) Oil Tube with
23	267257	267263
24	267263	Wick
25	267253	Bed Oil Supply Tube with 267260
26	267260	Oil Wick Hook Driving Shaft Ball Bearing Oil Tube with 243743
27	267290	
28	243743	Wick Hook Saddle Bearing (left) Oil Tube with 267264
29	267258 267264	Wick
30	267255	Feed Driving Eccentric Connection Oil Tube with 267261
31	267261	Wick
32 33	267259	Hook Saddle Bearing (right) Oil Tube with 267262
34	267262	Wick
35	267256	Feed Driving Rock Shaft Bushing (left) Oil Tube with 267262
	*267284	Needle Bar Rock Frame with two 267287 and four 200587D
	*267285	Needle Bar Rock Frame Rock Shaft



NEEDLE BAR ROCK FRAME, NEEDLE BAR ROCK FRAME ROCK SHAFT AND LUBRICATING WICKS

Ref. No.	Part No.	Description
1	228736	Drip Pan with four 3/4 in. wire nails
2	228452	Machine Base Oil Drain Jar complete, Nos.131217, 131266, 131961, 131962 and two 1247C
3	131266	Nipple
4	131962	Cap
5	1247C	Clamp Screw
6	131217	Clamp 131188 with 131189
7	131188	Clamp
8	131189	Clamp Lever
-9	131961	Jar (glass)
10	120342	Oiler (copper plated) with 120343
11	120343	Spout
	225498	Screw Driver
13	228476	Screw Driver (Bobbin Case)
14	41400	Machine Rest Pin (wood)
15	225554	Wrench
16	200157E	Attachment Screw
17	203470	Bobbin (4)
18	267242	Wrench $(3/32 \text{ in. Hex.})$
	135x1	Needles (twelve) No. 14
	3113W	Instruction Book



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

Ref. <u>No.</u>	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	· · · · ·	Oil Well Washer
26		Frame Hinge Pin Oil Backing (wick)
27		Oil Packing (wick) Frame with 202277 and 259660
28	225453	Frame with 202211 and 25,000



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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THREAD UNWINDER

FOR THREE SPOOLS

Ref. No.	Part No.	Description
<u>.</u>		
1	259143	Thread Unwinder (for three spools) complete, Nos. 201696X, 225257, 225259, 225324, 225326, 225388, 259658, three each 150203, 225391 and wood screws 7/8 in., No. 12
2	225324	Rod with 208AL and 225322
3	201696X	Lock Nut
4	225391	Thread Guide
5	225322	Rod Washer
6	225326	Position Cup
7	208AL	Screw
8	228692	Spool Pin
9	228693	Washer
10	201528X	Nut
11	150203	Spool Rest Cushion (felt)
12	225257	Spool Rest (for two spools) (flat) with 201018C, two each 201528X, 228692 and 228693
13	201018C	Set Screw
14	225388	Spool Rest Rod
15	225259	Spool Rest (for one spool) (flat) with 201018C, 201528X, 228692 and 228693
16	200383C	Set Screw
17	259658	Spool Stand with 200383C

MISCELLANEOUS PARTS

USED IN CONJUNCTION WITH THREAD UNWINDER

- 18 225377 Spool Wire (for small spools)
- 19 225390 Thread Cone Holder
- 20 60913 Spool Weight with 60914
- 21 60914 Center Pin
- 22 27739 Thread Cone (wood)





MISCELLANEOUS PARTS USED IN CONJUNCTION WITH THREAD UNWINDER



ACCESSORIES

FEED DOGS AND THROAT PLATES

Ref. No.	Part No.	Description
1	224030	Throat Plate, in gauges $3/32$ to $7/32$ inch
2	203376	Position Pin
3	691F	Screw
4	200161D	Clamp Screw 2010 222627 and 223889 for 224030
-		3629, 223630, 223637 and 223889, for 224030 Feed Dog, 46 needle hole, in gauges 1/8 to 7/32 inch
5	223629	Feed Dog, 40 needle hole, in gauges 1/8 to 7/32 inch
5	223630 223637	Feed Dog, 50 needle hole, in gauges 3/32 to 7/32 inch
5 5	223889	Feed Dog, 53 needle hole, in gauges 3/32 to 3/16 inch
5	200106E	Screw (2)
6 7	223884	Throat Plate, in gauges 1/4 to 13/32 inch
ſ	Nos 22	3628, 223631, 223638 and 223890 , for 223884
8	223628	Feed Dog. 46 needle hole, in gauges 1/4 to 3/8 inch
8	223631	Feed Dog. 40 needle hole, in gauges 1/4 to 13/32 inch
8	223638	Feed Dog. 50 needle hole, in gauges 1/4 to 13/32 inch
8	223890	Feed Dog, 53 needle hole, in gauges 1/4 to 3/8 inch
9	224033	Throat Plate, in gauges 7/16 to 31/32 inch
	Nos.22	3632 to 223634 and 223891, for 224033
10	223632	Feed Dog, 46 needle hole, in gauges 7/16 to 31/32 inch
10	223633	Feed Dog, 40 needle hole, in gauges 7/16 to 31/32 inch
10	223634	Feed Dog, 50 needle hole, in gauges 7/16 to 31/32 inch
10	223891	Feed Dog, 53 needle hole, in gauges 1/2 to 7/8 inch
11	224037	Throat Plate, in gauges 7/16 to 27/32 inch
		4010 and 224011, for 224037 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch
12	224010	Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch
12	224011	Throat Plate, in gauges 3/16 and 7/32 inch
13	224031 Nos 22	3639 223642 and 224007. for 224031
14	223642	Feed Dog. 46 needle hole, in gauges 3/16 and 7/32 inch
14	223639	Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 inch
14	224007	Feed Dog, 53 needle hole, in gauges 3/16 and 7/32 inch
15	224036	Throat Plate, in gauges $1/4$ to $13/32$ inch
	Nos.22	4009 and 224057 for 224036
16	224009	Feed Dog 46 needle hole, in gauges 1/4 to 13/32 inch
16	224057	Feed Dog, 50 needle hole, in gauges $1/4$, $5/16$ and $3/8$ inch

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FEED DOGS AND THROAT PLATES























FEED DOGS AND THROAT PLATES

No. Description 1 224035 Throat Plate, in gauges 1 to 1-1/2 inch 2 200161D Clamp Screw 00376 Position Fin 4 691F Screw Nos. 223635, 223636 and 223641, for 224035 5 23636 Feed Dog, 40 needle hole, in gauges 1 to 1-1/2 inch 5 223636 Feed Dog, 40 needle hole, in gauges 1 to 1-1/2 inch 6 200106E Screw (2) 7 224002 Throat Plate, in gauges 1 to 1-1/2 inch 8 224012 Feed Dog, 40 needle hole, in gauges 1 to 1-1/2 inch 8 224012 Feed Dog, 46 needle hole, in gauges 1 to 1-1/2 inch 8 224013 Feed Dog, 46 needle hole, in gauges 1 to 1-1/2 inch 9 224032 Throat Plate, in gauges 1 /8 to 1-1/2 inch 10 224034 Throat Plate, in gauges 1 /32, 3/64 and 1/16 inch 11 224035 Throat Plate, in gauges 1/32, 3/64 and 1/16 inch 14 224058 Throat Plate with two each 201132D and 237318, in gauges 16 237318 Edge Guide 17 201132D	Ref.	Part	Description
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	No.	No.	
 203376 Position Pin 691F Screw Nos. 223635, 223636 and 223641, for 224035 223635 Feed Dog, 46 needle hole, in gauges 1 to 1-1/2 inch 223636 Feed Dog, 40 needle hole, in gauges 1 to 1-1/2 inch 223636 Feed Dog, 40 needle hole, in gauges 1 to 1-1/2 inch 224029 Throat Plate, in gauges 1 to 1-1/2 inch Nos. 224006 Feed Dog, 40 needle hole, in gauges 1 to 1-1/2 inch 224012 Feed Dog, 50 needle hole, in gauges 1 to 1-1/2 inch 224012 Feed Dog, 46 needle hole, in gauges 1 to 1-1/2 inch 224013 Feed Dog, 46 needle hole, in gauges 1 to 1-1/2 inch 224032 Throat Plate, in gauges 7/8 to 1-1/2 inch 224032 Throat Plate, in gauges 1 to 1-1/2 inch 224032 Throat Plate, in gauges 1 to 1-1/2 inch 224034 Throat Plate, in gauges 1 to 1-1/2 inch 224039 Feed Dog, 40 needle hole, in gauges 1/32, 3/64 and 1/16 inch 14 224038 Feed Dog, 50 needle hole, in gauges 1/32, 3/64 and 1/16 in., for 224034 224038 Throat Plate with two each 201132D and 237318, in gauges 1/8 to 7/32 inch 224039 Throat Plate with two each 201132D and 237318, in gauges 3/16 and 7/32 in., for 224039 224035 Throat Plate with two each 201132D and 237318, in gauges 3/16 and 7/32 in., for 224039 224054 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 in., for 224039 224055 Throat Plate with two each 201132D and 237318, in gauges 1/16 to 27/32 inch 224054 Throat Plate with two each 201132D and 237318, in gauges 1/16 to 27/32 inch 224054 Throat Plate with two each 201132D and 237318, in gauges 1/16 to 27/32 inch 224055 Throat Plate with two each 201132D and 237318, in gauges 1/16 to 27/32 inch 224054 Throat Plate with two each 201132D and 237318, in gauges 1/16 to 27/32 inch <li< td=""><td>1</td><td>224035</td><td></td></li<>	1	224035	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	2	200161D	
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14 224058 Feed Dog, 50 needle hole, in gauges 1/32, 3/64 and 1/16 in., for 224059 15 224038 Throat Plate with two each 201132D and 237318, in gauges 1/8 to 7/32 inch 16 237318 Edge Guide 17 201132D Screw 18 224014 Feed Dog, 46 needle hole, in gauges 1/8 to 3/16 in., for 224038 19 224039 Throat Plate with two each 201132D and 237318, in gauges 3/16 and 7/32 inch 20 224015 Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 27/32 inch 24 224010 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 24 <t< td=""><td>12</td><td>224008</td><td>for 224034</td></t<>	12	224008	for 224034
14 224058 Feed Dog, 50 needle hole, in gauges 1/32, 3/64 and 1/16 in., for 224059 15 224038 Throat Plate with two each 201132D and 237318, in gauges 1/8 to 7/32 inch 16 237318 Edge Guide 17 201132D Screw 18 224014 Feed Dog, 46 needle hole, in gauges 1/8 to 3/16 in., for 224038 19 224039 Throat Plate with two each 201132D and 237318, in gauges 3/16 and 7/32 inch 20 224015 Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 27/32 inch 24 224010 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 24 <t< td=""><td>13</td><td>224059</td><td>Throat Plate, in gauges 1/32, 3/64 and 1/16 inch</td></t<>	13	224059	Throat Plate, in gauges 1/32, 3/64 and 1/16 inch
 15 224038 Throat Plate with two each 201132D and 237318, in gauges 1/8 to 7/32 inch 16 237318 Edge Guide 17 201132D Screw 18 224014 Feed Dog, 46 needle hole, in gauges 1/8 to 3/16 in., for 224038 19 224039 Throat Plate with two each 201132D and 237318, in gauges 3/16 and 7/32 inch 20 224015 Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 24 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in., 			Feed Dog, 50 needle hole, in gauges 1/32, 3/64 and 1/10
 201132D Screw 224014 Feed Dog, 46 needle hole, in gauges 1/8 to 3/16 in., for 224038 224039 Throat Plate with two each 201132D and 237318, in gauges 3/16 and 7/32 inch 224015 Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224039 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 2424011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 24056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in., 	15	224038	Throat Plate with two each 201132D and 237318, in gauges
 17 201132D Screw 18 224014 Feed Dog, 46 needle hole, in gauges 1/8 to 3/16 in., for 224038 19 224039 Throat Plate with two each 201132D and 237318, in gauges 3/16 and 7/32 inch 20 224015 Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch Nos. 224010 and 224011, for 224054 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in., 	16	237318	Edge Guide
 18 224014 Feed Dog, 46 needle hole, in gauges 1/8 to 3/16 in., for 224038 19 224039 Throat Plate with two each 201132D and 237318, in gauges 3/16 and 7/32 inch 20 224015 Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch Nos. 224010 and 224011, for 224054 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 3/4 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in., 		201132D	Screw
3/16 and 7/32 inch 20 224015 Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch Nos.224010 and 224011, for 224054 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in.,		224014	for 224038
 20 224015 Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in., for 224039 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch Nos. 224010 and 224011, for 224054 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in., 	19	224039	3/16 and $7/32$ inch
 21 224053 Throat Plate with two each 201132D and 237318, in gauges 1/4 to 13/32 inch 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch Nos.224010 and 224011, for 224054 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in., 	20	224015	Feed Dog, 50 needle hole, in gauges 3/16 and 7/32 in.,
 22 224009 Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in., for 224053 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch Nos.224010 and 224011, for 224054 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in., 	21	224053	Throat Plate with two each 201132D and 237318, in gauges
 23 224054 Throat Plate with two each 201132D and 237318, in gauges 7/16 to 27/32 inch Nos.224010 and 224011, for 224054 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in., 	22	224009	Feed Dog, 46 needle hole, in gauges 1/4 to 13/32 in.,
Nos.224010 and 224011, for 224054 24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224010 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in.,	23	224054	Throat Plate with two each 201132D and 237318, in gauges
24 224010 Feed Dog, 50 needle hole, in gauges 7/16 to 3/4 inch 24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 inch 25 224056 Throat Plate with two each 201132D and 237318, in gauges 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in.,		Noe 2	24010 and 224011 for 224054
24 224011 Feed Dog, 46 needle hole, in gauges 7/16 to 27/32 men 25 224056 Throat Plate with two each 201132D and 237318, in gauges 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in.,	<u>91</u> ,		Feed Dog 50 needle hole, in gauges 7/16 to 3/4 inch
25 224056 Throat Plate with two each 201132D and 237318, in gauges 7/8 to 1-3/8 inch 7/8 to 1-3/8 inch 26 224055 Feed Dog, 46 needle hole, in gauges 7/8 to 1-3/8 in.,			Feed Dog 46 needle hole, in gauges (/16 to 21/32 men
7/8 to $1-3/8$ inch 26 224055 Feed Dog, 46 needle hole, in gauges $7/8$ to $1-3/8$ in.,			Throat Plate with two each 201132D and 237318, in gauges
26 224055 Feed Dog, 46 needle hole, in gauges $7/8$ to $1-3/8$ in.,	40		7/8 to $1-3/8$ inch
	26	224055	Feed Dog, 46 needle hole, in gauges $7/8$ to $1-3/8$ in.,

FITTINGS FEED DOGS AND THROAT PLATES











FOOT LIFTER AND MACHINE PULLEYS MACHINE PULLEYS

Ref. <u>No.</u>	Part No.	Description
1 2	267175 267174	Machine Pulley 267174 with 270004 Machine Pulley for "V" belt (outside diam.of belt groove 2.9 in.) (rim diam.4 in.) with 350540C and 350541C
3 4 5 6 7	350541C 350540C 270004 267283 267282	Set Screw Position Screw Arm Shaft Ball Bearing (back) Machine Pulley 267282 with 270004 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		Foot Lifter Lever complete, Nos. 225016, 227678, 227939 and 227952
9	227678	Chain, 48 in. long, with 202784
ío	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



FITTINGS FOOT LIFTER AND MACHINE PULLEYS

		54
		FITTINGS
Ref.	Part	PRESSER FEET
No.	No.	Description
1	224060	Presser Foot, for $1/32$ in.gauge, needles $1/8$ in.apart
2	224166	Presser Foot, 50 needle hole, in gauges 1/8 to 1/2 inch
3	224185	Presser Foot, 50 needle hole, in gauges $1/8$ to $5/16$ inch,
-		for strip work
4	224176	Presser Foot, adjustable from $3/32$ to $7/32$ in., with two
-		224175 and four 200172X, for inside staying
5	224175	Needle Guide
6	200172X	Screw
7	224170	Presser Foot, 46 needle hole, in gauges $1/2$, $3/4$ and
•	2212	1-11/16 in., for strip work
8	224165	Presser Foot, 53 needle hole, in gauges 1/8 to 1/2 in., with 200172X and 229541
9	229541	Spring Guide, in gauges $1/8$ to $1/2$ inch
10	248458	Presser Foot with Spring Guide complete, in gauges 3/16 to
10	210190	1/4 in Nos 201031F, 248453, 248457 and 248508
11	248457	Presser Foot, 53 needle hole, in gauges $3/16$ to $1/4$ inch
12	350422X	Spring Guide Screw Stud
13	201535E	Nut
14	248453	Spring Guide Bracket with 201535E and 350422X
15	201031F	Presser Foot Screw
16	248508	Spring Guide
17	248956	Presser Foot (hinged) with Spring Guide complete, in gauges
		3/16 to 1/4 in., Nos. 201031F and 248451 to 248453 Presser Foot (hinged) complete, 53 needle hole, in gauges
18	248451	3/16 to $1/4$ in., Nos. 226080, 230795, 248450 and 248455
19	248455	Shank
20	226 080	Spring
21	230795	Hinge Pin
22	248450	Plate
23	248452	Spring Guide
24	223695	Presser Foot (hinged) complete, 50 needle hole, in gauges 1/8 to 5/16 in., Nos. 223309, 223694 and 230795, for lap seam felling
	00115/	Presser Foot (hinged) complete, 53 needle hole, in gauges
24	224156	1/8 to 5/16 in., Nos. 223309, 224155 and 230795, for lap seam felling
25	223309	Shank
26	223694	Plate
26	224155	Plate
20	223755	Presser Foot (hinged) complete, 50 needle hole, in gauges
21		11/32 to 7/16 in., Nos. 223309, 223754 and 230795, for lap seam felling
28	223754	Plate
29	224064	Presser Foot (hinged) complete, 50 needle hole, in gauges 15/32 to 5/8 in., Nos. 223309, 224063 and 230795, for lap seam felling
30	224063	Plate
31	224 070	Presser Foot (hinged) complete, 50 needle hole, in gauges 21/32 to 3/4 in., Nos. 223309, 224069 and 230795, for lap seam felling
29	221060	Plate

32 224069 Plate

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55 FITTINGS PRESSER FEET



Ref. No.	Part No.	Description
1	224127	Presser Foot (hinged) complete, 50 needle hole, needles 1/8 in. apart, in gauges 1/32, 3/64, 1/16 and 3/32 in., Nos. 223309, 224126 and 230795
2	223309	Shank
3	230795	Hinge Pin
4	224126	Plate
5	224187	Plate Presser Foot (hinged) complete, 53 needle hole, in gauges 3/32 to 3/16 in., Nos. 223309, 224186 and 230795 Presser Foot (hinged) complete, 50 needle hole, in gauges
5	224158	3/32 to $3/16$ in., Nos. 223309, 224157 and 250795
6	224186	Plate
6	224157	Plate
7	224189	Plate Presser Foot (hinged) complete, 46 needle hole, in gauges 1/8 to 3/16 in., Nos. 223309, 224188 and 230795
8	224188	Plate
9	223759	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 7/32 to 5/16 in., Nos. 223309, 223758 and 230795
10	223758	Plate
11	224174	Presser Foot (hinged) complete, 50 needle hole, in gauges 3/16 to 5/16 in., Nos. 223309, 224173 and 230795
12	224173	Plate
13	224169	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 11/32 to 5/8 in., Nos. 223309, 224168 and 230795
14	224168	Plate
15	224068	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 31/32 to 1-1/16 in., Nos. 223309, 224067 and 230795
16	224067	Plate
17	224086	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 1-3/32 to 1-3/16 in., Nos.223309,224085 and 230795
18	224085	Plate
19	224088	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 1-7/32 to 1-7/16 in., Nos. 223309, 224087 and 230795
20	224087	Plate
21	224078	Presser Foot (hinged) complete, 50 needle hole, in gauges 1-15/32 and 1-1/2 in., Nos. 223309, 224077 and 230795
21	224125	Presser Foot (hinged) complete, 46 needle hole, in gauges 1-15/32 and 1-1/2 in., Nos. 223309, 224124 and 230795
22	224077	Plate
$22^{$	224124	Plate $(1, 1, 2)$ by $1 \ge 1 $
23	224178	Plate Presser Foot (hinged) complete, 40 needle hole, in 1-1/4 in.gauge, Nos. 223309, 224177 and 230795
24	224177	Plate



Ref. No.	Part No.	Description
1	22 4066	Presser Foot (hinged) complete, 53 needle hole, in gauges 3/32 to 3/16 in., Nos. 223309, 224065 and 230795, for lap seam felling
2	223309	Shank
3	230795	Hinge Pin
4	224065	Plate
5	224191	Presser Foot (hinged) complete, 50 needle hole, in gauges 1/8 to 3/16 in., Nos. 223309, 224190 and 230795
5	224172	Presser Foot (hinged) complete, 53 needle hole, in gauges 1/8 to 3/16 in., Nos. 223309, 224171 and 230795
6	224190	Plate
6	224171	Plate
7	224184	Presser Foot (hinged) complete, 53 needle hole, in gauges 1/8 to 3/16 in., Nos. 223309, 224183 and 230795, for felling
8	224183	Plate
9	224072	Presser Foot (hinged) complete, 50 needle hole, in gauges 7/32 to 5/16 in., Nos. 223309, 224071 and 230795
10	224071	Plate
11	224164	Presser Foot (hinged) complete, 50 needle hole, in gauges 15/32 to 5/8 in., Nos. 223309, 224163 and 230795
12	224163	Plate
13	224074	Presser Foot (hinged) complete, 50 needle hole, in gauges 11/32 to 7/16 in., in Nos. 223309, 224073 and 230795
14	224073	Plate
15	224076	Presser Foot (hinged) complete, 50 needle hole, in gauges 21/32 to 3/4 in., Nos. 223309, 224075 and 230795
15	224182	Presser Foot (hinged) complete, 53 needle hole, in gauges 21/32 to 3/4 in., Nos. 223309, 224181 and 230795
16	224075	Plate
16	224181	Plate
17	223797	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 5/16 to 1-1/2 in., Nos. 223309, 223796 and 230795, for shirt facing
18	223796	Plate



PRESSER FEET

















Ref. No.	Part No.	Description						
1	223799	Presser Foot (hinged) complete, 50 needle hole, in gauges 5/32 and 3/16 in., Nos. 223309, 223798 and 230795, for shirt facing						
2	223309	Shank						
3	223798	Plate						
ų	230795	Hinge Pin						
5	224062	Presser Foot (hinged) complete, 50 needle hole, in gauges 7/32 to 5/16 in., Nos. 223309, 224061 and 230795						
5	223747	Presser Foot (hinged) complete, 46 needle hole, in gauges 7/32 to 5/16 in., Nos. 223309, 223746 and 230795						
6	224061	Plate						
6	223746	Plate						
7	224080	Presser Foot (hinged) complete, 50 needle hole, in gauges 11/32 to 7/16 in., Nos. 223309, 224079 and 230795						
7	223699	Presser Foot (hinged) complete, 46 needle hole, in gauges 11/32 to 7/16 in., Nos. 223309, 223698 and 230795						
8	224079	Plate						
8	223698	Plate						
9	224082	Presser Foot (hinged) complete, 50 needle hole, in gauges 15/32 to 9/16 in., Nos. 223309, 224081 and 230795						
9	223749	Presser Foot (hinged) complete, 46 needle hole, in gauges 15/32 to 9/16 in., Nos. 223309, 223748 and 230795						
10	224081	Plate						
10	223748	Plate						
11	224084	Prate Presser Foot (hinged) complete, 50 needle hole, in gauges 19/32 and 5/8 in., Nos. 223309, 224083 and 230795						
11	223745	Presser Foot (hinged) complete, 46 needle hole, in gauges 19/32 and 5/8 in., Nos. 223309, 223744 and 230795						
12	224083	Plate						
12	223744	Plate						
13	223771	Presser Foot (hinged) complete, 50 needle hole, in gauges 21/32 to 3/4 in., Nos. 223309, 223770 and 230795						
13	223751	Presser Foot (hinged) complete, 46 needle hole, in gauges 21/32 to 3/4 in., Nos. 223309, 223750 and 230795						
14	223770	Plate						
14	223750	Plate						
15	224133	Plate Presser Foot (hinged) complete, 50 needle hole, in gauges 25/32 to 15/16 in., Nos. 223309, 224132 and 230795						
15	223786	25/32 to 15/16 in., Nos. 223309, 223785 and 230795 25/32 to 15/16 in., Nos. 223309, 223785 and 230795						
16	224132	Plate						
16	223785	Plate						

PRESSER FEET















Ref. No.	Part No.	Description
1	223697	Presser Foot (hinged) complete, 40 needle hole, in gauges 1/4 to 7/16 in., Nos. 223309, 223696 and 230795, for overall felling and other heavy material
2	223309	Shank
3	230795	Hinge Pin
4	223696	Plate I all the second se
5	224129	Presser Foot (hinged) complete, 40 needle hole, in gauges 1/4 to 7/16 in., Nos. 223309, 224128 and 230795
6	224128	Plate () have been blacked in course
7	224131	Presser Foot (hinged) complete, 40 needle hole, in gauges 15/32 to 5/8 in., Nos. 223309, 224130 and 230795
8	224130	Plate
9	223773	Presser Foot (hinged) complete, 50 needle hole, in gauges 1/8 to 5/16 in., Nos. 223309, 223772 and 230795, for lap seam felling
10	223772	Plate
11	224135	Presser Foot (hinged) complete, 46 needle hole, in gauges 1/8 to 5/16 in., Nos. 223309, 224134 and 230795, for patch pocket work
12	224134	Plate 50 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
13	225285	Presser Foot (hinged) complete, 50 needle hole, in gauges 11/32 to 1-1/2 in., Nos. 223309, 225284 and 230795
14	225284	Plate













STRIP REELS AND STRIP TENSION DEVICE STRIP REELS

ATTACHED TO THE TOP OF THE ARM

Ref. <u>No.</u>	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 200292C
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

STRIP REELS AND STRIP TENSION DEVICE



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NUMERICAL LIST OF PARTS

Part	Page	Part	Page	Part	Page	Part	Page
		No.	No.	No.	No.	No.	No.
No.	No.	NO.	1.0.				L
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