Check us out at singermachines.co.uk for free sewing machine manuals
USE ONLY
SINGER
“MANUFACTURING SEWING MACHINE OIL
(Cloth and Leather)”
for general use
or
“MANUFACTURING SEWING MACHINE OIL
(Stainless for White Goods)”
where a stainless oil is desired.

These specially prepared oils are the result of extensive research. They ensure freedom from lubricating trouble and give longer life to sewing machines.

THE IMPORTANCE OF USING
SINGER NEEDLES FOR
SEWING MACHINES

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

Singer Needles can be purchased from any Singer Shop for the Manufacturing Trade.

Genuine Singer Needles should be used in Singer Machines.
These Needles and their Containers are marked with the Company’s Trade Mark “SIMANCO.”

Needles in Containers marked “For Singer Machines” are not Singer made needles.

DESCRIPTION

Machine 95-40 makes the lock stitch and is designed for sewing light and medium weight fabrics at high speed. It has a gear driven rotary hook.

Speed

The maximum speed recommended for Machine 95-40 is 4000 stitches per minute, depending on the material being stitched. The machine should be run at a speed of about 3500 stitches per minute until the parts which are in movable contact have become glazed by their action upon each other.

To all whom it may concern:

The placing or renewal of the name “Singer” (Reg. U. S. Pat. Off.) or any of the trade marks of The Singer Manufacturing Company 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.
To Oil the Machine

This machine is equipped with a lubricating system which is designed to use oil instead of grease for the lubrication of the hook driving gears at E and F, Figs. 3 and 4.

**Fig. 2. Oiling Points at Front of Machine**

Use Only Singer “Manufacturing Sewing Machine Oil (Cloth and Leather)” for general use or “Manufacturing Sewing Machine Oil (Stainless for White Goods)” where a stainless oil is desired.

Oil should be applied at the places indicated by arrows in Figs. 2, 5 and 6, and when the machine is in continuous use it should be oiled at least four times each day. All wicking must be kept saturated with oil.

**Fig. 3. Gear Cases for Hook Driving Gears**

Oil should be regularly applied to the bobbin case holder bearing in the sewing hook race.
Needles

Needles for Machine 95-40 are of Class and Variety 88 x 1, and are furnished in sizes 9, 11, 14, 16, 17 and 18.

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. If rough or uneven thread is used, or if it passes with difficulty through the eye of the needle, the successful use of the machine will be interfered with.

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. 14, 88 x 1 Needles."

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

Thread

Left twist thread should be used in the needle. Either right or left twist thread can be used in the bobbin.

**Fig. 7. HOW TO DETERMINE THE TWIST**

Hold the thread as shown above. 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.

Relative Sizes of Needles and Thread

The following sizes of needles and thread are recommended according to the class of work:

<table>
<thead>
<tr>
<th>SIZES OF NEEDLES</th>
<th>CLASSES OF WORK</th>
<th>SIZES OF COTTON AND SILK</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Very Fine Work</td>
<td>90 to 100 Cotton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>00 Silk</td>
</tr>
<tr>
<td>11</td>
<td>Mulls, Japanese Silk, Chiffon, etc.</td>
<td>80 to 90 Cotton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>O Silk</td>
</tr>
<tr>
<td>11</td>
<td>Shirtings, Sheetings, Calicoes, Muslins, Silks, Dress Goods and all classes of general work</td>
<td>60 to 80 Cotton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A and B Silk</td>
</tr>
<tr>
<td>16 and 17</td>
<td>All kinds of heavy Calicoes, light Wooden Goods, heavy Silk, Seaming, Stitching, etc.</td>
<td>40 to 60 Cotton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C Silk</td>
</tr>
<tr>
<td>18</td>
<td>Ticking, Upholstery, Wooden Goods, Trusses, Boys' Clothing, Cloth, etc.</td>
<td>30 to 40 Cotton</td>
</tr>
</tbody>
</table>

To Ensure Perfect Action of the Machine

The balance wheel must always turn over toward the operator.

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

Do not run the machine when both bobbin case and needle 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 needle; the machine feeds the work without assistance.

The slide over the bobbin case should be kept closed when the machine is in operation.
To Remove the Bobbin

Turn the balance wheel over toward you until the needle moves up to its highest point. Draw out the slide in the bed of the machine, reach down with the thumb and forefinger of the left hand, open the bobbin case latch (1, Fig. 8) with the thumb and lift out the bobbin case. While the latch remains open, the bobbin is retained in the bobbin case. Release the latch, turn the open end of the bobbin case downward and the bobbin will drop out.

To Wind the Bobbin

(Fig. 9)

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.

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 and between the tension discs (2). Then wind the end of the thread around the bobbin a few times, 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 this screw outwardly.

Bobbins can be wound while the machine is stitching.
To Thread the Bobbin Case

Hold the bobbin between the thumb and forefinger of the right hand, as shown in Fig. 10; the thread drawing on the bottom from the left toward the right.

With the left hand hold the bobbin case as shown in Fig. 10; the slot in the edge being near the top, and place the bobbin into it.

Then pull the thread into the slot in the edge of the bobbin case as shown in Fig. 11; draw the thread under the tension spring and into the delivery eye at the end of the tension spring (see Fig. 12).

To Replace the Bobbin Case

After threading, take the bobbin case by the latch, holding it between the thumb and forefinger of the left hand, place the bobbin case on the centre stud (2, Fig. 8) of the bobbin case holder, release the latch and press the bobbin case back until the latch catches the groove near the end of the stud (see Fig. 8). Allow about two inches of thread to hang free and replace the slide in the bed of the machine.

To Set the Needle

Turn the balance wheel over toward you until the needle bar moves up to its highest point; loosen the screw in the lower end of the needle bar and put the needle up into the bar as far as it will go, with the long groove of the needle toward the left and the eye of the needle directly in line with the arm of the machine, then tighten the screw.
Upper Threading

Pass the thread from the unwinder, or from the spool on the
spool pin on the top of the machine, from right to left through

the top hole (1) in the thread retainer, from left to right through
the centre hole (2) in the thread retainer, and from right to left
through the bottom hole (3) in the thread retainer, down under
from right to left between the tension discs (4), into the thread
take-up spring (5), under the slack thread regulator (6), up and
back of the wire thread guide (7), up and from right to left through
the hole in the end of the thread take-up lever (8), down through
the thread guide (9), down through the thread eyelet (10), into
the thread guide (11), and from left to right through the eye of
the needle (12). Draw about two inches of thread through the
eye of the needle with which to commence sewing.

To Prepare for Sewing

With the left hand hold the end of the needle thread, leaving
it slack from the hand to the needle, turn the balance wheel over
toward you until the needle moves down and up again to its
highest point, thus catching the bobbin thread; draw up the
needle thread and the bobbin thread will come up with it through
the hole in the throat plate (see Fig. 15). Lay both threads back
under the presser foot.

To Commence Sewing

Place the material beneath the presser foot, lower the presser
foot and commence to sew, turning the balance wheel over
toward you.

To Remove the Work

Let the thread take-up lever rest at its highest point, raise the
presser foot, draw the work back and cut the threads close
to the goods.
Tensions

For ordinary stitching, the needle and bobbin threads should be locked in the centre of the thickness of the material, thus:

Fig. 16. 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. 17. 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. 18. Loose Needle Thread Tension

To Regulate the Tensions

The tension on the needle thread should only be regulated when the presser foot is down. Having lowered the presser foot, turn the small thumb nut (C, Fig. 2) at the front of the tension discs over to the right to increase the tension. To decrease the tension, turn this thumb nut over to the left.

The tension on the bobbin thread is regulated by the large screw (FF, Fig. 10) in the tension spring on the outside of the bobbin case. To increase the tension, turn this screw over to the right. To decrease the tension, turn this screw over to the left.

When the tension on the bobbin thread has been once properly adjusted, it is seldom necessary to change it, as a correct stitch can usually be obtained by varying the tension on the needle thread.

To Regulate the Length of Stitch

The length of stitch is regulated by the thumb screw (B, Fig. 2) in the slot on the front of the upright part of the arm. To lengthen the stitch, loosen this thumb screw and move it downwardly. To shorten the stitch, loosen this thumb screw and move it upwardly. When the desired length of stitch has been obtained, tighten the thumb screw (B).

To Regulate the Pressure on the Material

The pressure on the material is regulated by the thumb screw (D, Fig. 2). To increase the pressure, turn this thumb screw over to the right. To decrease the pressure, turn this thumb screw over to the left.

Genuine Singer Needles should be used in Singer Machines. These Needles and their Containers are marked with the Company's Trade Mark “SIMANCO.”

Needles in Containers marked “For Singer Machines” are not Singer made needles.
To Set the Needle Bar at the Correct Height

See that the needle is pushed up into the needle bar as far as it will go, then remove the face plate.

Fig. 19. Showing Needle Bar Set at the Correct Height

The needle bar which is in the machine when shipped from the factory has two timing marks near its upper end.

Turn the balance wheel over toward you, until the needle bar moves down to its lowest point. When the needle bar is in this position, the **upper timing mark** on the needle bar should be centred with the lower end of the needle bar bushing, as shown at D, in Fig. 19.

In case the needle bar is not set at the correct height, loosen the screw (E, Fig. 19) in the needle bar connecting stud and move the needle bar up or down until the **upper timing mark** is centred with the lower end of the needle bar bushing, as shown at D, in Fig. 19, then securely tighten the screw (E).

To Time the Sewing Hook

Remove the slide plate and bobbin case. Take out the screw (G, Fig. 20) and remove the bobbin case holder position bracket (H, Fig. 20). Take out the three screws (N, Fig. 21) and remove the rotating hook section (O, Fig. 21) and bobbin case holder (P, Fig. 21). This will give a clear view of the point of the hook and the needle for the purpose of timing.

Fig. 20. View of Underside of Machine
Showing Bobbin Case Holder Position Bracket (H) and Adjustments on Machine

Fig. 21. Sewing Hook with Bobbin Case Holder
To determine whether the hook is correctly timed, see that a new needle is set in the machine, then turn the balance wheel over toward you until the lower timing mark on the needle bar is centered with the lower end of the needle bar bushing, as shown at Q, in Fig. 22, when the needle bar is on its upward stroke. When the needle bar is in this position, the point of the hook should be at the center of the needle, as shown at R, in Fig. 22.

In case the hook is not correctly timed, loosen the three screws (L, Fig. 20) in the hub of the hook and turn the hook on the shaft until the point of the hook is at the center of the needle, as shown at R, in Fig. 22, then tighten the three screws (L).

The hook should be set as close as possible to the needle without touching. If the hook is too close to the needle or too far away from it, loosen the three screws (L, Fig. 20) and the bushing screw (J, Fig. 20) and drive the bushing (K, Fig. 20) in or out, as may be required, until the hook just clears the needle, being very careful not to damage the bushing, then securely tighten the bushing screw (J) and the three screws (L).

To Remove and Replace the Sewing Hook

Remove the needle, slide plate and bobbin case. Take out the screw (G, Fig. 20) and remove the bobbin case holder position bracket (H, Fig. 20). Loosen the three set screws (L, Fig. 20) in the hub of the hook, then turn the balance wheel over toward you until the feed bar (S, Fig. 23) is raised to its highest point. Turn the sewing hook until the thread guard (U, Fig. 23) is at the bottom, as shown in Fig. 23, and turn the bobbin case holder (P, Fig. 23) until it is in the position shown in Fig. 23. The sewing hook can then be removed from the hook shaft.

When replacing a new sewing hook on the shaft, have the thread guard (U) of the hook at the bottom and the bobbin case holder (P) turned to the position shown in Fig. 23, so that the hook will clear the feed bar (S).

When the hook is in position on the shaft, turn the bobbin case holder (P, Fig. 23) until the notch (T, Fig. 23) is at the top, then replace the bobbin case holder position bracket (H, Fig. 20), being careful to see that the position stud (M, Fig. 20) enters the notch at the top of the bobbin case holder, as shown in Fig. 20,
then securely fasten the position bracket by means of the screw (G, Fig. 20). Replace the needle and time the sewing hook as instructed on pages 17 and 18. When tightening the three screws (L, Fig. 20) in the hub of the hook, draw the hook shaft toward the needle bar end of the machine and press the hook toward the balance wheel so as to take up the end play in the shaft. Then replace the bobbin case and slide plate.

**To Remove and Replace the Sewing Hook Shaft**

Remove the sewing hook as instructed on page 19. Take out the screw (V, Fig. 24) and remove both sections of the gear case (W, Fig. 24), then wipe the grease away from the gears.

![Fig. 24. View of Underside of Machine, Showing Gear Case](image)

Before removing the hook shaft (X, Fig. 25) from the machine, the gears (Y and Z, Fig. 25) should be marked, using chalk or a red pencil to mark one of the teeth of the gear (Y) and the space of the gear (Z) in which the marked tooth meshes. This is important, as the gears may become dislodged when removing the hook shaft, and the marks will enable you to retain the original relative positions of the gears.

To remove the hook shaft, loosen the two set screws in the gear (Y, Fig. 25), then insert the new hook shaft into the gear (Y), from the right hand end, pushing the old shaft out of the gear toward the needle bar by means of the new shaft, as shown in Fig. 25. By removing the old shaft in this manner, the relative positions of the gears (Y and Z) will not be disturbed. When placing the new shaft in position in the machine, see that the flat portion near one end of the shaft is at the right so that one of the set screws in the gear (Y, Fig. 25) will bear against it when the gear is fastened in position on the shaft. The shaft should be set so that its left end is flush with the body of the sewing hook as shown at F, in Fig. 19. It is advisable to remove the rotating hook section as instructed on page 17, and take out the bobbin case holder so that you can see whether the end of the shaft is flush with the body of the hook. When the shaft is correctly positioned, securely tighten the two set screws in the gear (Y), taking care that one of the screws bears against the flat portion of the shaft. Then time the sewing hook as instructed on pages 17 and 18, and replace the bobbin case holder and rotating hook section. Replace the gear case and securely fasten it in position by means of the screw (V, Fig. 24).
To Adjust the Thread Take-up Spring

The thread take-up spring (CC, Fig. 26) should be set so that when the eye of the needle reaches the goods on the downward stroke of the needle bar, the spring will be through acting and will rest against the stop on the thread take-up spring regulator. If the thread take-up spring is not correctly set, as instructed above, loosen the set screw (DD, Fig. 26) in the arm of the machine, and turn the tension stud (EE, Fig. 26) to the right for more movement of the spring or to the left for less movement. When the spring is correctly set, securely tighten the set screw (DD).

The tension on the thread take-up spring (CC) is regulated by turning the tension stud (EE) to the right to increase the tension, or to the left to decrease the tension. The tension on the thread take-up spring should be just sufficient to take up the slack of the needle thread until the eye of the needle reaches the goods in its descent.

Timing of the Feeding Mechanism

When the machine leaves the factory, the feed eccentric is correctly set by having the timing screw in the eccentric enter the groove in the arm shaft. If, for any reason, it may be necessary to alter the timing of the feed eccentric, loosen the timing screw and the set screw, turn the eccentric as required and tighten the set screw only.

Purchasing of Parts and Needles

Supplies of parts and needles for Singer machines can be purchased at any Singer Shop for the Manufacturing Trade or ordered by mail. If orders are sent by mail, money or a post office order covering their value, including postage, should be enclosed and the order will then be promptly filled and forwarded by mail or express.