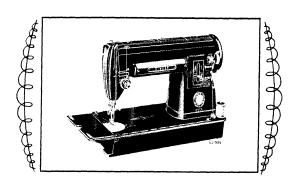
# SINGER'301

# SLANT NEEDLE SEWING MACHINE



.... represents the ultimate in sewing machine design and styling. A product of the matchless skill and engineering ability of **SINGER** craftsmen, the **SINGER** 301 is an outstanding addition to our long line of unexcelled Sewing Machines.

Form 20542 (Rev. 7-76)

Printed in U.S.A.





### 2

# AS THE OWNER OF THIS ENTIRELY NEW SINGER SEWING MACHINE:

You have a machine revolutionary in design, but made with the same care and craftsmanship that have been the hallmark of SINGER Machines for more than a century. We are acutely aware that SINGER Sewing Machines have become an American tradition and are intensely proud of, and determined to continue, this heritage.

Your SINGER "301" is the product of this pride, determination and the unsurpassed technical skill of SINGER. This smooth-running machine-of-tomorrow will amaze and thrill you with its versatility and ease of operation.

Utilize all the advanced features, combine them with your own skill and discover a new world of sewing enjoyment. Exclusive

dresses for yourself, clothing for your family and a multitude of items for your home will be yours — all at a fraction of their ready-made cost.

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#### WHAT SINGER SERVICE MEANS TO YOU

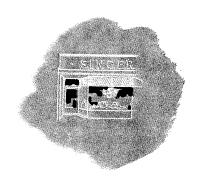
Over 1400 SINGER SEWING CENTERS in the United States alone are fully equipped to serve women who sew.

There you'll find a wide selection of PATTERNS, BUTTONS, THREAD, and FINISHING SERVICES which include COVERING BUTTONS, BELTS AND BUCKLES, making BUTTONHOLES, HEMSTITCHING, etc., plus:

You are entitled to sewing lessons when you become the owner of a new SINGER. A skilled, SINGER-trained teacher personally guides you and assists you in learning the fundamentals of home sewing. Other courses embracing all phases of home sewing are available at low cost.

REPAIR SERVICE is as convenient as your telephone. Whenever your machine needs adjustments, a trained, courteous SINGER representative will gladly call at your home. SINGER\* Service assures excellent workmanship, guaranteed repairs, and SINGER\* parts. A written estimate is given you in advance for approval.

And remember, your SINGER SEWING CENTER and the ever ready SINGER Service Car can be easily identified by the famous SINGER red "S" Trade Mark.





1

# SINGER 301 FEATURES "AT YOUR SERVICE"

- SMOOTHER STITCHING than ever before is possible with this new, gear-driven, lock-stitch machine.
- QUIET, fast and efficient it whispers at high speeds.
- FULL-VIEW work area. Inclined Needle Bar places work in your direct line of vision.
- PERFECT CONTROL even at "hand-stitch" speeds.
- •BALANCED MOTION of the new SINGER 301 prevents vibration.
- EASY STARTING No coaxing necessary lightly press the knee or foot control and your 301 starts to sew.
- SIMPLE THREADING no complicated diagrams are needed.

- REVERSIBLE FEED for sewing either in a forward or backward direction—easy to back tack and to fasten ends of seams.
- PREFOCUSED LIGHT illuminates working area—prevents eye strain.
- CALIBRATED STITCH REGULATOR permits finger-tip control of stitch length.
- STITCHING GUIDES, with graduated markings to guide seam width and turn square corners.
- VERSATILE use it as a portable or cabinet machine.
- EASY TO CARRY convenient handle is concealed in top of head.
- LIGHT WEIGHT full-sized aluminum head weighs only 16 pounds.

- SELF-SETTING NEEDLE makes it impossible to insert needle incorrectly in clamp.
- FEED THROW-OUT DEVICE permits darning and embroidering without attachments.
- RECESSED BOBBIN WINDER—equipped with automatic stop it can't break or tangle your thread.
- HINGED BED EXTENSION permits quick and easy removal of bobbin.
- HINGED FACE PLATE—Simplifies cleaning and oiling.
- DIAL TENSION takes the guess work out of upper tension setting.
- FLEXIBLE SPOOL PINS bend but do not break—thread unreels smoothly and easily.
- COMPLETELY ENCLOSED motor and principal working parts insure maximum safety.

#### **ELECTRICAL INFORMATION**

### The SINGER\* electric motor

in your sewing machine is furnished for operation on an alternating current of 110-120 volts, 25 to 75 cycles, or on 110-120 volts direct current. Special motors can be provided through your SINGER SEWING CENTER for direct or alternating current for any volt-

age between 20 and 250, and for 32 volts direct current.

#### Before Inserting Electric Plug-

be sure that the voltage and the number of cycles stamped on the motor nameplate are within the range marked on your electric meter installed by your power company.

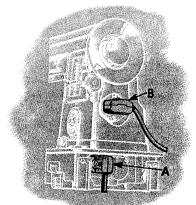


Fig. 1. Electrical Connections for Machine

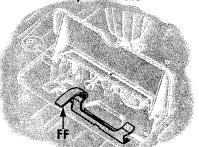


Fig. 2. Showing Latch for Releasing Machine from Cabinet

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# ELECTRICAL CONNECTIONS FOR MACHINE

Push 2-pin terminal plug A, Fig. 1 on 2-pin terminal block at right end of bed.

Push 3-pin terminal plug B, Fig. 1 on 3-pin terminal block at right of machine and connect plug at other end of cord to electrical outlet.

# Speed Controller

The speed of machine is regulated by amount of pressure on the pedal of the foot controller or the knee lever.

# TO USE THE 301 AS A PORTABLE MACHINE

To remove the machine from the cabinet, disconnect the 3-pin terminal plug B, Fig. 1, lift handle C, Fig. 3, raise bed extension at left, depress latch FF, Fig. 2, and lift out machine. Disconnect 2-pin terminal plug A, Fig. 1 and set machine aside. Then remove controller from its holder in cabinet by pulling it downward. With machine set on a suitable surface near an electrical outlet, reconnect 2-pin and 3-pin terminals and place foot controller on floor.

#### HANDLE FOR CARRYING MACHINE

To use handle C, turn it up, as shown in Fig. 3. When not in use, turn handle down. CAUTION: When you have finished your sewing, always disconnect plug from electrical outlet.

#### TO REPLACE MACHINE IN CABINET

Disconnect both terminal plugs. Grasping handle C, Fig. 3, place machine in cabinet so that holes MM, Fig. 3A, fit over studs NN in machine cradle. Press down on left end of machine until latch FF, Fig. 2, snaps into position to hold machine in place. Tilt back ma-

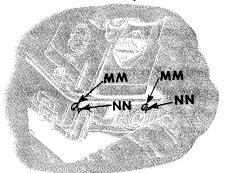


Fig. 3A. To Replace Machine in Cabinet

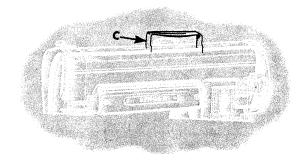


Fig. 3. Showing Handle for Carrying Machine chine with cradle, install controller in side of cabinet as shown in Fig. 3B, then connect 2-pin terminal. Lower machine to sewing position and connect 3-pin terminal.

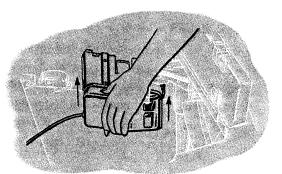


Fig. 3B. Replacing Controller in Cabinet

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#### LIGHT

The Light is turned "on" or "off" by the switch F, Fig. 4.

To Remove Bulb. Remove two screws D and lamp cover E. Do not attempt to unscrew bulb. Press it into socket and at same time turn bulb over in direction shown in Fig. 4B to unlock bulb pin G, then withdraw bulb.

To Replace Bulb. Press new bulb into socket with bulb pin G, Fig. 4A entering slo of socket and turn it over in direction show in Fig. 4B to lock bulb pin G in position. Replace lamp cover E and securely fasten it in position with two screws D.

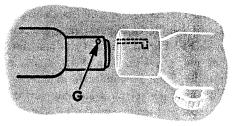


Fig. 4A.

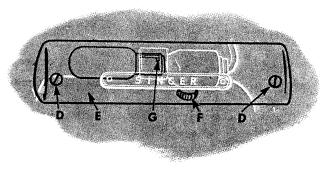


Fig. 4. Replacing the Bulb

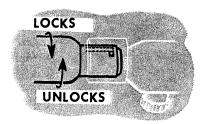


Fig. 4B.

#### **NEEDLES AND THREAD**

For perfect stitching, thread should be selected according to fabric to be stitched and needle must be correct size for thread which must pass freely through eye of needle.

#### TO SET THE NEEDLE

Select correct needle according to table on page 70. Be sure that needle is not blunt or bent. Raise needle bar to its highest position and loosen thumb screw **H** in needle clamp. Push needle with its flat side to left up into needle clamp as far as it will go, then tighten thumb screw. As the needle is self-setting, it cannot be inserted incorrectly in the needle clamp.

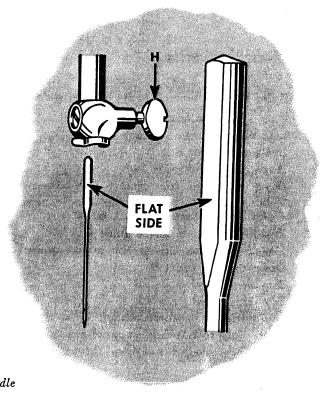
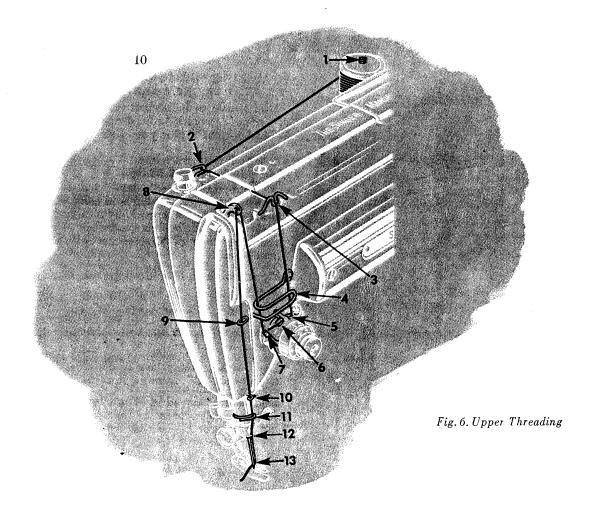


Fig. 5. Setting the Needle



#### UPPER THREADING

See Figs. 6 and 7

#### Raise take-up lever 8 to its highest point.

Place spool of thread on spool pin 1 Lead thread into thread guide 2

Into thread guide 3

Down into thread guide 4

Down, under and from right to left between tension discs 5 Hold spool tightly and pull thread up against take-up spring

7 until it enters retaining fork 6

Pass thread up into thread guide 4

From right to left through hole in take-up lever 8

Down through eyelet 9

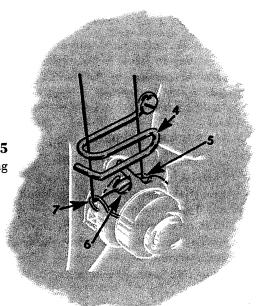
Into wire thread guide 10

Into wire thread guide 11

Into guide 12 on needle clamp

From right to left through eye of needle 13.

Draw about two inches of thread through eye of needle.



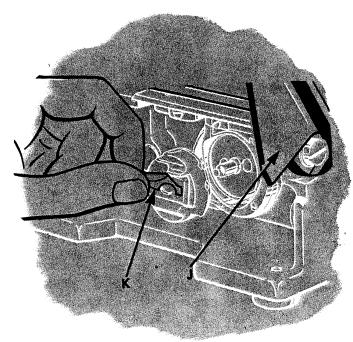


Fig. 8. Removing the Bobbin Case

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#### TO REMOVE THE BOBBIN

Raise needle to its highest point.
Raise bed extension J. Grasp bobbin case latch K and lift out bobbin case. Release latch and remove bobbin.

#### TO WIND THE BOBBIN

See Fig. 9 on the following page

To stop motion of needle, hold hand wheel L and loosen knurled screw M by turning it over toward you. Lift bobbin winder out of recess and bring its pulley N into contact with hub of hand wheel.

Place bobbin on bobbin winder spindle as far as it will go.

Place spool of thread on spool pin 1.

Draw thread under and between tension discs 2.

Pass thread through one of the holes in left side of bobbin 3, from the inside.

Hold end of thread as shown in Fig. 9 and press controller pedal as for sewing. End of thread must be held until it is broken off.

Allow tension discs to control flow of thread so that it winds on bobbin in uniform, level rows.

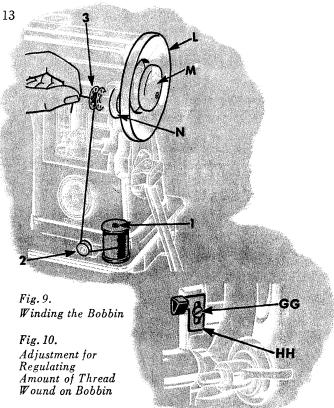
The bobbin winder will stop automatically when the bobbin is filled.

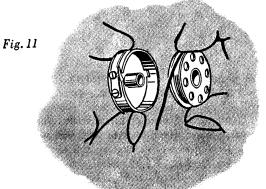
Remove bobbin from spindle and return boba bin winder to its recessed position. Tighten knurled screw M.

If bobbin does not wind evenly, loosen screw which holds tension bracket 2 in position and move bracket to the left if bobbin winds high on the right; move bracket to the right if bobbin winds high on the left. When bracket is properly centered, thread will wind evenly across bobbin.

If bobbin winds too fully, loosen screw GG, Fig. 10 and move plate HH, downward, slightly. To wind more thread on bobbin, move plate HH, upward, slightly. Tighten screw GG.

Bobbin can be wound while machine is sewing.



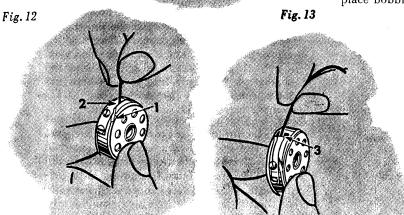


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#### TO THREAD BOBBIN CASE

Hold bobbin so that thread will unwind in direction shown in Fig. 11.

Hold bobbin case as shown in Fig. 11, and place bobbin into it.



Pull thread into slot 1, under tension spring 2 and into slot 3 at end of spring. Allow about three inches of thread to hang free from bobbin case.

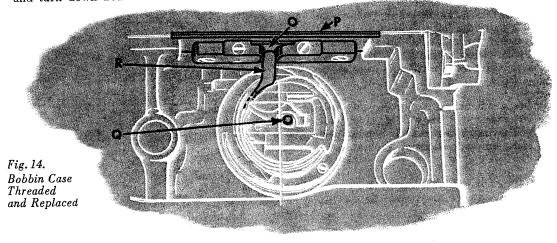
#### TO REPLACE BOBBIN CASE

Hold bobbin case by latch and place it on stud Q, having thread draw from top of bobbin case.

Release latch and press bobbin case back until latch enters groove in stud. Allow about three inches of thread to hang free from bobbin case and turn down bed extension.

#### **CAUTION:**

If throat plate P is removed for cleaning stitch forming mechanism, etc., make certain, when replacing throat plate, that position finger R, Fig. 14 of bobbin case base enters notch O, Fig. 14 of position plate attached to underside of throat plate.



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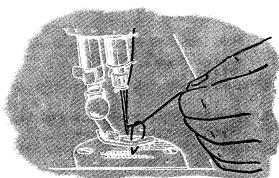


Fig. 15. Drawing Up Bobbin Thread

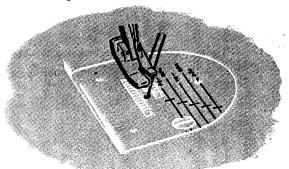


Fig. 16. Threads in Position to Start Sewing

## TO PREPARE FOR SEWING

Hold end of needle thread with left hand and turn hand wheel over toward you until needle goes down and up again and thread take-up lever S, Fig. 17 is at its highest point. Pull up needle thread and bobbin thread will come with it, as shown in Fig. 15.

Lay both threads back under the presser foot, diagonally across the feed, as shown in Fig. 16, to the right or left, depending upon which side of the needle the material is to be located, so that when the presser foot is lowered, the threads will be firmly held between the feed and the presser foot.

NOTE: On the throat plate, there are distinct markings to guide the edges of seams and hems. These markings are at 1/8" intervals from 1/4" to 3/4" in distance from the right of the needle, and assist in guiding the fabric uniformly. The crosslines on the throat plate indicate the point at which to pivot on the needle when turning square corners.

#### TO START SEWING

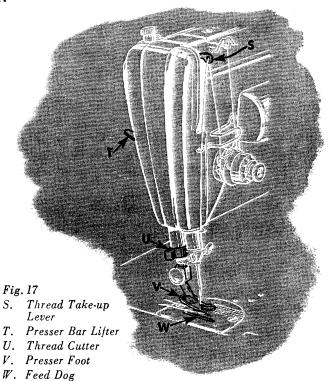
# Be sure to have thread take-up lever S at its highest point.

Place material beneath presser foot V, turn hand wheel to bring point of needle into fabric, then lower presser foot by means of presser bar lifter T and start to sew. Press controller pedal to start machine. The speed depends upon amount of pressure on controller pedal.

Most materials require only guiding for best sewing results. However, the miracle fabrics such as nylons, dacrons, orlons, blends with various rayons, puffed weaves, sheers, jerseys and tricots, which, by their nature, require light pressure, also require support in the form of holding the material taut at the back and front of the needle as the needle enters the fabric. This support assures a smooth, even seam.

Never pull the material when sewing.

The machine will sew its own thread when sewing from one piece of material to another. However, avoid operating a threaded machine with presser foot up and without fabric under the foot.



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#### TO TURN A CORNER

Pivot on the eye of the needle. Stop machine when needle is in this position. Raise presser foot and turn work as desired, then lower presser foot and resume sewing.

#### BASTING

The longest stitch, No. 6 on stitch regulator, adjusted by lever Y, Fig. 18 is found satisfactory for basting. These basting stitches are easily removed by clipping every sixth stitch and withdrawing the long continuous thread.

Machine basting is firmer, more even and much quicker than hand basting.

#### TO SEW BIAS SEAMS

Use a shorter stitch when sewing bias or curved seams to increase the elasticity of the seam and to prevent seam failure under strain. No change in tensions is required.

#### TO REMOVE THE WORK

Stop machine with thread take-up lever S, Fig. 17 at its highest point.

Raise presser foot, draw fabric back and to left and sever threads on thread cutter U, Fig. 17.

Place ends of threads under presser foot, as shown in Fig. 16.

#### TO REGULATE LENGTH OF STITCH

The machine is adjustable to make from 6 to 30 stitches per inch, as indicated by numerals on stitch indicator plate X.

To change length of stitch, turn thumb screw on stitch regulator lever Y, away from the stitch indicator plate X, as far as necessary. Then move the stitch regulator lever until it is in line with the desired number of stitches

Fig. 18.

Showing Lever for Regulating Length of Stitch and Reversing Direction of Feed

to the inch and turn the thumb screw inward only until it touches the stitch indicator plate.

The machine will now make the indicated number of stitches to the inch in either a forward or reverse direction, depending on whether the lever Y is at its lowest or highest position.

#### TO REGULATE DIRECTION OF FEED

To feed the material from you, push down the stitch regulator lever Y, as far as it will go.

To feed the material toward you, raise the stitch regulator lever Y, as high as it will go.

The direction of feed can be reversed at any point of a seam without removing work from machine.

The reverse feed makes it easy to "back stitch" and to fasten ends of seams.

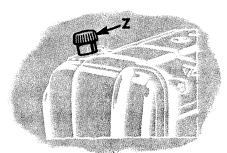
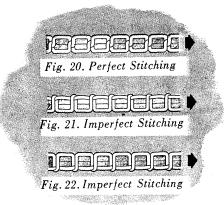


Fig. 19. Thumb Screw for Regulating Pressure on Presser Foot



# TO REGULATE PRESSURE ON PRESSER FOOT

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For average materials, the pressure of the presser foot seldom requires changing. Heavy materials require more pressure than lightweight fabrics. The pressure should be only heavy enough to prevent side creeping of material and still obtain a uniform length of stitch. To increase pressure, turn thumb screw **Z** clockwise or downward. To lighten pressure, turn thumb screw so that it screws upward.

#### THREAD TENSIONS

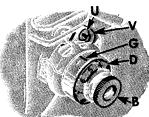
For perfect stitching, the tension on needle and bobbin threads must be heavy enough to pull threads to center of thickness of material and make a firm stitch, as shown in Fig. 20.

Needle Thread lies straight along top side of material, caused by too heavy tension on needle thread or too light tension on bobbin thread, as shown in **Fig. 21**.

Bobbin Thread lies straight along underside of material, caused by too light tension on needle thread or too heavy tension on bobbin thread, as shown in Fig. 22.

#### TO REGULATE NEEDLE THREAD TENSION

The tension on needle thread can be tested only when presser foot is down.



The numerals "0 to 9" on dial D, Fig. 23 indicate different degrees of tension that can be obtained. The numbers do not denote size of thread or ounces of tension.

Fig. 23.

When tension has been Needle Thread Tension correctly set as de-

scribed on pages 23 and 24, note number at indicator line G so that this setting may be regained should the tension be altered for special work.

To increase tension, turn thumb nut B gradually to right (clockwise) until required tension is obtained. Each higher number denotes increased tension.

To decrease tension, turn thumb nut B gradually to left (counter-clockwise) until required tension is obtained. Each lower number denotes less tension.

The tension indicator G is marked with the signs + and -, which indicate the direction in which to turn the thumb nut B for more or less tension.

#### TO REGULATE BOBBIN THREAD TENSION

The tension on bobbin thread is regulated by screw AA, Fig. 24 which is nearest center of tension spring on outside of bobbin case. To increase tension, turn screw AA over to right.

To decrease tension, turn this screw over to left.

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

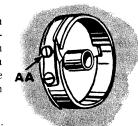


Fig. 24. Bobbin Thread Tension

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#### TO REMOVE AND DISASSEMBLE NE LE THREAD TENSION

Turn thumb nut B to left (counter-clockwise) until "O" on numbered dial stops at center line on indicator G.

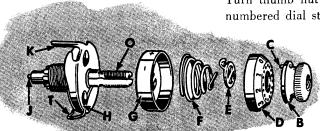


Fig. 25. Needle Thread Tension Disassembled

To separate in C in thumb nut B from dial D, press in dial, unscrew thumb nut and remove it. Then remove dial, stop washer E, tension spring F, indicator G and tension assembly H.

NOTE: It is not necessary to remove stud O from machine to disassemble the thread tension. It is shown removed in Fig. 25, only to illustrate the complete assembly.

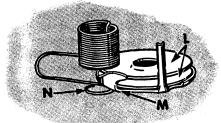


Fig. 26. Tension Disc Assembly

#### TO REASSEMBLE AND REPLACE NEEDLE THREAD TENSION

Make sure that tension releasing pin J is in place in stud O. Place two tension discs L with their convex faces together on tension thread guide M, then pass eyelet N of thread take-up spring under thread guide, having coils of spring above tension discs, as shown in Fig. 26.

Place tension disc assembly on stud O so that extension K enters hole in machine and tail (inside the coil) of thread take-up spring enters one of grooves in the stud. Next replace indicator G, open side out, on stud with plus and minus signs at top and hold parts, thus assembled, against shoulder of stud. Then insert tension spring F in indicator with first (half) coil of spring straddling lower half of stud. Place stop washer E on stud with extension S above stud. If spring and stop washer are in correct position, extension S will clear first (half) of tension spring, as shown in Fig. 28.

Next, place dial **D** on stud with **No. 2** opposite stop washer extension **S**, then push dial to compress tension spring and at the same time screw thumb nut **B** on stud, inserting pin **C** on nut in one of the holes in dial **D**. Then lower presser bar and turn thumb nut **B** to left until "O" on dial **D** stops at centerline on indicator **G**. Thread the tension and pull thread through tension discs to test amount of tension on thread at the "O" position. At this point there should be a slight pull on the thread to indicate that there is a minimum tension which gradually increases with the turning of thumb nut **B** to the right, providing a full range of tensions with one revolution of the thumb nut.

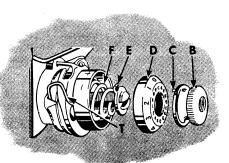


Fig. 27. Reassembling Needle Thread Tension

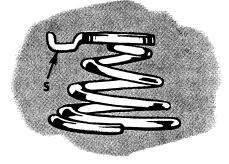


Fig. 28. Stop Washer and Tension Spring

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If the pull is too strong for a minimum tension, press in dial **D** to disengage pin **C** on nut from dial, and reset pin in one of holes at left of previous setting. This resetting will produce less tension at "O." Repeat this process until minimum desired tension is obtained.

If there is no tension at "O," press in dial D and reset pin C on nut in one of holes at right of previous setting, repeating this process until a slight minimum tension is obtained.

The tension on thread take-up spring T and stroke of this spring should be just sufficient to take up slack of needle thread until eye of needle reaches goods in its descent.

To adjust tension on thread take-up spring T, remove tension disc assembly, disengage end of spring from groove in tension stud, revolve spring and place its end in the groove which produces correct tension.

For average weights of materials, the stroke of thread take-up spring T should release the thread after the needle point has entered the

fabric, i.e., halfway between the point and eye of the needle. To regulate stroke, loosen screw U, Fig. 23 and turn the thread take-up spring regulator V, Fig. 23 until correct stroke is obtained, then tighten screw U.

#### IF CORRECT STITCHING IS NOT OBTAINED

If bobbin thread tension has been disturbed, or a correct stitch cannot be obtained without a very heavy or very light needle thread tension, the following procedure is recommended.

Using Size 50 Mercerized thread in needle and on bobbin, adjust needle thread tension as instructed on page 23. Then turn tension thumb nut until No. 4 on dial is opposite centerline on indicator and, with two thicknesses of thin material in machine, adjust bobbin thread tension, as instructed on page 21, until stitch is correctly locked in material, as shown in Fig. 20.

A wide range of materials and threads can now be accommodated without further adjustment of bobbin thread tension. SINGER Needles should be used
in SINGER Machines.
These Needles and their Containers
are marked with the
are marked Mark "SIMANCO."
Company's Trade Mark

Needles in Containers marked
"FOR SINGER MACHINES"
are NOT SINGER made Needles.

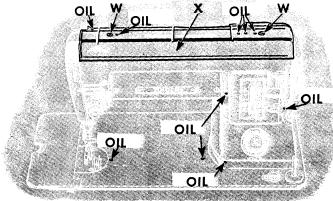


Fig. 29. Front View, Showing Oiling Points

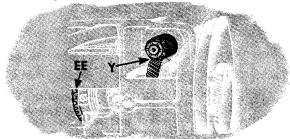


Fig. 30. Lubricating Points for Spiral Gears in Top of Machine

# TO OIL THE MACHINE

If the machine is used continuously, it should be oiled daily. If moderately used, an occasional oiling is sufficient.

Apply one drop of oil at each of the places inindicated by arrows in Figs. 29, 31, 32 and 33.

### To Lubricate Spiral Gears

About once a year, take out two screws W, Fig. 29, remove cover X, Fig. 29 and apply a small quantity of lubricant to spiral gears Y and EE, Fig. 30, then replace cover X and fasten as before with screws W.

Never apply oil to these gears.

Swing face plate to left and oil the places indicated by arrows in Fig. 31, then close face plate.

#### To Oil Sewing Hook

Occasionally apply a drop of oil to bobbin case base bearing in sewing hook indicated in Fig. 32.

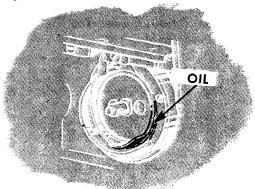


Fig. 32. Oiling Point in Sewing Hook

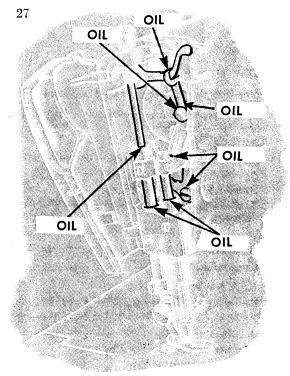


Fig. 31. Face Plate Opened Showing Oiling Points

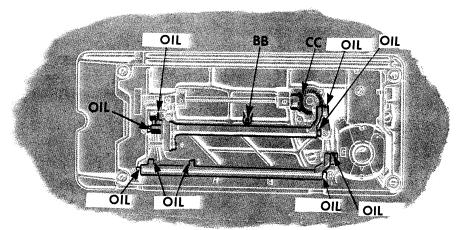


Fig. 33. Oiling Points in Base of Machine

Remove machine from cabinet as instructed on Page 6, and then turn machine over on its rear side. Remove thumb nut from screw BB, Fig. 33 being careful not to lose felt washer, and remove large cover from underside of bed. Oil each of places indicated by arrows in Fig. 33,

and occasionally apply a small quantity of lubricant to teeth of gears CC, then replace cover and felt washer and fasten as before with thumb nut (not too tightly).

#### CAUTION:

The motor requires no lubrication.

### 29

#### SEWING SUGGESTIONS

### Breaking of Needles Might be Caused by:

- 1. Improper Size of Needle for Thread and Material—See Page 70.
- 2. Needle Bent.
- 3. Pulling of Material when Stitching.
- 4. Needle Striking Improperly Fastened Presser Foot or Attachments.
- 5. Crossing Too Thick Seams with Too Small a Needle.

# Breaking of Needle Thread Might be Caused by:

- 1. A Knot in Thread.
- 2. Improper Threading—See Page 11.
- 3. Upper Tension Too Tight-See Page 21.
- 4. Needle not pushed up as far as it will go into needle clamp—See Page 9.
- 5. Needle Blunt or Bent.
- 6. Thread Too Coarse for Needle—See Page 70.

- 7. Roughened Hole in Throat Plate.
- 8. Improper Arrangement of Thread to Commence Sewing—See Page 16.

# Breaking of Bobbin Thread Might be Caused by:

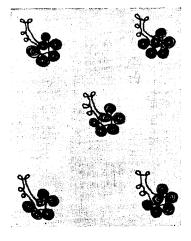
- 1. Improper Threading of Bobbin Case—See Page 14.
- 2. Bobbin Thread Tension Too Tight—See Page 21.

### Skipping of Stitches Might be Caused by:

- 1. Needle not pushed up as far as it will go into needle clamp—See Page 9.
- 2. Needle Blunt or Bent.
- 3. Needle Too Small for Thread—See Page 70.
- If Machine Runs Heavily after standing idle for a long period, apply a few drops of kerosene at all oiling places, run machine for a few minutes, then wipe clean and oil—See Pages 26, 27 and 28.

#### FASHION STITCHES MADE

Remove the presser foot of your sewing machine, and lower the feed. The design to be followed may be stamped or marked on the

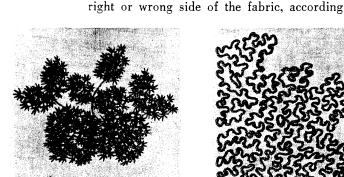


#### CORDONNET STITCH

Threads: hreads:
Bobbin—"Cordonnet," a fine silk gimp thread.
Needle—Size A, silk of matching color.

Tensions:
Bobbin—Loosen 1/8 to 1/4 turn of screw from normal.
Needle Thread—Tighten 1 to 2 points.

Needle: Size 14 to accommodate size A silk. Trace design on wrong side of fabric. Work from center to edge of each circular motif.



#### SPARK STITCH

Threads:
Both Needle and Bobbin carry regular sewing thread; size A silk or mercerized thread in sizes 50, 00 or 000.

Tensions:
Bobbin—Loosen ¼ to ½ turn of screw from normal.

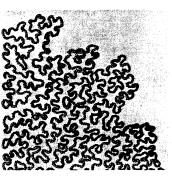
Needle Thread—Tighten 3 to 4 points.

Needle Thread—Tighten 3 to 4 points.

Needle:

Size 11 or 14 to accommodate needle thread.

Trace design on right side of fabric. Hoops are moved in circles resulting in bobbin thread being drawn through the fabric in radiating sparks for outlining or filling a design.



#### METALLIC STITCH

Bobbin—Fine metallic gimp thread. Needle—Size A, silk of matching color.

Bobbin—Loosen slightly from normal. Needle Thread—Tighten one to two

Needle Thread—lighten one to two points.

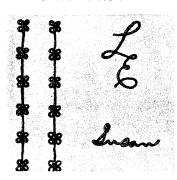
Needle:
Size 14 to accommodate Size A silk.

Trace design on wrong side of fabric, or follow free hand heel and toe pattern.

### 31

#### WITHOUT ATTACHMENTS

to the stitch chosen. Place the work in embroidery hoops, lower the presser bar, and follow the design with the sewing machine needle. Visit your local SINGER SEWING CENTER for further help and advice.



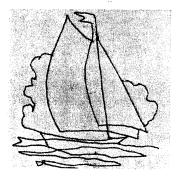
#### SIGNATURE\_STITCH

Threads: Both Bobbin and Needle carry regular sewing thread; size A silk or mercerized thread in sizes 50, 00 or 000.

Tensions:
Bobbin—Loosen ¼ to ½ turn of screw from normal.
Needle Thread—Tighten 2 to 3 points.
Needle:
Size 11 or 14 to accommodate needle thread.
Trace design on right side of fabric. Operate

thread.

Trace design on right side of fabric. Operate machine at moderate speed while moving hoops very slowly so that the bobbin thread completely covers the needle thread in a gimp-like fashion.



#### ETCHING STITCH

Threads:
Both Bobbin and Needle carry regular sewing threads.

Tensions:
Regulate to form an evenly locked stitch

as in regular sewing.

Needle:
Selected to accommodate the needle thread.

thread.
Trace design on right side of fabric. Operate the machine at a moderate and uniform speed, while coordinating with it the even movement of the hoops to produce short, regular stitching.



#### BOUCLÉ STITCH

Threads:
Bobbin—Pearl Cotton #8, single and 2-ply yarns and similar threads.

Needle—Size A, silk, or size 50 mercerized thread.

Tensions: Bobbin—Loosen ½ to ¾ turn of screw from normal.

Needle Thread—Tighten 1 to 2 points.

Needle Thread—Tighten 1 to 2 points.

Needle:
Size 14 to accommodate needle thread.

Trace design on wrong side of fabric. The
Bouclé Stitch is always a series of small
circles placed closely together to produce a
nubby textured solid design. An underlay of
organdy is often used on jersey or crepe
fabrics.

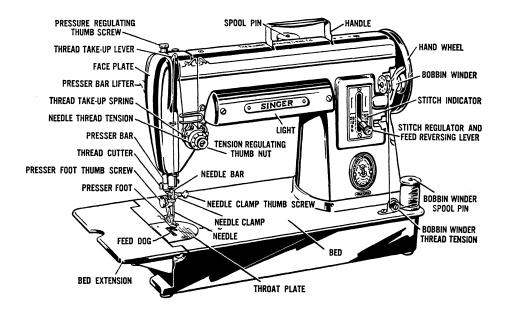
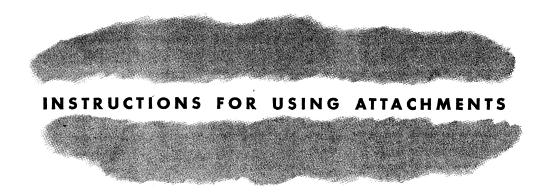


Fig. 34. Names of Principal Parts of Machine 301



#### THE FOOT HEMMER

The foot hemmer may be used for hemming edge of material, making hemmed and felled seams and for hemming and sewing on lace in one operation.

# To Attach Foot Hemmer

Raise needle to its highest point. remove presser foot and attach foot hemmer to presser bar in place of presser foot.

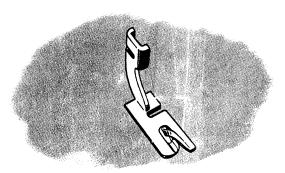


Fig. 35. Foot Hemmer

Pull up bobbin thread as instructed on page 16.

- 1. Fold edge of material twice, about 1/8 inch each time, for a distance of about two inches. Crease folds.
- 2. Lay about three inches of needle and bobbin threads back under hemmer. Place creased edge of material under hemmer with end of hem directly under needle. Lower hemmer and tack end of hem with two machine stitches.
- 3. Raise hemmer. Pull threads and hem slightly from you with left hand, then while holding threads, draw material toward you with right hand into scroll of hemmer until tacked end is caught in hemmer, as shown in Fig. 36.
- 4. Lower hemmer and commence to sew, slightly pulling threads back while sewing. Keep mouth of hemmer full to produce a smooth, even hem, as shown in Fig. 37.

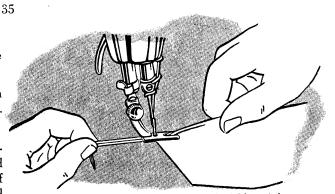


Fig. 36. Starting Hem at Very End of Material

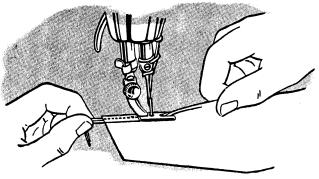


Fig. 37. Hemming Edge of Material and Pulling Back Threads While Sewing

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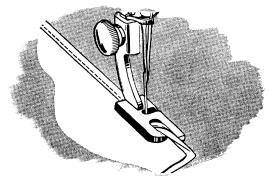
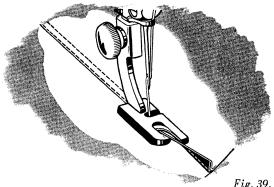


Fig. 38. Making a Hemmed Seam (First Operation)



# TO MAKE A HEMMED SEAM WITH FOOT HEMMER

- 1. When making this seam, the garment must first be fitted and edge of material trimmed, allowing for about 1/8 inch seam. Insert the two edges of material, right sides together, in hemmer in same manner as a single hem as shown in Fig. 38. If material is bulky, place edge of upper piece of material about 1/8 inch to left of edge of under piece.
- 2. The free edge of hemmed seam may be stitched flat to garment, if desired. To do this, open work out flat, wrong side up, then insert hem in scroll of hemmer, holding edge of hem in position while it is being stitched. If seam is stitched flat to garment, one row of stitching is visible on the right side.

Fig. 39. Making a Hemmed Seam (Second Operation)

# TO MAKE A FELLED SEAM WITH FOOT HEMMER

- 1. Place right sides of material together, having edge of upper piece about 1/8 inch to left of edge of under piece. Stitch the two pieces together, using hemmer as a presser foot. Guide both pieces by the projecting toe of hemmer, as shown in Fig. 40.
- 2. Open work out flat, wrong side up, and hem free edge of seam, stitching it flat to garment as shown in Fig. 41.

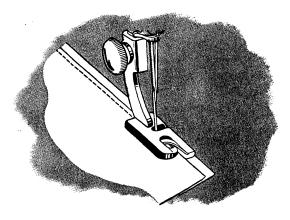


Fig. 40. Making a Felled Seam (First Operation)

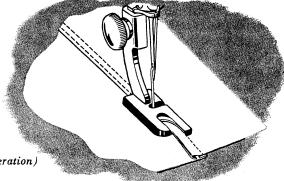
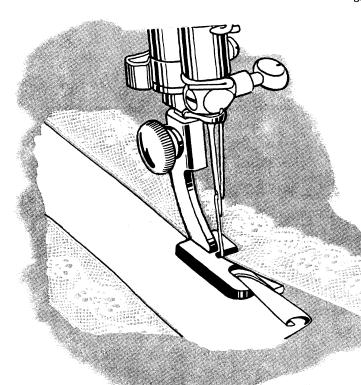


Fig. 41. Making a Felled Seam (Second Operation)



# TO HEM AND SEW ON LACE IN ONE OPERATION

- 1. Start hem in the regular way.
- 2. Hold hem in position with needle.
- **3.** Raise presser bar and insert edge of lace in slot of hemmer and back under hemmer.
- 4. Lower presser bar and commence sewing, catching edge of lace with needle.
- 5. Guide hem with right hand and lace with the left, being careful not to stretch lace as it enters hemmer.

Fig. 42. Hemming and Sewing on Lace

# ADJUSTABLE HEMMER

# To Make Hems from 3/16 to 15/16 Inch Wide

- 1. Attach adjustable hemmer to presser bar in place of presser foot.
- 2. Pull up bobbin thread, as instructed on page 16.
- 3. Loosen thumb screw on hemmer and move scale until pointer registers with number of desired width of hem, No. 1 indicating narrowest hem and No. 8, the widest, then tighten thumb screw.
- 4. Place cloth in hemmer and draw it back and forth until hem is formed, as shown in Fig. 43.
- 5. Draw end of hem back under needle, lower presser bar and commence to sew.
- 6. Guide sufficient cloth into hemmer to turn hem properly.

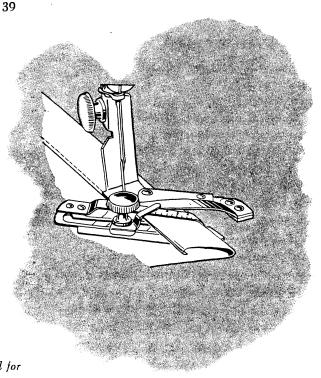


Fig. 43. Showing How Adjustable Hemmer is Used for Making Hems up to 15/16 Inch Wide

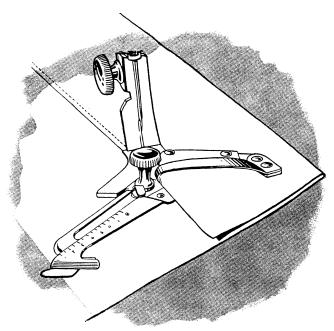


Fig. 44. Showing How Adjustable Hemmer is Used for Making Hems Wider than 15/16 Inch

#### **ADJUSTABLE HEMMER**

### To Make Hems Wider than 15/16 Inch

- 1. Loosen thumb screw on hemmer, move scale to right as far as it will go, then swing it toward you, as shown in Fig. 44, and tighten thumb screw.
- 2. Fold and crease desired width of hem.
- 3. Place fold under extension at right of hemmer and edge into folder, as shown in Fig. 44.
- **4.** Draw end of hem back under needle, lower presser bar and commence to sew.
- 5. Guide cloth to keep hem flat.

#### 7

#### MULTI-SLOTTED BINDER

The multi-slotted binder will apply unfolded bias binding 15/16 inch in width and commercial folded binding in sizes 1, 2, 3, 4 and 5 to the seams or to the edges of garments. These sizes of folded binding are 1/4, 5/16, 3/8, 7/16 and 1/2 inch in width, respectively, and are fed through slots of corresponding sizes in the binder scroll. See Fig. 45. Binding may be purchased in a variety of materials and colors.

For convenience in determining the correct width of unfolded binding (15/16 inch), this measurement is marked on the binder, as shown in Fig. 45.

The two upright guide pins shown in Fig. 45 eliminate manual guiding of the binding.

The wide range of bindings that can be applied with this binder makes it useful for a large

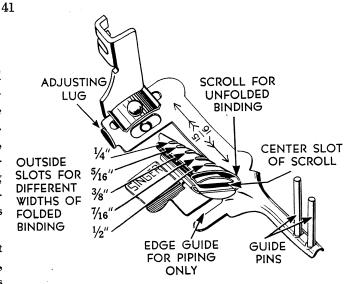


Fig. 45. Multi-Slotted Binder 160624

variety of work. It will be found particularly advantageous for making children's wear, lingerie, summer dresses, and other dainty articles which call for the narrower bindings.

As two different widths of binding of contrasting color can be fed through the binder at the same time, attractive binding and piping effects can be produced in one operation.

#### TO ATTACH THE BINDER

Raise needle to its highest position, then attach binder to presser bar in place of presser foot.

See that needle enters center of needle hole.

CAUTION: When this binder is used, do not raise hinged extension of cloth plate high enough to strike binder, as this would tend to distort and damage binder. Before storing machine, binder must be removed to avoid damage.

#### TO INSERT BINDING IN BINDER

Cut all binding to a long point to the left, as shown in Fig. 46.

Folded Bias Binding must be inserted in slot or slots of corresponding sizes. See Fig. 49.

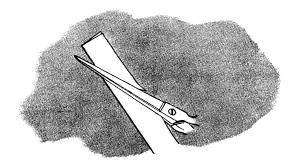


Fig. 46

Unfolded or Raw Edge Bias Binding must be inserted in open end of scroll. See Fig. 47.

After inserting pointed end of binding in binder, push it through until full width of binding is under needle.

Guide binding by means of two upright pins, as shown in Figs. 47 and 49.

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#### TO INSERT GARMENT IN BINDER

Place edge to be bound as far to the right as it will go in center slot of scroll, as shown in Fig. 47, and draw it back under binder foot.

Lower binder by means of presser foot lifter and commence to sew. Keep material well within center slot of scroll so that edge will be caught in binding.

#### TO ADJUST BINDER

To bring the inner edge of the binding closer to stitching, move scroll C2, Fig. 47 to right by means of lug B2, Fig. 47. This is the usual adjustment when binding straight edges.

When binding curves, move scroll to left to bring inner edge of binding farther from stitching and allow for sweep of curve.

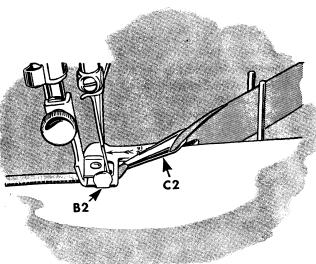


Fig. 47. Binding with Unfolded Bias Binding

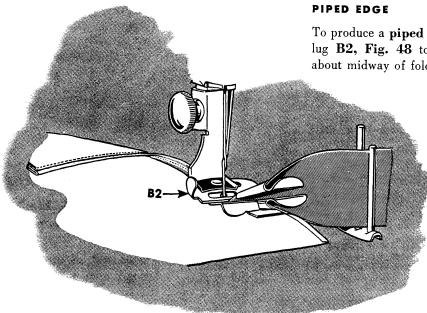


Fig. 48. Positions of Garment and Binding when Piping Edges

To produce a **piped edge** on garments, move lug **B2**, **Fig. 48** to left to bring stitching about midway of folded binding.

Crease raw edges of garment toward wrong side about 1/8 inch, and insert folded edge, raw edges uppermost, into edge guide on binder and beneath binding.

When stitched, both sides of garment will be finished, and right side will show piped edge.

#### PIPING AND BINDING IN ONE OPERATION

A garment can be piped and bound in one operation, as shown in Fig. 49.

IMPORTANT: When piping and binding at the same time, as shown above, insert narrower width of binding first in its slot, then insert wider width in its slot. Two consecutive widths should not be used at the same time. That is, if No. 1 is used, the wider binding should not be smaller than No. 3. If No. 2 is used, the wider binding should not be less than No. 4. Never use Nos. 1 and 2, or 2 and 3, etc., together.

Use upright guide pins to guide the wider of the two widths of binding as shown in Fig. 49.

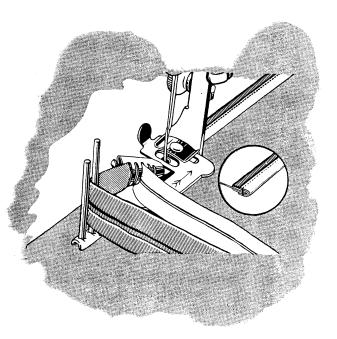


Fig. 49. Piping and Binding in One Operation

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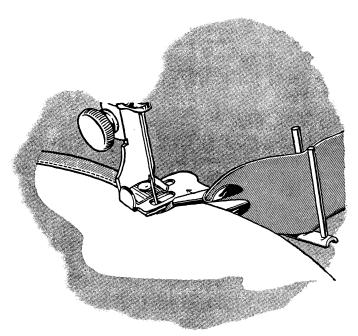


Fig. 50. Binding on Outside Curve

### TO BIND OUTSIDE CURVES

Allow edge to be bound to pass freely through scroll without crowding against scroll wall. The material must be guided from back of binder and to left, permitting unfinished edges to swing naturally into scroll of binder.

Never pull binding while it is being fed through binder, as this may stretch binding, making it too narrow to stitch or to turn in edges.

When binding curves, turn material only as fast as machine sews.

Do not push material in too fast as this will pucker the edge.

Do not stretch material as this will distort edge so that curve will not have proper shape when finished.

If stitching does not catch edge of binding, adjust scroll slightly to left.

When binding an inside curve, straighten out inside edge of material while feeding it into binder, being careful not to stretch material.

Soft materials like batiste or crepe de chine require a row of stitching added close to edge of curve before binding.

# TO APPLY FRENCH FOLDS TO CURVES

TO BIND INSIDE CURVES

Place material under binder and stitch binding onto face of material, as shown in Fig. 51.

For guidance in applying rows of French folds, mark material with a line of basting stitches or with chalk or pencil.

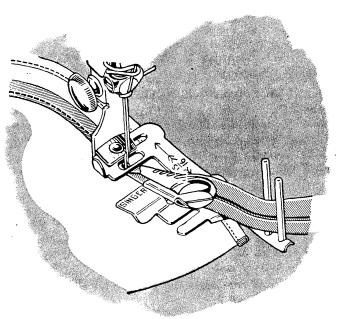


Fig. 51. Applying a French Fold

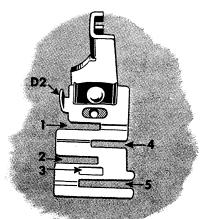
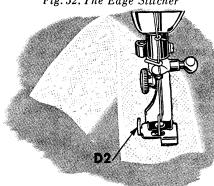


Fig. 52. The Edge Stitcher



#### THE EDGE STITCHER

This attachment should be used when the stitching must be kept accurately on extreme edge of material. It is also useful for sewing together laces, insertions and embroideries, sewing in position hemmed or folded edges, piping or sewing flat braid to a garment.

#### To Adjust the Edge Stitcher

Fasten this attachment to presser bar in place of presser foot. See that needle enters center of needle hole.

The distance from line of stitching to edge of material in slots is regulated by moving lug D2, Fig. 52 to right or left.

### To Sew Lace Together

- 1. Insert one of laces in slot 1 of edge stitcher and the other in slot 4, Fig. 52.
- 2. Adjust lug D2 until edges to be joined are caught by stitch-
- 3. Slightly overlap edges of lace while stitching to keep them against ends of slots.
- 4. Loosen both thread tensions to avoid puckering of fine lace.

Fig. 53. Sewing Lace Together

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#### To Insert Lace or Ribbon

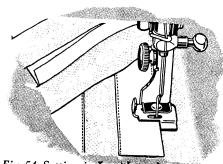
- 1. Fold edge of material to which lace or ribbon is to be sewn and insert it in slot 1 of edge stitcher.
- 2. Insert lace or ribbon in slot 4 of edge stitcher and proceed to sew.
- 3. Cut away surplus folded material close to stitching.

#### To Pipe with Edge Stitcher

- 1. Cut piping bias and twice width of slot 3 so that it can be folded once.
- 2. Insert piping with its folded edge to left in slot 3 and edge to be piped in slot 4, Fig. 52.

#### To Apply Folded Bias Tape or Military Braid

- 1. Place garment under edge stitcher and tape in slot 1 or 4, Fig. 52.
- 2. To make square corners, sew to turning point, remove tape from attachment, form corner by hand, replace tape and continue stitching.
- 3. To space two or more parallel rows, mark material with a guide line, using a crease, chalk or basting thread.



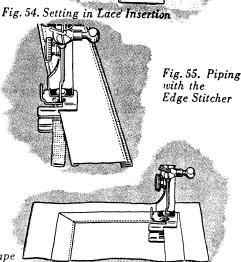
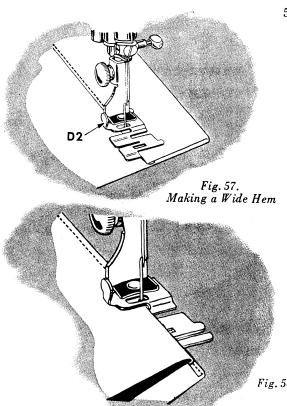


Fig. 56. Applying Bias Folded Tape



#### To Stitch a Wide Hem

- 1. A wide hem may be stitched evenly on sheets, pillow slips, etc., with edge stitcher after hem has been measured and the edge turned.
- 2. Insert the edge in slot 5, Fig. 52, and adjust lug D2 to stitch as close to the edge as desired.

#### To Make a French Seam

- 1. To make a uniform width French seam, insert two edges to be joined, wrong sides together, in slot 1 or 2 and stitch close to edge.
- 2. Fold both right sides together and insert back of seam in slot 1 and stitch, allowing just enough margin to conceal raw edges.

Fig. 58. Making a French Seam

# To Tuck with Edge Stitcher

The maximum width of tuck that can be made with edge stitcher is 1/8 inch.

- 1. Fold and crease material for desired width of tuck.
- 2. For succeeding tucks, fold material desired distance from previous tuck, running fold lengthwise over a straight edge, then crease folds.
- 3. Insert creased folds in slot 1 and adjust edge stitcher to right or left for desired width of tuck. Use a light tension, short stitch and fine thread and needle.

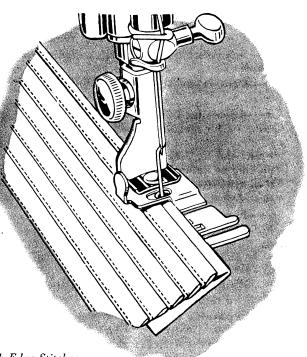
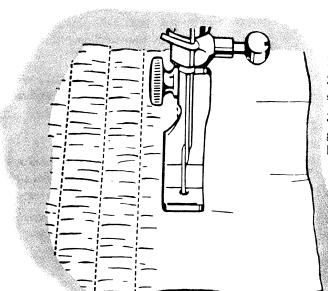


Fig. 59. Tucking with Edge Stitcher

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#### GATHERING FOOT

### To Shirr with Gathering Foot

- 1. Fasten gathering foot to presser bar in place of presser foot.
- 2. Place material under gathering foot and stitch in usual way.
- 3. The fullness of shirring or amount of gathering is regulated by length of stitch. A longer stitch increases fullness of gathers.

Fig. 60. Shirring with Gathering Foot

### PRINCIPAL PARTS OF RUFFLER

A-Foot-attaches ruffler to presser bar.

B-Fork Arm-straddles needle clamp.

C—Adjusting Screw—regulates fullness of gathers.

D—Projection—engages slots in adjusting

E—Adjusting Lever—sets ruffler for gathering or for making a plait once at every six stitches or once every twelve stitches, as desired; also for disengaging ruffler, when either plaiting or gathering is not desired.

F—Adjusting Finger—regulates width or size of plaits.

G—Separator Guide—contains slots into which edge of material is placed to keep heading of ruffle even; also for separating material to be ruffled from material to which ruffle is to be attached.

H—Ruffling Blade—pushes material in plaits up to the needle.

J—Separator Blade—prevents teeth of ruffling blade coming into contact with feed of machine or material to which ruffle or plaiting is to be applied.

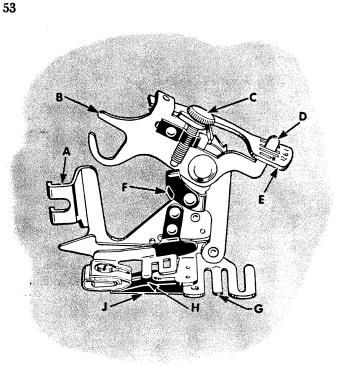


Fig. 61. Principal Parts of Ruffler

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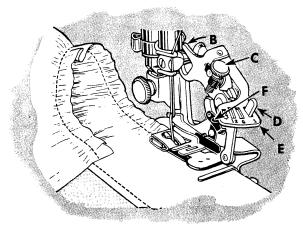


Fig. 62. Gathering with Ruffler

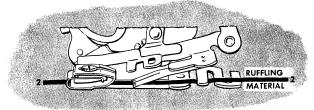


Fig. 63. Correct Position for Material to be Ruffled

#### To Attach Ruffler

- 1. Raise needle to its highest point.
- 2. Loosen presser foot thumb screw and attach ruffler to presser bar in place of presser foot, at the same time placing fork arm B astride needle clamp.
- 3. See that needle enters center of needle hole in ruffler.

#### To Adjust Ruffler for Gathering

- 1. Swing adjusting finger F away from needle.
- 2. Raise adjusting lever E and move it until projection D can be entered in slot marked "1."
- 3. Insert material to be ruffled between two blue blades and under separator guide (Line 2, Fig. 63).
- 4. Draw material slightly back of needle, lower presser bar and commence to sew.
- 5. For fine gathering, turn adjusting screw C upward to shorten stroke. Set the machine for a shorter stitch.
- 6. For full gathering, turn adjusting screw C downward to lengthen stroke. Set the machine for a longer stitch.

# To Make a Ruffle and Sew it to a Garment in One Operation

- 1. Insert material to be ruffled between two blue blades and under separator guide (Line 2, Fig. 64).
- 2. Place material to which ruffle is to be attached under separator blade and under separator guide (Line 1, Fig. 64).
- 3. Proceed the same as for plain gathering.

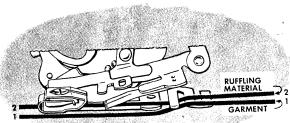


Fig. 64. Correct Positions for Materials

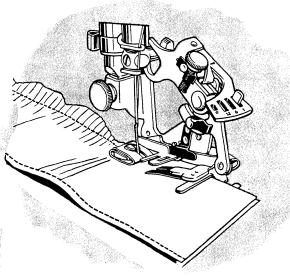


Fig. 65. Making a Ruffle and Attaching it in One Operation

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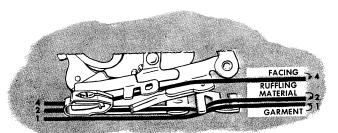
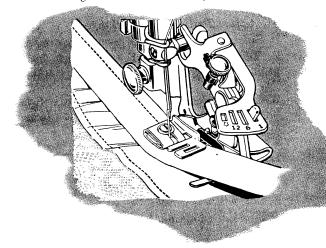


Fig. 66. Correct Positions for Materials



# To Make a Ruffle and Attach it with a Facing in One Operation

- 1. Insert material to be ruffled between two blue blades and under separator guide (Line 2, Fig. 66).
- 2. Place material to which ruffle is to be attached under separator blade and under separator guide (Line 1, Fig. 66).
- 3. Place facing material over upper blue blade (Line 4, Fig. 66).
- 4. If facing is to be on **right side** of garment, place wrong sides of garment and ruffle together.
- 5. If facing is to be on wrong side, place right sides of garment and ruffle together.

Fig. 67. Making a Ruffle and Attaching it with a Facing in One Operation

### To Pipe a Ruffle

- 1. Insert material to be ruffled between two blue blades from the right (Line 3, Fig. 68). This material must not exceed 1-1/4 inches in width.
- 2. The piping material is usually cut on the bias and it should be about 1/4 inch wide when folded in center. Place piping material in ruffler, following (Line 5, Fig. 68) with folded edge of piping to right.
- 3. Fold edge of material to which piping and ruffling are to be attached and insert it in ruffler, from the left following (Line 6, Fig. 68).

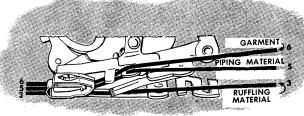


Fig. 68. Correct Positions for Materials

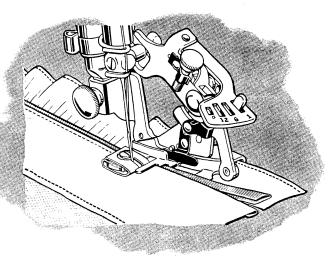


Fig. 69. Piping a Ruffle

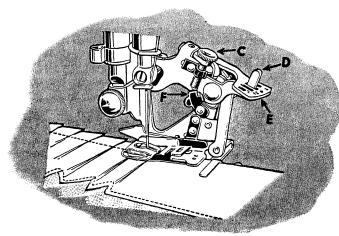
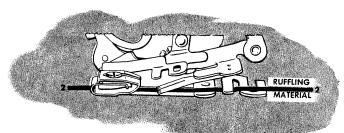


Fig. 70. Plaiting with Ruffler



# To Adjust Ruffler for Plaiting

- 1. Raise adjusting lever **E** and move it until projection **D** can be entered in slot marked "6." The ruffler will then plait once every six stitches. To plait once every 12 stitches, have projection **D** enter slot "12" in adjusting lever **E**.
- 2. Insert material to be plaited between two blue blades and under the separator guide (Line 2, Fig. 71).
- 3. To increase width of plait, move adjusting finger F back toward needle and turn adjusting screw C downward. To make a smaller plait, turn adjusting screw C upward. The distance between plaits is regulated by length of stitch.

Fig. 71. Correct Position for Material

# To Adjust Ruffler for Group Plaiting

- 1. To make the space between the groups of plaits, raise adjusting lever **E** and move it until projection **D** can be entered in small slot indicated by star on adjusting lever **E**. The ruffler will then stop plaiting and plain stitching will be made.
- 2. When desired space is made, set projection D in either of slots 6 or 12.
- 3. Insert material to be plaited between two blue blades and under the separator guide (Line 2, Fig. 73).

#### TO OIL THE RUFFLER

Occasionally apply a drop of oil to working parts of ruffler at places indicated in Fig. 72.

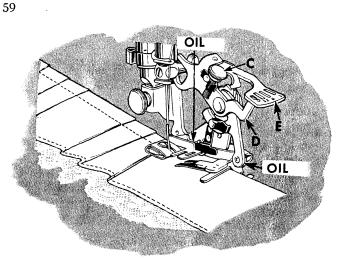


Fig. 72. Group Plaiting with Ruffler

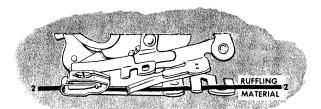
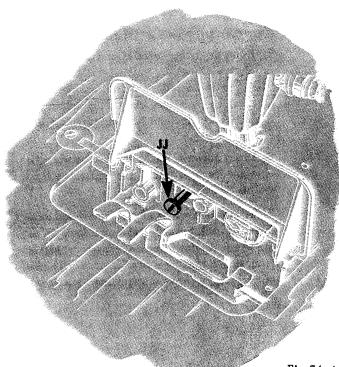


Fig. 73. Correct Position for Material



#### DARNING OR EMBROIDERING

Raise bed extension. Using a screwdriver, turn thumb screw JJ over from you as far as it will go. The feed is thus rendered inoperative and will not interfere with the free movement of the work.

Move stitch regulating lever Y, Fig. 18 to its neutral position in center of slot at front of machine.

Remove presser foot and let down presser bar lifter T, Fig. 17 to restore tension on needle thread which is released when lifter is raised.

Draw up bobbin thread as instructed on page

Fig. 74. Adjustment for Darning or Embroidering

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When darning flat work, it is advisable to use embroidery hoops to hold the work.

Place work with unworn part near hole under needle. Commence darning by making a line of stitches across hole a little longer than width of hole. Continue making parallel lines of stitches across hole, moving work backward and forward and at the same time gradually moving work sidewise until hole is covered with lines of stitches running across hole. Then commence as before and move work lengthwise of hole until stitches across hole are completely covered and darn is finished.

When darning or embroidering is completed, turn thumb screw JJ, Fig. 74 over toward you as far as it will go, using a screwdriver. Raise presser bar lifter T, Fig. 17, replace presser foot and reset stitch regulating lever Y, Fig. 18 for desired length of stitch.

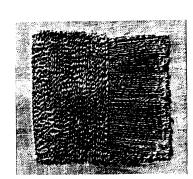
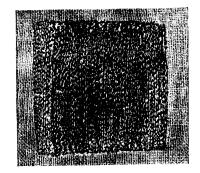
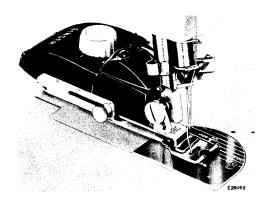


Fig. 75. Darning in Process



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#### AUTOMATIC ZIGZAGGER



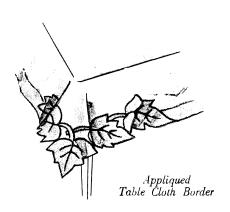
Zigzag stitching, decorative pattern stitching, applique—all of these and more may be done automatically on your Slant-Needle SINGER with the Automatic Zigzag Attachment.

You can blindstitch hems, mend rips and tears. reinforce seams, overedge seam edges and stitch scallop facing easily and quickly.

Merely insert one of the many Stitch Patterns into the Automatic Zigzagger and sew.

#### STITCH PATTERNS

ZIGZAG	WWW.	KEY	<b>WWW</b>
BLIND- STITCH	~~~	BALL	h
DOMINO	//\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/	BLOCK	V-444-444-444-444-
ARROW- HEAD	Mire Har Har His Miss	SHINGLE	hwihwihwihwih
SCALLOP		CURVED MENDING	$\bigcirc$
MULTIPLE		OPEN SCALLOP	~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
WALLS OF TROY	^~~~~~~~~	THREE- STEP	www.w <sub>v</sub>
ICICLE	Mahhahkahkahkahk	SOLID SCALLOP	www.www.www



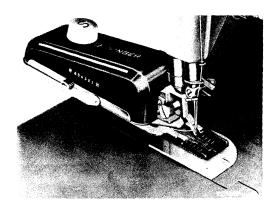




Girls Dress with Border Design in Domino Pattern

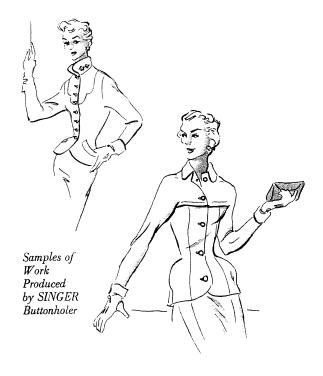
Blouse with Blind Stitch Border Design

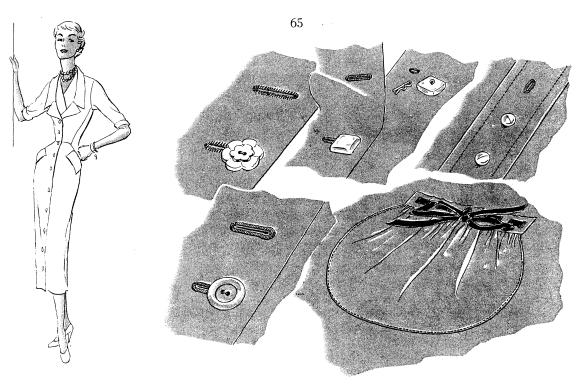
#### THE BUTTONHOLER



Beautiful, evenly stitched buttonholes may be made on your Slant Needle SINGER with the Buttonholer, as easily as you do straight stitching.

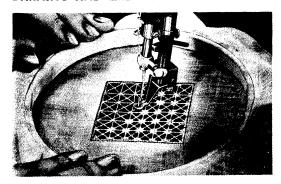
stitching. Merely slip the template, for the size buttonhole you require, into the attachment and replace the presser foot with the Buttonholer. Every buttonhole will be identical. The Buttonholer does the work for you—straight buttonholes in seven lengths:  $\frac{5}{16}$ ,  $\frac{3}{8}$ ,  $\frac{1}{12}$ ,  $\frac{5}{8}$ ,  $\frac{13}{16}$ , and  $\frac{11}{16}$ , keyhole, in two lengths:  $\frac{5}{8}$ , and  $\frac{11}{16}$ .





Samples of Work Produced by SINGER Buttonholer

#### DARNING AND EMBROIDERY ATTACHMENT



The Web Lace Stitch

The Darning and Embroidery Attachment contributes to the ease with which free-motion sewing is accomplished. Lovely embroidered effects are possible on a wide range of fabrics.

The foot merely holds the fabric taut while the stitch is being formed and releases the fabric when the needle has risen to allow free movement of the work for variety of embroidered effects.



The Tracing Stitch

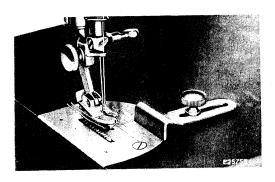


The Darning Stitch



The Granite Stitch

### SEAM GUIDE

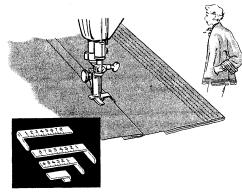


The Seam Guide is helpful in stitching seams an exact width, and for stitching a uniform distance from a finished edge.

Especially helpful for those just learning to sew and an aid to those demanding greater uniformity in seam width than the eye might give, the seam guide is a useful addition to your sewing equipment.

The scoring on the throat plate of your Slant Needle SINGER makes it easy for you to set the Seam Guide to an exact distance from the needle.

#### GAUGE PRESSER FOOT



Expert and beautiful stitching is accomplished with a minimum of skill and preparation through the use of the SINGER Gauge Presser Foot. Single or multiple rows of stitching may be gauged evenly along lapel and facing edges, welt seams, or hems.

An accurate set of gauges (lined at ½" and numbered at ½" intervals)—one for use at the left of needle and three for use at right of the needle, accompany the Gauge Presser Foot. The side walls of the gauges vary in depth to accommodate fabrics and constructions of different thickness. Smart, even stitching accents are effectively placed with the Gauge Presser Foot.

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# CHART SHOWING RELATIONSHIP OF TYPES OF FABRICS, THREAD AND NEEDLE SIZES AND MACHINE STITCHES TO THE INCH

TYPES OF FABRICS	THREAD SIZES	NEEDLE SIZES	MACHINE STITCHES PER INCH	
Filmy materials comparable to Net, Marquisette, Organdie, Ninon.	100 Cotton 00 and 000 Silk	9	INSIDE SEAMS	TOP STITCHING
			20	30
Sheer materials comparable to Lawn, Dimity, Voile, Batiste, Chiffon, Rayon Sheer, Rayon Crepe.	80 to 100 Cotton O Silk	11	16	20
Lightweight materials comparable to Gingham, Chambray, Sheer Wool Crepe, Taffeta.	60 to 80 Cotton A and B Silk	14	12	18
Medium lightweight materials comparable to Pique, Poplin, Percale, Cretonne, Chintz, Faille, Bengaline, Wool Flannel, Wool Jersey, Wool Crepe.	50 to 70 Cotton B Silk	14	12	16
Medium heavy materials comparable to Corduroy, Crash, Gabardine, Velveteen, Rep.	40 to 50 Cotton C Silk	16	10	12
Heavy materials.comparable to Sailcloth, Denim, Ticking.	30 to 40 Cotton D Silk	18	8	10
Plastic materials	Mercerized Cotton	11	10	12

When ordering needles, always specify "Class and Variety 15x1" and state the size and quantity required.