

SINGER

650/670



THE SINGER COMPANY



With your new
SINGER* Sewing Machine



GOLDEN
Panoramic

You will be able to
follow the latest international fashion



CONGRATULATIONS.....on your choice of a top quality fully-featured Singer Sewing machine. With it you will be able to create beautifully tailored clothing for your entire family, as well as handsome decorative additions to your home. The advantages built into this fine precision machine can be fully enjoyed and appreciated **only** if you completely understand how to properly operate both the machine and its versatile accessories.



BEFORE YOU SEW please go through this instruction book, page by page while seated at your machine. Examine each section and perform each sewing operation in the sequence shown.

These few minutes of careful preparation will thoroughly familiarise you with the full range of the machine's capabilities.

You can then proceed confidently with whatever fashion creation or other sewing project you may wish to accomplish.

Congratulations again on your wise choice of the Singer Sewing machine that will prove to you for many years to come.....

**WHAT'S NEW FOR TOMORROW
IS AT SINGER TODAY!**





SINGER* Service

Wherever you are, you will find expert, dependable Singer Service available. If your Sewing Machine should need servicing, call your nearest Singer Sewing Centre to be sure of warranted Singer Parts and Service. You will find the address in the telephone directory.

* A Trademark of THE SINGER COMPANY

Form 30—125 G rev. engl.

Printed in Western Germany

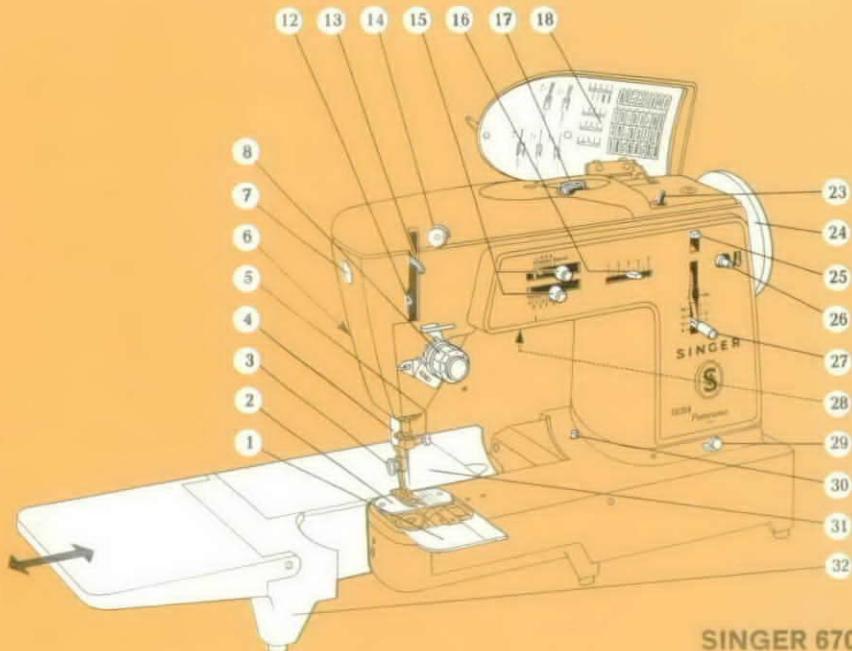
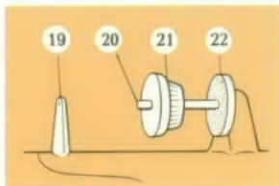
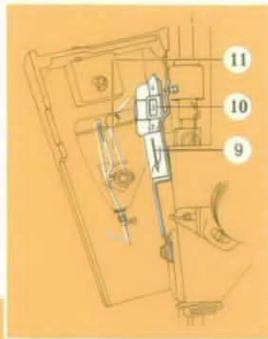
Copyright © 1967 by The Singer Company

Contents

(See page 86 for Index)

Operating the Machine	Page	Sewing	Page
Principal Parts of the Machine	4, 5	Straight Stitching	22
Electric Drive	6	Zig-Zag Stitching	29
Two Speed Foot Controller	6	Satin Stitching	31
Treadle Drive	8	Practical and Decorative Stitching	32
Sewing Light	7, 9	Blind Stitch	32
Removal and Replacement of Detachable Cloth Plate (Applies only to 670 Convertible Machine)	4	Multiple Stitch Zig-Zag	32
Stitch Pattern Selectors	10	Overedged Seams (Stretch Stitch)	33, 70
Stitch Width Selector	11	Two-Needle Stitching	36
Stitch Length Regulator	12	Chainstitching (Basting)	39
Throat Plate and Presser Foot	13	Darts	56
Pressure Adjustment	15	Applique	49
Needle Thread Tension	15	Mending	58
Needles and Thread	16	Binding	68
Spool Holder	17	Pleating	73
Winding the Bobbin and Threading the Bobbin Case	18	Button Sewing	53
Upper Threading	20	Buttonholes	46
Regulating the Thread Tensions	27	Gathering	71
Attachments	45	Zipper Insertion	62
General Purpose Foot	54	Hemmed Seams	60, 66
Special Purpose Foot	46	Corded Seams	64
Straight Stitch Presser Foot	13, 22	Embroidery Work	74
Narrow Hemmer	66	Darning	59, 74
Seam Guide	60	Seam Finishes	55
Zipper Foot	63	Application of the Cylinder Bed	76
Binder	68		
Button Sewing Foot	53		
Darning and Embroidery Foot	74		
Presser Foot for Overedged Seams	70		
Ruffler	71		
Caring for your Sewing Machine	80		

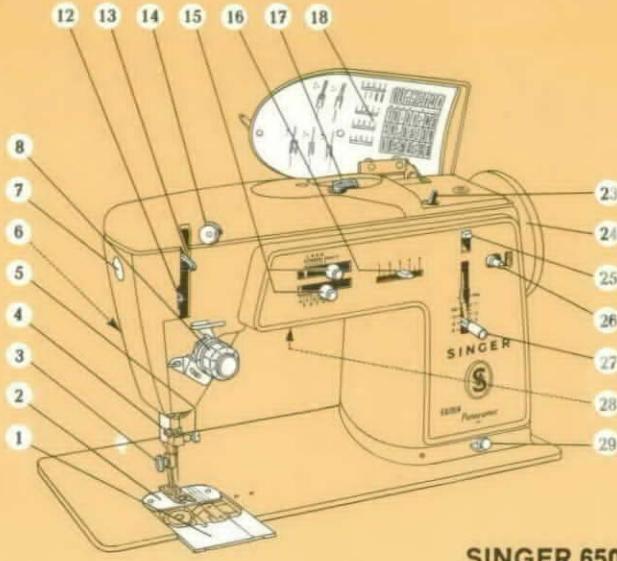
The Principal Parts of Your Singer Sewing Machine



SINGER 670

To Remove and Replace Detachable Cloth Plate

To detach cloth plate from machine, press cloth plate disengaging button 30 on machine bed and withdraw plate. Replace cloth plate in same manner, locating two pins in plate with corresponding holes in machine bed. Push cloth plate to right until it snaps in locked position.



SINGER 650

Principal Parts for 650 and 670 Machines

- | | |
|-----------------------------------------------------------|---------------------------------|
| 1 Slide Plate | 19 Thread Guide |
| 2 Throat Plate | 20 Spool Spindle |
| 3 Presser Foot Screw | 21 Thread Lead-off |
| 4 Presser Bar | 22 Spool Seat |
| 5 Needle Clamp | 23 Light Switch |
| 6 Presser Bar Lifter Lever | 24 Hand Wheel |
| 7 Pressure Release Button for Stitch
Pattern Selectors | 25 Bobbin Winder Engaging Lever |
| 8 Needle Thread Tension | 26 Bobbin Winder Spindle |
| 9 Built-in Needle Threader | 27 Stitch Length Regulator |
| 10 Pressure Regulating Dial | 28 Built-in Sewing Light |
| 11 Threading Chart | 29 Bobbin Winder Pre-tension |
| 12 Chainstitch Thread Guide | |
| 13 Link Type Thread Take-up Lever | |
| 14 Needle Thread Pre-tension | |
| 15 Stitch Pattern Selectors | |
| 16 Stitch Width Selector | |
| 17 Special Disc Holder | |
| 18 Built-in Stitch Chart | |
- For 670 Machine only**
- | |
|-----------------------------------|
| 30 Cloth Plate Disengaging Button |
| 31 Attachment Box Lid |
| 32 Detachable Cloth Plate |

Electric Drive

Before setting the machine into operation, be sure that the voltage and cycles stamped on the electrical nameplate **B** are within the range marked on the electric meter installed by the local power company.

To plug in the machine, push 3-pin terminal plug **C** onto 3-pin terminal block at the right end of machine. Then connect plug **A** to electrical outlet.

Foot Controller

The foot controller sets the machine into operation and regulates its speed. The harder you press the pedal **D**, the faster the machine will sew until the machine reaches its top speed.

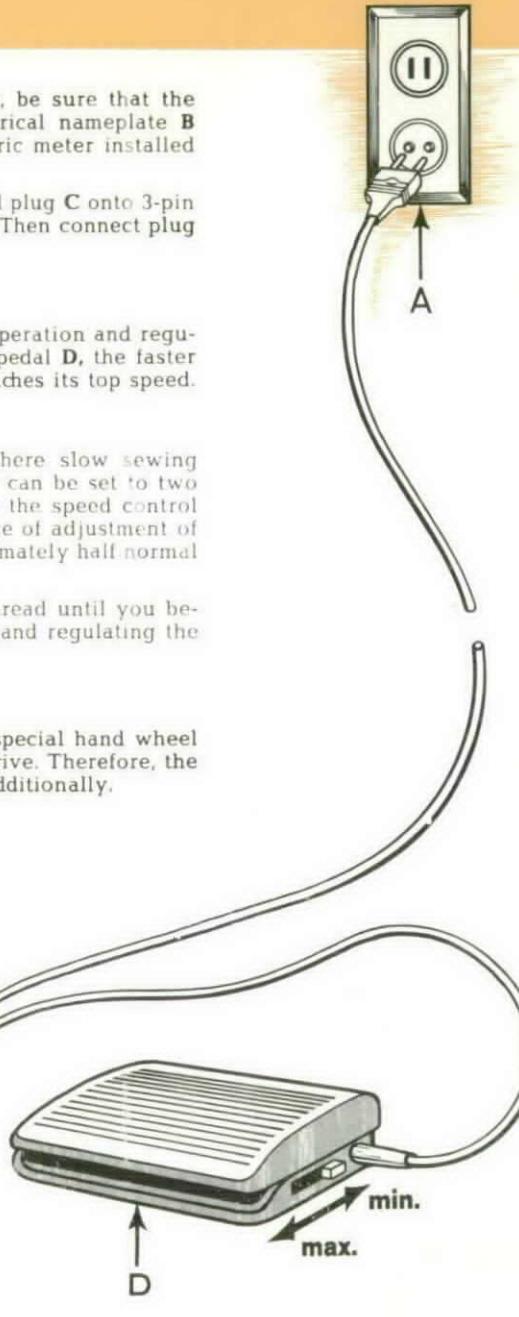
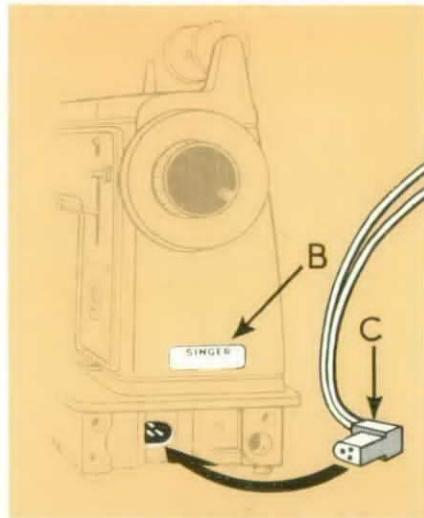
Lower Speed Control

For easier speed control, particularly where slow sewing operations are desired, the foot controller can be set to two speed ranges. To set for slow speed slide the speed control switch to "MIN". In this position, the range of adjustment of the controller will be limited up to approximately half normal top speed.

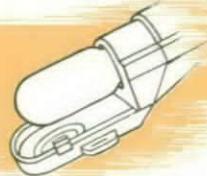
Practice operating the machine without thread until you become accustomed to guiding the material and regulating the speed.

Information for 650 G 14 Machine

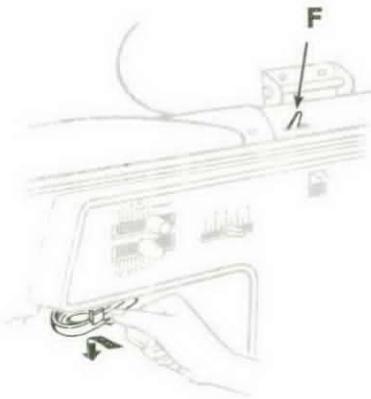
The 650 G 14 machine is equipped with a special hand wheel which can be used for motor and treadle drive. Therefore, the machine can be changed to treadle drive additionally.



Singer Sewing Light



The built-in sewing light is turned on or off by means of light switch F, which is located beneath the arm top cover lid.



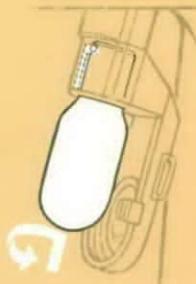
To change the light bulb

Disconnect plug from electrical outlet before removing old bulb. With thumb of right hand, push in and down on tab of light lens (see illustration).

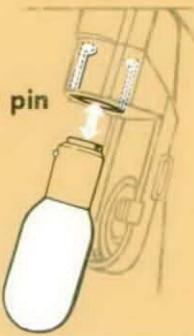
Do not attempt to unscrew bulb out of socket. Press it into socket and at the same time turn bulb over in direction shown to unlock bulb pin G. Withdraw bulb.

Press new bulb into socket, with bulb pin G entering slot of socket, and turn it over in direction shown to lock bulb pin G in proper position.

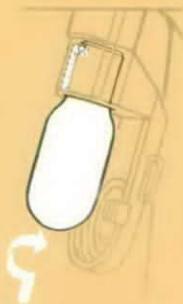
Unlocks



Bulb pin
G



Locks

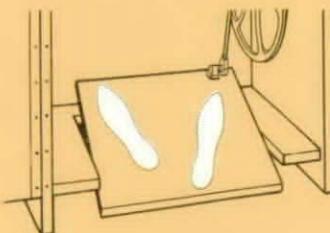
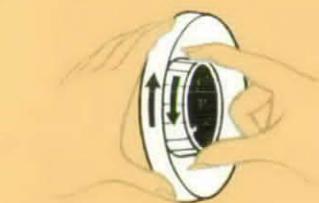


Treadle Drive (For 650 Machine only)



In case that you do not have any experience in sewing with treadle drive — first it is necessary to become familiar with this type of drive.

Loosen stop motion screw and place both feet on treadle.



Turn hand wheel over toward you, allowing feet to move freely and lightly with motion of treadle. Practise this motion until you are able to re-start machine with hand wheel turning over toward you. Then tighten stop motion screw for normal machine drive.

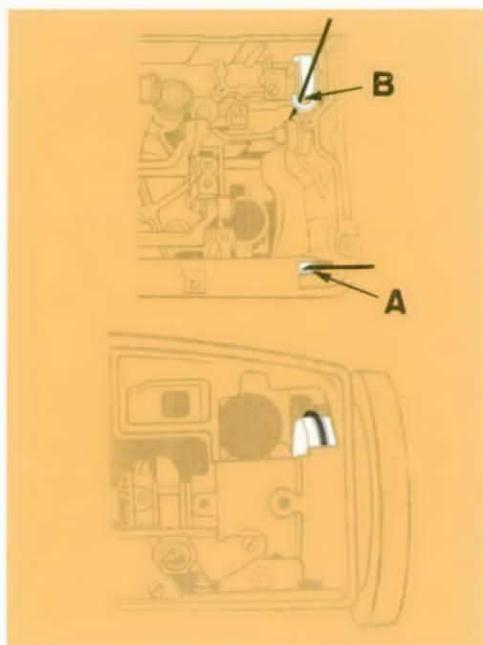
To Replace Belt

Remove arm top cover (as described on page 83).

Insert end of belt into cutout **A** and lead to top so that it enters groove in hand wheel. Lead belt around hand wheel and down through guide of treadle belt idler pulley bracket **B**.

Lead belt around band wheel in cabinet. Join both ends of belt by means of belt clip. Tension on belt should be only heavy enough to keep belt from slipping.

Replace arm top cover.

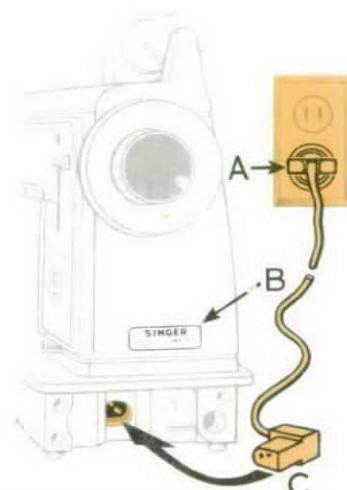


Connection of Sewing Light

Before inserting electric plug **A**, be sure that voltage stamped on nameplate **B** is within range marked on the electric meter installed by the local power company.

Electrical Connection for Machine. Push 3-pin terminal plug **C** onto 3-pin terminal block at right of machine and connect plug **A** at other end of cord to electric outlet.

Bulb replacement is described on page 7.

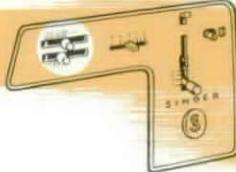


Information for 650 G 14 and G 15 Machine with Selective Motor and Treadle Drive

The 650 G 14 and G 15 machines are equipped with a special hand wheel, which can be used for motor and treadle drive. Therefore, both machine models can be changed either to treadle or electric drive additionally.

When changing over from treadle drive to electric drive, the belt has to be removed from the band wheel in the cabinet by throwing off toward cabinet wall.

Stitch Pattern Selectors



These buttons control the pattern of your stitches and must be set before you start the machine for any purpose.

Setting for:

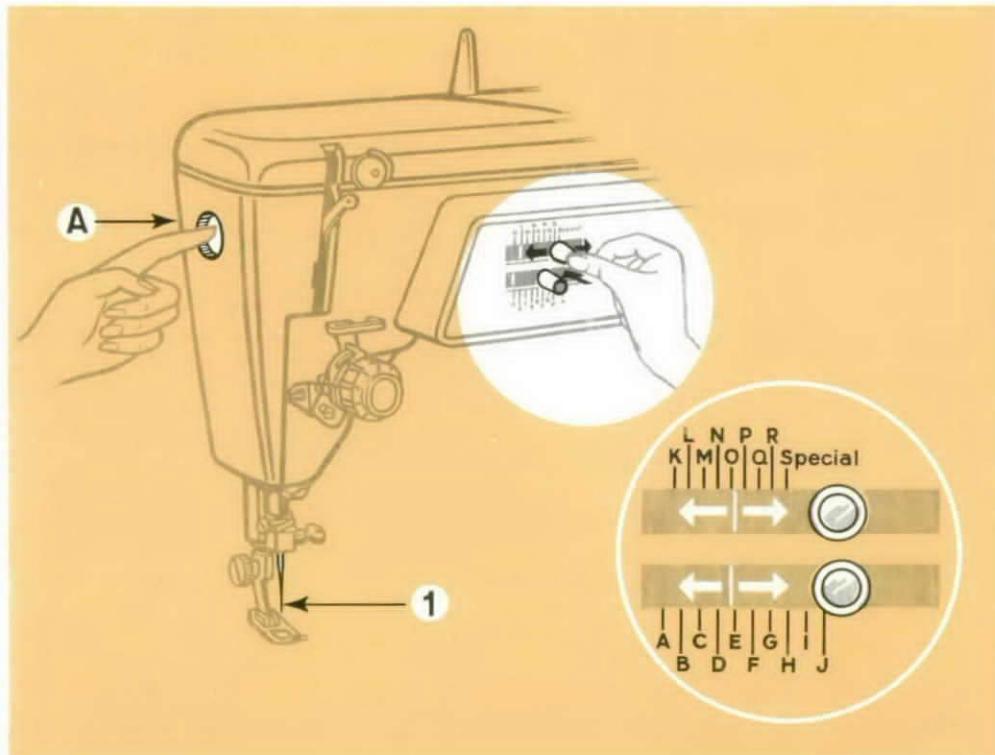
Straight stitching: AK

Zigzag stitching: BL

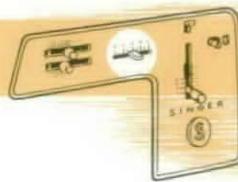
Many combinations are possible for **decorative sewing** and **practical sewing**. Some of these combinations are shown on the stitch chart inside the cover on top of machine. This cover may be left open while sewing.

To select required stitch pattern

1. Turn hand wheel until needle is at its highest position.
2. Depress push button A and keep depressed until selection is completed.
3. Push stitch pattern selector button in and slide to left or right to bring indicator line to desired setting.



Stitch Width Selector



You will also need to set this lever for sewing. The stitch width selector does two jobs:

- For straight stitching, this lever sets the needle position (centre, right or left). Normally, you will use setting 3 (centre).

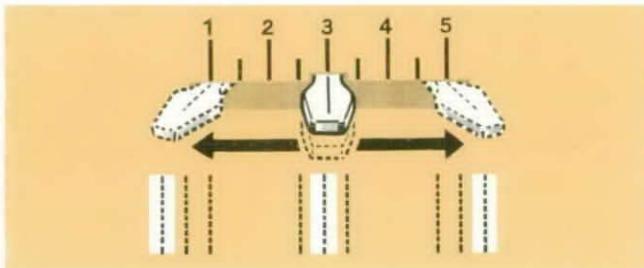
Therefore, memorize the normal setting for straight stitching: AK 3.

- For zig-zag stitching, this lever controls the setting of the width.

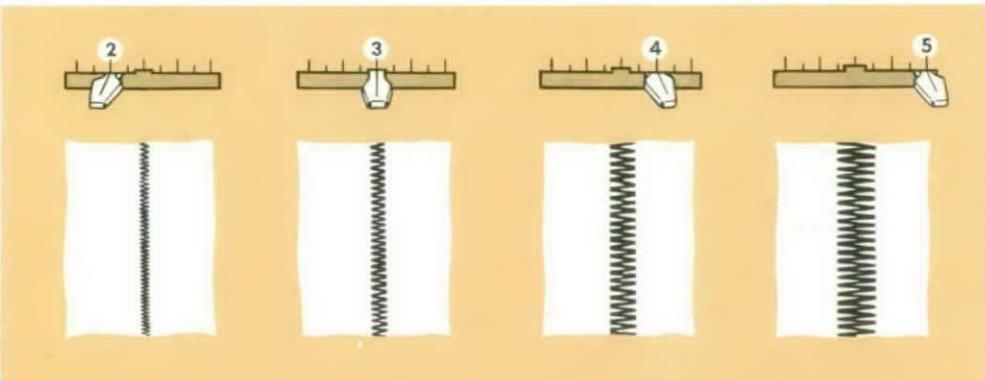
To set stitch width selector

To position, depress stitch width selector and move it to the desired setting, either left or right. Do not set stitch width selector while the needle is in the fabric. The numerals indicate five positions but intermediate settings may also be used.

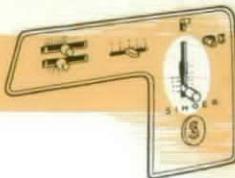
Straight Stitching: Needle Position Setting



Zig-Zag Stitching: Stitch Width Setting



Stitch Length Regulator



This lever does two jobs: It controls the stitch length and allows you to stitch either forward or in reverse direction.

The numerals on either side mean:

Left hand side (20 — 6):
Number of stitches per inch.

Right hand side (1 — 4):
Stitch length in millimeters.

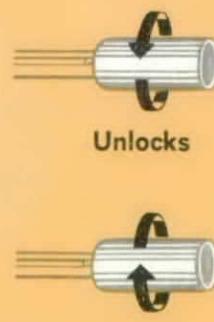
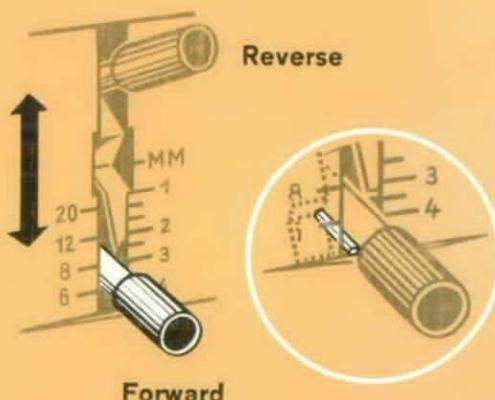
A supertine control can be made in case of stitch length less than 1 mm or 20 stitches per inch.

The greatest stitch length, 4 mm (6 stitches per inch), can be locked in place when stitching folds, pleats or multiple layers of heavy fabric.

To set stitch length

Loosen thumb nut by turning to left. Position lever for desired stitch length. Tighten thumb nut by turning to right.

By raising the stitch length regulator to the highest point, reverse stitching is accomplished at the same stitch length as forward. If reverse stitching is desired with locked stitch length position at 4 mm (6 stitches per inch), turn thumb nut to the left until stitch length regulator can be adjusted to its highest point at reverse stitching.



Throat Plate and Presser Foot



Various throat plates and presser feet are included in the attachments that come with your SINGER sewing machine. They have been designed to help you do every kind of sewing easily and perfectly.

What is more, both parts can be attached and removed with no trouble at all: The throat plate is held by two magnets and the presser foot is held by a thumb screw.

1 General Purpose Throat Plate

Because of the wide needle hole this throat plate can be used for all utility sewing which includes straight and zig-zag stitching. It **must** be used for:

- Alternating between straight and zig-zag stitching, or
- Placing a line of straight stitching to the left or right of center, or
- Sewing with two needles.

Normally, the general purpose presser foot or special purpose presser foot are used with this throat plate.

2 Straight Stitch Throat Plate

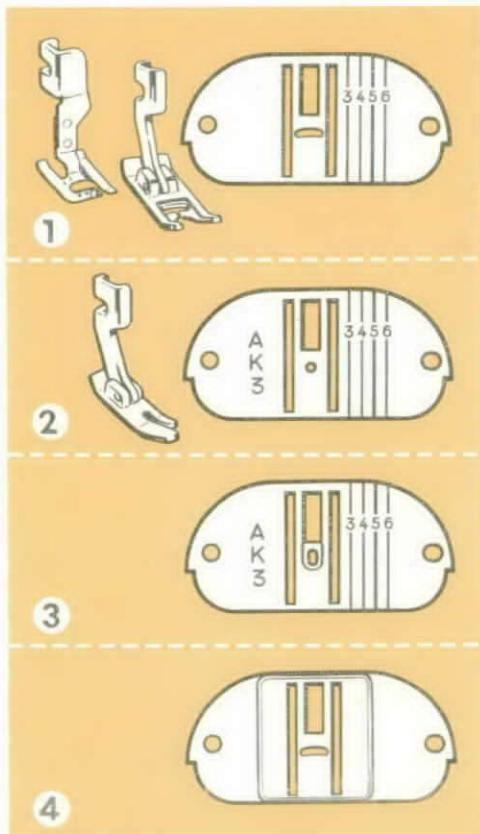
This has a round hole and can only be used with selectors set on AK 3 (straight stitching, center needle position). Together with the straight stitch presser foot, this throat plate should be used for seams where perfect accuracy is needed. For example: Precision stitching of a fold, curved and scalloped edges, edge stitching etc. For best sewing results, these fittings should be used for stitching on delicate or spongy fabrics.

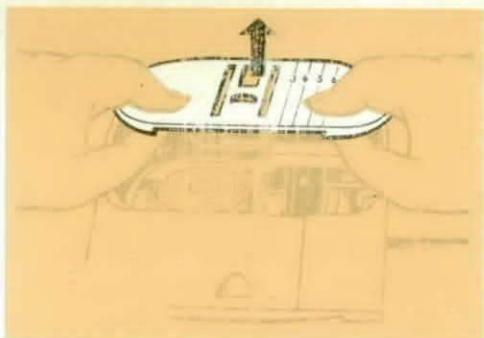
3 Chain Stitch Throat Plate

For instructions, see page 40.

4 Feed Cover Plate

This feed cover plate raises the fabric so that the feed dog cannot feed the material. It is used for button sewing, darning and embroidery work.



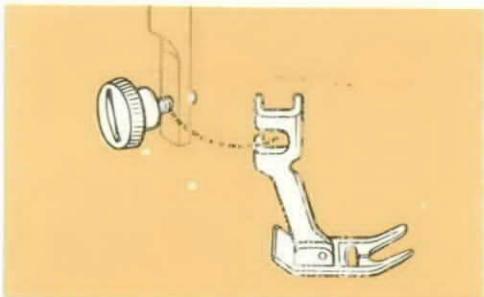


To Remove the Throat Plate

Raise presser bar. Turn hand wheel to raise needle to its highest position. Open slide plate. Place both thumbs under throat plate and lift plate from machine.

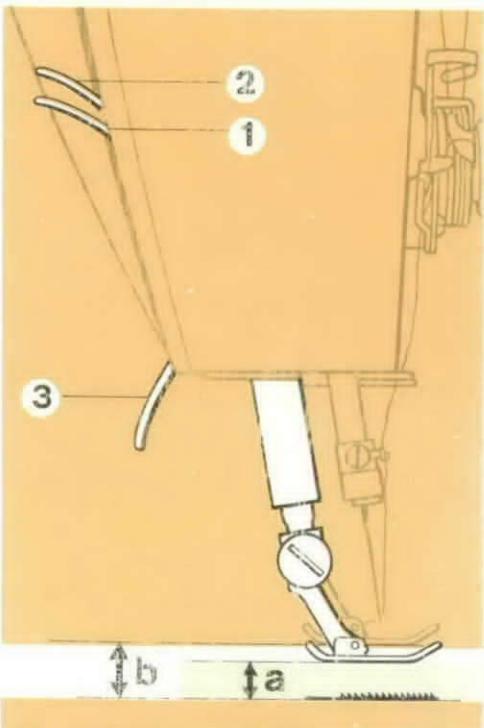
To Insert the Throat Plate

Place throat plate in position over two clamping pins and release. The magnets draw the throat plate into proper position. Close slide plate.



To Change the Presser Foot

Turn hand wheel to raise needle to its highest position. Raise presser foot. Loosen presser foot screw until the presser foot can be slipped from around the presser bar.



Presser Foot Lifter Lever

A normal lift of the presser foot lifter lever brings it up into position 1 and by doing so, the presser foot releases opening a. Normal fabrics can be easily placed under the presser foot.

For easier placing of thicker fabrics, the presser foot lifter lever can be raised further to position 2. This raises the presser foot to its highest position b.

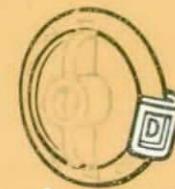
When raising presser foot lifter lever into position 2 you must overcome a spring pressure and keep the lifter lever in position since it does not lock in this position; but when released the spring pressure returns the lifter lever into position 1. Be sure that the presser foot lifter lever is set on position 3 before sewing and not left in position 1 in error.



Increase



Decrease



Position for darning
and embroidery
operations

Pressure Dial

This dial regulates the pressure that the presser foot exerts on the fabric. Smooth, even handling of several thicknesses of fabric results when pressure is correctly regulated. Heavy pressure is for thick fabric and light pressure is for thin fabric.

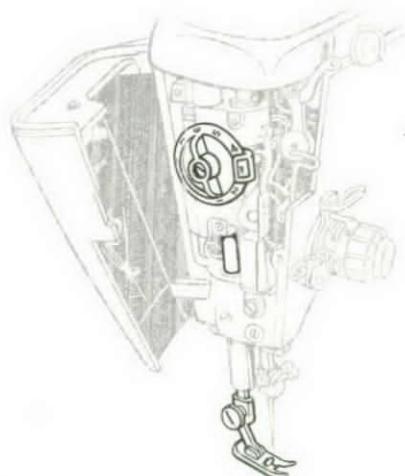
Too light a pressure will result in irregular feeding which affects both quality of stitch and evenness of seams.

Too heavy a pressure not only affects stitch and seam quality but will also mar smooth surfaces and pile fabrics.

Surface finish, as well as the weight and texture of the fabric, must be considered in determining the amount of pressure needed.

To set the pressure

- Lower the presser foot
- To increase pressure, turn dial to higher number.
- To decrease pressure, turn dial to lower number.
- For darning, turn dial to D, which releases pressure and permits darning without an embroidery hoop.



Needle Thread Tension

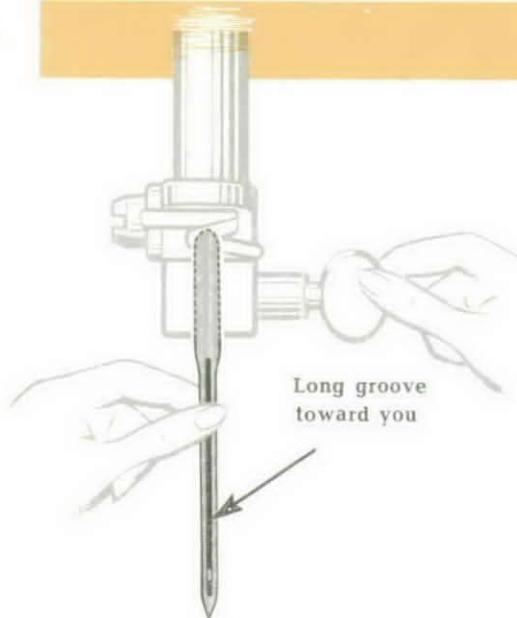
This dial regulates the degree of tension on your needle thread.

To increase tension: Turn dial to right hand side (to higher number).

To decrease tension: Turn dial to left hand side (to lower number).

For detailed instructions, see pages 27 and 28.

Needles and Thread



This machine uses SINGER needles Catalogue 2020 (15×1), Sizes 9, 11, 14 and 18

To Change the Needle

Raise needle bar to highest position. Loosen the needle-clamp screw and remove the needle. Insert new needle in clamp, with the flat side of the needle to the back and the long groove toward you; push it up as far as it will go.

Needle and Thread Selection

For perfect stitching select correct needle and thread to correspond with fabric, according to the following table.

Be sure to use similar threads for both needle and bobbin.

Fabric, Thread, Needle and Stitch Length Chart*

Fabrics	Thread Sizes	Needle Sizes	Straight Stitching Machine Stitches per inch mm	
Delicate — tulle, chiffon, fine lace, silk, organdie, fine tricot	60 Mercerized 100 Cotton Fine Synthetic Thread	9	15 to 20	1—1,5
Lightweight — batiste, organdie, Jersey, voile, taffeta, silk, crepe, plastic	50 Mercerized 80 to 100 Cotton Pure Silk Synthetic Thread	11	12 to 15 (8 to 10 for plastic)	1,5—2 2,5—3
Medium Weight — gingham, man-made fabric, pique, linen, chintz, faille, satin, fine corduroy, suitings, cotton-backed plastic	50 Mercerized 60 to 80 Cotton Pure Silk Synthetic Thread	14	12 to 15	1,5—2
Medium Heavy — gabardine, tweed, sailcloth, denim, coatings, furnishing fabrics	40 Mercerized 40 to 60 Cotton	16	10 to 12	2—2,5
Heavy — overcoatings, twill, upholstery fabrics, canvases	36 Mercerized 24 to 40 Cotton	18	8 to 10	2,5—3

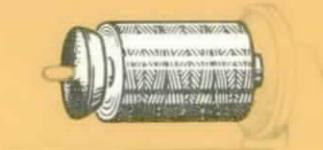
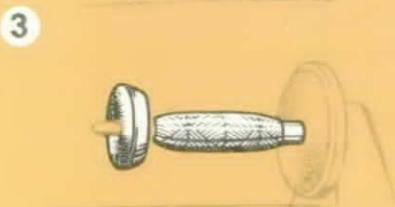
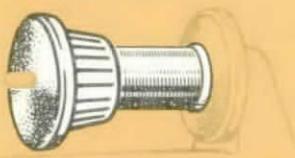
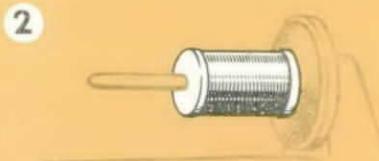
*) Does not apply to chainstitching.

Spool Holder

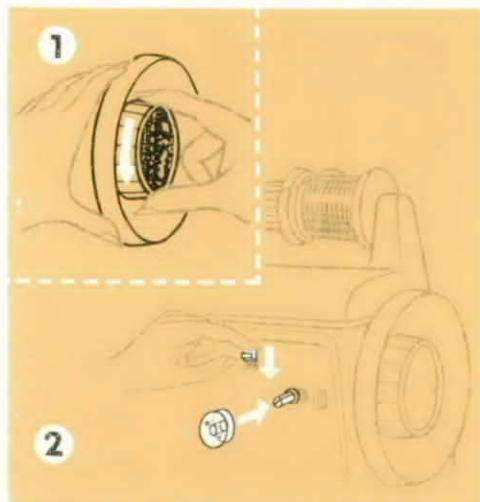


Spools of various sizes are firmly held on the spool holder of your SINGER sewing machine. The spool does not turn and the holder allows thread to unwind over the thread lead-off without dragging or snatching.

1. Slip spool seat onto spindle (cushion side facing spool of thread).
2. Slip spool of thread onto spindle.
3. Press thread lead-off against spool of thread, as shown. Select thread lead-off according to the size of thread spool used.



Bobbin Thread

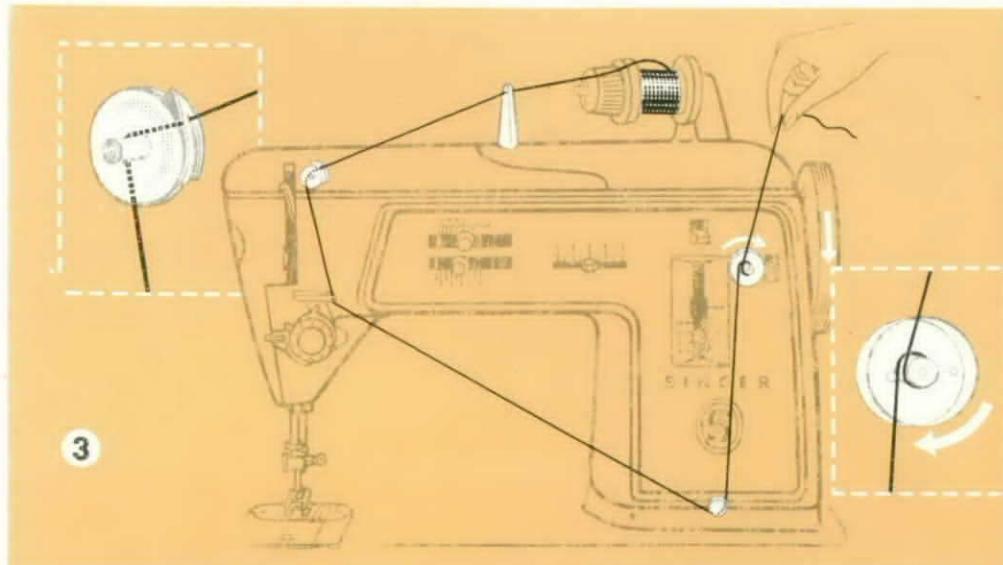


To Wind the Bobbin

- 1 Release hand wheel: Turn stop motion screw with right hand in direction shown by arrow while holding hand wheel with left hand.
- 2 Slip bobbin onto bobbin winder spindle and depress bobbin winder engaging lever.
- 3 Thread the machine as shown. Wind several coils of thread around the bobbin in direction shown by arrow, and start machine.

A soon as enough thread is wound on the bobbin it will automatically disengage itself.

Stop machine, raise bobbin winder engaging



lever and remove bobbin from bobbin winder spindle.

- 4 Tighten stop motion screw with right hand in direction shown by arrow while holding hand wheel with left hand.

Threading the Bobbin Case

1 Hold bobbin so that thread leads off in direction shown.

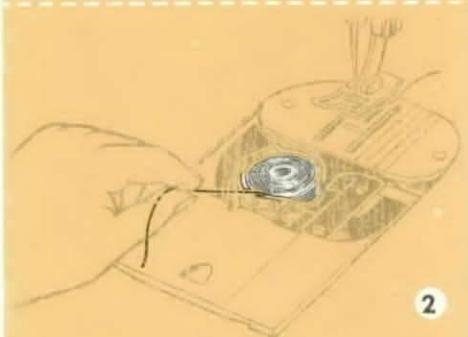
2 Place bobbin in case. Lead thread into slot and under tension spring.

3 Draw thread into notch at end of spring, pulling off about 8 cm (3 inches) of thread across the bobbin.

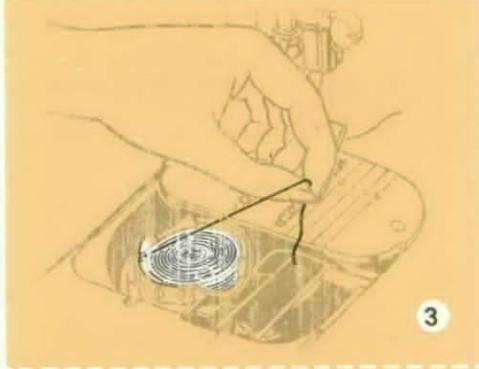
4 Close slide plate allowing thread to enter notches shown.



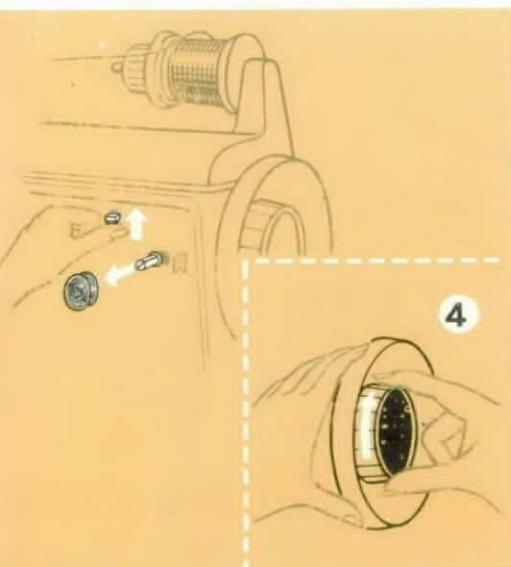
1



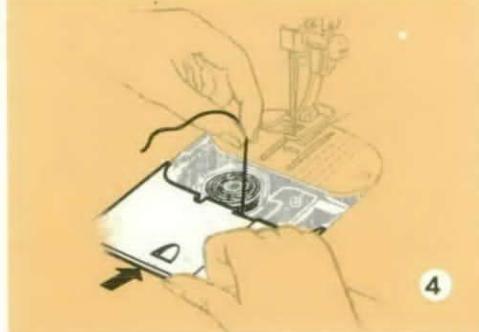
2



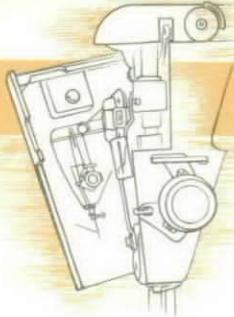
3



4



4



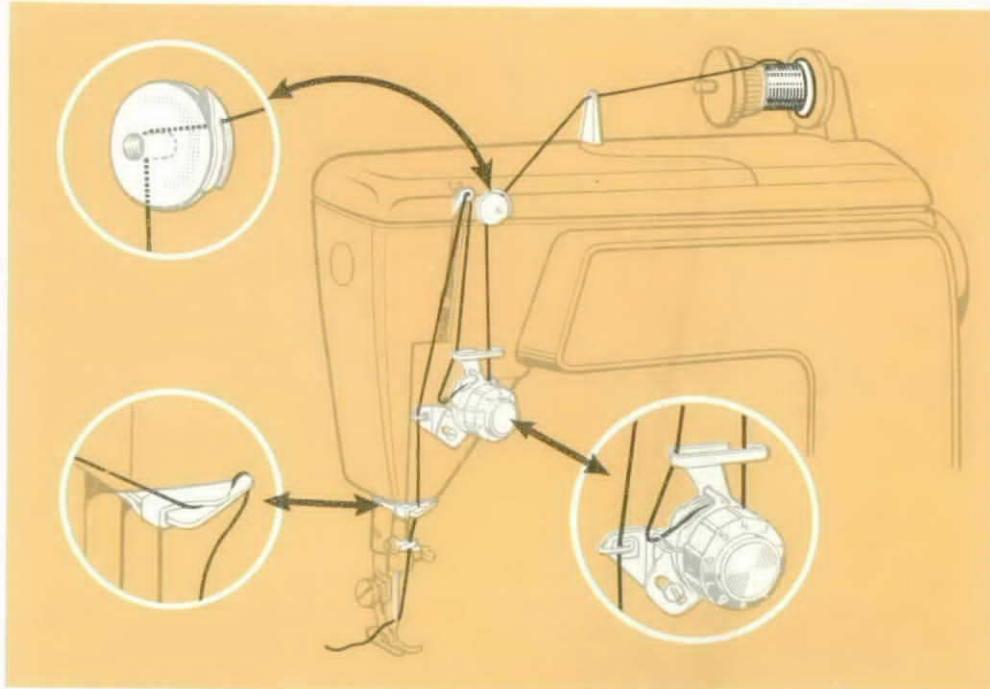
Upper Threading

Turn hand wheel to raise take-up lever to its highest position. Raise the presser foot. Slip spool of thread onto spool holder and lead thread through all threading points shown. Thread needle from front to back. The needle threader may be of assistance to you for the threading. Draw sufficient thread (approx. 3 inches [8 cm]) through eye of needle with which to start sewing.

Threading with Built-in Needle Threader

For considerable ease in threading, use the built-in needle threader.

Lead thread through all threading points up to needle as shown on illustration below.



Raise needle to its highest position and lower presser foot.

Open face plate. Tilt needle threader out of holder, swing toward you down to needle and place it in location screw **A** at needle bar until it slips into the position, as shown in figure 1. (If necessary, correct height of location screw by slightly turning the hand wheel.)

While pushing slightly against location screw **A**, draw threader toward you and the threader hook will pass through the needle eye. Insert thread (Fig. 2).

Pull out threader toward rear of the machine and then tilt toward the left (Fig. 3).

Removal and Replacement of Threading Hook

(Illustration 4)

To Remove Threading Hook

Swing down needle threader **a**. Remove screw **d**, being careful not to lose washer **c**.

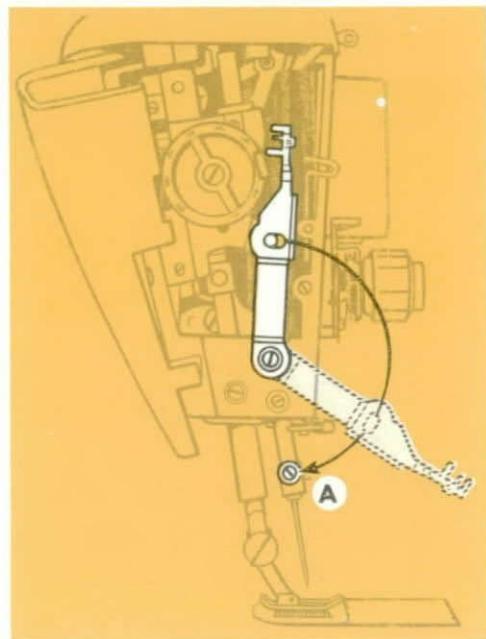
To Replace Threading Hook

Prepare screw **d** for inserting with washer **c**.

Position threading hook **b** (with thread slot up) to needle threader.

Align the holes in the hook and needle threader.

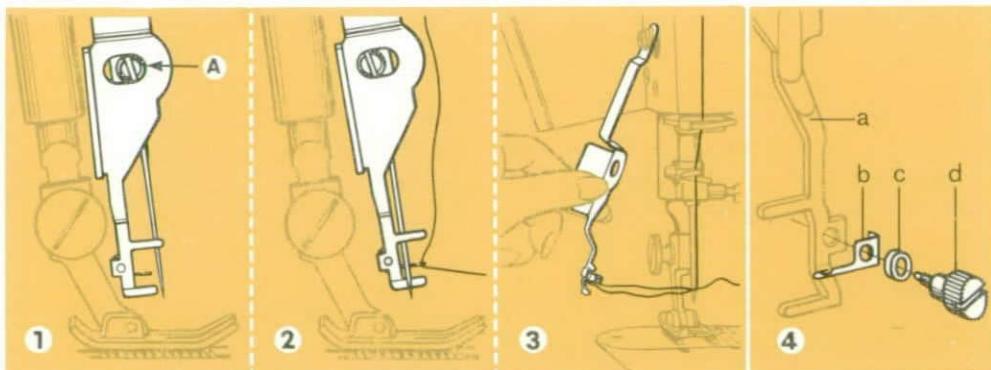
Replace screw together with washer.



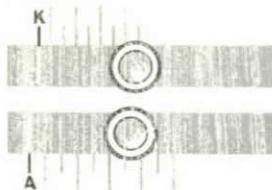
Push rear right angle edge of hook against needle threader and tighten screw.

Bring needle threader into position as shown in illustration 1 and gently swing into needle eye to check hook setting.

Note: Use caution to avoid damage to new hook. The hook must pass freely the needle eye.

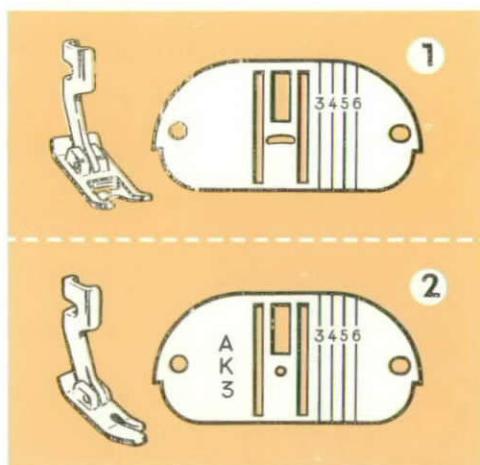


Straight Stitching



Settings and Fittings

When setting the stitch pattern selectors at AK (straight stitching) and the stitch width selector at 3 (to locate centre needle position) you can use the following two types of equipment:



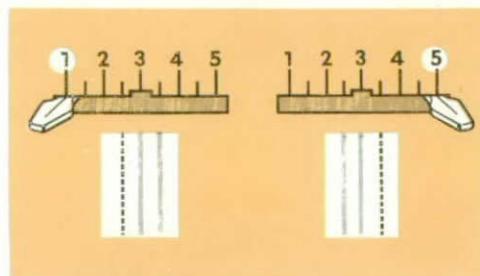
1. General purpose throat plate and general purpose presser foot.

This is the basic equipment for all utility sewing.

2. Straight stitch throat plate and straight stitch presser foot.

This equipment should be used where accurate straight stitching is required, when stitching sheer and flimsy fabrics.

This equipment requires stitch width selector setting 3, otherwise the needle hits the throat plate or presser foot and breaks.



To meet special requirements, you may wish to place a line of stitching to the left or right of center. You must use the general purpose throat plate and presser foot in this case (equipment 1).

Stitch width selector setting 1 places stitching to the left; setting 5 places it to the right. Intermediate settings may also be used.

Raise needle above fabric before moving selectors.

Raising The Bobbin Thread

Now that you have threaded both the bobbin case and needle, you will need to raise the bobbin thread through the needle hole in the throat plate.

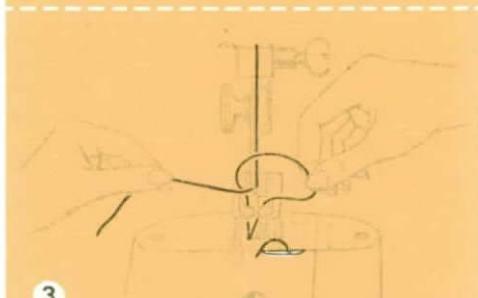
1. Hold needle thread lightly with left hand (thread **above** presser foot). Turn hand wheel slowly toward you so that needle enters throat plate.



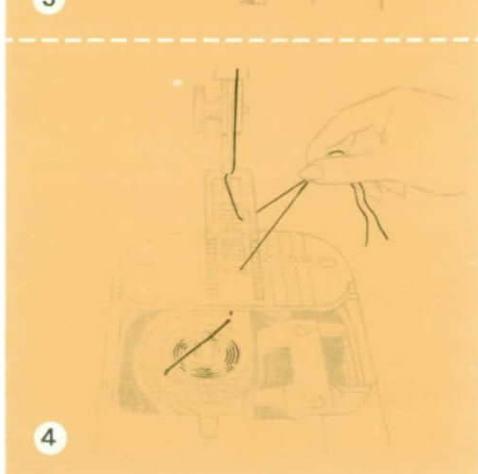
2. Continue holding needle thread and turning hand wheel until needle rises and brings up bobbin thread in a loop. Pull the needle thread to raise the loop to the eye of the needle.

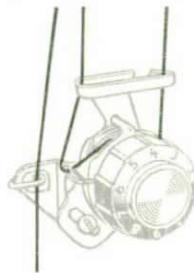


3. Undo the loop with your finger.



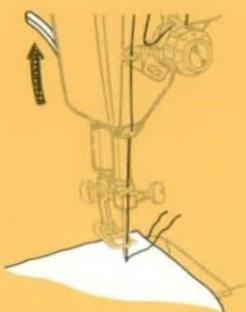
4. Place both needle and bobbin threads diagonally under presser foot, making sure bobbin thread is located in the rear thread guide of the bobbin case.



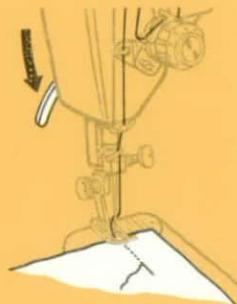


Sewing a Seam

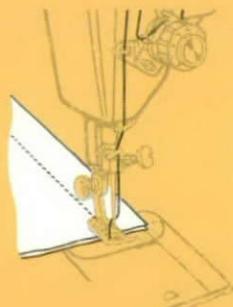
Set stitch length regulator for stitch length desired and needle thread tension to a medium value.



With presser foot raised align fabric with appropriate seam guide line on the throat plate. Position needle into fabric about $\frac{1}{2}$ inch (1 cm) from the rear edge.



Lower the presser foot. Set stitch length regulator to reverse and backstitch to end of material for reinforcement.



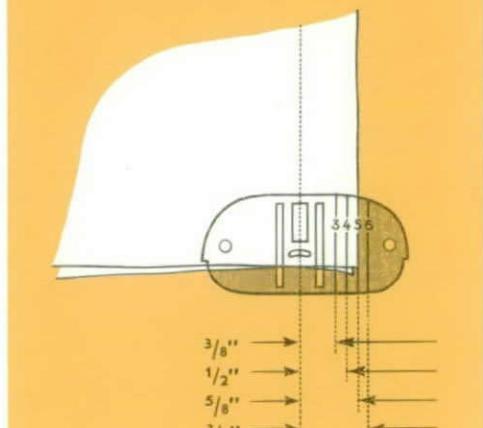
Set regulator for forward stitching and stitch to end of seam.

Guiding and Supporting Fabric

Most fabrics need to be guided in front of the presser foot only.



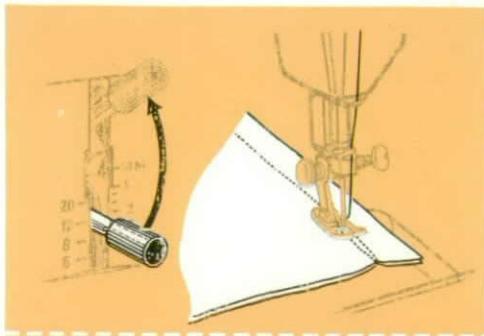
The guide lines on the throat plate are a means to keep the seam straight. The dimensions are shown in the opposite illustration. For extra control of fabric it is best to use the seam guide, described on page 60.



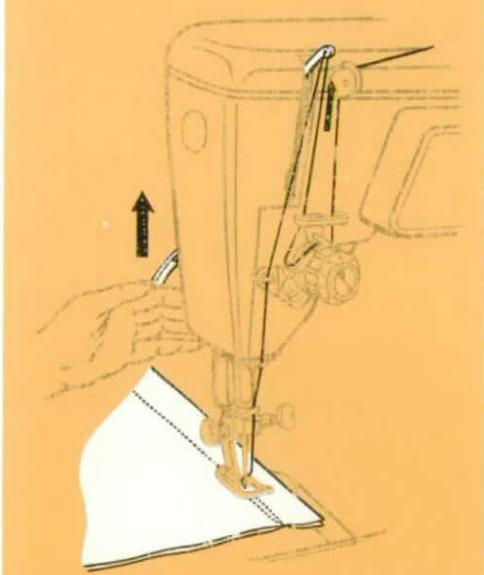
Delicate fabrics, such as chiffons etc., have to be stretched slightly while sewing to prevent fabric from puckering. In this case, hold seam in front and back of the presser foot.

For best sewing results, the straight stitch throat plate and presser foot should be used when straight stitching delicate fabrics.
(Please refer to page 22.)

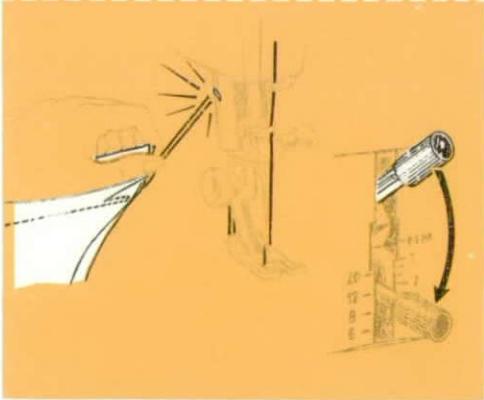




Stitch to edge of fabric to complete seam. Set stitch length regulator to reverse and backstitch somewhat to reinforce end of seam.



Turn hand wheel to bring take-up lever to its highest point. Raise presser foot and remove fabric.



Cut both threads on built-in thread cutter, as shown.

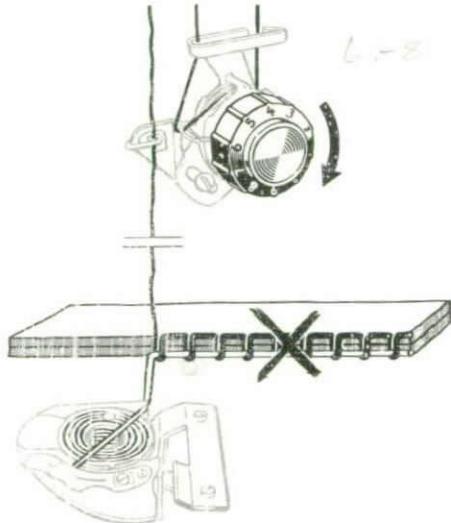
Reset stitch length regulator for forward stitching.

Regulating the Thread Tensions

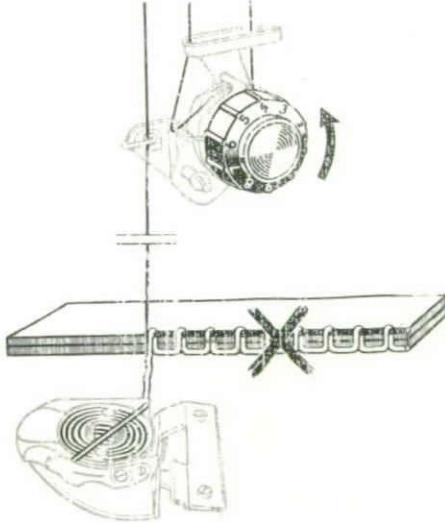
Correct tensions are important. To obtain a perfect stitch, the interlocking of the needle and bobbin threads must take place exactly in the middle of the sewing work.



To determine correct tension setting, sew a trial seam on a sample of your fabric by using medium needle thread tension (approx. 4). If this trial seam shows an incorrect appearance, you can adjust the needle thread tension as follows:



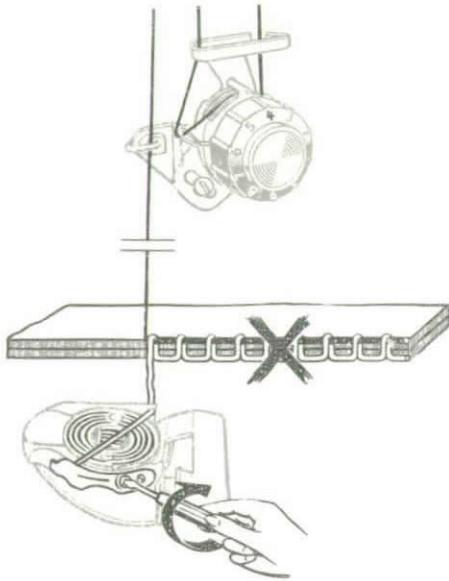
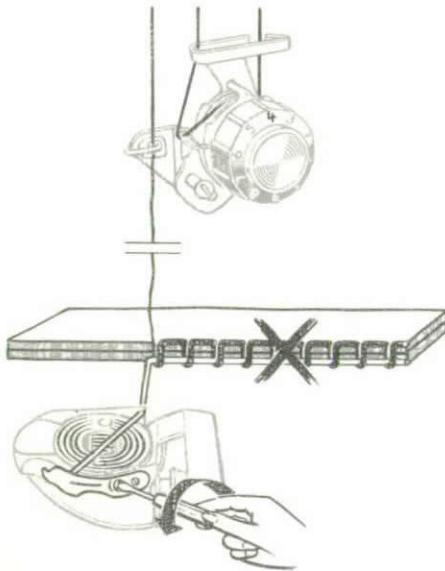
If the thread loops lie on the underside of the seam, the needle thread tension is too loose. Correct by turning the tension dial to higher number.



If the thread loops lie on the upper surface of the seam, the needle thread tension is too tight. Correct by turning tension dial to lower number.

In case a balance cannot be made by adjusting the needle thread tension, the bobbin thread tension has to be corrected (see page 28).

Set needle thread tension to medium value and sew trial seam.



If the thread loops lie on the underside of the seam, the bobbin thread tension is too tight. Correct by turning the screw in direction shown by arrow.

If the thread loops lie on the upper surface of the seam, the bobbin thread tension is too loose. Correct by turning the screw in direction shown by arrow.



In case of Class 670 Machine (convertible), the screwdriver is inserted through the notch in the bed casting beneath the slide plate for altering the bobbin thread tension settings.

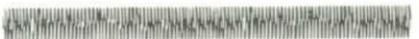
Zig-Zag Stitching



The zig-zag features of your SINGER sewing machine give you an almost unlimited choice of stitch patterns. Some patterns are purely decorative and will give you an individual touch to your clothes and your home while others are used for practical purposes as well.

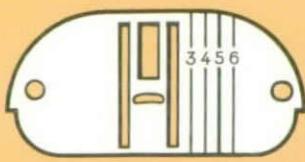
Here are some examples:

- The **plain zig-zag stitch** is used for button-holes, button sewing, seam finishing, applique work etc.
- The **multiple stitch zig-zag** is well suited for fastening elastic and for all types of household mending.
- The **blind stitch** can be used for producing hems, seam finishing etc.
- The **overedged seam** is appropriate for use in producing and finishing of seams in elasticized fabrics.



The stitch patterns are produced either from the built-in discs or from the interchangeable special discs. A great variety of additional stitch patterns can be obtained by combining built-in discs with special discs.

Equipment for Zig-Zag Stitching



General Purpose Throat Plate

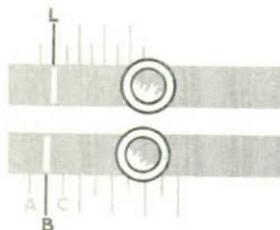


General Purpose
Presser Foot
for plain zig-zag
stitching and open
stitch patterns



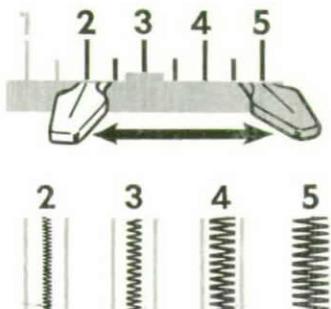
Special Purpose
Presser Foot
for satin stitching

Settings for Plain Zig-Zag Stitching



Stitch Pattern Selectors at B L

Selector setting **L** controls the zig-zag stitch; Selector setting **B** controls the needle position (centre).



Stitch Width Selector: 2 — 5

The stitch width selector controls the stitch width. (Refer to page 11.). The settings range from a maximum of 5 to a minimum of 2.

Raise needle above fabric before moving stitch pattern or stitch width selectors.

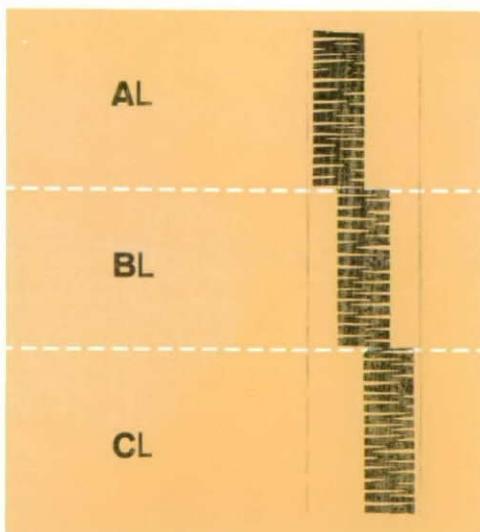
Stitch Pattern Selectors at **A L**
= left needle position.

Stitch Pattern Selectors at **B L**
= centre needle position.

Stitch Pattern Selectors at **C L**
= right needle position.

Left and right needle positions are only effective at stitch widths less than 5.

Selector setting **B** is generally preferred. Settings **A** and **C** are only used when special placement of stitching is desired. For example: Buttonholes, button sewing.



Satin Stitching

Satin stitching, a series of closely spaced zig-zag stitches, uses the fine area of the stitch length regulator.

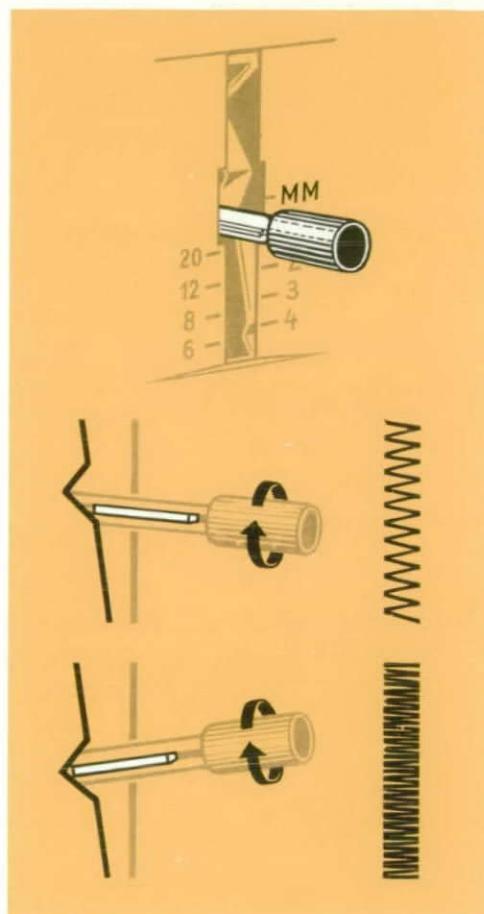
Best sewing results can be obtained by using the special purpose presser foot.

Some fabrics may require the addition of a backing to ensure firm satin stitching. Crisp organdie or lawn is suitable for this purpose.

Adjusting stitch length: The indented area behind the stitch indicator, as shown in the illustration, provides a means of gradually shortening the stitch length.

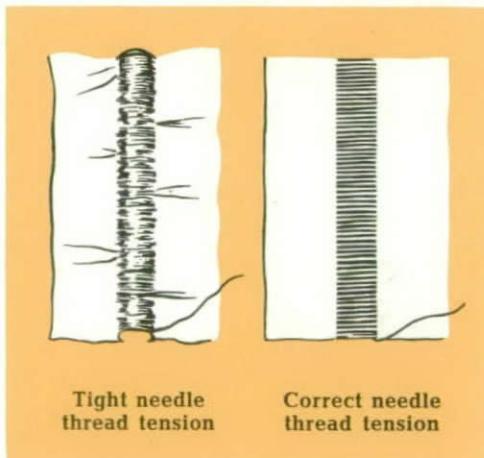
As the regulator knob is turned, the pointer rides deeper into this indentation until a closed satin stitch is obtained.

The exact stitch length will vary with the texture of the fabric. It is advisable to make a test on a scrap of same fabric first, before proceeding with actual work.



Adjusting needle thread tension: Satin stitching requires less needle thread tension than straight stitching or open zig-zag designs. Furthermore, the wider the satin stitch, the lighter the tension on the needle thread must be.

To determine correct tension setting, a test sample should be made on same fabric. A properly balanced satin stitch should lie flat across the material. Any tautness or puckering indicates too high a needle thread tension.

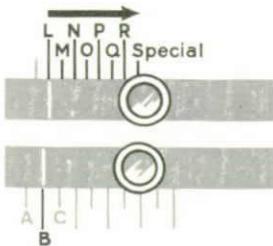


Tight needle
thread tension

Correct needle
thread tension

Practical and Decorative Stitching

Basic Patterns — Built-In Discs

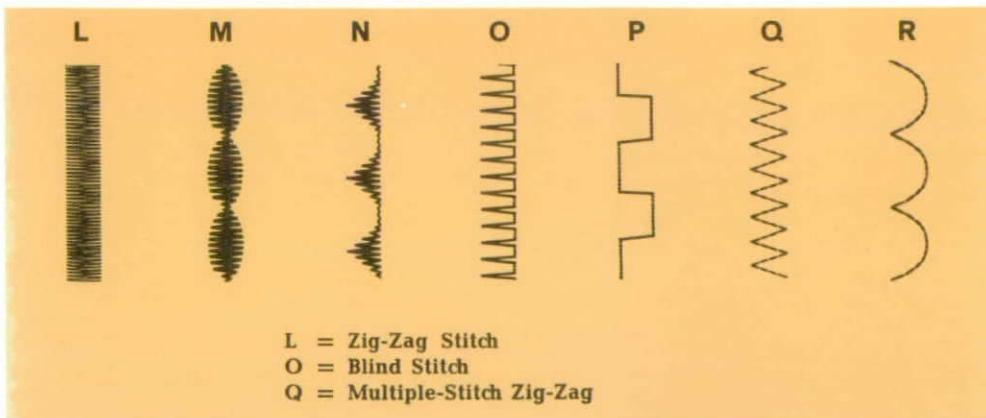


The seven built-in discs are represented by the letters L to R. If you move the stitch pattern selector to one of these letters you will get one of the basic patterns shown below.

The lower stitch pattern selector is generally set at **B** = centre needle position. Setting **A** represents left, and **C** represents right needle position, as described on page 30.

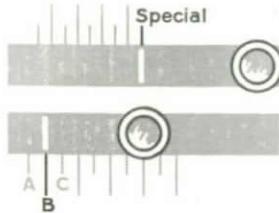
The stitch width selector controls the width of your stitches. The widest stitch width (setting 5) will generally produce the best sewing results for the pattern.

Raise needle above fabric before moving stitch width and stitch selector.



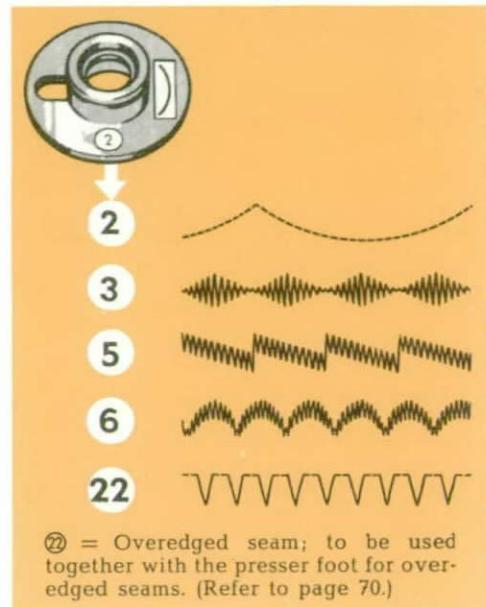
Basic Patterns — Interchangeable Special Discs

The five interchangeable special discs that come with your sewing machine can be used to produce still other basic patterns. The circled numbers (for example ②) in this book indicate special disc numbers.



When you use a special disc, the **upper stitch pattern selector** must always be on Special. If you then set the lower stitch pattern selector on A, B or C, it will place your stitches at left, centre, or right. (Refer to page 30.) B (centre) is generally preferred.

The stitch width selector can then be used to control the stitch width. Also when working



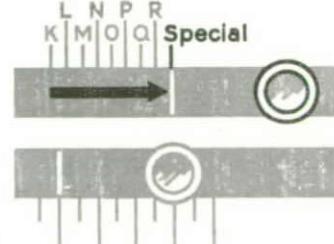
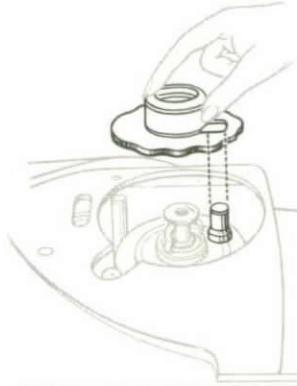
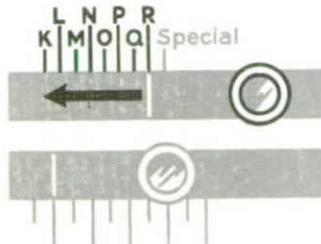
with special discs, setting 5 will generally produce the best sewing results for the pattern.

Combined basic patterns can be seen on pages 34 and 35.

To Change Special Discs

1. Raise needle to its highest point.
2. Move upper stitch pattern selector off special.

3. Raise stitch chart cover. Remove disc and place another on spindle; push down until disc snaps in place.
4. Set upper stitch pattern selector on special.



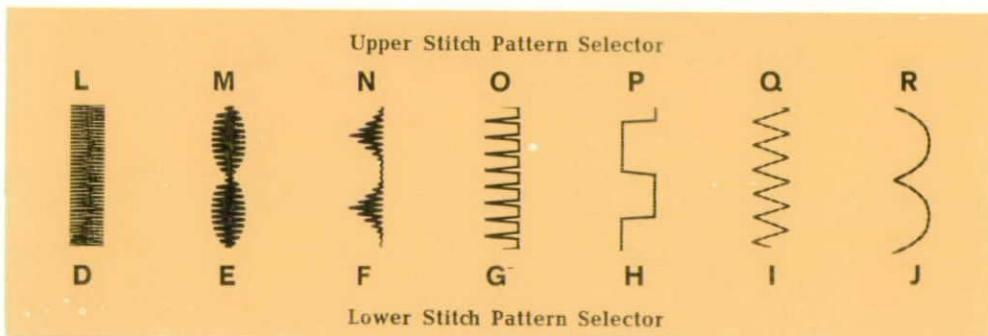
Combination Patterns

You can combine two basic patterns either

- By selecting two built-in disc positions or
- By selecting one built-in disc position and one interchangeable special disc.

As we have seen, the letters L to R of the upper stitch pattern selector represent the built-in discs and **special** represents the interchangeable special discs.

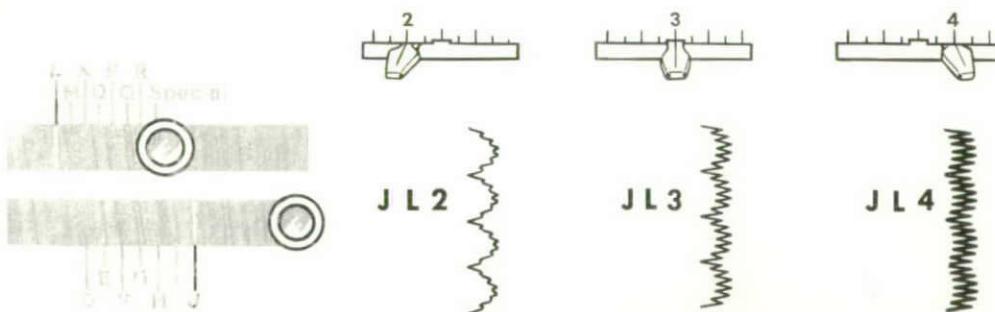
Since there is only one selector button for setting the letters L to Special, how is it possible to combine two basic patterns? The answer is that the letters D through J of the lower stitch pattern selector also represent the built-in discs. As shown below, D corresponds with L, E corresponds with M, and so forth. In this way you can combine two basic patterns.



Please note:

- When setting combination patterns, the stitch width selector no longer controls the stitch width but it varies the pattern and may be set to 2, 3, or 4 (not 5).
- Combination patterns cannot be used with two needles.

Example of Combination Pattern Varied by Stitch Width Selector



Examples of Combination Patterns and Settings Required

(Some examples are also shown in the stitch chart cover at top of your machine)

Raise needle above fabric before moving stitch pattern and stitch width selectors.

Lower Stitch Pattern Selector

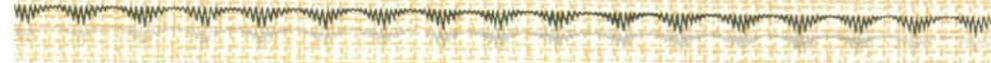
Upper Stitch Pattern Selector

Special Disc

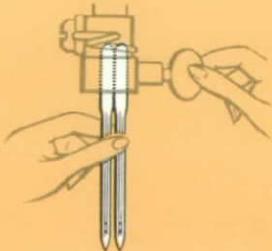
Stitch Width Selector

				Lower Stitch Pattern Selector	Upper Stitch Pattern Selector	Special Disc	Stitch Width Selector
D	Special	②	2				
D	Special	②	3				
D	P		4				
E	P		2				
F	O		2				
F	R		2				
G	M		4				
G	P		4				
G	Special	②	2				
G	Special	③	4				
H	Special	③	4				
I	L		2				

Two-Needle Stitching

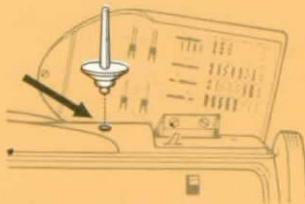


By using two needles at once, you can produce two parallel, closely spaced, decorative lines of stitching simultaneously. You can use either one or two colors of thread; and you can choose either a straight stitch setting, or one of the basic patterns. (Combination patterns cannot be used for two-needle work.) Some of the attractive designs you can create are shown on page 38.



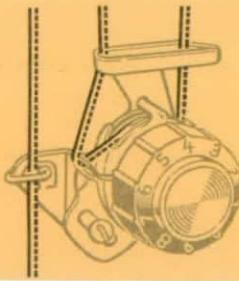
How To Insert Second Needle

The needle clamp easily accommodates two needles, Catalogue 2020 (15×1). To insert the needle, simply loosen the needle clamp screw and insert the additional needle from the right with the long groove toward you.



To Thread The Machine

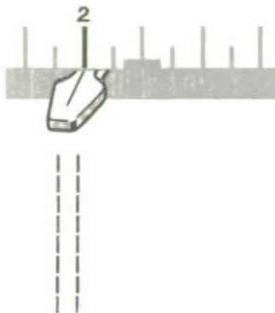
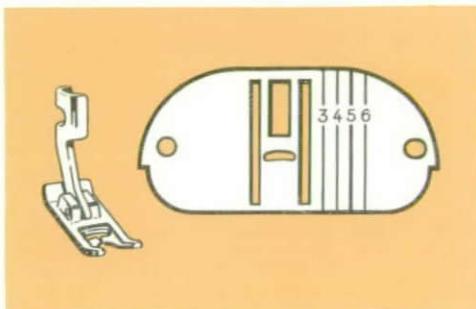
Place first spool of thread onto spool holder and lead thread through eye of first thread guide. Raise stitch chart cover and insert auxiliary spool holder (which is furnished with the machine) into hole provided for it.



Place second spool of thread onto auxiliary spool holder and thread as for one-needle stitching (see page 20), making certain that both threads are separated by the center disc of the needle thread tension.

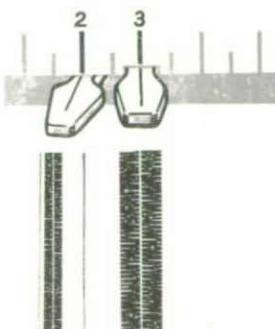
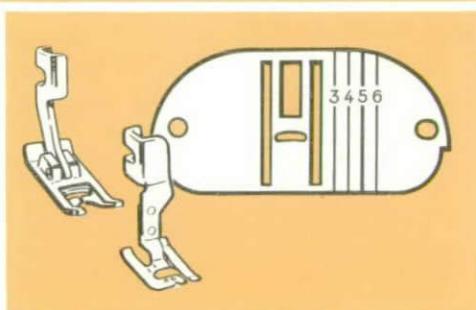
Straight Stitching With Two Needles

Stitch Pattern Selectors: A K
Stitch Width Selector: 2 (only)
Throat Plate: General Purpose
Presser Foot: General Purpose



Basic Pattern Stitching With Two Needles

Upper Stitch Pattern Selector: L to Special
Lower Stitch Pattern Selector: A
Stitch Width Selector: 2 or 3 (maximum)
Throat Plate: General Purpose
Presser Foot: General Purpose or
Special Purpose



Examples of Decorative Two-Needle Stitching

Settings

A	Special	⑤*	3	
A	Q		3	
A	N		3	
A	Special	②	3	
A	P		3	
A	Special	③	3	
A	O		3	

* Special Disc Numbers

Chainstitching

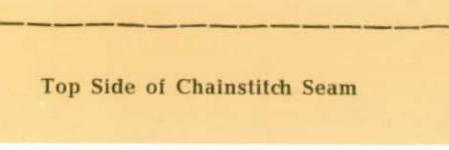


More than any other sewing machine your new SINGER will eliminate a considerable amount of time-consuming and burdensome work previously done by hand in that lockstitching and single-thread chainstitching can be selectively produced on the same machine. This enables you to use your sewing machine in many new ways — It's like having a second machine.

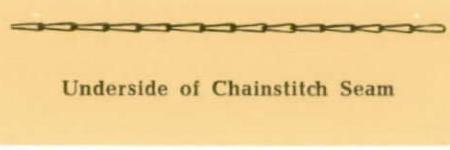
Single-thread chainstitching looks like regular straight stitching on top, but it is a series

of interlocking loops on the underside of the fabric. The stitches are produced by the needle thread alone — so you do not need a bobbin thread or a bobbin. Because the stitches are formed by a single thread, the interlocked loops unravel easily. The entire line of stitching can be removed with just a pull on the thread end. Also, the loop formation of the stitches makes them less taut than regular straight stitches. That's what makes chainstitching flexible.

Top Side of Chainstitch Seam



Underside of Chainstitch Seam



Here are a few of the many sewing jobs for which you will find chainstitching useful:

Basting — trial seams for fitting; construction guidelines; zipper openings; linings and interfacings.

Stay-stitching — To preserve garment shape during assembly.

Fastening removable trimming — such as fur collars, white collars and cuffs.

Hemming curtains and draperies that may need to be altered.

Sewing temporary tucks — for children's clothes, curtains and linings that may shrink.

Making welting for corded seams, tubular cording — for trimming and button loops.

Attaching hem tape and elastic waistbands.

Stitching seams in knit and stretch garments. Some examples are illustrated on page 44.

To Prepare The Machine For Chainstitching

1. Remove regular throat plate and bobbin.
2. Insert chainstitch loop retainer into bobbin case (Illustration 1).
Tilt latch (Illustration 2) and turn to the rear against stop (Illustration 3).
3. Insert chainstitch throat plate.

1

2

3

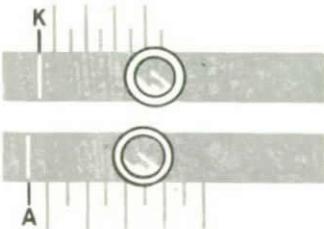
Machine Settings

Stitch Pattern Selectors: A K

Stitch Width Selector: 3

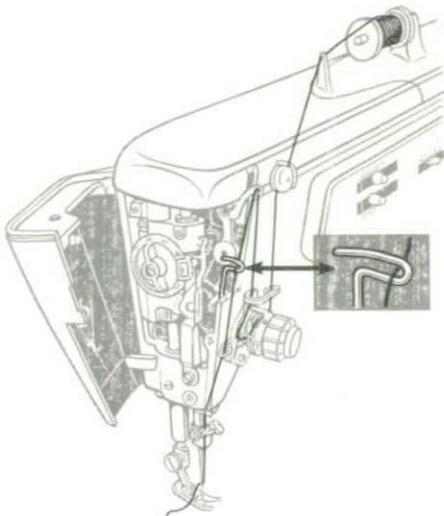
Stitch Setting: Normally set for maximum length, approx. 4 mm; but any stitch length between 2 and 4 mm may be used.

Presser Foot: General Purpose or Straight Stitch



Threading

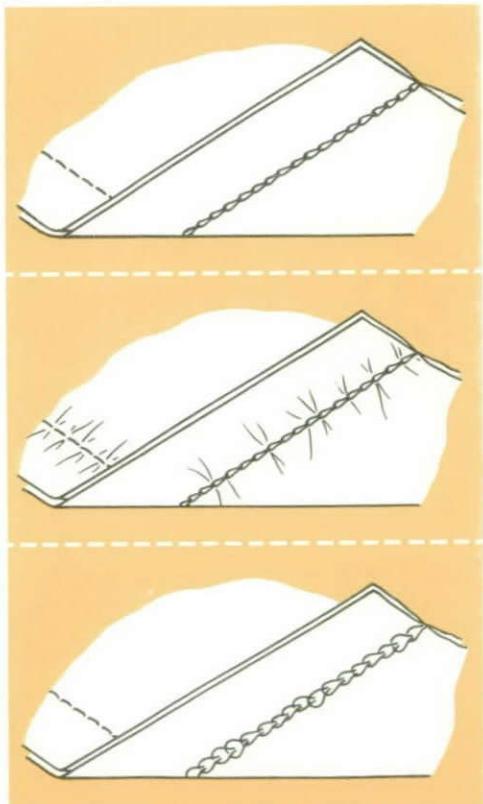
In addition to the normal threading you must also pass needle thread through eyelet in the chainstitch thread guide.



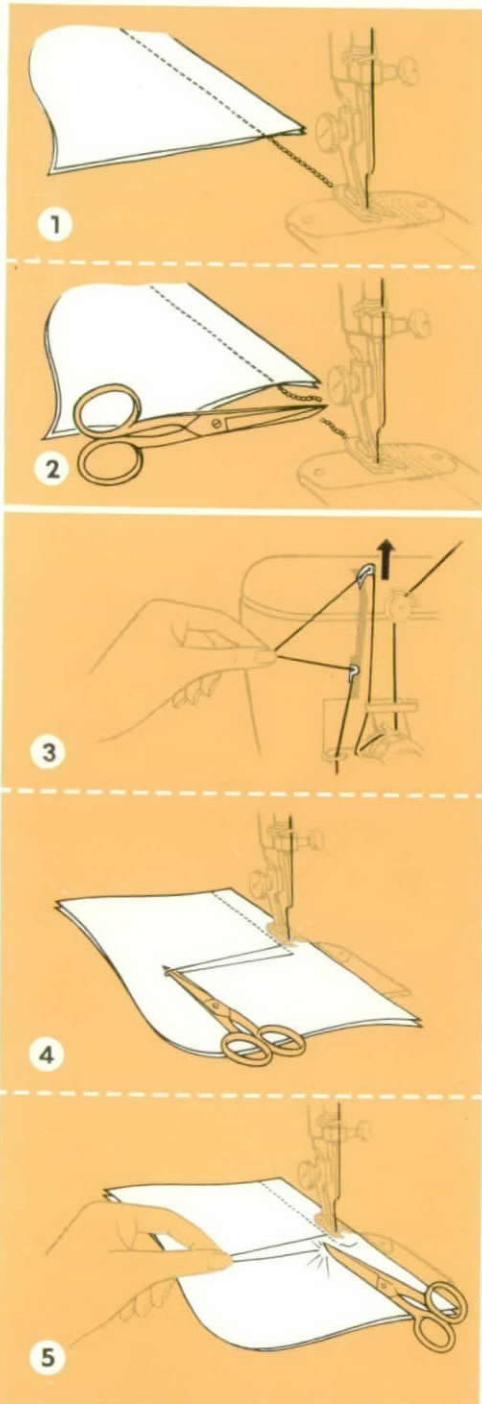
To Adjust Thread Tension

Chainstitching requires generally less needle-thread tension than regular straight stitching, when compared to the same size and type of thread. When the tension is correctly adjusted, the chain will be flat and smooth.

Puckers in the fabric and pinched loops indicate too much tension; turn tension dial to a lower number.



Large, irregular loops indicate too little tension; turn dial to a higher number.



Stitching

When starting make sure that the take-up lever is in its highest position. This will prevent the needle thread from pulling out of the needle if the thread has been cut too short. **Caution, you may sew forward only.** Position needle in very edge of fabric, lower the presser foot and stitch. If the material is pivoted at the needle for operations where cornering is required, make certain that the needle is on its upward movement (approx. $\frac{1}{2}$ inch [1 cm] above its lowest point) to avoid skipped stitches. Then continue to stitch in the new direction.

To Remove The Fabric

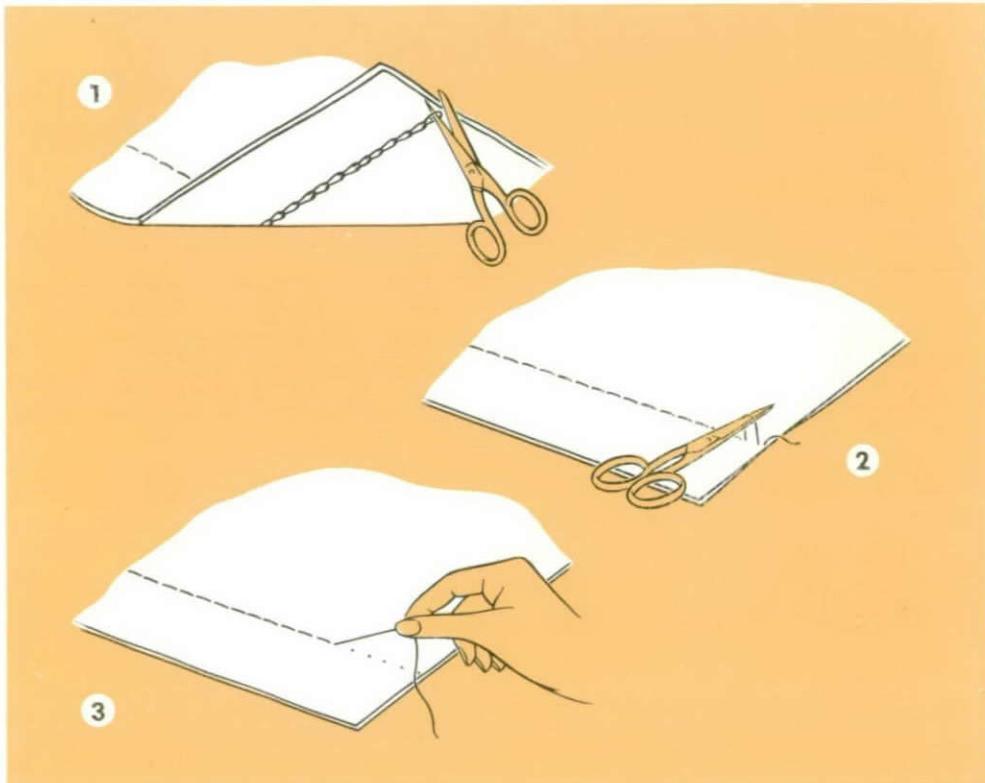
The easiest way of removing the fabric is to sew off the edge of the fabric (Illustration 1) while slightly pulling on the material. This produces a chain which should be cut some distance away from the fabric (Illustration 2).

However, if the seam is ended before the edge of the fabric, bring the take-up lever to its highest point, then lift the presser foot and pull some thread through the take-up lever from the spool pin (Illustration 3). Now draw the loose thread between presser foot plate and top surface of fabric to the left with the scissors (Illustration 4) and then cut the thread approx. $\frac{1}{2}$ inch (1 cm) above fabric (Illustration 5). Remove fabric from the machine by pulling it straight back, away from you. This will cause the thread end to pull through the fabric to the underside and form a temporary lock (Illustration 6). If you wish to secure this temporary lock, fold the thread end back over the chain and fasten with hand stitching.

To Open The Seam

Chainstitching can be removed smoothly and cleanly in seconds in one direction only, from the end of the seam toward the start of the seam. The opening direction is distinguished by the arrowheads of the loops on the underside of the fabric which point toward the beginning of the seam.

To open the seam, simply cut the last loop formed on the underside of the fabric (Illustration 1) and then pick up the freed thread end from the top surface of the fabric (Illustration 2). With this free thread end the entire line of stitching can be removed by a single pull (Illustration 3).



To Change from Chainstitching to Lock Stitching

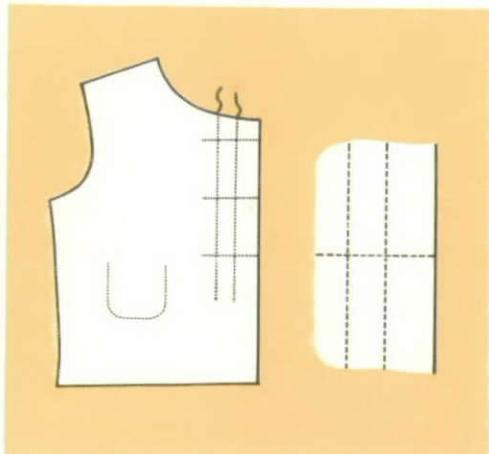
Changing to lock stitching requires only unthreading of the chainstitch thread guide (see page 41), replacing the bobbin and inserting the desired zig-zag or straight stitch throat plate.

Ways To Use Chainstitching

Here are several ways in which you will find chainstitching preferable to either regular straight stitching or hand basting. Additional suggestions are listed on page 39.

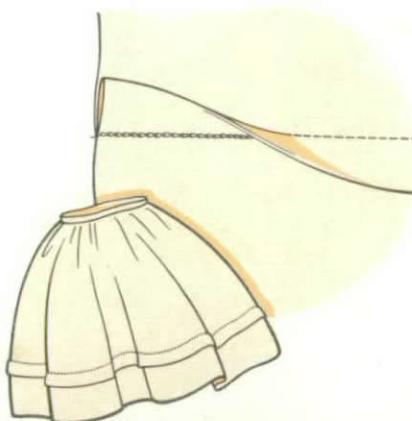
Garment Fitting

Time and energy can be saved when chainstitching is used to baste garment sections or muslin shells for trial fittings. The firmness of the stitch ensures accuracy in fitting, yet the stitching can be ripped out in seconds if adjustments are necessary.



Construction Guide Lines

In many instances, construction guide lines for pockets, buttonholes, and other details can be advantageously marked with chainstitch basting. The stitching will give clearly defined line marking. Yet, unlike chalk or pins, it will not rub off or become lost as the fabric is handled. This method lends itself particularly to use on wools and other fabrics that do not retain needle penetrations.

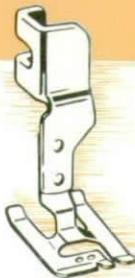


Growth and Shrinkage Tucks

Tucks are frequently put into curtains, linings, and children's clothes to allow for the child's growth or fabric shrinkage. "Letting down" is no longer a chore when tucks are chainstitched. Simply unlock the last loop of the chain formed on the underside of the tuck and pull out the stitching.

Attachments

Note: The attachments which are not regularly furnished with your machine are available for separate purchase at your local SINGER SEWING CENTRE.



Special Purpose Foot

This light, flexible foot is designed for satin and decorative stitching. It provides maximum visibility and manoeuvrability while allowing closely spaced zig-zag stitches to feed freely. The eyelets in the foot accomodate a filler cord.

The special presser foot is ideal for accurate placement of satin stitching in buttonholes, monograms, motifs, applique work as well as for cording.

Buttonholes

Always make a test buttonhole on a sample of your fabric. Be sure to duplicate the thickness of the garment and include interfacing if appropriate.

You will need two stitch width settings, one for side stitching and one for the bar tacks. The three possible settings are shown below.

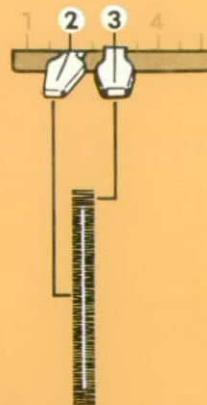
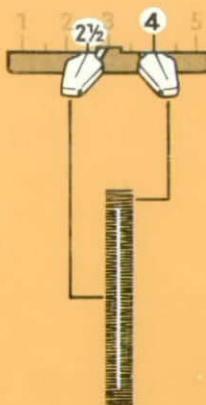
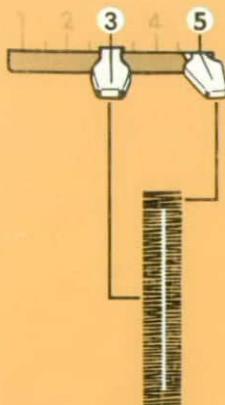
Stitch Pattern Selectors: AL

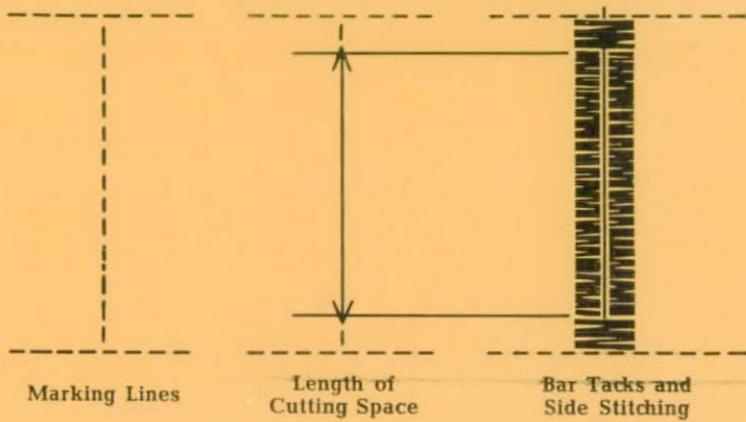
Stitch Width Selector: See below

Throat Plate: General Purpose

Presser Foot: Special Purpose

Stitch Length: More than 20 stitches per inch (Less than 1 mm)





Buttonhole Length

First, decide how long the cutting length needs to be (the opening through which the button passes). This will depend on the diameter and thickness of the button. To find the right length, cut a small hole in a scrap of your fabric and gradually enlarge it until the button slips through easily. The length of the finished buttonhole will be the cutting length plus $\frac{1}{8}$ inch (3 mm) for each bar tack.

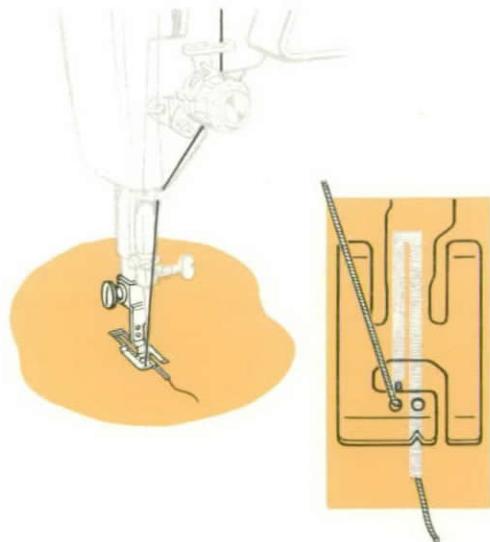
Then mark the buttonhole on the fabric as shown above.

The procedure for making a buttonhole is described on the next page.

Raised Or Corded Buttonholes

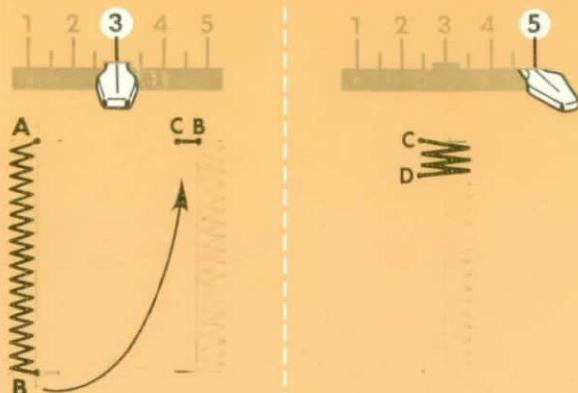
Both fine pearl cotton (size No. 8) and button-hole twist make suitable filler cords for raised buttonholes.

Place the spool of filler cord on the second spool pin. Lead the cord through the first thread guide, straight down between the centre and back tension disc, into the large thread guide and then through the eyelet on the special purpose foot. Draw the cord under and in back of the foot and proceed as for regular buttonholes.



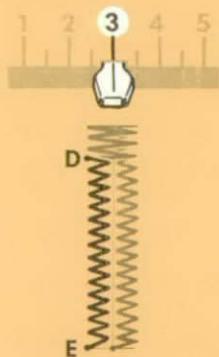
Stitching Procedure for Making a Buttonhole

Set stitch pattern selectors on AL and stitch width selector on setting desired for side stitching of buttonhole. Place work under needle, aligning centre marking of buttonhole with centre score line of special purpose foot.

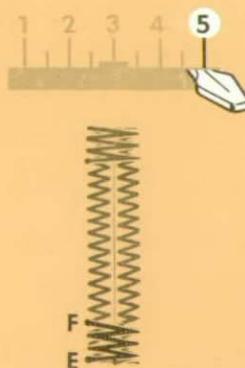


Side Stitching: Position needle in fabric at point A. Lower foot and stitch to end of marking. Leave needle in fabric at point B. Raise foot and pivot work on needle. Lower foot. Take one stitch without changing stitch width selector setting, bringing needle to point C.

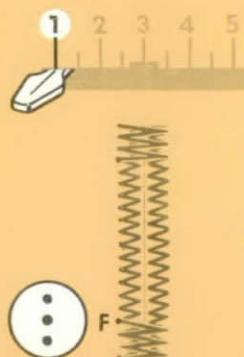
Bar Tack: Adjust stitch width selector for bar tacks and take at least six stitches. Stop at point D.



Side Stitching: Readjust stitch width selector for side stitching. Complete work to point E. Leave needle in fabric.



Final Bar Tack: Adjust stitch width selector for bar tacks and take at least six stitches in reverse, ending at point F.



Fastening Stitch: To secure stitching, move stitch width selector to 1 and take three stitches. Remove work, draw threads to the underside and trim. Cut opening for button with sharp scissors.

Applique

Applique adds beauty and interest to wearing apparel, linens and fabric furnishings. Either contrasting or fabric self can be used effectively.

The stitch most commonly used in appliqueing is a closely set zig-zag stitch (basic pattern B L). The width of the zig-zag stitch can be varied to accommodate fabrics of different weaves and textures. Combination patterns and variations can also be used to applique with decorative stitching.

There are two methods by which applique work can be done. The appropriate method is determined by the fabric being used, and a test sample is advisable. Position the design properly and baste it to the fabric. Attach the special presser foot to the presser bar.

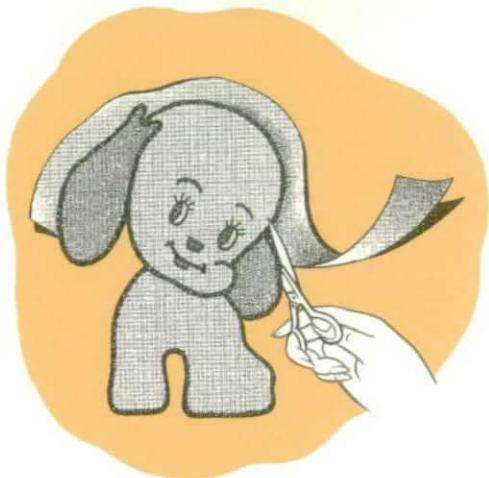
Method No. 1

Set stitch pattern and stitch width selectors for desired applique stitch. Stitch, outlining the design with applique stitching. Any excess fabric on the outer edges is trimmed away after the stitching has been completed. Remove basting.

Method No. 2

Adjust stitch pattern and stitch width selectors for straight stitching (A K 3). Outline the entire design with a short stitch. Trim raw edges to the stitching.

Readjust stitch pattern and stitch width selectors for the desired applique stitch and over-edge the design with this stitching. A smooth, lustrous finish results, which requires no additional trimming. Remove basting.



Corded Applique

Corded applique, which gives a raised, three-dimensional effect, is a particularly attractive finish for lace applique.

Either method of appliqueing can be used when cording is desired. The only change in procedure is the introduction of the cord, over which the applique stitching is formed. See page 47 for threading.

Monograms and Motifs

Many of the decorative stitch patterns can be used for the creation of attractive monograms and motifs. You can buy designs — or create them yourself.

Make a sample first, to determine suitability of stitch pattern and find the right stitch length and width, thread tension, and pressure.

Transfer the design (by tracing, usually) to the right of the fabric.

If the fabric is soft or loosely woven, baste a backing of lawn or organdie to the wrong side.

After stitching, trim any excess fabric close to the stitching.

Stitch Pattern Selectors:

BL for zig-zag stitching

See pages 32—35 or stitch chart for decorative stitches.

Stitch Width Selector:

2—5 (2—3—4 for Combination Patterns).

Stitch Length:

More than 20 stitches per inch
(Less than 1 mm).

Throat Plate:

General Purpose

Presser Foot:

Special Purpose

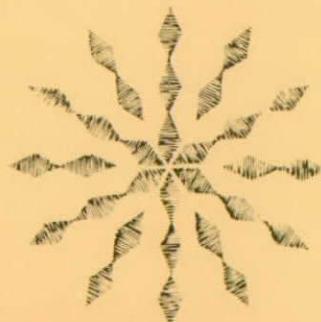
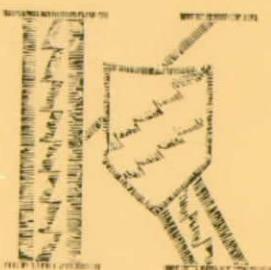
To Find The Beginning Of The Pattern Unit

To reproduce a specific portion of a stitch pattern, first stitch on a scrap of material until the desired point in the design is reached.

Raise presser foot and remove scrap. Bring motif or monogram into correct position under needle; lower presser foot and stitch.

This procedure is recommended for all precise design placement. Leaves, and flower petals, for example are created in this way.

Free motion embroidery with hoop can be seen on page 75.



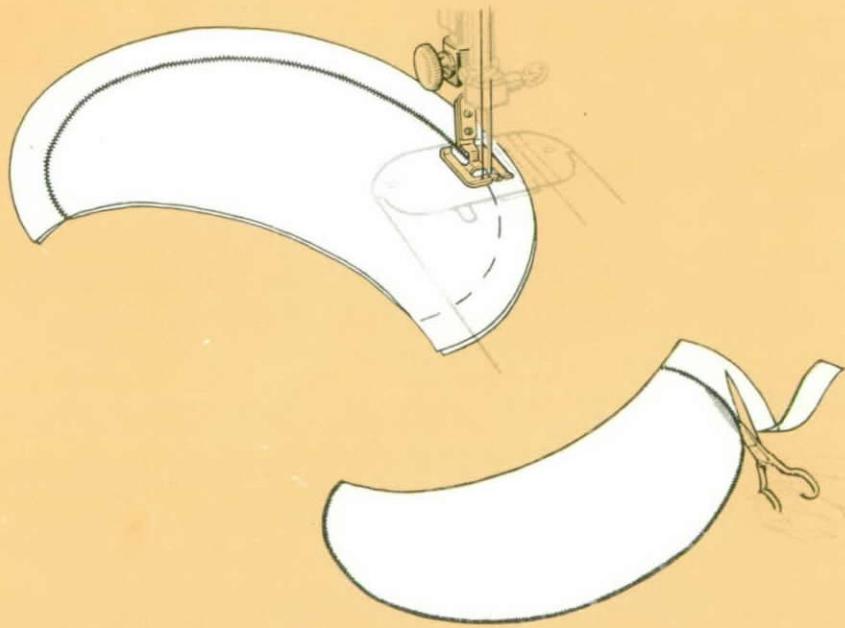
Seaming Shears

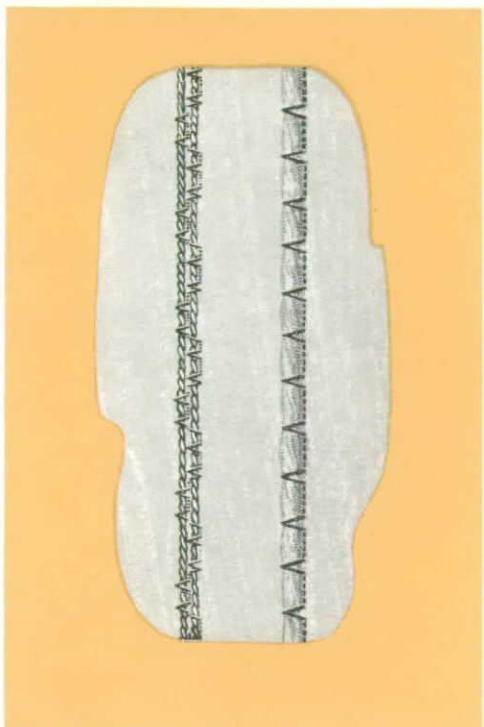
Stitch Pattern Selectors: BL
Stitch Width Selector: 2
Stitch Length: About 1 mm
Throat Plate: General Purpose
Presser Foot: Special Purpose

A dainty hairline finish is particularly desirable for the inside seams of sheer collars, facings and yokes. Seam allowances that ordinarily show through are eliminated.

Both heavy duty thread and tatting thread make suitable filler cords (see page 47 for threading).

Stitch along seam outline (covering cord if used). Trim seam allowance close to line of stitching. Turn and press.

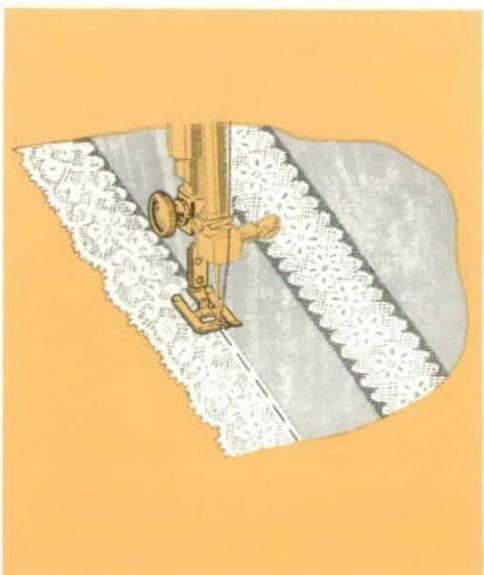




Couching

Novel effects are obtained by couching gimp, yarn or braid with decorative stitch patterns. Spaced patterns are the most appropriate as they allow the decorative cord to show as part of the design.

Refer to page 47 for threading instructions.

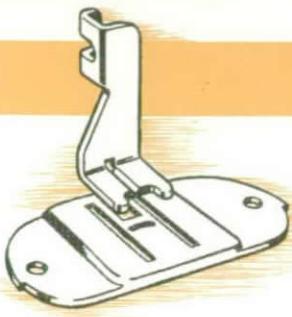


Lace Edging and Insertion

Delicate and durable zig-zag stitching is especially appropriate for the application of lace edgings and insertions.

Many decorative stitch patterns can be used effectively serving as both finish and trim.

Button Sewing Foot



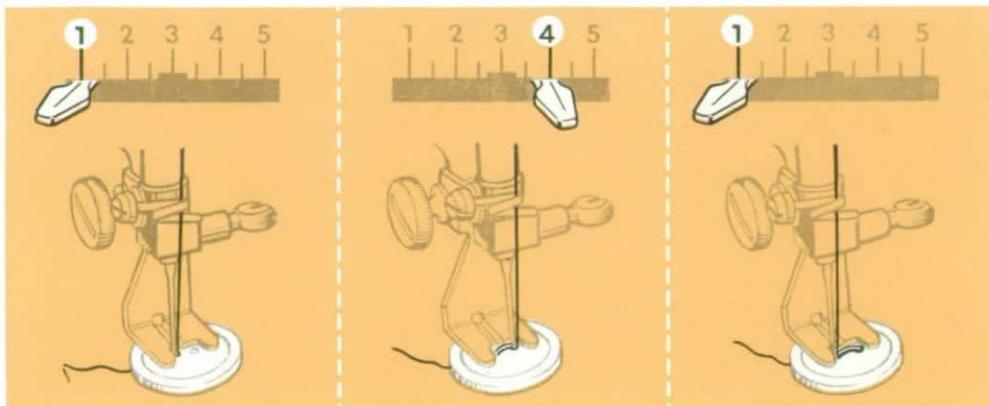
The space between the holes in the button determines the stitch width settings. For buttons with standard hole spacing, use settings 1 and 4. The number 1 setting is constant, but 4 can be increased or decreased as necessary to accommodate buttons with unusual spacing.

Stitch Pattern Selectors: AL
Stitch Width Selector: 1 and 4
Feed Cover Plate
Button Sewing Foot.

Set stitch pattern selectors at A L and stitch width at 1. Attach feed cover plate to machine. Position fabric and button under foot so that needle will enter left hole. Turn hand wheel toward you until needle rises out of the fabric and is just above the foot.

Set stitch width at 4. The needle should then enter into the right hole of the button. Take approximately six zig-zag stitches in this position. End on the left side.

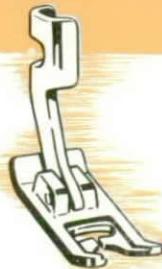
To fasten stitching, adjust to number 1 stitch width setting and take approximately three stitches.



In order to form a **thread shank**, stitch over a regular machine needle. Position button and lower button sewing foot. Place needle in the groove of the foot so the point enters the hole. To form a long shank, stitch over the heavy end of the needle.



General Purpose Foot



Used with the general purpose throat plate, this foot provides a wide needle slot which accommodates all stitch settings and can be used for most sewing operations.

Applications: Seams and darts; scalloping; blindstitch hems; mending and maintenance.

Lingerie Seams

Stitch Pattern Selectors: BL
Stitch Width Selector: 2½/
Stitch Length: About 1—2 mm
depending on fabric
Throat Plate: General Purpose
Presser Foot: General Purpose

Flat Felled Seams

Stitch Pattern Selectors: BL
Stitch Width Selector: 3
Stitch Length: About 1—2 mm
depending on fabric
Throat Plate: General Purpose
Presser Foot: General Purpose

To make a lingerie seam, both durable and flexible, first straight stitch (with selectors at A K 3) fitted seam on wrong side and press both seam allowances to one side. From the right side, top stitch with zig-zag setting **BL 2½**, letting the needle alternately enter the seam line and seam thickness.

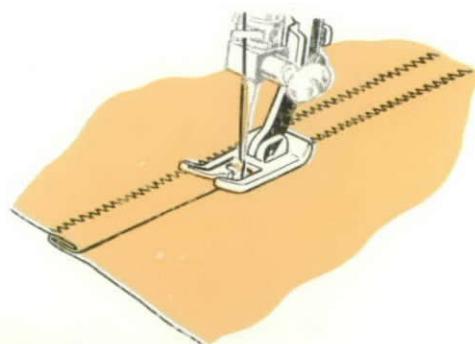
For heavy duty, strain proof seams, use double interlocked seam, zig-zag stitched on both sides with setting **BL 3**.

Stitch the seam on the right side of the fabric, taking full seam allowance.

Press the seam open, then fold and press the seam allowance to one side, keeping the right side of the stitch on top.

Trim the under seam allowance to one-half its width.

Turn the upper seam allowance edge evenly over the trimmed edge, and top stitch.



Seams In Knit Fabrics

Stitch Pattern Selectors: BL
Stitch Width Selector: 2
Stitch Length: About 1.5 mm
Throat Plate: General Purpose
Presser Foot: General Purpose

Seam Finishes

Stitch Pattern Selectors: BL, BO or BQ
Stitch Width Selector: 4 — 5
Stitch Length: 2 — 4 mm depending on choice of stitch and fabric
Throat Plate: General Purpose
Presser Foot: General Purpose

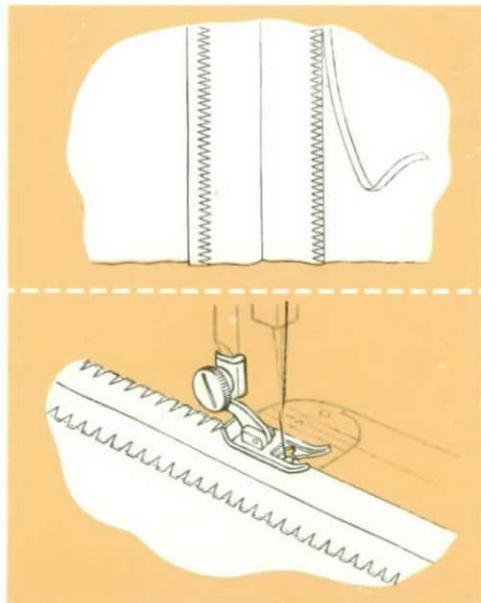
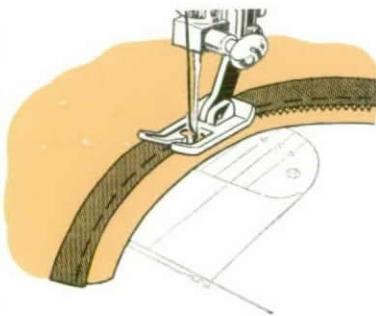
Seams in fabrics that stretch or bias seams in firm fabrics are often stayed with seam tape for durability. Position seam tape with edge exactly on seam line. If seam is curved, pre-shape tape to fit by steam pressing. Baste tape in place, if necessary. Stitch with fine zig-zag stitching (B L 2), allowing needle to enter seam tape and seam allowance alternately. Press seam open after clipping on curve.

Seam edges support the garment and should be given a durable finish if the fabric is likely to ravel.

Make a test sample first to determine whether zig-zag stitch L, blindstitch O, or mending stitch Q best suits your fabric. Also, adjust stitch length and width settings to suit fabric. Choose the settings that will give you the most "open" stitch that will secure the fabric edges. Avoid harsh, over-stitched edges.

Trim seam edges evenly.

Place stitching near the edge of the seam allowance or over the raw edge as illustrated.





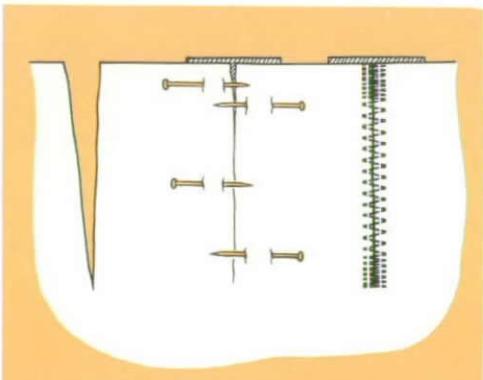
Darts

Darts provide fit and contour in a garment and should be accurately stitched. A straight stitch dart (**A K 3**) is usually formed by stitching from the seam edge, tapering gradually to the point, where the last three or four stitches are parallel to the fold. Stitch beyond the fold to form a thread chain approx. $\frac{1}{2}$ to $\frac{3}{4}$ inch (20 mm) in length. Tie the thread ends into a single knot close to the stitching.



Thread ends at the point of the dart are eliminated when the single thread principle is employed. Unthread needle and with thread leading through the throat plate from bobbin, rethread needle from back to front. Tie bobbin and upper threads together. Draw knot through all threading points including take-up lever eyelet and tension, winding enough on the spool to complete stitching the full length of the dart. Take any slack out of the thread by turning the spool. Lower presser foot and stitch from point of dart toward edge of garment section and backstitch to reinforce.

This method is also ideal for inside darts in sheer fabrics.



Darts In Interfacing

Non-woven interfacings can be shaped without bulk with zig-zag stitching. Stitch pattern selector settings **BL** or **BQ** can be used.

Cut out the dart allowance on the stitching line. Bring raw edges together and pin over a muslin stay, and stitch. Backstitch at both ends.

Scalloping

Dainty scalloped edges are used extensively as self trimming on blouses, dresses, lingerie and children's clothes.

Stitch Pattern Selectors:

BR (12-stitch scallop)

BS ② (24-stitch scallop)

Stitch Width Selector: 3—5

Throat Plate: General Purpose

Presser Foot: General Purpose

$\frac{1}{8}$ inch (3 mm) and clip into the points between scallops.

Some fabrics may also need notching, for a smoother, evenly turned edge.

Turn and press.

When forming scalloped tucks, add additional $\frac{1}{4}$ inch (8 mm) to tuck allowance for seaming.

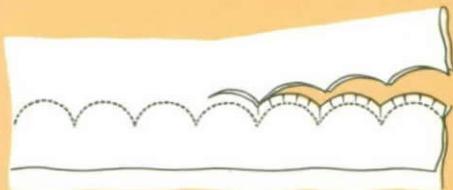


Perfectly formed and evenly spaced scallops are produced automatically at stitch pattern selector settings **BR** or **BS ②**. Setting **BR** results in a 12-stitch scallop, and **BS ②** in a 24-stitch scallop. Stitch length regulator and stitch width selector vary the length and depth of the scallop.

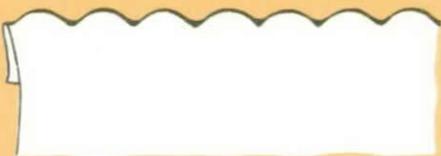
Place right sides of fabric together. (Shaped or bias edges should be interfaced.) Stitch scallop.

After stitching, trim allowance to less than

Wrong side of scallop

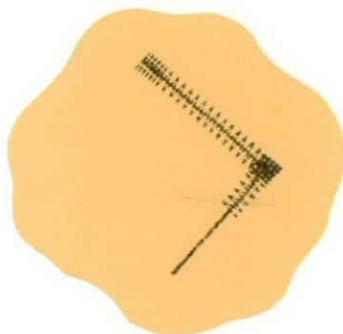


Right side of scallop

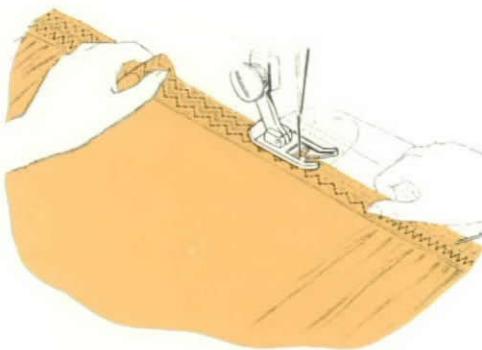


Mending

The multiple-stitch zig-zag is well suited for all types of household mending. It forms a firm, flexible bond for the repair of rents and tears, and is ideal for the reinforcement and application of elastic. Stitch length and width are regulated according to need.

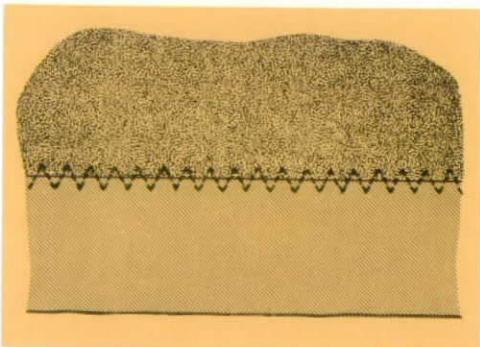


Stitch Pattern Selectors: BQ
Stitch Width Selector: 2—5
Throat Plate: General Purpose
Presser Foot: General Purpose



Rents and Tears: Trim away ragged edges. Place an underlay on the wrong side of tear for reinforcement. Using multiple-stitch zig-zag B Q, follow the line of the tear bringing the edges together. Shorten stitch length at ends and corners to give extra strength.

Application of Elastic: Elastic, such as used in waist bands, must be stretched as it is applied, to ensure fullness required in the garment.



Blanket Binding

The multiple-stitch zig-zag B Q is an excellent stitch for applying blanket bindings and affords both a decorative and durable finish. Remove worn binding. Baste new binding securely in place (stitch width selector at 5) and stitch. Adjust presser foot pressure if necessary, to accommodate the thickness of the blanket.

Darning

With some skill you can easily and quickly perform all types of darning on your machine. For this purpose you can selectively use 1. the general purpose presser foot, or 2. the darning and embroidery foot.

1. With General Purpose Presser Foot

First of all set pressure at D (refer to page 15) and stitch length regulator at 0 (MM). Now attach feed cover plate to machine bed in place of regular throat plate.

Trim ragged edges from area to be darned, position work under needle and lower presser foot to actuate the needle thread tension. Hold needle thread loosely with left hand. Turn hand wheel toward you. This will draw bobbin thread together with loop of needle thread up through fabric. Hold both thread ends and lower needle into fabric.

Outline opening to be darned with running stitches about $\frac{1}{4}$ inch (6 mm) from edge for reinforcement. Stitch across opening, moving fabric at a slight angle to and fro needle.

Run machine at moderate speed and guide fabric with a steady continuous movement. Slow movement of fabric will produce a short stitch; more rapid movement lengthens the stitch.

Fairly long stitches are best for knit and tricot fabrics so that the darned area remains smooth and flexible. Short stitches are best for cottons and linens as they approximate weave to the fabric.

After completion of darning work, reset pressure to normal setting.

Stitch Pattern Selectors: AK

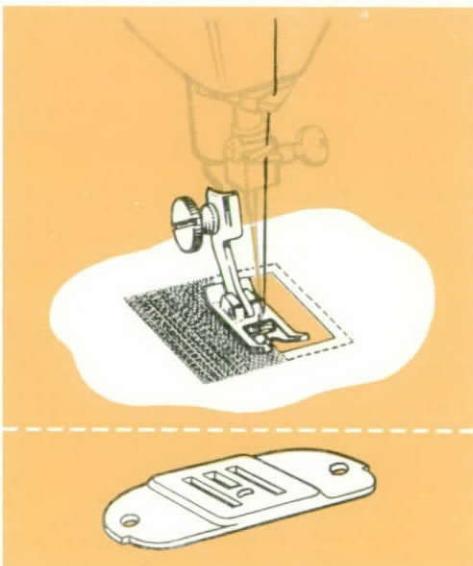
Stitch Width Selector: 3

Stitch Length: 0

Feed Cover Plate

Presser Foot: General Purpose

Presser Foot Pressure: Dial Setting D



2. With Darning and Embroidery Foot

The settings of the machine for this type of handling are described on page 74.

The Seam Guide



The seam guide aids in attaining uniformity of seam width when extra control is needed. It provides for stitching to be spaced at any distance between $\frac{1}{8}$ to $1\frac{1}{4}$ inches (3 — 30 mm) from the edge of the fabric. It is secured to the bed of the machine in either of the threaded holes to the right of the slide plate.

Applications: Seams, blindstitching, straight stitching and decorative stitching.

Straight Seams

Stitch Pattern Selectors: AK

Stitch Width Selector: 3

Stitch Length: 1 — 4 mm depending on fabric

Straight Stitch Throat Plate and Presser Foot, or

General Purpose Throat Plate and Presser Foot

Seam Guide

fabrics. Place pins with points toward seam edges so they nip into fabric at stitching line. The hinged straight-stitch presser foot will ride freely over the pin points. Guide fabric edges lightly against guide while stitching.

To guide seam stitching straight and parallel to the edge of the fabric, adjust and align the seam guide for proper seam width.

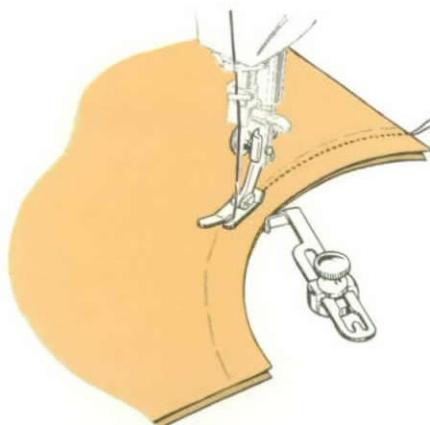
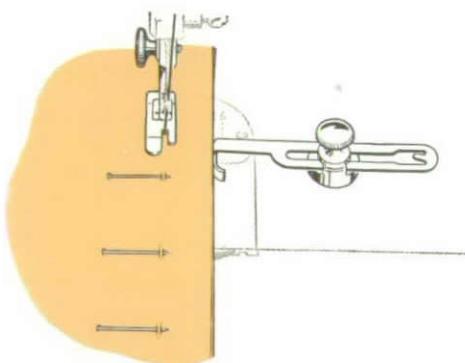
Pin seam edges and baste if necessary. Hand basting can be eliminated on easy-to-handle

Curved Seams

Curved seams require additional treatment in handling.

A shorter stitch will provide greater elasticity and strength.

Set the seam guide at an angle so that the end closest to the needle acts as a guide.



Blindstitch Hems

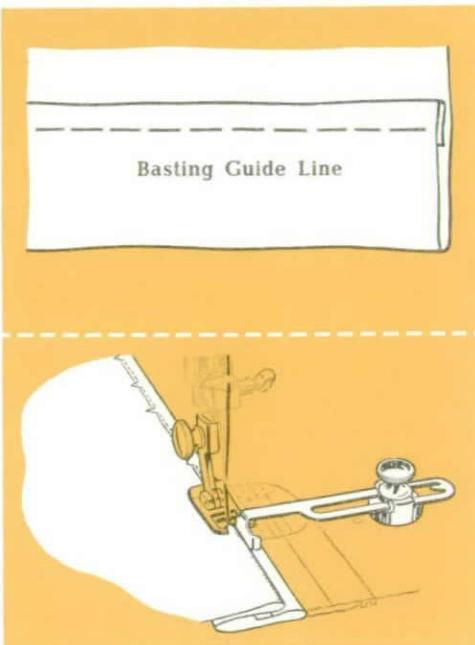
Stitch Pattern Selectors: BO
Stitch Width Selector: 2—5
Stitch Length: 1—2 mm
Throat Plate: General Purpose
Presser Foot: General Purpose
Seam Guide

Blindstitching provides a durable hem finish that is almost invisible and comparable to hand sewing. It is equally suited to straight and curved hems. Taped, bound, turned or unfinished hem edges can be blindstitched with equal ease. Blindstitching takes a little practice, however, so make a test sample first.

Set stitch pattern selectors at **B O**. This setting produces four straight stitches, separated by a single sideward stitch to the left. The stitch width selector setting is determined by the weight and texture of the fabric used. The length of stitch regulates the distance between the blindstitches.

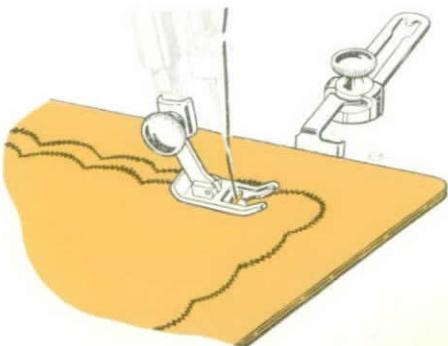
Mark, turn and press hem in the usual way. Place a basting guide line approximately $\frac{1}{4}$ inch (6 mm) from the top of the hem edge. Place hem edge over the feed of the machine, turning bulk of fabric to the line of basting and thus creating a soft fold.

Adjust seam guide over the right toe of the presser foot until it rests next to the soft fold.



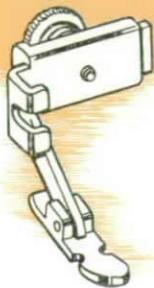
Stitch so that straight stitches fall on hem edge and sideward stitches pierce the soft fold. While stitching, feed the fold against the edge of the guide.

When stitching is completed, swing the seam guide out of position before raising presser foot.



Top Stitching

A practical, simple way to accent the lines of a dress or coat is to place one or more rows of stitching along collars, lapels, facing edges, pockets, sleeves, etc. For a tailored look, use lines of straight stitching. For decorative interest, use decorative stitching. The seam guide will help you place the rows accurately.



The Zipper Foot

This foot has been designed to facilitate the placing of stitching close to a raised edge. The hinged feature of this foot ensures even feeding over pins, heavy layers of fabric or cross seams. It is attached to the machine in place of the regular presser foot and can be adjusted to either the right or left side of the needle. Straight or zig-zag stitch settings can be used.

Applications: Zipper insertion, corded seams, tubular welting and slip cover welting.

Zipper Insertion

Stitch Pattern Selectors: AK
Stitch Width Selector: 3
Throat Plate: General Purpose or
Straight Stitch
Zipper Foot

Many different types of zippers are available for everything you sew. There are several satisfactory methods for insertion. Detailed sewing instructions are included in the zipper package. For any method used, the zipper foot enables you to form an even line of stitching close to the zipper.

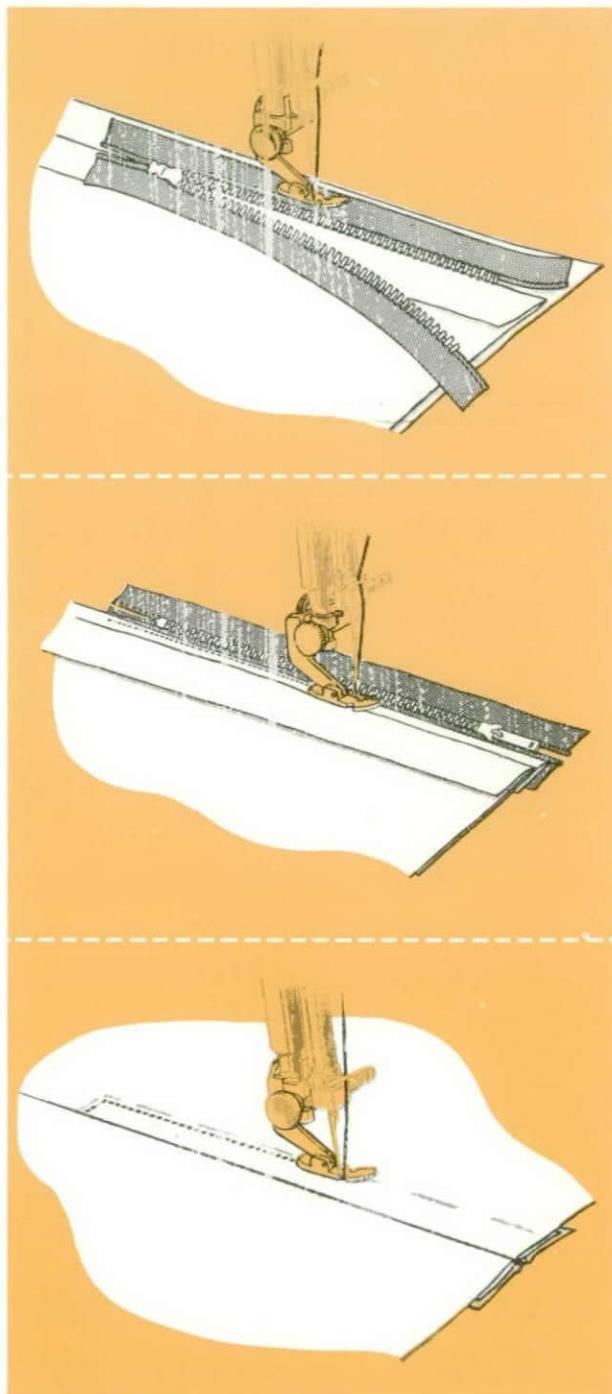
When the zipper is to the right of the needle, adjust the zipper foot to the left of the needle. When the zipper is to the left of the needle, adjust the zipper foot to the right of the needle.

Secure the zipper foot to the presser bar as you would the regular presser foot. Adjustment to the right or left of the needle is made by loosening the thumb screw at the back of the foot. Check the position of the foot by lowering the needle into the side notch of the foot, making sure it clears the foot. Lock into position by tightening the thumb screw.

Procedure for Inserting a Zipper into a Skirt

Machine baste the placket opening of the skirt and press this seam open. Attach the zipper foot to the machine and position it to the right of the needle. Open the zipper. Place the zipper face down on the seam allowance with the edge of the teeth at the seam line. Turn the back seam allowance away from the body of the skirt. Stitch the zipper tape to the seam allowance.

Adjust the foot to the left of the needle. Close the zipper and turn it face up. Smooth back the seam allowance at the edge of the zipper. Top stitch it to the tape close to the folded edge.



Turn zipper face down. Turn work to right side and pin in place. Adjust the foot to the right of the needle. Stitch across the lower end of the zipper and up to the waistline. Remove basting.

Corded Seams

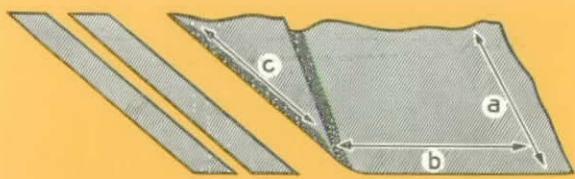
Cable cord comes in a variety of sizes and, when covered with a firmly woven fabric, makes a welting that is a decorative seam finish for children's clothes, blouses, pillow slips, lingerie etc. This welting is prepared in advance and then stitched into the seam.

Stitch Pattern Selectors: AK

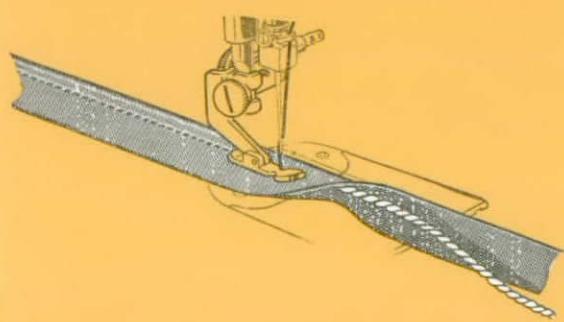
Stitch Width Selector: 3

Throat Plate: General Purpose or
Straight Stitch

Zipper Foot



a = Crosswise
b = Lengthwise
c = True bias



To make the welting:

Cut bias strips of either self or contrasting fabric (width: three times the diameter of the cord plus $1\frac{1}{4}$ inches [25—30 mm]). Sew strips together on the lengthwise grain to obtain desired length.

Set stitch width selector and adjust zipper foot to the left of the needle. Encase the cord in the bias strip, raw edges even. Lower zipper foot. Stitch close to the cord, applying gentle tension to bias strip, both in front and back of the zipper foot. Use a stitch length slightly longer than for regular seaming.

To stitch welting into seam:

When stitching the welting into a seam, the zipper foot is usually adjusted to the right of the needle so that the bulk of the work will fall to the left.

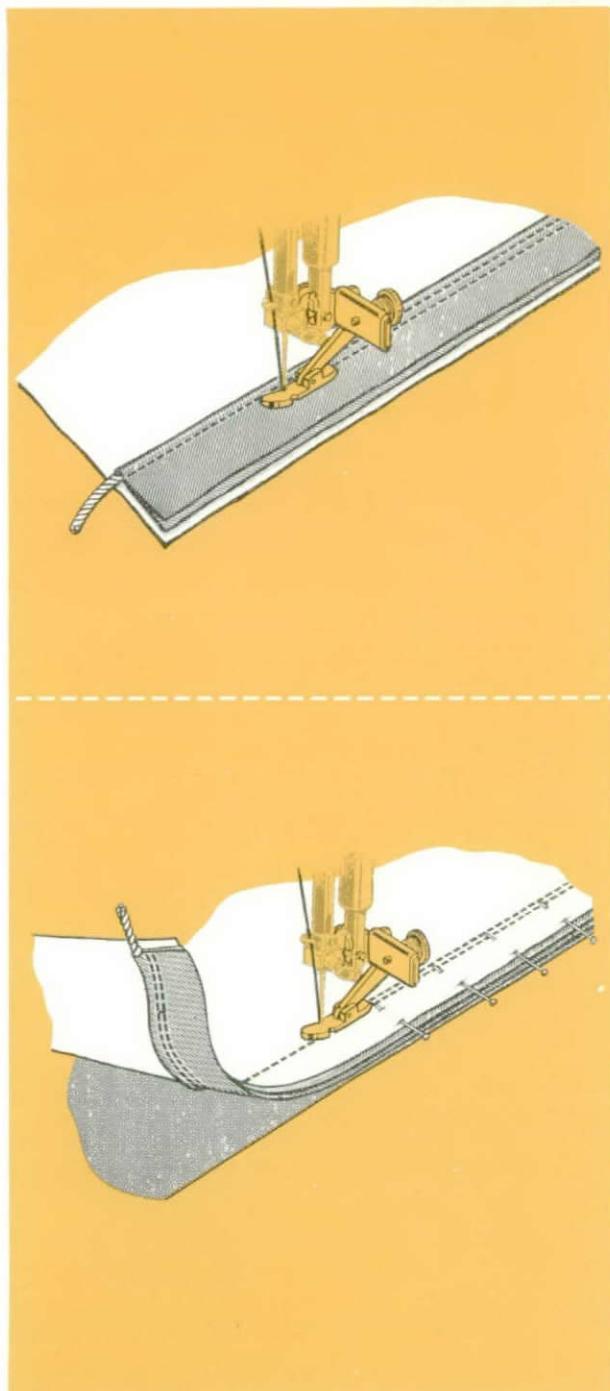
Attach the welting to the right side of a single seam edge, with the same stitch length used to make the welting. Guide the foot next to the cord, but do not crowd.

Place the attached welting over the second seam edge, and pin or baste together.

Keep the first stitching uppermost as a guide and position the seam under the needle. Stitch this time pushing the cord hard against the foot.

This method produces evenly joined seam edges and tightly set welting.

Curved seams are corded as easily as straight seams, except that a shorter stitch length is used. Since the seam allowance of the welting is bias, it is not difficult to shape it to the seam.



The Narrow Hemmer



The narrow hemmer forms and stitches a perfectly turned hem without basting or pressing.

Applications: Fine hems, edging ruffles, hemming with lace, hemmed seams and lingerie finishes.

Hemming

Crease a double $\frac{1}{8}$ inch (3 mm) fold along the edge of the fabric to be hemmed. Place the fabric under the foot. Lower the foot and stitch the creased fold for several stitches.

Hold the thread ends with the left hand and guide the raw fabric edge in front of the hemmer evenly into the scroll.

Sew slowly, still holding thread ends until the hem is well started.

Soft fabrics will enter the scroll best with the foot down; firm, crisp materials with the foot raised. Even feeding is essential to good hemming. The same width of fabric must be kept in the scroll of the hemmer at all times. A little practice will result in perfectly formed hems.

Stitch Pattern Selectors: AK

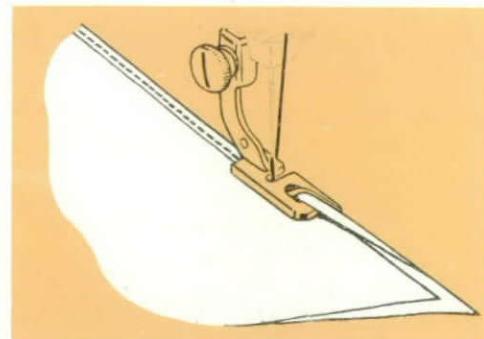
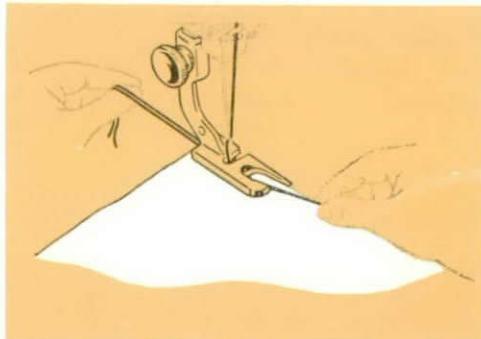
Stitch Width Selector: 3

Throat Plate: Straight Stitch

Narrow Hemmer

Hemmed Seams

A hemmed seam is applied where a fine narrow seam is appropriate. Allow a scant $\frac{1}{4}$ inch (8 mm) seam allowance. With both sides of fabric together, place upper layer approx. $\frac{1}{8}$ inch (4 mm) to left of lower layer. Insert two fabric edges into hemmer and proceed as for plain hem.



Decorative Hems

If you use the hemmer foot and choose a zig-zag stitch pattern, you can turn and decorate a narrow hem in a single operation.

This time-saving finish is especially suited to ruffle edges, aprons and lingerie finishes.

Stitch Pattern Selectors:

Any basic pattern

Stitch Width Selector: 2—5

Throat Plate: General Purpose

Narrow Hemmer

Follow same steps as for plain hems.

Hemming with Lace

Stitch Pattern Selectors: BL

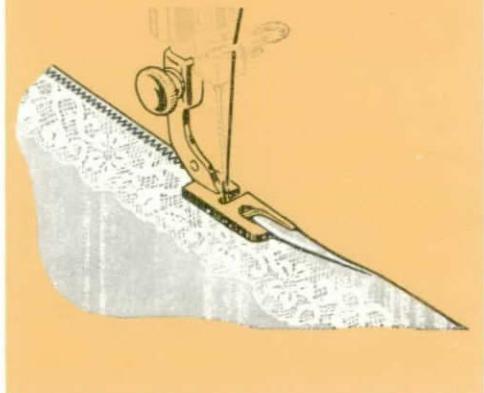
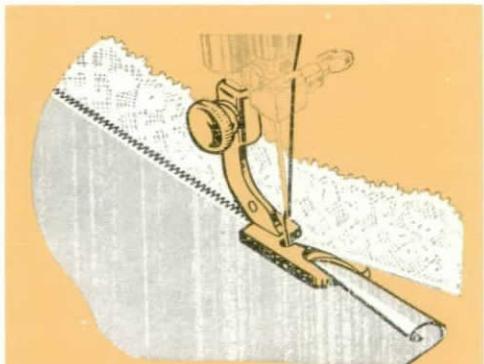
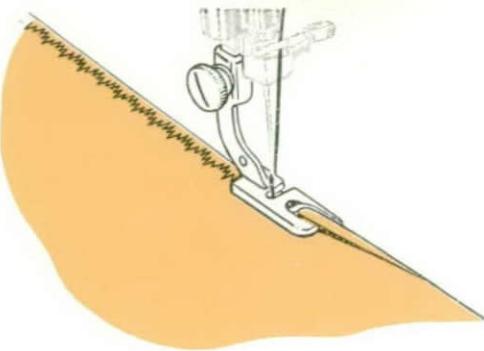
Stitch Width Selector: 3

Throat Plate: General Purpose

Narrow Hemmer

Lace Applied Over Hem

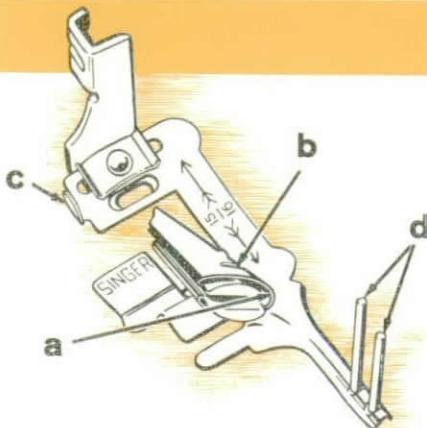
Fold and start the hem in the usual way. Starting about 1 inch (25 mm) down from the end of the lace, place the salvage under the needle and lower needle to hold lace firmly. Raise the foot slightly and slip the lace under the back portion of the foot, without disturbing the position of the fabric. Stitch slowly, guiding the fabric with the right hand, the lace with the left. Take care not to stretch the lace.



Lace Applied Under Hem

When using lace underneath the fold of a hem, the procedure is the same as when making a hemmed seam. Slip the lace in from the left as you would the second piece of fabric. This method is used where a neat finish is desired on both sides of material.

Binder

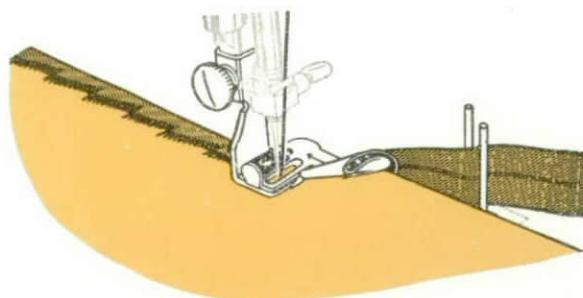


a = Scroll for unfolded binding
b = Slot for folded bias tape
c = Adjusting lug
d = Guide pins

The binder is used to apply commercial binding as well as self-fabric bias to an unfinished edge. This colorful trimming is attractive when applied to children's clothes, aprons, curtains etc. It is a practical finish for seam edges that fray and for making bound seams. Straight stitch, plain zig-zag or decorative zig-zag settings can be used.

Stitch Pattern Selectors: Any settings
Stitch Width Selector: 2—5
Throat Plate: General Purpose
Binder Foot

Cut binding diagonally to form a long point. Commercial binding is inserted from the right into the slot for folded bias tape of the scroll. Unfolded bias $\frac{15}{16}$ inch (24 mm) wide is inserted into the opening for unfolded binding at the end of the scroll.



Pull binding through scroll until evenly folded edges are under the needle. The free length of the binding is held between the guide pins.

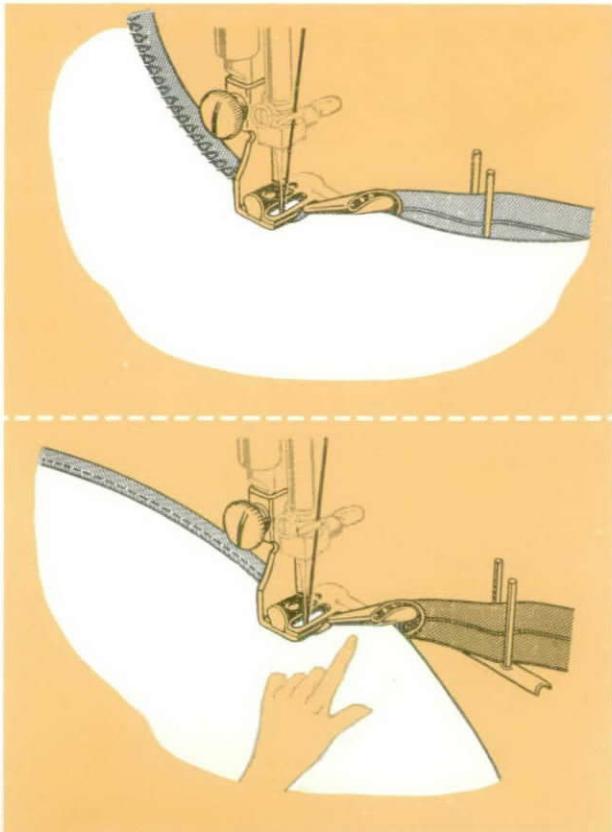
Insert edge of fabric to be bound into the centre of the scroll.

The stitching is positioned close to the edge of the binding by moving the scroll portion of the binder foot to right or left by means of the adjusting lug.

Lower the foot. Allow the attachment to do the work, merely guiding the fabric into the centre slot of the scroll as you stitch.

Inside Curves

Curved edges require slightly different fabric handling than straight edges. Inside curves are straightened as they are fed into the binder. If fabric is soft and has a tendency to stretch, reinforce the edge with a single row of stitching before binding.



Outside Curves

Outside curves tend to lead away from the centre slot of the scroll and should be guided so that a full seam width is taken at the needle point. Do not attempt to pull or straighten fabric into the full length of the scroll.

Presser Foot For Overedged Seams (Stretch Stitch)



The overedged seam is particularly appropriate for use in construction of garments made of knit, stretch or elasticized fabric. When using the special disc No. 22 together with the overedged presser foot, seams that stretch with the fabric can be joined and finished in one operation.

Stitch Pattern Selectors.

C — Special only

Stitch Width Selector: 4—5

Stitch Length: Up to 1.5 mm

Presser Foot Pressure: Light, 2—3

Special Disc: No. 22

Throat Plate: General Purpose

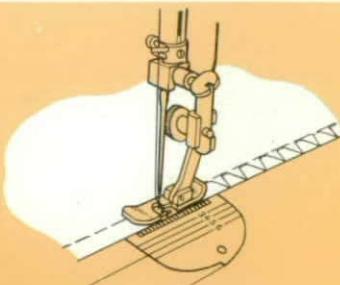
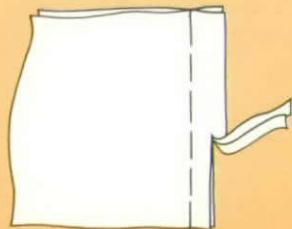
Presser Foot for Overedged Seams

Make a test sample first to determine the suitability of an overedged seam in the construction of your garment. Be sure to duplicate the grain of your garment in your test.

Adjust stitch length, pressure and thread tension accordingly. Cut and fit garment in the regular way, using an approx. $\frac{5}{8}$ inch (15 mm) seam allowance. Baste fitted seam line.

Trim seam edges evenly to $\frac{1}{4}$ inch (6 mm) from seam line basting. Place trimmed seam under the presser foot so that the bulk of the work falls to the left and the seam edge to the right under the presser foot thread guide (see illustration in left top corner).

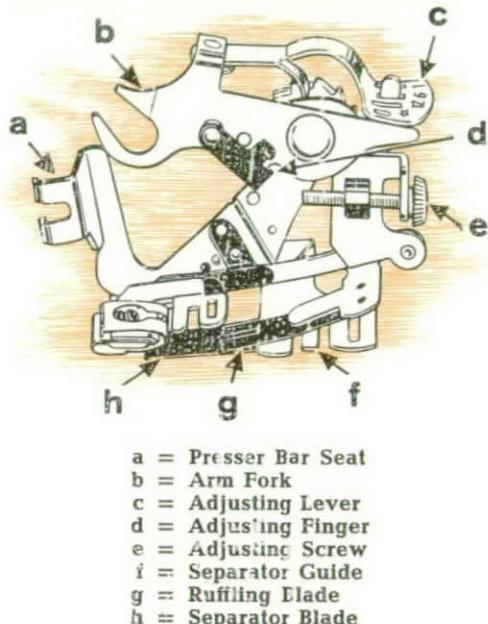
Stitch, guiding fabric up to the inside edge of the thread guide so that the straight stitches fall on the seam line and the zig-zag stitches over the seam edge.



The Ruffler

This attachment offers a simple and effective way to make gathered and pleated ruffles. Ruffles may be made separately or made and applied at the same time. The ruffler is attached to the machine in place of the regular presser foot and is used with a straight stitch setting only.

The ruffling blade and the separator blade are of blue steel and hold the material to be gathered between them. The ruffling blade forms the gathers or pleats by carrying the fabric to the needle according to the spacing and fullness to which the ruffler is adjusted. The separator guide is slotted to guide seam edges evenly and to separate the ruffle strip from the material to which the ruffle is attached.



To Attach The Ruffler

Raise needle to its highest point. Attach ruffler to machine in place of regular presser foot, locating ruffler on presser bar with fork arm over needle clamp screw. Securely tighten both presser bar and needle clamp screws.

Stitch Pattern Selectors: AK

Stitch Width Selector: 3

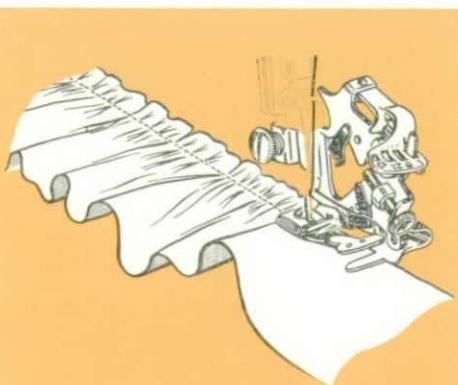
Throat Plate: Straight Stitch

Ruffler

To Adjust The Ruffler

1. The adjusting lever sets the ruffler for gathers or pleats. The number 1 space setting is for gathers and places fullness at every stitch. Numbers 6 and 12 are space settings for pleats, spacing them 6 or 12 stitches apart. The star is for straight stitching and is used when grouping gathers or pleats.

2. The adjusting finger is used only for pleating and affects the width of the pleat. It is thrown out of action by turning it out of contact with the adjusting screw.
3. The adjusting screw regulates the fullness of gathers or pleats. When turned inward to its limit with the adjusting finger in place, the attachment is set for its deepest pleat. When turned outward to its limit, with the adjusting finger out of action, the ruffler gives only a hint of fullness.



a = Ruffling Material



a = Ruffling Material

b = Garment

Gathering

Set adjusting lever on number 1 setting and throw adjusting finger out of action. Turn adjusting screw for amount of fullness desired and set stitch length to space fullness. Turn screw in for more fullness; turn out for less fullness.

Length of sewing machine stitch length also affects ruffle fullness. Since a given attachment setting puts an equal amount of fullness into each stitch regardless of its length, shortening the stitch (more stitches to the inch) makes ruffle fuller; lengthening the stitch (fewer stitches to the inch) makes it less full.

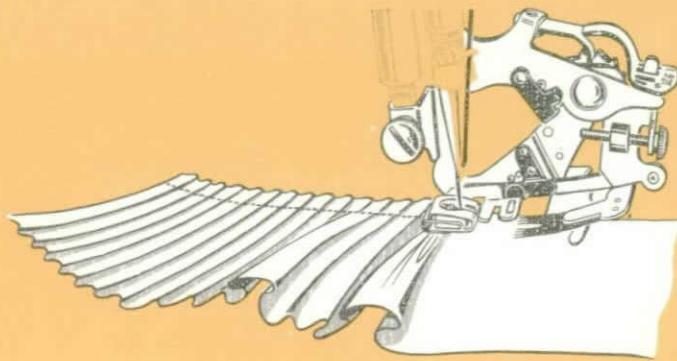
Insert material to be gathered between blue blades and through first separator guide. Draw material to back of needle. Lower attachment and stitch.

Always test stitch length and ruffler setting on a scrap of self-fabric before proceeding with the actual work.

Attaching Frills

Place strip to be gathered between blue blades and through the first separator guide. Place material to which frill is to be attached between separator blade and feed of machine. Proceed as for plain gathering.

Right sides of fabric are placed together when the seam is to fall to the inside.



Pleating

Move adjusting lever to desired space setting for pleats either 6 or 12 stitches apart. For deepest pleats, set adjusting finger and turn adjusting screw inward to its maximum setting.

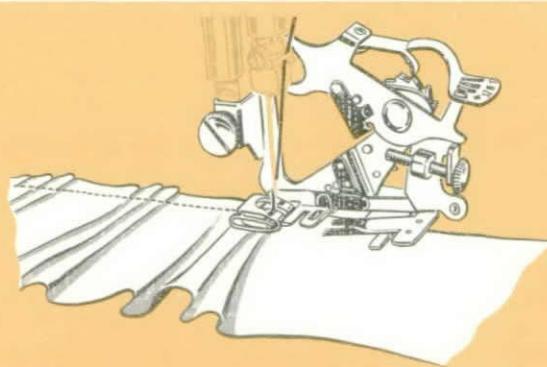
For smaller pleats, turn adjusting screw outward.

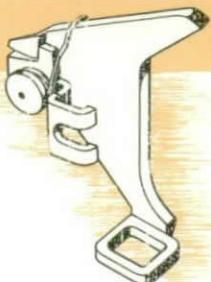
Set stitch length. A short stitch places the pleats more closely together; a long stitch separates the pleats for a greater distance. Insert fabric to be pleated between blue blades and into first separator guide. Lower attachment and stitch.

Crisp fabrics cut on the crosswise grain form the sharpest pleats. Glazed fabrics handle best if the glazed side is downward and the soft backing is next to the ruffler blade.

Group Pleating

By using the star setting (straight stitching) alternately with 6 or 12 space setting, pleats are formed in groups. Even spacing between groups is accomplished by counting the number of stitches.





Darning and Embroidery Foot

This attachment is an aid to all who desire perfection in free motion darning and embroidery work. The foot firmly holds the fabric as the needle enters and rises from the work, while fully revealing the line of design to be followed.

Stitch Pattern Selectors: A/K

Stitch Width Selector: 3

Stitch Length: Less than 1 mm

Feed Cover Plate

Darning and Embroidery Foot

Trim ragged edges from area to be darned. Worn section can be fixed into hoop, but this is not absolutely necessary.

Attach feed cover plate to machine bed in place of regular throat plate.

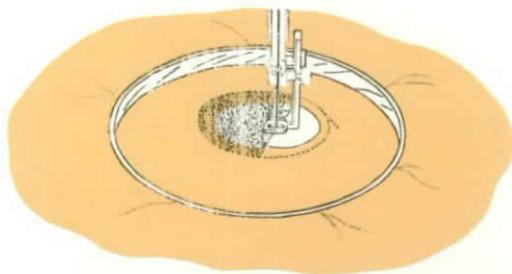
Locate darning and embroidery foot on presser bar with lifting finger over needle clamp screw.

The further steps of this sewing operation are the same as for darning with general purpose presser foot (refer to page 59).

Run machine at moderate speed and guide fabric with a steady continuous movement.

Slow movement of fabric will produce a short stitch; more rapid movement lengthens the stitch.

Fairly long stitches are best for knit and tricot fabrics; short stitches are best for cottons and linens as they approximate to the weave of fabric.



Free Motion Work With Embroidery Hoop

Stitch Pattern Selectors: BL
Stitch Width Selector: 2—5
Stitch Length: Fine (less than 1 mm)
Feed Cover Plate
Presser Foot: None

Script monograms and embroidery can be effectively accomplished with the zig-zag stitch when the free motion principle is employed.

A test sample should always be made before proceeding with the actual work to determine stitch setting and spacing. Some fabrics may require addition of an underlay of crisp lawn and organdie.

Trace or mark design on right side of fabric. Place work in embroidery hoop large enough to encompass entire design. Be sure fabric is held taut. Position work under needle and lower presser bar to engage tension. Turn

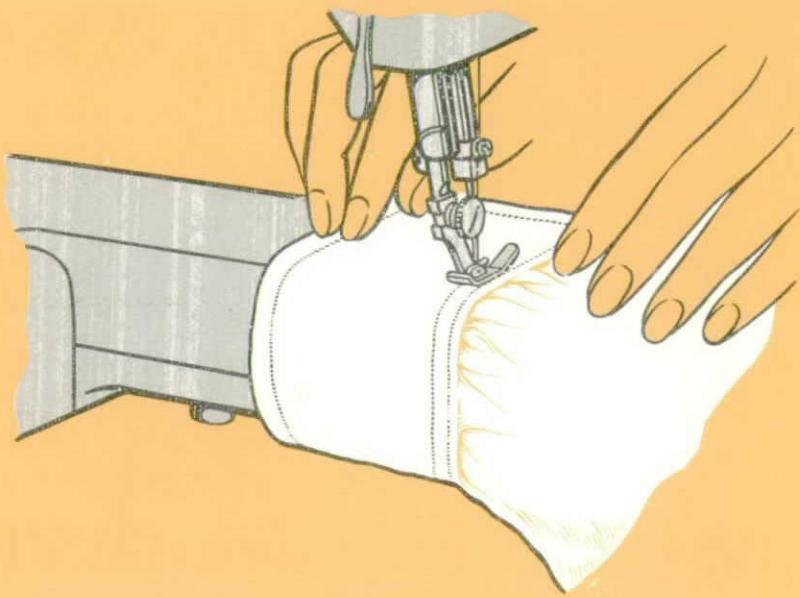
hand wheel toward you and draw bobbin thread up through fabric. Hold both thread ends and start stitching.

Move hoop slowly, following outline of design. Maintain an even rate of speed so that stitches are uniformly spaced.

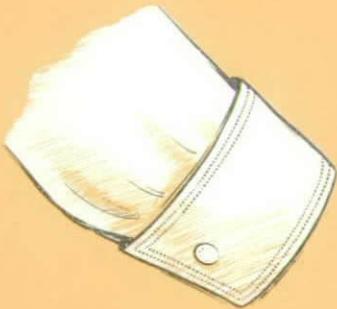
Slow movement of hoop produces a close satin stitch; more rapid movement lengthens the stitch and results in an open effect.

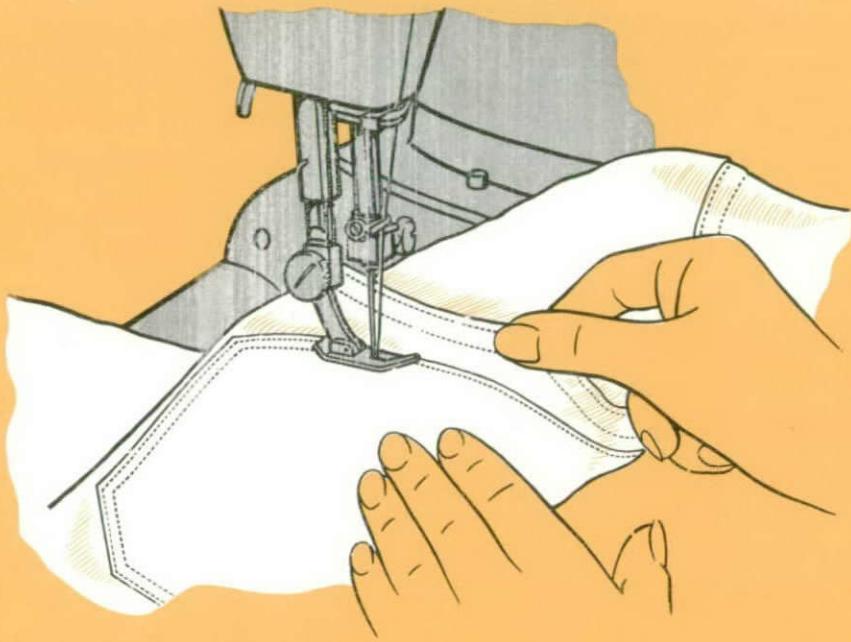
Free motion work can also be done with the darning and embroidery foot. This foot is particularly suited for stitching smooth heavy fabrics since it assists in controlling the stitch as well as in a proper guiding of the fabric.

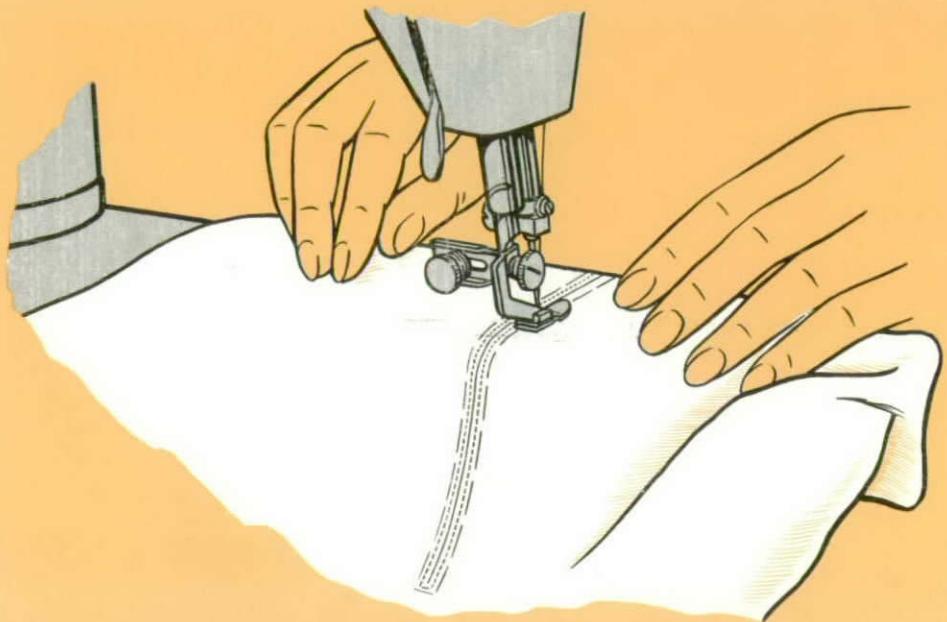


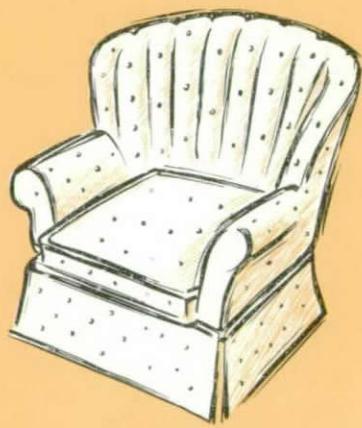


**Applications of the
Cylinder Bed Feature**





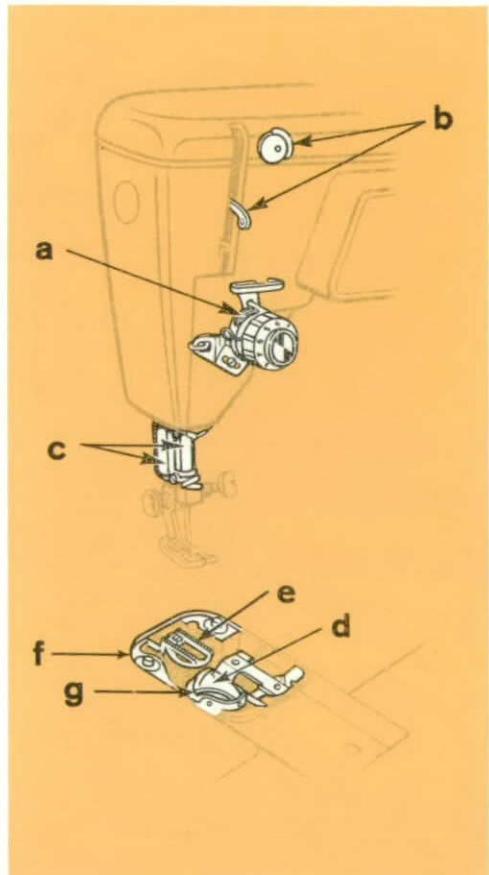
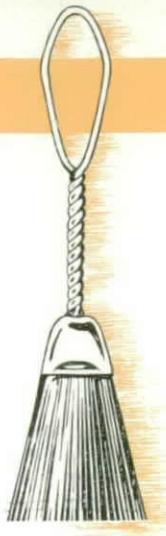




Caring For Your Sewing Machine

Your sewing machine is a fine yet sturdy precision instrument and it will serve you perfectly for many years if you take a few simple steps to keep it in good working condition.

How often you will need to clean, oil and lubricate the machine will depend on how often you use it and where you keep it. The following general guidelines assume that you will be sewing two or three times a week. But if you use the machine continuously, clean and oil it daily. Or, if you keep it in a very warm or damp place, oil and lubricate it more frequently than the guidelines suggest.



Every Week Or So —

with a soft cloth, clean:

- a. Tension discs
- b. Take-up lever and thread guides
- c. Presser bar and needle bar
- d. Bobbin case (for instructions on removal, see page 81)
 - Machine surface
If necessary, dampen the cloth to clean the machine surface. Do not use detergents.
- e. Feed dog
- f. Bearing surface for throat plate
- g. Rotating hook (area under throat plate and slide plate).

After each cleaning, apply a drop (but no more than a drop) of SINGER® oil to the hook raceway (g). Then sew a line of stitching on a scrap of material to remove excessive oil.

To Remove And Replace Bobbin Case

To clean hook raceway, remove bobbin case as follows:

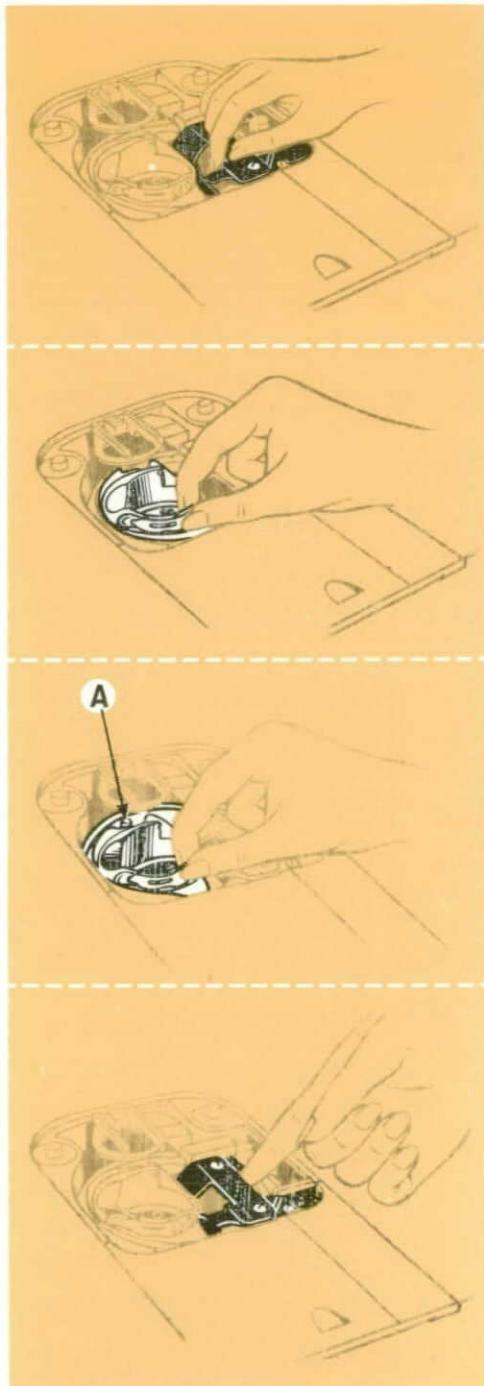
Open slide plate and remove bobbin and throat plate.

Unlock bobbin case by lifting and pulling holder to right as shown.

Remove bobbin case from machine.

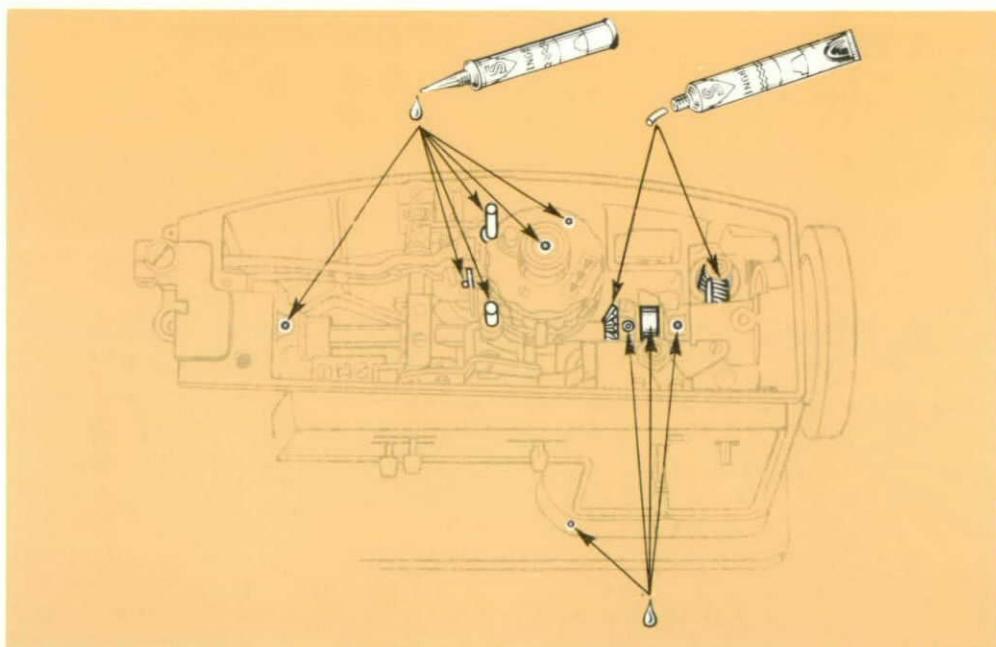
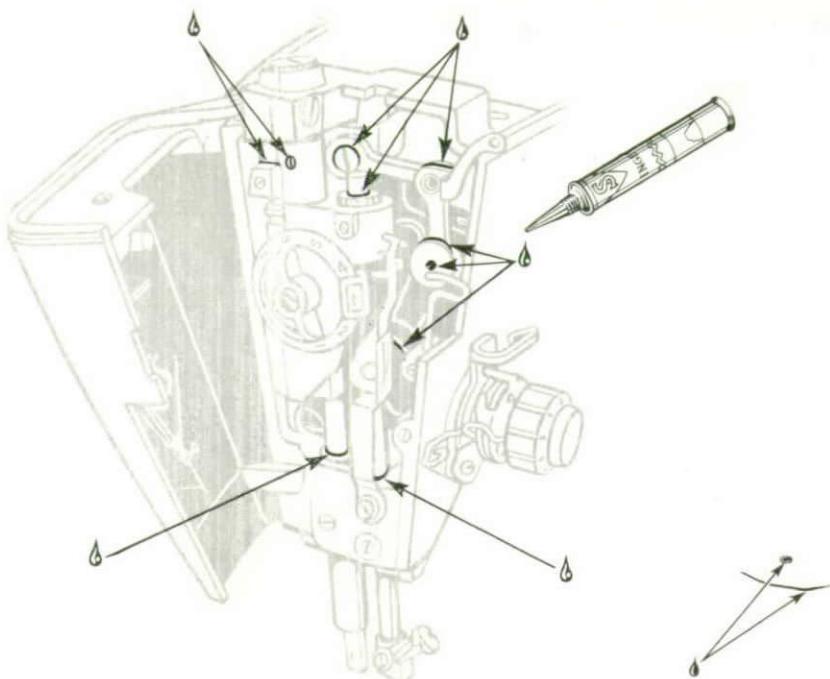
Remove all lint, fluff, loose thread ends or any other foreign matter by means of lint brush.

Replace bobbin case so that groove under tension spring fits on hook raceway and fork of bobbin case straddles positioning finger A.



Push bobbin case holder to left as shown until it snaps down into lock position.

Replace bobbin and throat plate and close slide plate.



Every Few Months —

Clean and oil the machine thoroughly. Use SINGER oils and SINGER lubricants only, which are available for purchase at your SINGER SEWING CENTRE. Both are extra quality products, especially prepared for sewing machines.

- **Clean And Oil Area Behind Face Plate**
Clean and apply a drop of SINGER oil to each place shown. You will find this easier to do if you remove the top cover first.
- Also, apply a drop of oil to the **hook raceway**.
- **Clean And Oil Top Of Machine**
All spots to be oiled are shown in the illustration. Do not oil gears, but apply a small amount of SINGER lubricant to them as indicated.
- **Clean And Oil Bottom Of Machine** (Refer to illustration on page 84).
Tilt machine back and remove screw B, being careful not to lose washer, and remove bottom cover from underside of machine. In case of class 670 machine, also remove screw C and cylinder cover. Clean and oil each of the places indicated. **Gears are to be lubricated only.** Replace bottom

cover (and cylinder cover). The motor requires no lubrication. Oiling of the motor can result in its burning out.

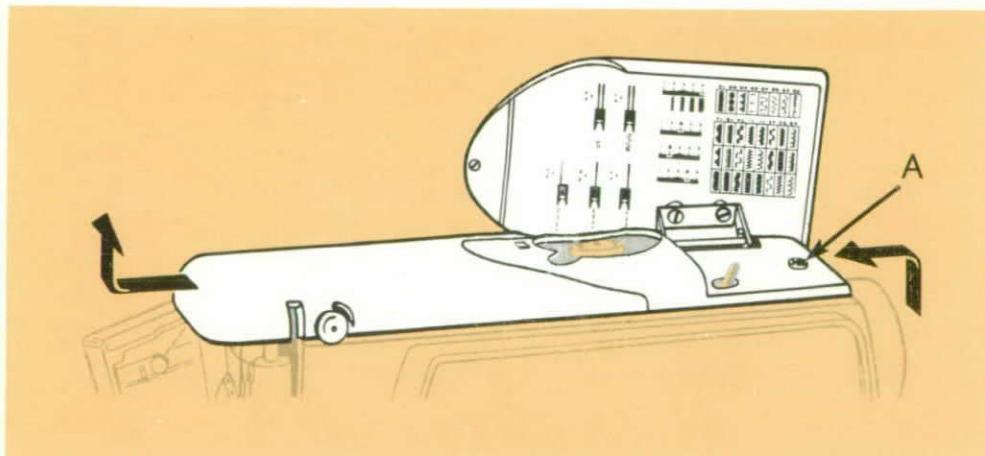
After oiling sew a line of stitching on a scrap of material to remove excess oil.

If the machine is to be stored away for an indefinite period of time, a thorough brush-cleaning to remove all traces of lint and fluff, followed by swabbing of all exposed parts with a lint-free brush saturated with SINGER oil, is necessary to protect against rust.

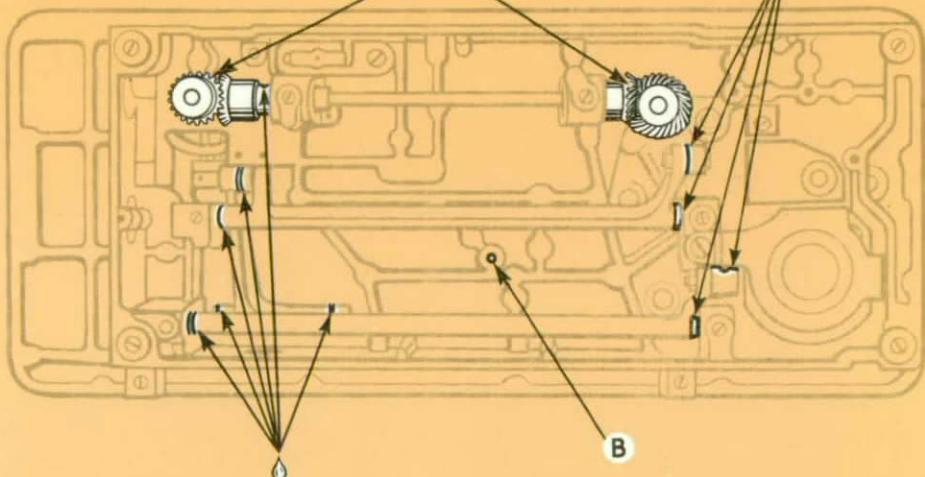
To Remove And Replace Top Cover

Move take-up lever to its lowest point. Remove screw A and lift right hand end of cover slightly and slide toward left and off the machine as shown on illustration below.

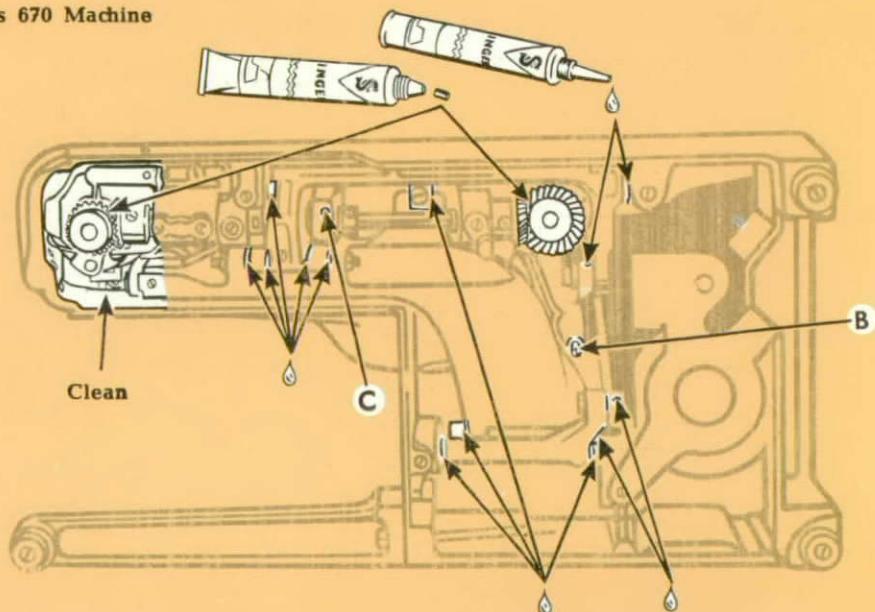
Replace cover by positioning it on top of machine with a slight overhang on the left side; slide cover to the right until it locks in place. Replace and tighten screw A.



Class 650 Machine



Class 670 Machine



Remember to

- Position needle out of fabric when making stitch width and stitch pattern adjustments.
- Clean your machine periodically, especially the bobbin case and hook raceway areas.
- Use your Instruction Book. It was written to explain the most efficient way to operate and use your versatile SINGER sewing machine.

Sewing Difficulties?

Keep your machine in good working condition by following the easy at-home-care steps outlined in this Instruction Book, and it will serve you perfectly for many years.

The non-observance of some details may lead to thread breakages. In such a case check:

- Is the machine properly threaded?
- Is the spool positioned correctly? Is it securely tightened by the correct thread lead-off so that the thread can unwind freely from the spool?
- Is a Catalogue (15X1) needle correctly inserted and securely tightened in the needle clamp (with the long groove toward you)?
- Is the needle free of damages?
- Is the thread suitable for the size of the needle?
- Is the needle-thread tension too tight?
- Is the thread free from knots?
- Is the bobbin-case and hook raceway area free of lint and loose thread ends?

Key Word Index

	Page		Page
Applications of Cylinder Bed Feature	76	Dar's	56
Applique	49	Decorative Hems	67
Attachments		Decorative Stitching, Please refer to Practical and Decorative Stitching	
Binder	68	Electric Drive	6
Button Sewing Foot	53	Embroidery Work	74
Darning and Embroidery Foot	74	Free Motion Embroidery Work	75
General Purpose Presser Foot	59	Feed Cover Plate	13
Hemmer	66	Filler Cord, Threading of	47
Presser Foot for Overedged Seams (Stretch Stitch)	70	Free Motion Work with Embroidery Hoop	75
Ruffler	71	General Purpose Presser Foot	54
Seam Guide	60	Guiding and Supporting Fabric	25
Special Purpose Foot	46	Hemmer	66
Zipper Foot	62	Hemming	66
Basting	39	Blind Stitch Hems	61
Binder	68	Decorative Hem's	67
Binding		Hemmed Seams	66
Binder	68	Hemming with Lace	67
Blanket Binding	58	With Seam Guide	60
Blind Stitching		Lace Edging	52
Hemming	66	Mending	58
Seam Finishes	55	Monograms and Motifs	50
Bobbin Case, Removal and Replacement	81	Motor	6
Bobbin Thread		Selective Motor and Treadle Drive	9
Bobbin Winding	18	Needle Insertion	16
Raising the Bobbin Thread	23	Two Needles	36
Threading the Bobbin Case	19	Needles and Thread	16
Bobbin Winding	18	Needle and Thread Selection	16
Buttonholes	46	Needle Threader	20
Corded Buttonhole	47	Needle Thread Tension	15
Button Sewing Foot	53	Adjustments	27
Caring for your Sewing Machine	80	For Satin Stitching	31
Chainstitching	39	Oiling	83
Cleaning	80	Overedged Seams (Stretch Stitch)	70
Cloth Plate, Removal and Replacement	4	Pleating	73
Corded Applique	49	Practical and Decorative Stitching (Basic Patterns)	
Corded Buttonhole	47	Built-In Discs	32
Couching	52	Combination Patterns	34
Darning and Embroidery Foot	74	Interchangeable Special Discs	33
Darning		To Change Special Discs	33
With Darning and Embroidery Foot	74	Presser Foot Lifter Lever	14
With General Purpose Presser Foot	59		

	Page		Page
Presser Foot for Overedged Seams (Stretch Stitch)	70	Lace	52
Presser Foot Pressure		Lace Tape	67
Settings and Adjustments	15	Zipper	62
Principal Parts of Machine	4, 5	Sewing Difficulties	85
Regulating the Thread Tensions	27	Sewing Light, Removal and Replacement of Light Bulb	7
Removal and Replacement of		Special Purpose Foot	46
Light Bulb	7	Spool Holder	17
Needle	16	Stitch Length Regulator	12
Presser Foot	14	Stitch Pattern Selectors	10
Special Disc	33	Stitch Width Selector	11
Throat Plate	14	Straight Stitching	
Reverse Stitching	12	Equipment	22
Ruffler	71	Setting	22
Satin Stitching		Stitch Length	12
Tension Adjustment	31	Sewing a Seam	24
Stitch Length Adjustment	31	With Two Needles	36
Scalloping	57	Straight Stitch Presser Foot	13, 22
Seams		Stretch Stitch	70
Corded Seams	64	Threading	
Curved Seams	60	Bobbin Case	19
Decorative Stitching	32	Single Needle	20
Flat Felled Seams	54	Two Needles	36
Lingerie Seams	54	With Built-In Needle Threader	21
Overedged Seams	70	Treadle Drive	8
Practical Stitching	32	Connection of Sewing Light	9
Seaming Sheers	51	Replacement of Belt	9
Seams in Knit Fabrics	55	Selective Motor and Treadle Drive	9
Straight Seams	22, 60	Throat Plates	13
Zig-Zag Stitching	29	Removal and Replacement	14
Seam Finishes	55	Two Needles	
Decorative Hems	67	Basic Pattern Stitching	37
Hemmed Seams	66	Insertion	36
Hemming with Lace	67	Straight Stitching	37
Seam Guide	60	Threading	36
Settings		Upper Threading	20
Needle Position	22, 30	Welting	64
Needle Thread Tension	15, 27	Zig-Zag Stitching	
Presser Foot Pressure	15	Adjusting Stitch Length	31
Stitch Length	12	Adjusting Stitch Width	30
Stitch Pattern	10	Equipment	29
Stitch Width	11	Settings	30
Sewing of		With Two Needles	37
Buttons	53	Zipper Foot	62
Cord	52	Zipper Insertion	62
Elastic	58		

SINGER