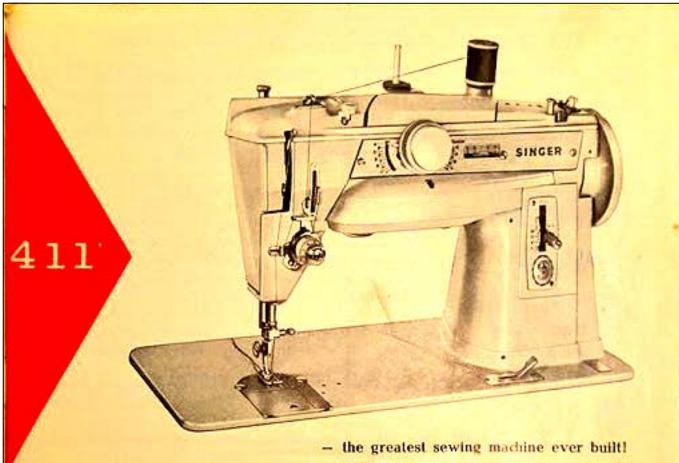
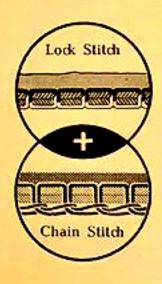


# Instructions for using SINGER\*



# The SINGER 411 - a truly remarkable machine with CHAIN STITCH feature



The SINGER 411 represents the truly universal sewing machine that will greatly contribute to perfect domestic dressmaking. In addition to its numerous outstanding advantages the machine now incorporates a new and unique feature in that lock stitching and chain stitching can be selectively produced on the same machine.

- World's first automatic that produces not only the conventional lock stitch, but also a single thread chain stitch which can be used for basting seams thus replacing hand-basting. This feature will release you from time consuming work and it reveals new aspects so far non-existent in the overall picture of the applications of the modern family sewing machine. (For detailed instructions concerning operation and application, see page 22.)
- World's first automatic with slant needle and gear drive. Seeing is easier, sewing smoothest ever. No slipping or stalling.
- World's first automatic with double-easy threading. Has built-in threading chart, handy "drop-in" bobbin in front of needle!
- World's first automatic with a built-in eye-level stitch chart, that lets you "tune" the knob for whatever fancy stitch you want!

#### OTHER OUTSTANDING FEATURES ARE:

- PERFECT STITCHING . . . straight and zigzag.
- NEEDLE CLAMP holds one or two regular needles — same or different sizes for exciting twin needle stitching.
- AUTOMATIC THREAD CONTROL ensures a smooth flow of thread from spool to needle for uniform stitch setting.
- ELEVATOR TYPE multi-purpose calibrated throat plates, lever operated, simplify free motion darning and embroidery.

- SUPERFINE CONTROL of stitch length ensures perfect satin stitching.
- HINGED face plate swings open for easy access to oiling and cleaning points.
- BUILT-IN MOTOR with worm wheel drive, no belts required, excellent penetrating power when sewing heaviest materials without manual assistance (electric drive).
- · BUILT-IN LIGHT focused on sewing area.
- ALL MECHANISM completely enclosed.
- SPECIAL PURPOSE FOOT.
- FLEXIBLE SEAM GUIDE.

#### TO GET THE MOST ENJOYMENT FROM YOUR SINGER

Take advantage of the free sewing lessons to which you are entitled: Skilled, SINGER-trained teachers will give you personal guidance and assist you in learning the fundamentals of home sewing.



#### SINGER SERVICE

Wherever you go you will find expert, dependable SINGER\* Service close at hand. SINGER is interested in helping you keep your SINGER Sewing Machine in top running condition. That is why you should always call your SINGER SEWING CENTRE if your machine ever requires adjustment or repair. Only from your SINGER SEWING CENTRE can you obtain the services of a trained SINGER repair man and warranted SINGER\* parts.





#### EVERYTHING FOR THE WOMAN WHO SEWS

The answer to your sewing needs is at your SINGER SEWING CENTRE. There you will find a wide choice of sewing aids, notions, sewing instructions and services. Look for the famous red "S" and SINGER trademarks on your SINGER SEWING CENTRE and the ever ready SINGER Service Car. See phone book for address nearest you.

#### NEEDLE AND THREAD SELECTION

The selection of thread should be based on the fabric to be stitched. The thread should blend with the fabric in colour, fibre and size.

Silk and wool fabrics should be stitched with silk thread; cotton fabrics should be stitched with cotton or cotton mercerised thread, etc. The thread must be of a size that will imbed itself into the texture of the fabric. Thread that is too heavy for the fabric will remain on the surface and become weakened by friction and abrasion.

The selection of the needle should be based on both the fabric and thread being used. The eye of the needle must be large enough for the thread to pass freely through it. The blade of the needle must be fine enough not to mar the fabric with too large a puncture, yet heavy enough to pierce the fabric without binding or deflecting.

You will obtain best stitching results from your Sewing Machine if it is fitted with a SINGER\* Needle.

#### NEEDLES AND THREAD

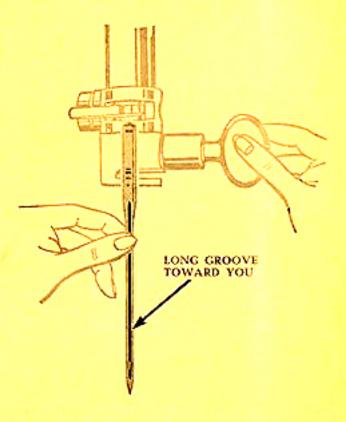
This machine uses a Cat. 2020 (15×1) needle. Sizes 9, 11, 14, 16 and 18.

For perfect stitching, select correct needle and thread to correspond with fabric (see page 5).

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

#### NEEDLE INSERTION

Raise the needle bar to highest point by turning the hand wheel toward you. Loosen the needle clamp screw. Insert needle upward into clamp as far as it will go, with the flat side of the needle to the back and the long groove toward you. Tighten needle clamp screw.



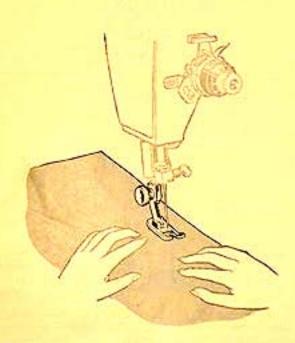
#### TO OPERATE MACHINE

(Electric Drive)

Place material under the presser foot and lower foot. Connect plug to electric outlet (see page 97). Start machine by pressing controller. (If installed as knee controller, press knee lever to the right; if installed as foot controller, press down on foot pedal.)

The speed of the machine depends entirely on the amount of pressure applied to the controller.

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



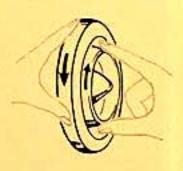
### TO OPERATE THE MACHINE (Treadle Drive)





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. Practice this motion until you are able to re-start machine with hand wheel turning over toward you. Then tighten stop motion screw.



Place material under presser foot and lower the foot.

Operate machine (without thread) until you become accustomed to guiding the material.



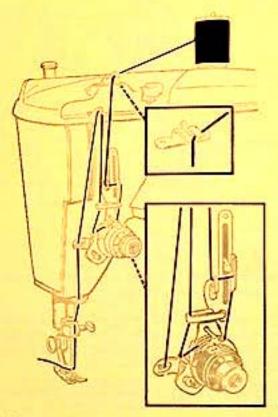
#### BELT SHIFTER

To throw off the belt, work the treadle and move belt shifter to position shown.

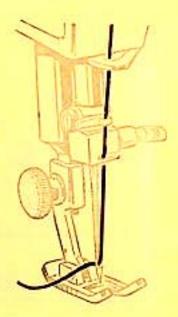
To replace belt, release belt shifter and work treadle slowly with band wheel turning over toward you. One or two revolutions of band wheel will bring belt back into place.

Note: Tension on belt should be only heavy enough to keep belt from slipping.

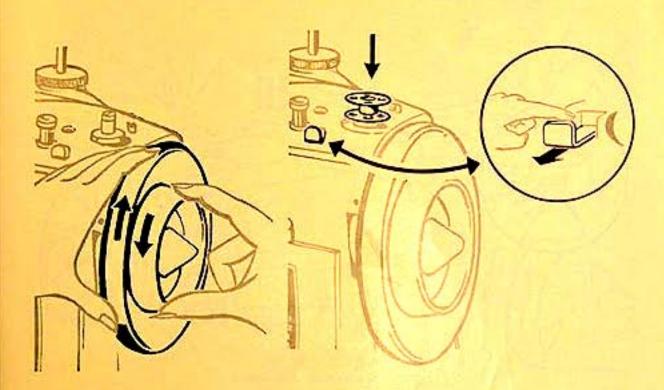
# UPPER THREADING-SINGLE NEEDLE



Raise take-up lever to highest point. Place thread on spool pin and lead through threading points shown. Thread needle from front to back. Draw sufficient thread through eye of needle with which to start sewing.

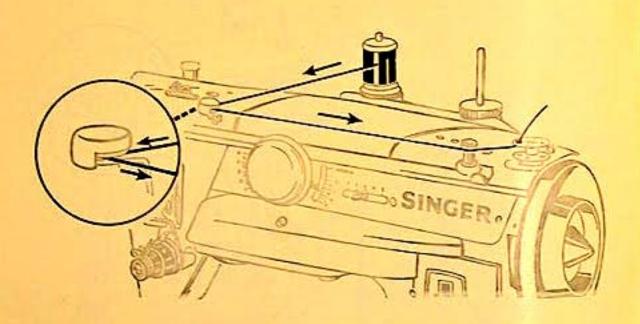


#### WIND THE BOBBIN

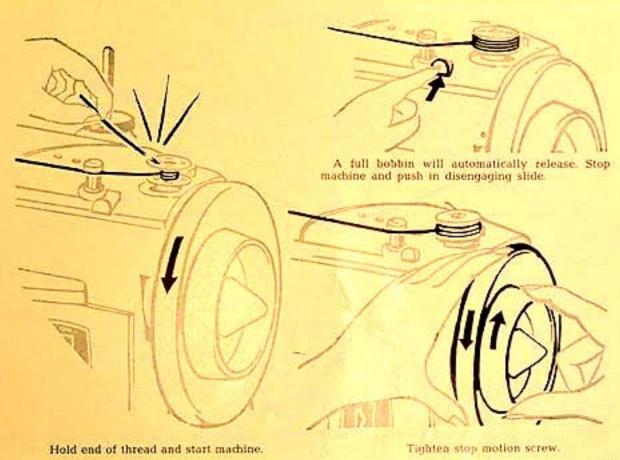


Loosen stop motion screw with right hand. Place bobbin on spindle. Pull out bobbin winder engaging slide.

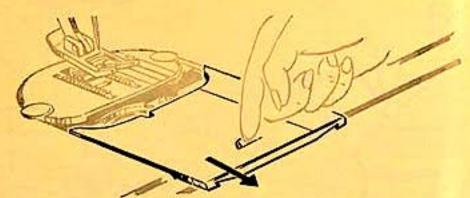
# WIND THE BOBBIN (Cont'd.)



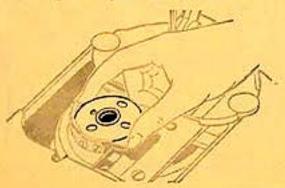
Thread the machine as shown.



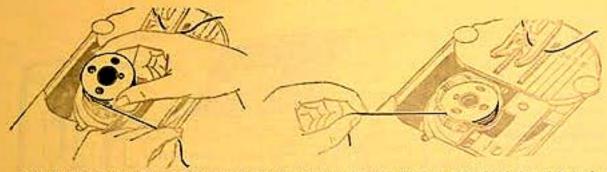
# REMOVE THE BOBBIN



Open slide plate and remove bobbin.



#### THREADING THE BOBBIN CASE

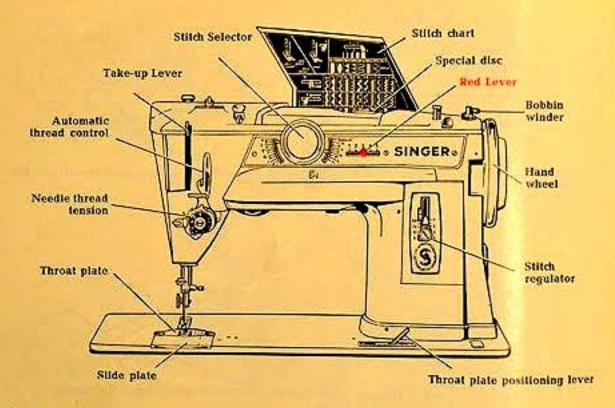


Hold bobbin so that thread leads off in direction shown. Place bobbin in case. Lead thread into slot and under spring.

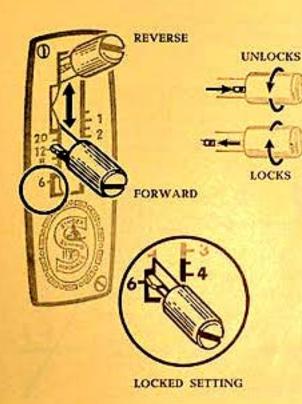


Draw thread into notch at end of spring, pulling off about 3 inches of thread across the bobbin. Close slide plate allowing thread to enter notch.

#### PRINCIPAL PARTS OF MACHINE 411



#### STITCH LENGTH REGULATOR



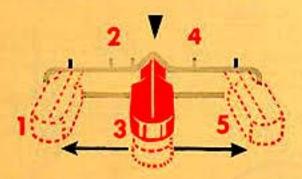
Numerals on the left side of the indicator represent the number of stitches per inch. Numerals on the right side represent stitch length in millimeters.

The upper indented area of the indicator represents stitch lengths above 20 per inch or stitches less than one millimeter in length.

The lower indented area of the indicator allows the No. 6 stitch length setting to be "locked" in place when stitching folds, pleats or multiple layers of heavy fabric.

To set stitch length: Release pointer by turning thumb nut to the left, as shown. Position lever for desired stitch length. Tighten pointer against the plate by turning thumb nut to the right.

Once the pointer has been positioned, reverse stitching is accomplished by raising the lever to its highest point. The No. 6 "locked" position cannot be reversed.



A Red Lever setting is necessary for both straight and zigzag stitching. Numerals indicate five positions, but intermediate settings may also be used.

To position, depress lever and slide it left or right to desired setting.

#### STITCH SELECTOR

Set Red Lever at 3

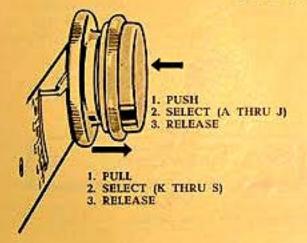


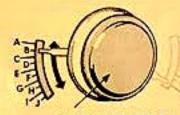
All settings on the left of the plate are controlled by the outer knob. Posh (using right hand) — select desired setting and release.

All settings on the right of the plate are controlled by the inner knob.

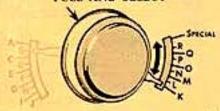
Pull (using left hand) — select desired setting and release.

Do not make selector adjustments while the needle is in the fabric.

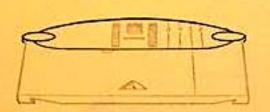


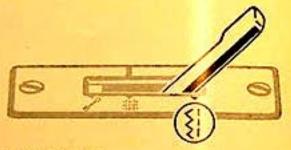


PUSH AND SELECT PULL AND SELECT

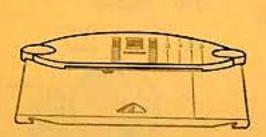


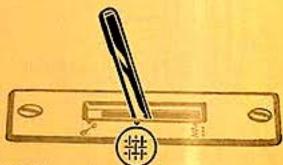
# THROAT PLATE POSITIONS





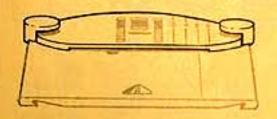
Throat plate down for general sewing.

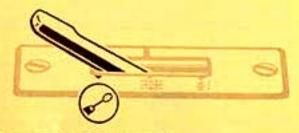




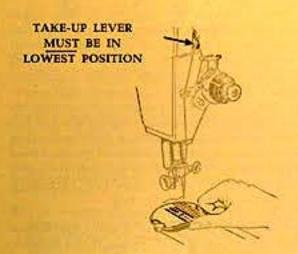
Throat plate raised for darning, embroidery and button sewing.

# THROAT PLATE REMOVAL AND REPLACEMENT





Throat plate raised (unlocked) for removal and replacement.



Raise presser bar. Turn hand wheel to drop takeup lever to its lowest point. Move throat plate lever to the left. This preparation applies to both removal and replacement.

Remove throat plate by sliding it back.

Replace throat plate by sliding it on from the rear.

Lock throat plate in place by moving lever to the right.

Presser foot need not be removed for this operation.

#### CHAIN STITCH





More than any other sewing machine the new SINGER 411 will eliminate a considerable amount of time-consuming and burdensome work previously done by hand. This machine has the unique feature of being capable of producing not only conventional lock stitching but selectively single thread chain stitching.

The main advantage of this type of stitch is that the single thread chain stitch can easily and quickly be removed by a single pull on the chain stitch seam. By means of the chain stitch the necessary tacking and basting operations indispensable for sewing perfectly fitted dresses or other garments can now be produced on a machine. Even a section of a chain stitch seam can be removed without any offert as is frequently required when fitting the dress or garment (side and waist seams). Once the dress or garment fits, the final lock stitch is stitched in a close parallel line to the chain stitch. Then the temporary seam is removed by a single pull without leaving remains of the thread in the fabric. Thus sewing-in of the basting seam is very unlikely. For basting regular thread or darning thread may be used.

The single thread chain stitch has a wide range of applications and can be employed for a variety of operations, for instance-

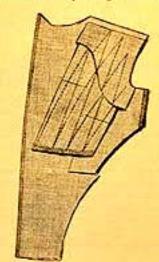


- Edge basting on jackets, coats and costumes sleeve inserting — attaching collars — hems on skirts, blouses etc.;
- Basting canvasses to the fronts of costumes and jackets instead of sewing them with zigzag stitches;
- Sewing shrinking tucks on garments as shirts, pyjamas etc.
   as well as on ready made clothes and curtains made from
   fabrics which are likely to shrink. The temporary stitching of
   the curtains and also the final stitching can be performed on
   the same machine. Stitching growth tucks which can be opened on clothes for growing children, as desired;
- Re-sewing waist and leg hems on ladies' and men's underwear of tricot or interlock labrics when replacing clastics;

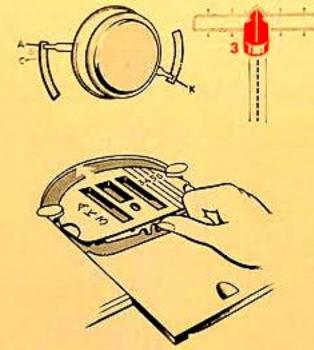
 Adjusting length and width of ladies' slips (shortening for short persons, taking-in width for slim persons) particularly to match fashions when dresses have a certain degree of transparency making a slip essential.

Another most distinctive feature of the chain stitch which will certainly be appreciated by the homeworker for artisan type production is that the chain stitch is formed exclusively by the needle thread thus freeing the operator from bobbin winding. This, in turn, is a time saving factor. In addition to the above mentioned applications the artisan worker will use the chain stitching for —

 First contour stitching on shirt collars — sewing on labels hemming operations on neckties and umbrellas — in short, all operations where the chain stitch proves to be advantageous with respect to convenience, quality and time.



# TO PREPARE THE MACHINE FOR CHAIN STITCH SEWING

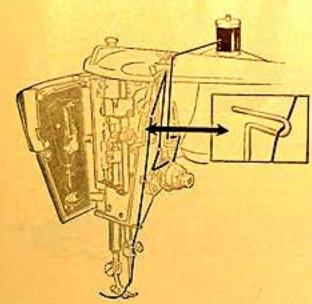






#### Set selectors at AK and Red Lever at 3.

Remove regular throat plate and bobbin. Insert chain stitch throat plate from the front.



Threading: In addition to normal threading, place the needle thread in the chain stitch thread guide with the face plate open.

Stitch length: Normally set for maximum length, approx. 6 stitches to the inch (4 mm) (left row of numbers on the stitch indicator plate). Any stitch length between 6 and 12 stitches to the inch (2 mm) may be used.

Upper thread tension: Normally set between 1 and 2. Slight adjustment may be required dependent on the stitch length and the material used.

#### CHAIN STITCHING

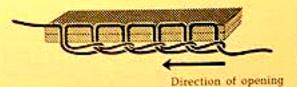
A chain stitch seam has the same appearance as a lock stitch seam on the top side of the fabric. However, the knotting of the stitch does not occur in the material as on a properly balanced lock stitch seam; instead the thread forms loops on the underside of the fabric which resemble small arrowheads. These arrowheads peculiar to the chain stitch point towards the beginning of the seam.

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. Sew forward only! 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. 1 cm above its lowest point) to avoid skipped stitches. Then continue to sew.

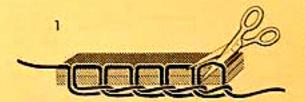
#### TO REMOVE THE MATERIAL FROM BENEATH THE PRESSER FOOT

The easiest way of removing the material is to sew off the edge of the fabric while slightly pulling on the material. This produces a chain which should be cut some distance away from the fabric. However, if the seam is ended before the edge of the fabric, bring the take-up lever to its highest position, then lift the presser foot and pull some thread through the take-up lever from the spool pin. Now draw the loose thread between the presser foot and the material to the right with the scissors and then cut the thread. By removing the material the free end of the thread is automatically pulled to the underside of the material and the seam is securely locked.

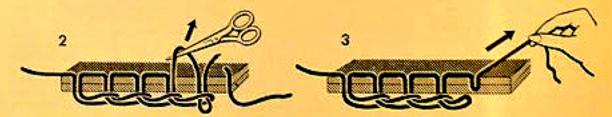
#### TO OPEN THE SEAM

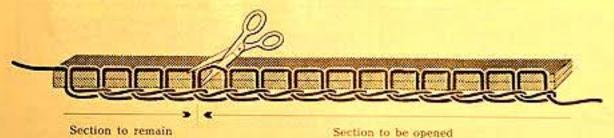


The chain stitch seam can be opened in one direction only, from the end of the seam towards the start of the seam. The opening direction is distinguished by the arrowheads on the underside of the fabric which point towards the beginning of the seam.

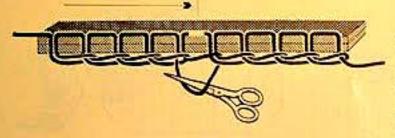


To open the seam, cut the last stitch on the top side of the fabric and then pull up the preceding stitch. With this free thread end the seam can be removed by a single pull. In the same manner the seam may be opened and removed at any desired place by pulling the thread end in arrowhead direction. The remaining section to the end of the seam will be maintained.





Section to remain



However, if the section towards the beginning of the seam is to remain and the segment towards the end of the seam is to be removed, either partly or completely, the remaining section must be locked first. For this purpose, cut the seam at the desired place on the top side and pull the loop out of the fabric on the underside of same. Then the desired segment of the seam can be removed as stated above.

#### TO CHANGE FROM CHAIN STITCHING TO LOCK STITCHING

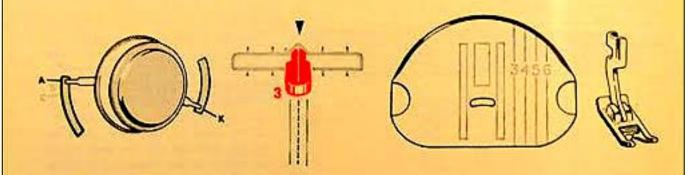
Changing to lock stitching requires only unthreading of the chain stitch thread guide (see page 25), replacing the bobbin and inserting the desired zigzag or straight stitch throat plate,

LOCK STITCH



# STRAIGHT STITCHING

AK 3



Set Selector at AK.

Red Lever at 3 - To locate stitching in central position.

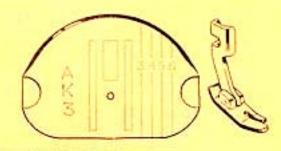
General purpose throat plate and presser foot.

Use general purpose throat plate and presser foot for all utility sewing, long straight seams, etc., and where there is occasion to alternate between straight and zigzag stitching.

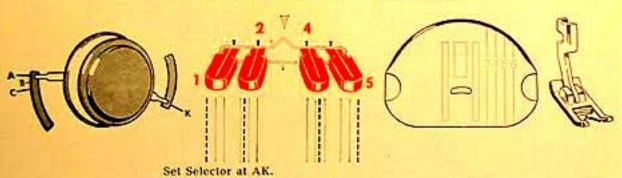
# STRAIGHT STITCH THROAT PLATE AND PRESSER FOOT

Use the straight stitch throat plate and presser foot where fabric and sewing procedure require close control . . . for precision stitching of curved and scalloped edges, top stitching, edge stitching, etc.

For best results, this equipment should be used when stitching sheer and filmy fabrics, knits and tricots (particularly synthetics) and all soft spongy materials.



#### STRAIGHT STITCHING SECONDARY POSITIONS



Red Lever at 1, 2, 4 or 5.

General purpose throat plate and presser foot.

Do not make Red Lever adjustments while the needle is in the fabric.

To meet special requirements a line of stitching may be placed to the right or left of centre.

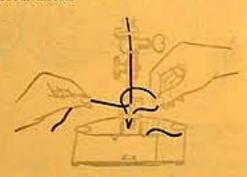
Red Lever settings 1 and 2 locate stitching to the left. Settings 4 and 5 place it to the right. Intermediate settings may also be used.

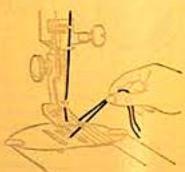
#### PREPARE TO SEW





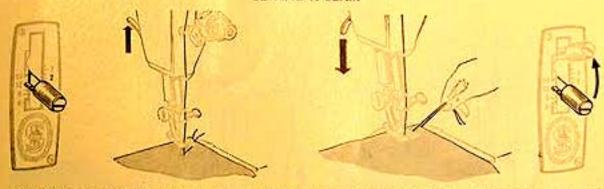
Hold needle thread lightly with left hand. Turn hand wheel so that needle enters plate and brings up bobbin thread.



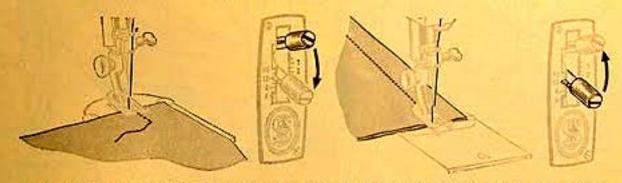


Pull end of bobbin thread through plate and place both needle and bobbin threads diagonally under presser foot.

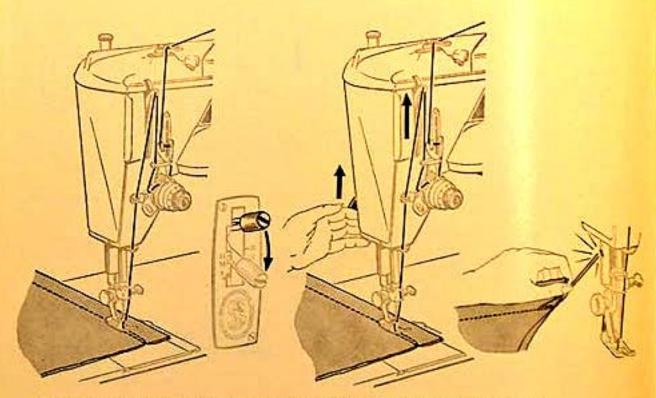
#### SEWING A SEAM



Set stitch regulator for stitch length desired. Position needle into fabric about 1/2 inch from edge and lower presser foot. Raise stitch regulator to reverse.

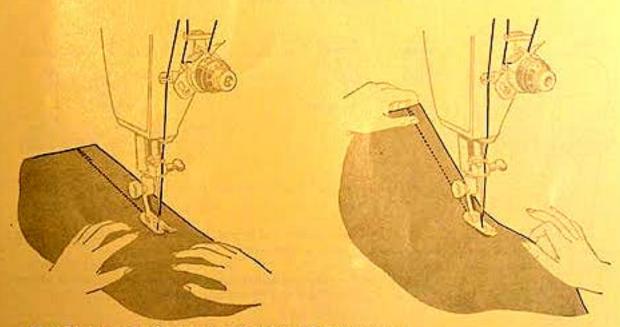


Back stitch to edge of fabric for reinforcement. Lower regulator for forward stitching of seam. Raise stitch regulator.



Back stitch to reinforce end of seam, and lower regulator to forward stitching position. With take-up lever at highest point, raise presser foot and remove fabric.

#### GUIDING AND SUPPORTING FABRIC

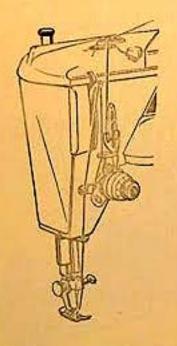


Most fabrics need only to be guided in front of the presser foot.

Fabrics of unusual texture and weave, filmy sheers, crepes, knits, tricots, etc., require support while being stitched.

For such fabrics, use the straight stitch throat plate and presser foot, and apply gentle tension to the seam by holding the fabric in front and in back of the presser foot as illustrated.

#### PRESSURE ADJUSTMENTS







To decrease pressure, turn thumb screw upward. To increase pressure, turn screw downward.

Decrease Increase

Pressure is the force the presser foot exerts on fabric while it is being stitched.

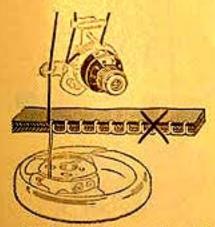
Smooth, even handling of several thicknesses of labric results when pressure is correctly regulated.

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 mar smooth surfaces and pile fabrics.

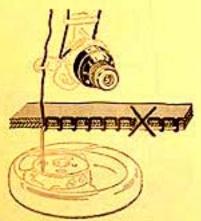
Surface finish, as well as the weight and texture of the fabric, must be considered in determining the amount of pressure needed.

## NEEDLE THREAD TENSION STRAIGHT STITCHING



Needle thread tension too tight correct by setting dial to lower number.



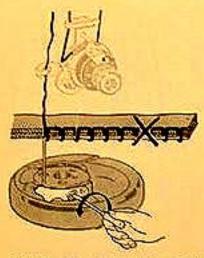


Needle thread tension too loose correct by setting dial to higher number.

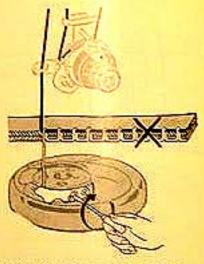


A perfectly locked stitch results with upper and lower tensions balanced so that needle and bobbin threads are drawn equally into fabric.

# STRAIGHT STITCHING



Bobbin thread tension too tight correct by turning screw in direction indicated.

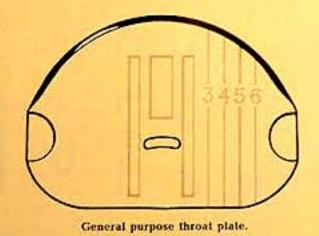


Bobbin thread tension too loose correct by turning screw in direction indicated.



A perfectly locked stitch results with the upper and lower tensions balanced so that needle and bobble threads are drawn equally into fabric.

## ZIGZAG STITCHING EQUIPMENT

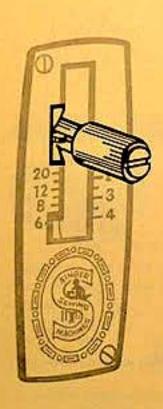


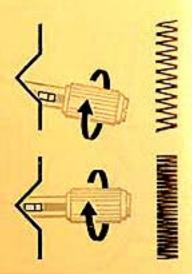
General purpose presser foot.



Special purpose presser foot.

# STITCH LENGTH ADJUSTMENT FOR SATIN STITCHING





The upper indented area of the stitch indicator 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 setting will vary with the texture of the fabric. It is advisable to make a test on a scrap of sell fabric, using the Special Purpose Foot, before proceeding with actual work.

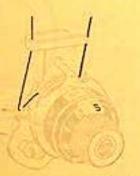
## SATIN STITCH TENSION ADJUSTMENT

Satin stitching requires a lighter needle thread tension than straight stitching or open designs. The wider the satin stitching the lighter the tension required.

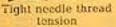
Wide satin stitching, Red Lever at 5, requires the least amount of tension. For narrower satin stitching slightly more tension should be used.

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

Some soft fabrics may require the addition of a backing to insure good stitching results. Crisp organdy and lawn are suitable for this purpose.







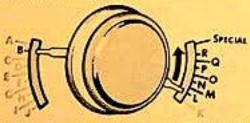




Correct needle thread tension

#### PRIMARY PATTERNS

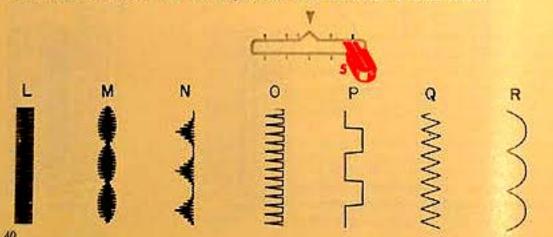
See pages 18 and 19 for operation of Red Lever and Selector.



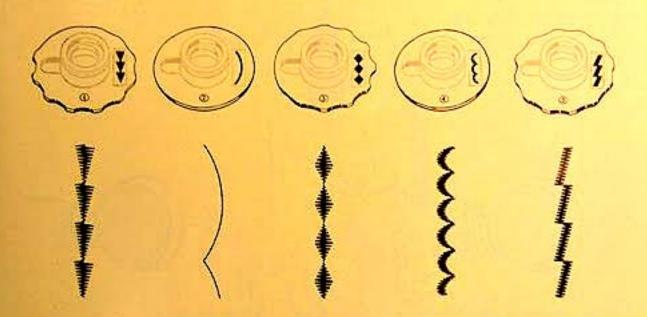
Selector settings L through special control primary patterns. Selector setting B places stitching in central needle position. Red Lever controls width of primary patterns.

SPECI

Do not make selector or Red Lever adjustments while the needle is in the fabric.



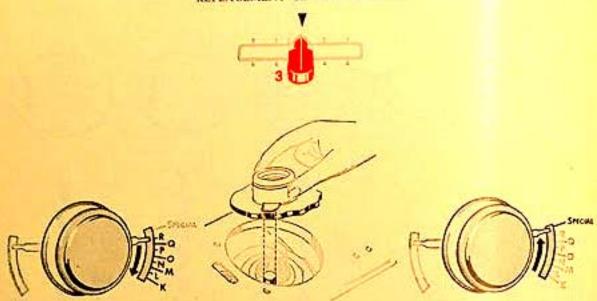
## PRIMARY PATTERNS SPECIAL DISCS



These five interchangeable Special Discs, classified as Primary Patterns, are included with the machine, Each produces an individual design.

Circled numbers (for example 2) in this book indicate Special Disc numbers.

# PRIMARY PATTERNS REPLACEMENT OF SPECIAL DISCS

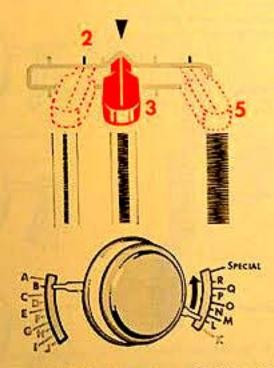


To replace any of these discs, move right hand pointer of Selector off Special.

Raise the stitch thart at top of the machine. Remove disc and place another disc outo spindle, pushing downward until disc snaps in place.

Set right hand pointer on Special to engage the disc.

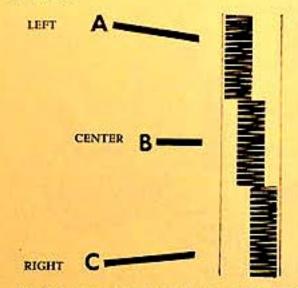
# PRIMARY PATTERNS RED LEVER CONTROL OF WIDTH



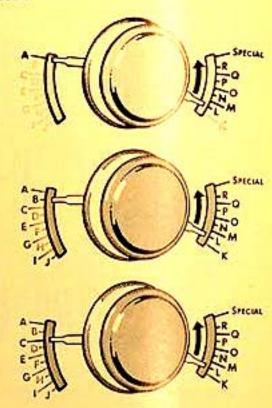
The width of Primary Patterns is controlled by the Red Lever Settings range from a maximum of 5 to a minimum of 2

## PRIMARY PATTERNS NEEDLE POSITIONS

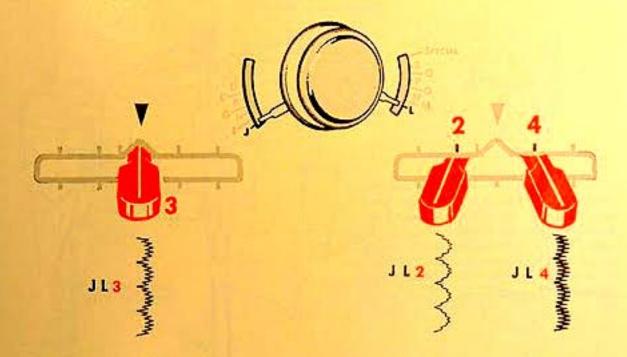
Selector setting of B places stitching in central needle position. Selector settings A and C place the stitching in left and right needle positions at widths less than 5



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



## COMBINATION PATTERNS AND VARIATIONS

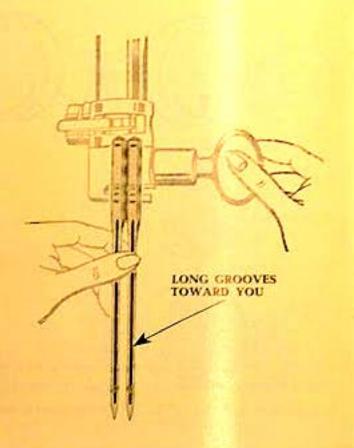


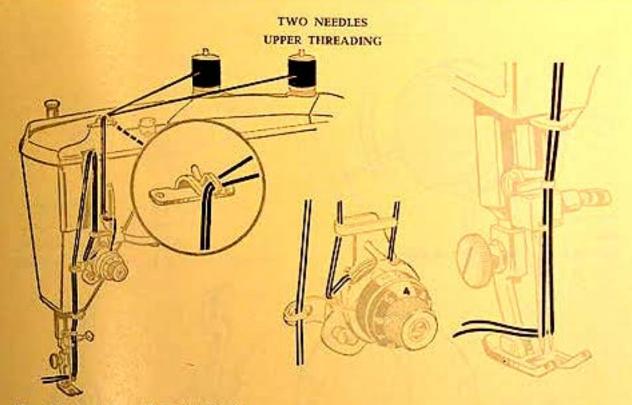
A great variety of additional stitch patterns can be created by combining any left hand Selector setting from D through J with any right hand Selector setting from L through Special.

A Red Lever setting of 3 results in a Combination Pattern. Settings of 2 and 4 produce Variations.

#### TWO NEEDLES

The needle clamp accommodates two Cat. 2020 (15×1) needles, generally of the same size. However, where special effects are desired, needles of different sizes may be used together, with corresponding threads. Loosen the thumb screw and insert the additional needle from the right. (See page 6 for procedure.)





Use size 50 mercerised cotton thread.

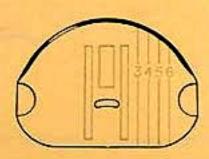
Thread as for single needle (see page 10). Be sure threads are separated by the centre tension disc. Carry only one thread through the last guide before the needle.

## TWO NEEDLES STRAIGHT STITCHING AK 2



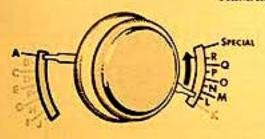
Selector setting: AK. Red Lever: 2 only.

General purpose foot and throat plate.





# TWO NEEDLES PRIMARY PATTERNS



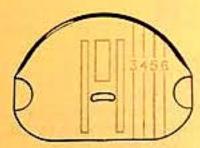
Selector setting: A - L through special

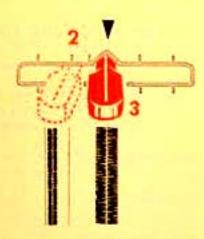
Red Lever: 2 or 3 maximum.

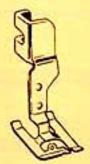
General purpose throat plate.

General purpose foot or special purpose foot.









# Instructions for using 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-stitching. It provides maximum visibility and maneuverability while allowing closely spaced zigzag stitches to feed freely.

It is ideal for accurate placement of satin stitching in buttonholes, monograms, motifs and applique work.

The eyelet on the left side of the foot accommodates a filler cord.

#### APPLICATIONS

Buttonholes Applique Monograms Decorative Stitching Couching Motifs

#### BUTTONHOLES

Selector: AL

Red Lever: See below

Throat plate: General purpose

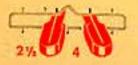
Special purpose foot Stitch length: Fine

To establish the correct stitch setting and length of buttonhole, a sample must first be made.

Three Red Lever settings are available. Fabric weight will determine the selection.





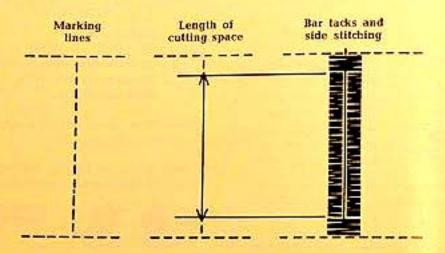








### BUTTONHOLES

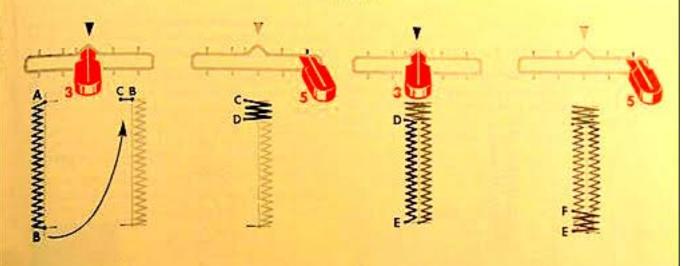


The length of cutting space, the opening through which the button passes, is measured by the width and thickness of the button.

The length of the finished buttonhole will be the cutting space plus 1/4 inch for bar tacks.

Work a sample buttonhole in the same fabric as the garment. Use a double fold, duplicating a facing, and include interfacing if this has been used.

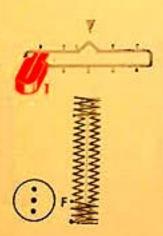
### BUTTONHOLES



Stitching Procedure. Set Selector and Red Lever. Place work under the needle, aligning the center marking of buttonhole with center score line of foot.

To form side stitching, turn hand wheel toward you so the needle enters fabric at point A. Lower foot and stitch to end of marking. Leave needle in fabric at point B. Raise foot, pivot work on needle. Lower foot, Take one stitch without changing Red Lever setting, bringing work to point C. Adjust to Red Lever setting for bar tacks and take no less than six stitches. Stop at point D. Reedjust to Red Lever setting for side stitching. Complete to point E. Move to Red Lever setting for bar tacks and duplicate tack previously made, ending at point F.

### BUTTONHOLES



Place the spool of filler cord on the second spool pin. Carry the cord through the first thread guide, straight down between the center and back tension discs, 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

cords for raised buttonholes.

for regular buttonholes.

Raised or Corded Buttonholes. Both No. 8 pearl cotton and buttonhole twist make suitable filler

To secure stitching move Red Lever to No. 1 setting and take three stitches. Remove work, draw threads to the underside, fasten and trim.

With sharp embroidery scissors cut opening for button.

#### APPLIQUE

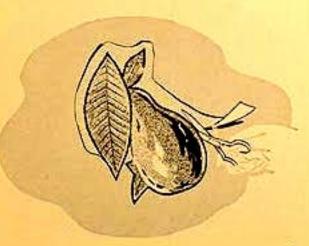
Applique adds beauty and interest to wearing apparel, linens and fabric furnishings.

Either contrasting or self fabric may be used effectively. The most versatile stitch in appliqueing is a closely set zigzag stitch (Primary Pattern BL). The width of this stitch may be varied to accommodate weaves and textures of fabrics. Combination Patterns and Variations present many interesting ways to applique with decorative stitching.

Preparation. There are two methods by which applique work may 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 Purpose Foot to the presser bar.

Method No. 1. Set Selector and Red Lever for the desired stitch pattern. Following the shape of the design, outline it entirely with applique stitching. Any excess fabric on the outer edges is trimmed away after the stitching has been completed.



## APPLIQUE

Method No. 2. Set Selector and Red Lever to AK 3 for straight stitching. Outline the entire design with a short stitch. Trim the raw edges down to the stitching.

Set Selector and Red Lever to the stitch pattern desired, and overedge the design with this stitching. A smooth, lustrous finish results, which requires no additional trimming. Corded Applique. The Special Purpose Foot, which provides for a filler cord, is perfect for corded applique work. Gimp, crochet thread or button-hole twist are generally used.

See page 54 for threading.

Either method of appliqueing may be used when cording is desired. The only change in procedure is the introduction of the cord, over which the applique stitching is formed.

This stitching technique results in a raised, dimensional effect, and is an ideal finish for Isce applique.



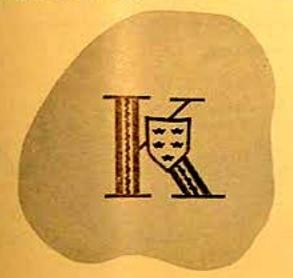
## MONOGRAMS AND MOTIFS

Any of the many stitch patterns are perfect for monograms and motifs.

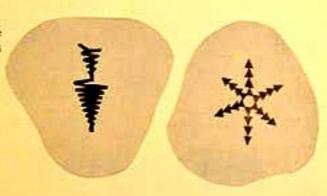
Select a design from the many transfer patterns available or sketch one to suit your purpose.

Some fabrics may require a backing of lawn or organdy.

Position the design on the right side of the material. Trim backing away when stitching is completed, if necessary.



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.



Remove the material from under the presser foot. Now position motif or monogram under the 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.

## SEAMING SHEERS

Selector: BL

Red Lever: 2

Throat plate: General Purpose

Special purpose foot

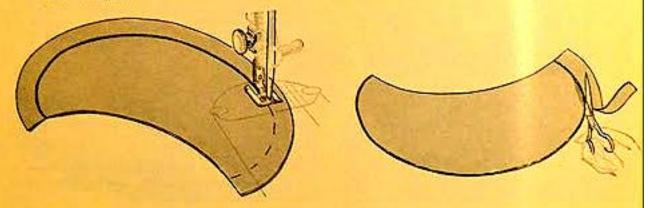
Stitch length: Fine (above 25)

A dainty hair-line 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 54 for threading).

Follow the seam outline covering the cord. Cut away seam allowance close to line of stitching.

Turn and press.

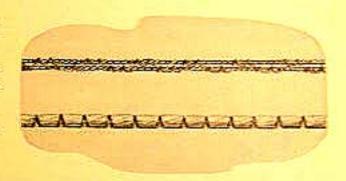


#### COUCHENG

Novel effects are obtained by comming grap, yars or braid with stifts patterns.

Spaced patterns are the most appropriate as they allow the decorative cords to show as part of the design.

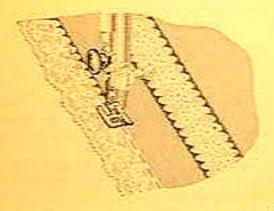
The Special Purpose Foot is ideally suited to this work.



#### LACE EDGING AND INSERTION

Delicate and durable rigray 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



This short, open foot accommodates any size sewthrough button, and holds it securely for stitch-

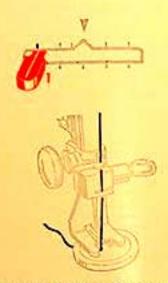
ing. The groove in the foot allows for insertion of a machine needle, over which a thread shank may be formed.

Selector: AL

Red Lever: 1 and 4 Throat plate: Raised

General purpose

Button sewing foot



The space between the holes in the button determines the Red Lever settings. Numbers one and four generally apply to standard buttons. The number one setting is constant, but four can be increased or decreased to accommodate buttons with unusual spacing.

Set Selector at AL and Red Lever at 1. Raise throat plate. Position button under foot so that needle will enter into left hole. Lower foot. Turn hand wheel toward you until needle rises out of fabric and is just above the foot.

# BUTTON SEWING FOOT

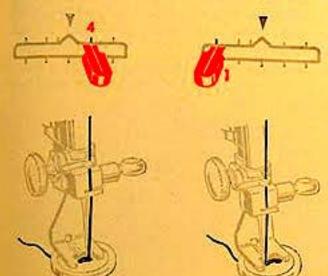
Set Red Lever at 4. The needle should then enter into the right hole of the button. Take approximately six zigzag stitches in this position. End on the left side.

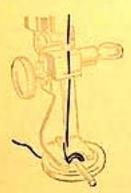
To fasten stitching, adjust to number one Red Lever setting and take approximately three stitches.

### THREAD SHANK

In order to form a shank, stitching is done over a regular machine needle. Position button and lower button foot. Place needle in the groove of the foot so the point enters the hole.

A larger shank results when the heavy end of the needle is utilized.





## 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 Mending and Maintenance Automatic Scalloping Seam Finishes

#### SEAMS

## LINGERIE SEAMS

Dainty lingerle seams are made durable and ripproof with zigzag stitching (Bl 2%). After straight stitching the fitted seam on the wrong side, press both seam allowances in the same direction. From the right side, top stitch with a fine zigzag setting, letting the needle enter the seam line and then the seam thickness. Particularly good where flat bias seams are desired.



#### SEAMS

### FLAT FELLED SEAMS

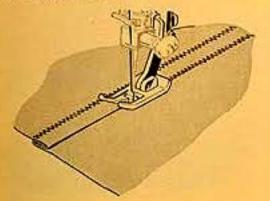
Zigzag stitching gives strength and durability to flat felled seams.

Form the seam to the right side of the fabric, taking full seam allowance, using a zigzag stitch (8L3).

Press the seam open, then fold and press the two edges together, keeping the right side of the zigzag stitch uppermost.

Trim away half the under seam edge.

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

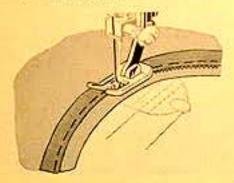


## KNIT FABRIC SEAMS

A fine zigzag stitch (Bi, 1%) is ideal for seaming knit fabrics. Particularly desirable for underarm seams, on other seams where elasticity and give are needed.

For neckline and waistline seams, where a stay is needed to prevent undue stretching, this same stitch can be used to apply seam tape. To insure a flat, smooth finish, position the seam tape with the edge exactly on the seam line. If seam is curved, pre-shape tope to fit by steaming, and baste in place.

Stitch, allowing the needle alternately to enter the seam tape and seam line.



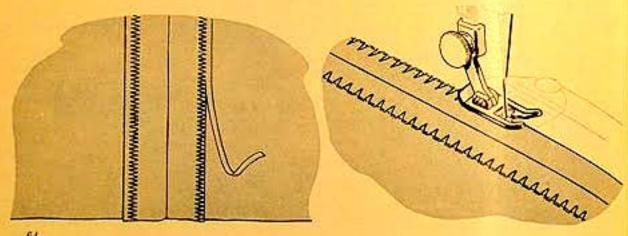
## SEAM FINISHES

Seam edges support the garment and should be given a durable finish where fabrics have a tendency to ravel.

The zigzag stitch BL is ideal for such finishing. Place the stitching near the edge of the seam allowance and then trim away excess fabric.

For an overedged seam, the blind stitch BO makes a durable bulkless finish. Good for straight grain, lengthwise seams.

Seam edges should be trimmed evenly, and the stitch then formed over the raw edge.



#### DARTS

Darts provide fit and contour in a garment and should be accurately stitched.

A straight stitch dart (AK 3) is usually formed by stitching from the seam edge, tapering gradually to the point, where the last 3 or 4 stitches parallel the fold. Stitch beyond the fabric to form a thread thain ½ to ¾ inch in length. The thread ends into a single knot close to the stitching.



## SINGLE THREAD DARTS

Darts add styling and interest when stitched with the fold to the outside of garment. Thread ends at the point of the dart are eliminated when the single thread principle is employed.

Unthread the needle. Use the thread leading off the bobbin and rethread the needle from back to front. Tie bobbin and upper threads together.

Draw bobbin thread up through, threading points, winding enough on the spool to complete a single dart. Lower the needle into the very edge of the fold at the point of the dart. Take any slack out of the thread by turning the spool. Lower the presser foot and stitch carefully toward the seam edge.

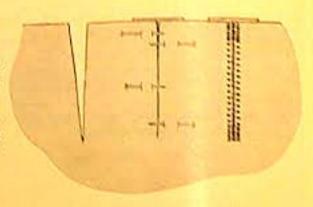
This method is also ideal for inside darts in sheer fabrics as thread ends are eliminated at the point of the dart.



## DARTS IN INTERFACING

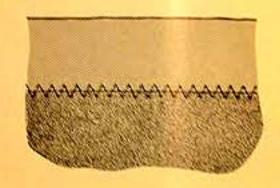
Non-woven interfacings can be shaped without bulk with sigzag stitching. Selector setting BL of BQ may be used.

Cut out the dart allowance on the stitching line and bring the raw edges together. Pin, over a muslin stay, and stitch. Back stitch at both ends.



## BLANKET BINDING

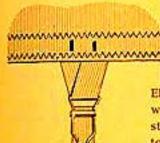
The multiple stitch rigrag (BQ) is an excellent stitch for applying blanket bindings and affords both a decorative and durable finish. Remove wern binding. Baste new binding securely in place and stitch. Adjust pressure if necessary, to accommodate the thickness of the blanket.



#### MENDING

Zigzag stitching is well suited for all types of household mending. Selector setting BQ provides 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.

Rent or Tear. Trim away ragged edges. Place an underlay to the wrong side of the tear for reinforcement. Using the multiple stitch zigzag (BQ) follow the line of the tear bringing the edges together. Shorten the 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 insure fullness required in the garment.



## SCALLOPING

Dainty scalloped edges are used extensively as self-trimming on blouses, dresses, lingeric and dold-ren's wear.

. Perfectly formed and eventy spaced scallops are produced automatically at Selector Settings BR and BS (2).

BR results in a 12-stitch scallop.

BS (2), a 24-stitch scallop.

Stitch regulator and Red Lever settings vary the length and depth of the scallop.

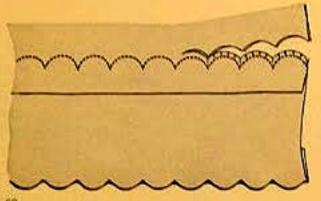
After stitching, trim seam allowance to less than 1/4" and clip into the points between scallops.

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

Turn, gently roll out scallops between the fingers and press.

When scalloping a shaped or bias edge it is best to use an interfacing.

When forming scalloped tucks, add an extra V4° to tuck allowance for seaming





### THE SEAM GUIDE



The seam guide aids in attaining uniformity of seam width. It provides

for stitching to be spaced at any distance between 1/4" to 11/4" from the edge of the fabric.

#### APPLICATIONS

Seams Top Stitching Blind Stitching Decorative Stitching

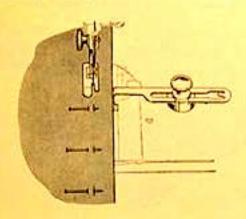
The attachment is used in connection with a presser foot.

It is secured to the bed of the machine in either of the threaded holes to the right of the needle.

#### SEAMS

To guide seam stitching straight and parallel to the edge of the fabric, adjust the attachment for proper seam width. Align the guide with the presser foot. (Set Selector at AK, Red Lever at 3.)

Pin seam edges and baste if necessary. Hand basting can be eliminated on easy-to-handle fabrics. Place pins with the points toward the seam edge so they nip into the fabric at the stitching line. The hinged presser foot will ride freely over the points. Guide the fabric edges lightly against the guide while stitching.



#### CURVED SEAMS

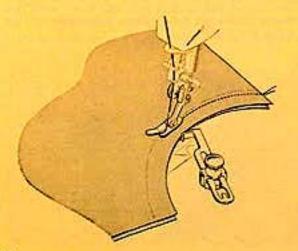
Curved seams require additional treatment in handling. A shorter stitch will provide greater elasticity and strength. Set the attachment at an angle so that the end closest to the needle acts as a guide.

#### TOP STITCHING

A simple and practical way to accent the lines of a garment and at the same time give additional firmness.

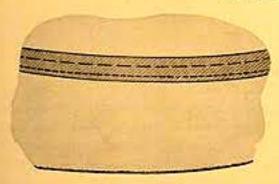
Either single or multiple rows of stitching can be expertly placed along lapels and facing edges, around collars and pockets and as a hem finish.

A subtle effect may be achieved by using straight stitching, or a decorative touch may be added by using any of the attractive stitch patterns accomplished with this machine.





## BLIND STITCHED HEMS



Selector: BO

Red Lever: 2-5

Stitch length: 10 - 20

Presser foot: General purpose Throat plate: General purpose

Seam guide

Blind stitching provides a durable hem finish that is almost invisible, and comparable to hand sewing. It is equally suited to straight as well as

circular hems. Taped, bound, turned or unfinished hem edges can all be blind stitched with equal ease.

Mark, turn and press the hem in the usual way. Place a basting guide line approximately 1/4" from top bem edge.

Set Selector at BO. This setting produces four straight stitches, separated by a single sideward stitch to the left.

Red Lever setting for width of stitch is determined by the weight and texture of the fabric used.

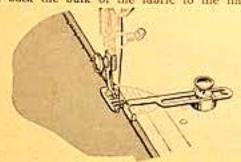
Place the hem edge over the feed of the mechine, turn back the bulk of the fabric to the line of basting, creating a soft fold.

Position the work so that the straight stitches are made on the hem edge and the sideward stitches pierce the fold.

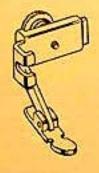
The stitch length will regulate the distance betwen the blind stitches (10 to 20 stitches per inch).

Adjust the seam guide over the right toe of the foot until it rests next to the soft fold. While stitching, feed the fold against the flat of the guide.

A test sample in self fabric should be made to determine correct settings.



#### THE ZIPPER FOOT



This foot is designed to facilitate the placement of stitching close to a raised edge. The hinged feature of this foot insures 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 may be adjusted to either the right or left side of the needle. Straight stitch or zigzag settings may be used.

#### APPLICATIONS

Zipper Insertions Corded Seams Tabular Cording Slip Cover Welting

Preparation. Secure the zipper foot to the presser bar as you would the regular presser foot. Set Selector and Red Lever. Adjustment to the right or left of the needle is made by loosening the 72 thumb screw at the back. Check the position of the foot by lowering the needle into the side notch, making sure it clears the foot. Lock it into position by tightening the thumb screw.

## ZIPPER INSERTION

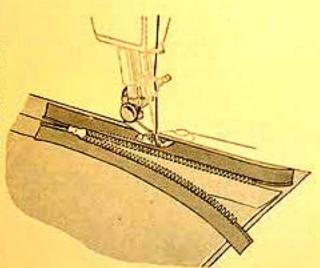
Selector: AK

Red Lever: 3

Throat plate: General purpose

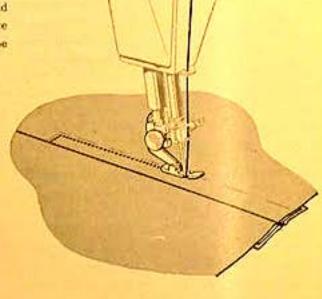
Zipper foot

Skirt Zipper. 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.



## ZIPPER INSERTION

Move the foot to the left. 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. Baste. Move the foot to the right. Stitch across the lower end of the zipper and up to the waistline. Remove basting.

## BLIND STITCHED ZIPPER INSERTION

Blind stitching the final step of a zipper insertion results in a fine finish that is almost invisible and comparable to hand sewing. Particularly suitable for chiffons, sheers, velvets and all delicate labrics where top stitching would be too harsh.

Allow a 1/s" seam allowance. Start the insertion in the usual way, through steps 1 and 2 (pages 73 and 74) but omit final top stitching.

Work from the right side of the garment and pin the front of the zipper tape into position.

Roll the work over finger to ease fabric and pin through all thicknesses. Baste about 1/s\* from seam line to provide guide for blind stitching. Remove pins. Selector: BO

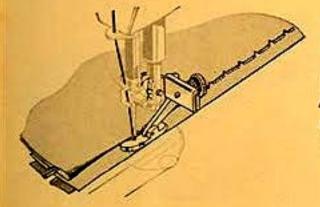
Red Lever: 2% or 3

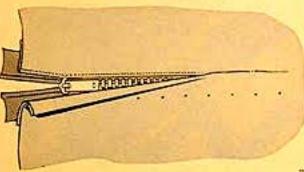
Throat plate: General purpose

Stitch length: 12 Zipper foot

Set stitch and adjust zipper foot to the right side of the needle.

Turn garment inside out. Place zipper tape over feed of machine and turn back the front section of garment to line of basting, creating a soft fold. Position work so that the straight line of stitching is made through front seam allowance and zipper tape, and the sideward stitch pierces a few threads of the fold. Lower presser bar and stitch slowly. Remove bastings. Press.





#### CORDED WELTING

Selector: AK Red Lever: 3

Throat plate: General purpose or

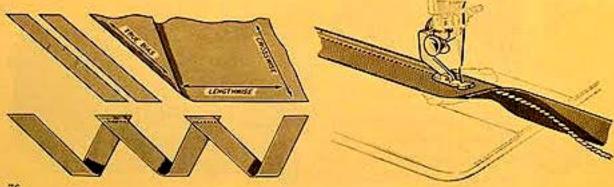
Straight stitch

Zipper foot

Cable cord comes in a variety of sizes and when covered with a firmly woven fabric makes a corded welting that is an excellent seam finish.

This welting is prepared in advance and then stitched into the seam. Cut a true bias strip 1¼ inches wide, plus three times the width of the cord of either self or contrasting fabric. Sew strips together on the lengthwise grain to obtain desired length.

Set Selector. Adjust zipper foot to the left side of the needle. Encase the cord in the bias strip, raw edges even. Lower presser bar. Stitch close to the cord, using a stitch length slightly longer than for seaming the weight of fabric being used. Do not crowd the stitching against the cord.



#### CORDED SEAMS

Selector: AK

Red Lever: 3

Throat plate: General purpose or

Straight stitch

Zipper foot

The corded seam is a typical treatment for slip covers, children's clothes, blouses and lingerie.

When cording 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.

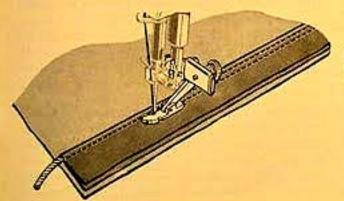
Set Selector and Red Lever. Attach the corded welting to the right side of a single seam edge, with the same stitch length used to make the welting (page 76). Guide the edge of the foot next to the cord, but do not crowd.

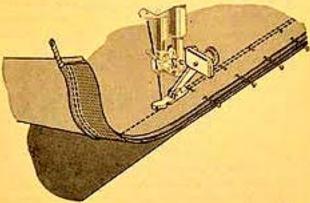
Place the attached corded welting over the second seam edge, and pin or baste together.

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

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 FOOT HEMMER



The narrow hemmer forms and stitches a perfectly turned hem without basting or pressing. It is attached to the machine in place of the regular presser foot.

#### APPLICATIONS

Fine hems Edging ruffles Sheer seams Hemming with lace Lace insertion Lingerie finishes

Selector: AK Red Lever: 3

Throat plate: General purpose

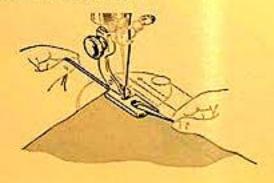
Foot Hemmer

#### HEMMING

Set Selector and Red Lever. At the very edge of the fabric form a double "s" fold. Crease this fold for about 2". Draw the bobbin and needle threads under the hemmer. Place the fabric under the foot and stitch through the creased fold for several stitches. Hold the thread ends in the left hand and guide the raw 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.



## HEMMING WITH LACE

Selector: BL Red Lever: 3

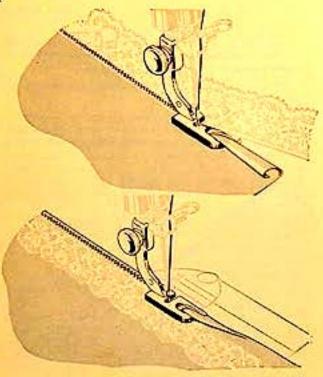
Throat plate: General purpose

Foot Hemmer

Most of the popular kinds of lace edging and insertion can be applied with the Foot Hemmer. It is an excellent way to trim children's clothes and to finish lingerie hems.

Lace Applied Over Hem. Fold and start the hem in the usual way. Starting about 1° down from the end of the lace, place the selvage 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 the material.



#### DECORATIVE HEMS

Selector: All settings

Throat plate: General purpose

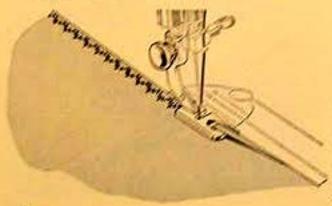
Read Largery 2 three 5

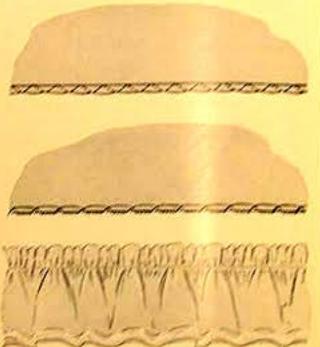
Foot Hemmer

Narrow hem edges can be turned and decorated in one operation using the foot hemmer and a stitch pattern.

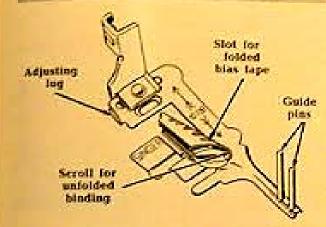
This time-saving finish is especially suited to ruffle edges and aprons.

Lingerie and most delicate fabrics can be affrectively finished with a shoft shell adge. This effect is obtained by hemming with Selector set at BO or BO and Red Lawre at 6.





#### MULTI-SLOTTED BINDER



The multi-slotted binder is used to apply comzerrial binding as well as self fabric bias to an unfinished edge.

This colourful trim is attractive when applied to children's wear, aprons and fabric furnishings. It is a practical finish for seam edges that ravel and for making bound seams.

The attachment will accommodate both straight and zigzag stitching.

Selector: All settings

Red Lever: 2 torn 5

Throat plate: General purpose

Multi-slotted binder

Cut binding diagonally to form a long point. Commercial binding is inserted from the right into the appropriate slot in the scroll. Unfolded bias 17/4 of an inch wide is inserted into the opening at the end of the scroll.

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

Set Selector and Red Lavor for either straight or zigzag stitching.

Insert the edge 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 attachment to the right or left by means of the adjusting log.

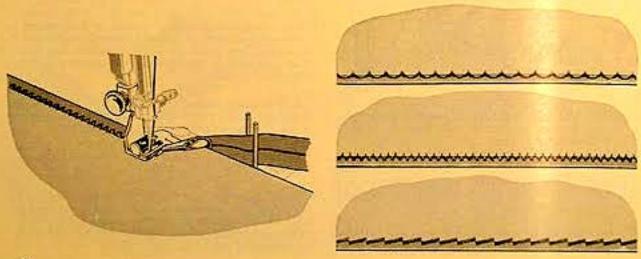
#### MULTI-SLOTTED BINDER

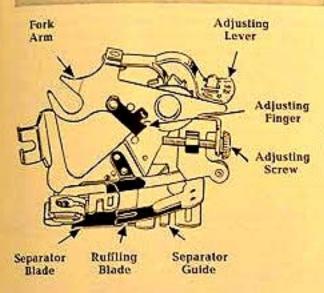
Lower the presser bar. Allow the attachment to do the work, merely guiding the fabric into the centre of the scroll as you stitch.

Curved edges require slightly different fabric handling than straight edges.

Inside curves are straightened as they are fed into the binder. If the fabric is soft and has a tendency to stretch, reinforce the edge with a single row of stitching before binding.

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.





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. Selector: AK Red Lever: 3

Throat plate: Straight stitch

Ruffler

Adjusting Points. 1. The adjusting lever sets the rufiler 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 either 6 or 12 stitches apart. The star is for straight stitching, and is used when grouping gathers or pleats.

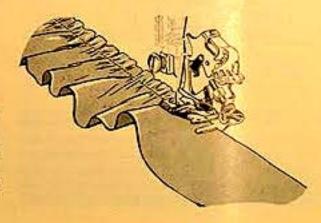
- The adjusting finger is used only for pleating and affects the width of the pleat. It is thrown out of action by bringing it out of contact with the adjusting screw.
- 3. The adjusting screw regulates the fullness of gathers or pleats. When turned in to its limit with the adjusting finger in place,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

Activating Parts. 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.

Gathering. Set the adjusting lever of the attachment on Number 1 setting, and throw the adjusting finger out of action. Turn the adjusting screw for the amount of fullness desired and set the stitch length to space the fullness. The attachment is adjusted for maximum fullness by turning the adjusting screw all the way in; for less fullness turn it outward.

Preparation. Raise the needle to its highest point.

Locate the attachment on the machine in place of the regular presser foot, at the same time fit the fork arm over the needle clamp screw. Make sure both the presser bar screw and the needle clamp screw are tightened securely.



The length of the sewing machine stitch 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 the ruffle more full, lengthening the stitch (few stitches to the inch) makes it less full. For fine, closely spaced gathering use a short stitch and an outward adjustment of the adjusting screw. For deeper, less closely spaced gathering, turn the adjusting screw inward and use a medium length stitch.



Insert the material to be gathered between the blue blades and through the first separator guide. Draw to the back of the needle. Lower the presser bar and stitch. The texture of the fabric influences the performance of the ruffler as well as the results. Soft fabrics, cut on the crosswise grain, are best adapted for gathered ruffles. Always test stitch length and ruffler setting on a scrap of self fabric before proceeding with the actual work.

Attaching Ruitle. To form and attach a ruffle in one operation, place the ruffle strip between the two blue blades and through the first separator guide, and the material to which it is to be attached



between the separator blade and the feed of the machine. Proceed as for plain gathering. Right sides of the fabric are placed together when the seam is to fall to the inside.



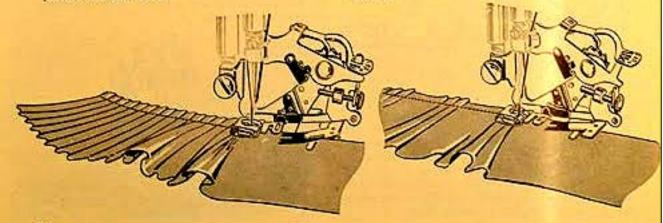
Pleating. Move the adjusting lever of the ruffler to the space setting desired for pleats either 6 or 12 stitches apart.

For the deepest pleat, activate the adjusting finger and turn the adjusting screw inward to its maximum setting. For smaller pleats turn the 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 the fabric to be pleated between the blue blades and into the first separator guide. Lower presser bar 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 the 6 or 12 stitch setting, pleats are formed in groups. Even spacing between groups is accomplished by counting the number of stitches.



Selector: AK Red Lever: 3

Throat plate: Straight stitch (Raised)

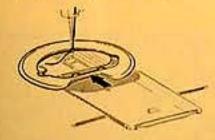
With embroidery hoop guide

Presser foot: None Stitch length: Finest

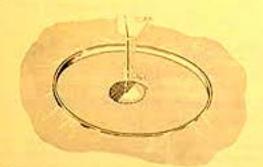
Household linens, children's clothes and knit wear of all kinds can be repaired with the darning stitch.

Trim away ragged edges from area to be darned. Centre worn section in embroidery hoops.

## Attaching Embroidery Hoop Guide -



Raise throat plate and open slide plate. Position hoop guide over throat plate as shown. Slide hoop guide into place and close slide plate.



Position work under needle and lower presser bar. Hold needle thread loosely with left hand, turn hand wheel over and draw bobbin thread up through fabric with loop of needle thread. Hold both thread ends and lower needle into fabric.

Outline opening with running stitches "4" from edge for reinforcement.

Stitch across opening, moving hoops under needle at a slight angle, from lower left to upper right. Keep lines of stitching closely and evenly spaced.

Run machine at a moderate speed and control hoops with a steady movement. Slow movement of hoops produces a short stitch; more rapid movement lengthens the stitch. Longer stitches are best for knit and tricot labrics as they are softer and more flexible when garment is worn. Short stitches are best for cottons and linens as they approximate weave of fabric and will withstand many launderings.

#### FREE MOTION WORK

Selector: BL Red Lever: 2-5

Throat plate: General purpose (Raised)

With embroidery hoop guide

Presser Foot: None Stitch length: Finest

Script monograms, satin stitched scallops and embroidery can be effectively accomplished with the zigzag stitch when the free motion principle is employed.

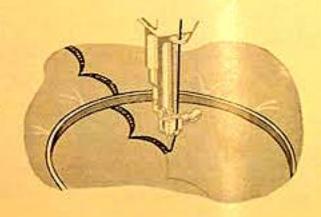
Trace or mark the design on the right side of the fabric. Place the work in embroidery hoops, keeping the fabric taut.

Remove the presser foot and raise the throat plate. Set Selector at BL and Red Lever at desired setting.

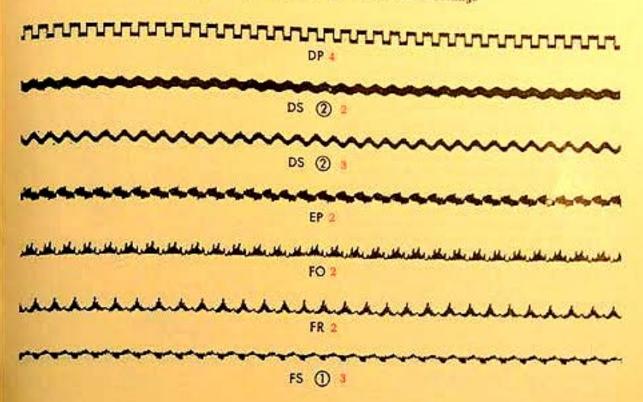
Position the work under the needle and lower the presser bar to activate the tension. Bring the bobbin thread up through the fabric, Hold both thread ends and start stitching after positioning needle in fabric.

Move the hoops slowly following the outline of the design. Maintain an even rate of speed so that the stitches are uniformly placed. Shading the stitches from wide to narrow is controlled by the angle at which the work is placed and moved under the needle. When scalloping is used as an edge finish, allow sufficient margin of fabric beyond the desired edge to fit the hoop. To maintain parallel stitches, scallops are followed without turning, the work remaining in line with the feed at all times. The points of the scallops are formed by lightly moving the work to the right or left, automatically producing the effect of a narrower stitch.

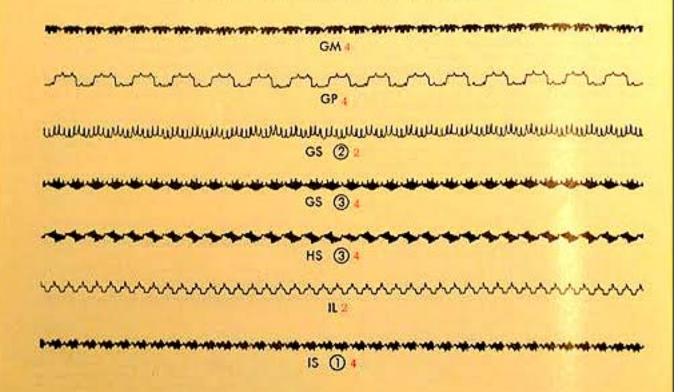
Some fabrics may require the addition of an underlay of crisp muslin or organdy. The darning and embroidery foot (available separately) will also contribute to the smooth handling of difficult materials as it provides a close control of both stitch and fabric.



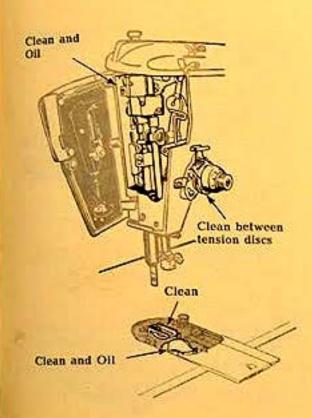
# DECORATIVE STITCH PATTERNS Examples of Stitch Patterns and their Selector Seltings



## DECORATIVE STITCH PATTERNS Examples of Stitch Patterns and their Selector Settings



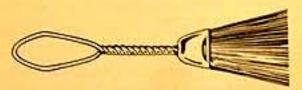
## TO CLEAN THE MACHINE



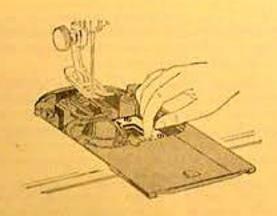
Your sewing machine was built to exacting standards of precision and workmanship. Its performance depends on the care and treatment it receives when in use and before storing it away.

When in regular use the machine should be cleaned periodically to remove the lint and fluff which may have accumulated around the working parts. To clean the bobbin case area, see instructions for removing and replacing bobbin case on pages 92 and 93. Oil the machine after each cleaning as instructed on pages 94, 95 and 96.

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 the machine against rust damage. The areas that should be cleaned and covered with a protective coat of oil are shown in the illustration at the left.

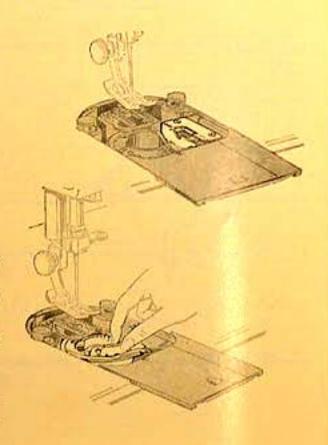


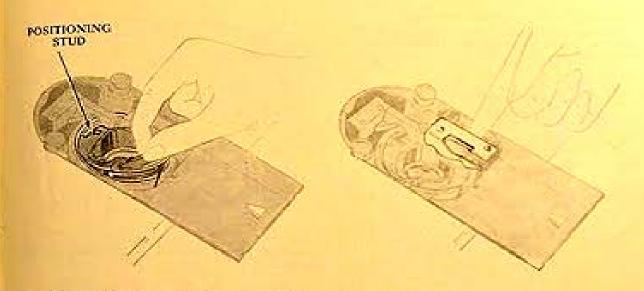
#### TO REMOVE AND REPLACE BOBBIN CASE



To clean hook raceway, remove bobbin case as follows:

- Remove throat plate (see page 21) and open slide plate (see page 14).
- Unlock bobbin case by lifting and pulling holder to right as shown.
  - 3. Remove bobbin case from machine.
- Remove all lint, fluff, loose thread ends or any other foreign matter which might clog the machine.



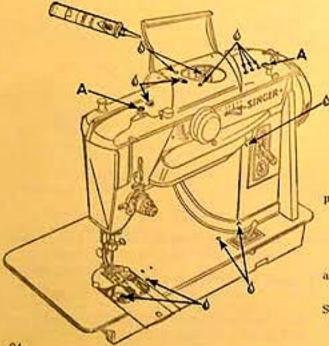


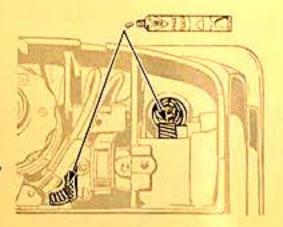
- 5 Replace bobbin case so that groove under tension spring fits on hook raceway and took of case straddles positioning stud.
- 6. Push bobbin case holder to left as shown until it snaps down into lock position.
- 7. Close bed slide and replace throat plate.

#### TO LUBRICATE THE MACHINE

#### Use SINGER Oil and SINGER Lubricant!

Both are extra quality products especially prepared for sewing machines, and should always be used in the care of your 411.





Clean the machine periodically as instructed on page 91.

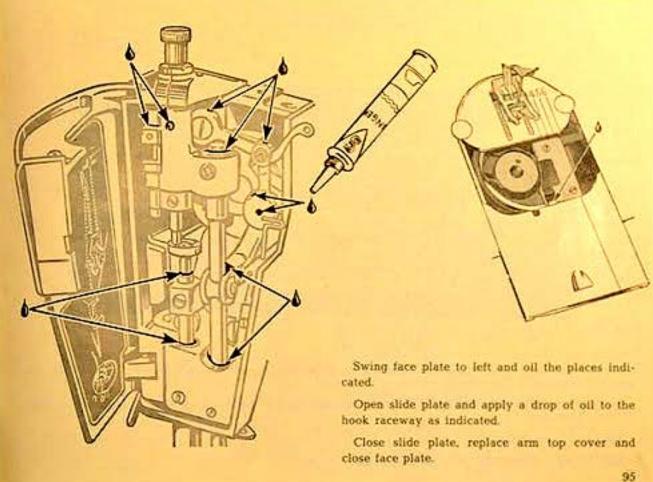
Apply a drop of oil to each place indicated,

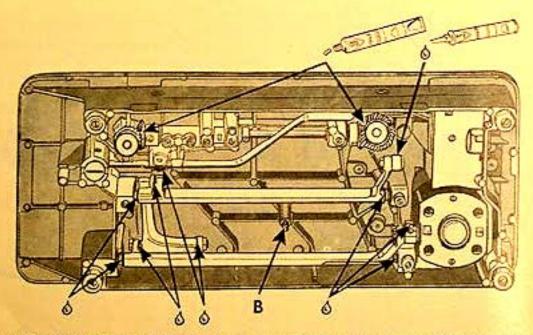
Remove screws A and lift off arm top cover.

Apply a small amount of lubricant to the gears as shown.

A tube of this lubricant can be purchased at your Singer Sewing Centre.

Never apply Oil to these gears.





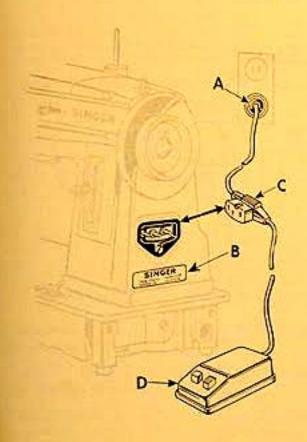
Tilt machine back and remove thumb nut from screw B, being careful not to lose felt washer, and semove cover from underside of machine.

Oil each of places indicated by arrows and occasionally apply a small quantity of lubricant to teeth of gears as shown.

Replace bottom cover.

THE MOTOR REQUIRES NO LUBRICATION.

## ELECTRICAL INFORMATION



The SINGER® Electric Motor in the electric machine is furnished for operation on an alternating or direct current. Orders must state the catalogue number of the motor, or the voltage, and in the case of alternating current, the number of cyclos.

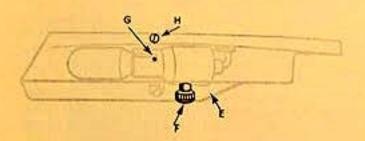
Before Inserting Electric Plug A, he sure that voltage and cycles stamped on electrical nameplate B are within range marked on your electric meter installed by your power company.

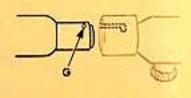
Electrical Connections for Machine. Push 3-pin terminal plug C on 3-pin terminal block at right of machine and connect plug A at other end of cord to electric outlet.

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

#### SINGER \* LIGHT

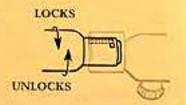
The light is turned "on" or "off" by the switch F.





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

To Replace 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 position. Replace lamp cover E and securely fasten it in position with screw H.

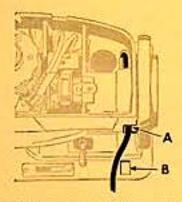


## TREADLE INFORMATION

## To Replace Belt

Remove arm top cover as instructed on page 94.

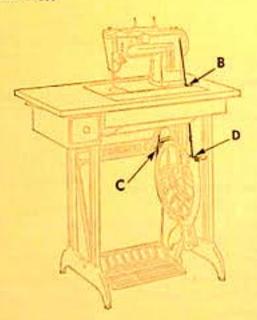
Remove belt guard by removing screw at top of quard.



Insert end of belt into cutout A so that it enters groove in hand wheel.

Lead belt around hand wheel and down through hole provided in machine casting, as shown.

Insert opposite end of belt into cutout B in bed of machine.



Lead belt through guide C, around band wheel and into eye of belt shifter D.

Join both ends of belt, (Tension on belt should be only heavy enough to keep belt from slipping.)

Replace arm to cover and belt guard.

Operate treadle as instructed on pages 8 and 9.

## INDEX

						Page	Page
Applique		*	100	1	¥	5556	Combination Patterns and Variations
Attachments							Illustrations
Foot Hemmer	\$		3	*	+	7880	Corded Applique
Multi-Slotted Binder .	83	100	(80)	89		81-82	Corded Buttonholes
Ruffler	9					83-86	Cording
Basting		*11		- 8	1	22-27	Seams
Binding						81-82	Welting
Blanket Binding, Replacing						66	Couching
Blind Stitching							Darning
Hems				411		71	Darts
Zipper Insertion						75	Interfacing
Bobbin							Single Thread
Case Threading	8	8	5	8		15	Decorative Hems 80
Preparation for Stitching						30	Decorative Stitch Patterns
Removing		100	+-:	100		14	Designs and Motifs
Thread Tension	i.	10	100			36	Elastic
Winding	e0.2	+11	500	400	100	11-13	Applied Band 67
Buttonholes	2		10	20		51-54	Girdle Repair
Corded		1	20	1		54	Electrical Information 97-98
Button Sewing						60-61	Motor
Chain Stitching		.8				22-27	SINGER Light
Cleaning						91-93	Embroidery: Free Motion 88
100							

						Page	was a
Fabrics, Guiding and St	uppo	rtin	g.	19		33	Length of Start, Paraday
Features						3	Length of Stitch, Regulating 17
Principal Parts .			4	1/4	14	16	Light Bulb, Replacement 98
Filler Cord, Threading		i i	- 22	1	4	54	Lubricating
Finishes, Seam	6 3	6.3	120	1	1	64	Mending 67
Foot Hemmer			- 2			7880	Monograms and Motifs 57
Decorative Hems .		8	- 6	1	4	80	Free Motion
Hemming with Lace	6 3	0.39	18	- 6		79	Motor
Free Motion Work .						87-88	Multi-Slotted Binder 81—82
Darning		1	1	74	1	87	Needle terres
Embroidery		. 8		1		88	
Monograms				×		88	Needle Positions 29 and 44
Satin Stitch Scallops			1			88	Needle and Thread Selection 5
Gathering			- 4			8485	Needle Thread Tension
General Purpose Foot,	Appl	icat	ions		27.40	62-68	Satin Stitching
Guiding and Supporting	Fal	bric				33	Straight Stitching
Hemming with Lace		٠.	- 1			79	Needle Threading
Hems							Single 10
Blind stitched		10	95	100	100	71	
Decorative				1		80	
Interfacing Darts .						66	Oiling 94—96
Knit Fabric Seams .			1.0			63	Overcasting 64
Lace					2.5	57775	Pleating
Applique				- 14	130	56	Prepare to Sew
Edging and Insertion							Pressure Adjustments
	3	1 10	9.6	15	370		101

						Page							Fage
Primary Patterns		43	60		33	40-44	Seam Guide	90	10	(6)	M	99	69 - 71
Needle Positions							Blind Stitched Hems .	JE.			00		71
Red Lever		8		T.	100	43	Seams	10		8			69 - 70
Special Discs	4 1		- 83			41-42	Top Stitching						
Principal Parts of Machi						16	Seams						
Red Lever							Corded	52	183	4			77
Combinations and Va	riation	111	20			45	Curved						70
Control of Width .						43	Flat Felled						6.3
Operation						18	THE RESERVE AND ADDRESS OF THE PARTY OF THE						0.3
Removal and Replaceme						14-15	Knit Fabric						62
Removal and Replaceme						42	Lingerie						80
Rent or Tear Mending						67	Sheer Pabrica						
Reverse Stitching	V - AV	8.1	- 70	4	10		Straight						.00
Application					4	31-32	Supporting and Guidin						011
Regulation						17	Selector: Operation .						
Ruffler						83-86	Sheer Fabric Seams		- 4	1	114		.56
Attaching Ruffle					- 9	85	SINGER Service	0.8	13	35	112		
Gathering						84-85	Single Thread Darts .	1/4	14	6	100		165
Pleating						86	Special Discs						
Satin Stitching	150	le.	3	88	- 8	- 50	Primary Patterns	-			34		4
THE RESIDENCE OF THE PROPERTY						38	Removal and Replaces						
Stitch Length Adjustn		150			-0	700	Special Purpose Foot, A						
Tension Adjustment		1			- 33	39	TO 10	Marie		MOX.	n.e.		COM COM
Scalloping					. 90	68	Stitch Length						- 1
Free Motion	8	183	1	191	183	88	Regulator						
Seam Finishes	0. 8			4	- 4	64	Satin Stitch Adjustmen	18.	280		0		3
102													

		Page		
seach Patterns			Ton Superior	Page
Combinations and Variations	1277	144	Top Statching Treadle Information	70
mostrations	1100	1000	A SHARING A CONTROL OF THE STATE OF THE STAT	
Special Discs		41		170
ente Pattern Selector, Operation .	- 64	19		46-49
Straight Stitching		0.4400	Insertion Primary Patterns	46
Equipment and Settings	477.0	28-29	Straight Stitching	-89
Seimh	1416	31-32	Threading	40
secondary Positions	100	29		47
Two Needles	We	48	Variation and Combination Patterns	45
Yest of Real Mending		67	NAME OF TAXABLE PARTY O	8990
Tension Adjustments	10000	100000		76
Bobbin Thread		-36	Zigzeg Statching	11-13
Needle Thread		35	The Contract of the Contract o	262
Satin Stitching	816	39	Combinations and Variations  Byuipment	45
Datading		30	Needle Positions	37
PRODUCTION OF THE PROPERTY OF		2353		44
	466	54	Primary Patterns	40
AND DESCRIPTION OF THE PARTY OF		0.000	Red Levet: Coatrol of Widths	43
Sagle Needle	533.8	10	Special Discs	41-42
Two Needles	30700	47	Sritch Length Adjustment	38
Throat Plate			Tension Adjustment	35
Changing ,	100.0	21	Two Needles	49
Positions	93000	20	Zepper Foot	
Straight Stitch	43-4	28	Welting and Corded Seams	76—77
Zignag Stitch	30,00	37	Zipper Insertion	73-75
				100

## To all whom it may concern:

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

## For your protection

SINGER Sewing Machines are sold and serviced wherever you see the famous SINGER and Red "S" Trademarks. When your machine needs servicing call your SINGER SEWING CENTRE to be sure of warranted SINGER parts and service. See address in the telephone directory.