

**SINGER<sup>★</sup>**

**9224 9217**



# IMPORTANT SAFETY INSTRUCTIONS

When using this machine, basic safety precautions should always be followed including the following:

Read all instructions before using this machine.

## DANGER.

To reduce the risk of electric shock:

- The machine should never be left unattended when plugged in. Always unplug the machine from the electric outlet immediately after using and before cleaning.
- Always unplug before changing light bulb. Replace bulb with the same type rated 12 volts, 5 watts. Be sure to replace the face plate which covers the light bulb before operating the machine.

## WARNING.

To reduce the risk of burns, fire, electric shock or injury to persons:

- Be sure that the electrical voltage of the socket outlet (wall receptacle) is the same as the rated voltage of the motor.
- Use this machine only for its intended use as described in this Operator's Guide. Use only attachments recommended by the manufacturer as contained in the Operator's Guide.
- To disconnect, turn all controls to the off ("O") position, then remove plug from outlet.
- Disconnect the power-line plug from the socket outlet or switch the machine off when making any adjustments in the needle area, such as threading needle, changing needle, changing needle plate or changing presser foot, etc.
- Always unplug the machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the Operator's Guide.
- Do not attempt to adjust the motor belt. Contact your nearest Service Center should any adjustment be required.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Handle the foot controller with care and avoid dropping it on the floor. Be sure not to place anything on top of it.
- Always use the proper needle plate. The wrong plate can cause the needle to break.
- Do not use bent needles.
- When sewing, keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- Do not pull or push fabric while stitching. This may deflect the needle causing it to break.
- Before removing the bobbin case, remove plug from the socket outlet.
- For double insulated machines, when servicing, use only identical Singer replacement parts. See instructions for Servicing of Double-insulated Appliances.

- Never operate the machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the machine to the nearest authorized dealer or Service Center for examination, repair, electrical, or mechanical adjustment.
- Never operate the machine with any air openings blocked. Keep ventilation openings of the machine and foot controller free from the accumulation of lint, dust, and loose cloth.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- Do not allow to be used as a toy. Close attention is necessary when the machine is used by or near children.
- **SERVICING OF DOUBLE-INSULATED PRODUCTS:** In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing of a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product. A double-insulated product is marked with the words "DOUBLE-INSULATION" or "DOUBLE INSULATED".

## SAVE THESE INSTRUCTIONS

Servicing should be performed by an authorized service representative.

**This product is intended for household use.**

FOR EUROPEAN AND SIMILAR TERRITORIES:

This product is suppressed for radio and television interference with the international Electrotechnical Commission requirements of the CISPR.

Machine for Great Britain and some other countries having similar wiring standards are shipped from the factory with a plug for connection to the mains. The wires in this mains lead are coloured in accordance with the following code:

Blue:neutral (N)    Brown:live (L)

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. If a 13 Amp. (BS 1363) plug is used, a 3 Amp. fuse must be fitted, or if any other type of plug is used, a 5 Amp. fuse must be fitted either in the plug or adaptor or at the distribution board. Neither cord is to be connected to the earth terminal of a three-pin plug.

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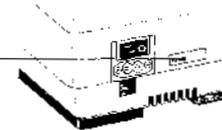
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Dear Customer:

We recommend that for future reference you record the Serial Number of your Sewing Machine in the space provided.

Refer to illustration  
at right for location  
of Serial Number on  
your machine.

Serial No. \_\_\_\_\_

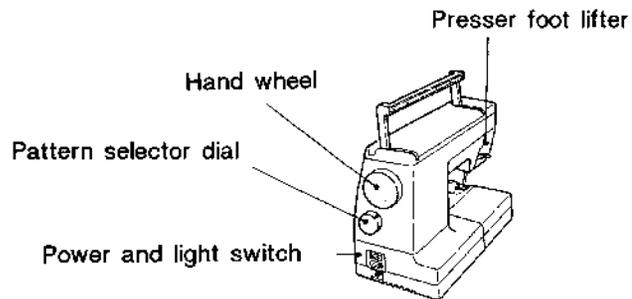
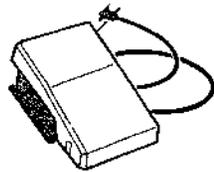
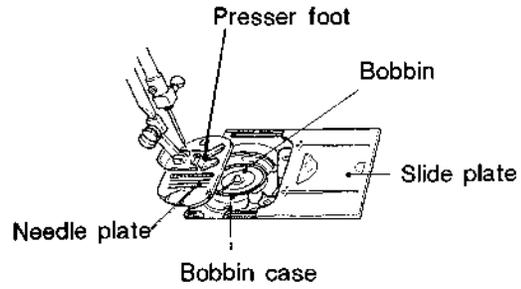


Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

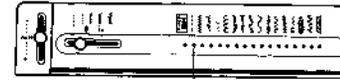
To ensure that you are always provided with the most modern sewing capabilities, the manufacturer reserves the right to change the appearance, design or accessories of this sewing machine when considered necessary.

SINGER CUSTOMER ASSISTANCE IN THE U.S.A.  
TOLL-FREE NUMBER: 1-800-877-7762

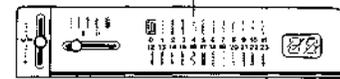
**PRINCIPAL PARTS**



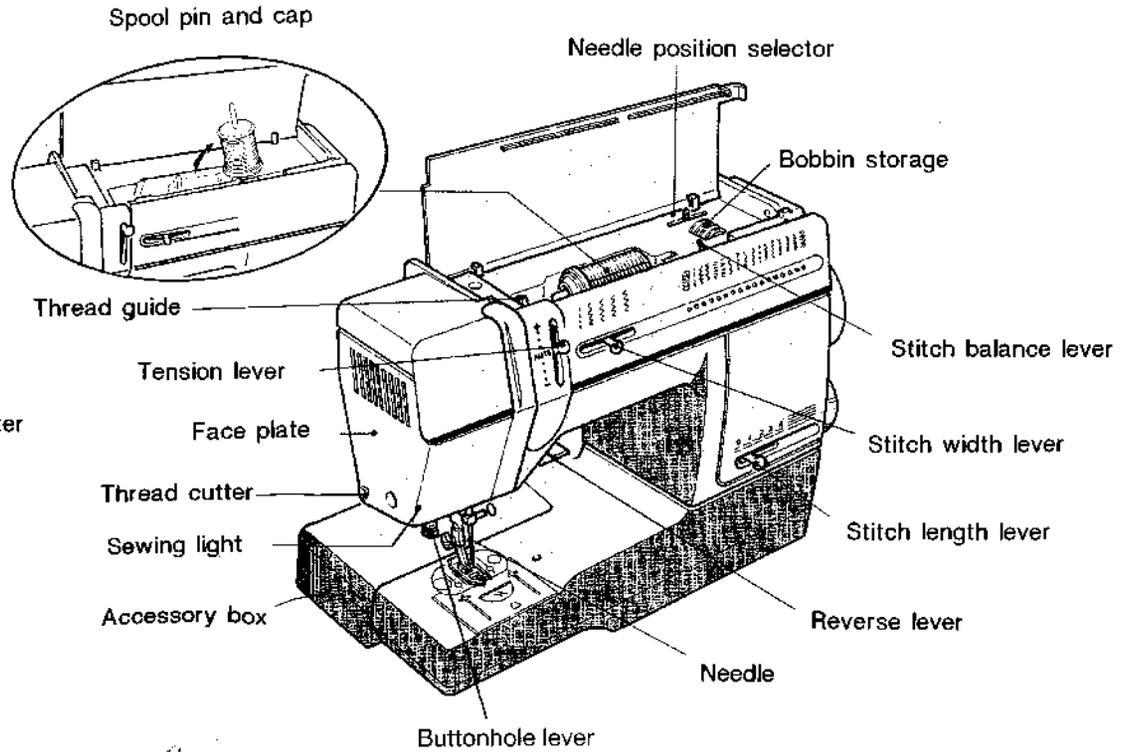
17 Patterns



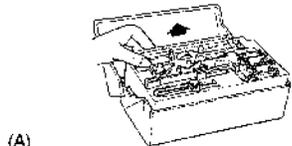
24 Patterns



Pattern display



**ACCESSORIES INCLUDED WITH MACHINE**



(A) General purpose  
needle plate  
(on machine)  
#312777

(D) Straight stitch presser foot  
#353628

(G) Darning and embroidery foot  
#384037

(K) Blindstitch presser foot  
#381491

(P) Needle threader  
#503277

Lint brush  
#546358

(B) General purpose  
presser foot  
(on machine)  
#313150

(E) Zipper foot  
#171480

(H) Button sewing foot  
#381066

(L) One-step buttonhole foot  
#313093

(Q) Small spool cap  
#507664

Bobbins  
(1 in machine)  
#312956

(C) Straight stitch needle plate  
#313066

(F) Feed cover  
#313117

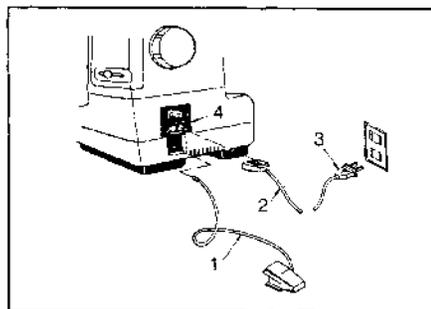
(J) Special purpose  
presser foot  
#171463

(N) Seam guide  
#161172

Spool cap  
(on machine)  
#179967

Needle pack

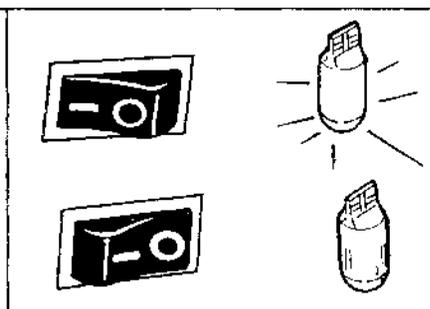
CONNECTING-



Push speed controller tube (1) and electrical power cord (2) into receptacle (4).

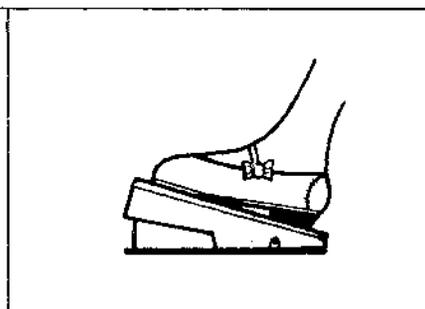
Plug power cord (3) into electric outlet.

RUNNING-

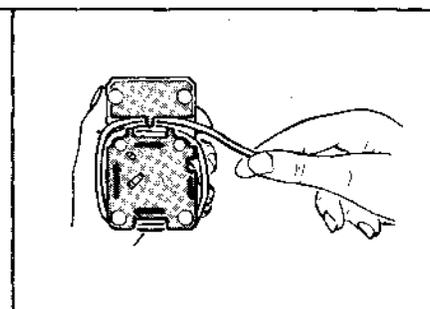


Power on - press "I" side of switch.

Power off - press "O" side.



Press speed controller to run machine.



When not using machine, rewind air hose around speed controller for storage, as shown.

Note:

To simplify understanding, the following symbols are used throughout the operator's manual.



Lower presser foot.



Turn power off.



Press speed controller.



Raise presser foot.



Use hand wheel to raise needle.

# THREADING MACHINE



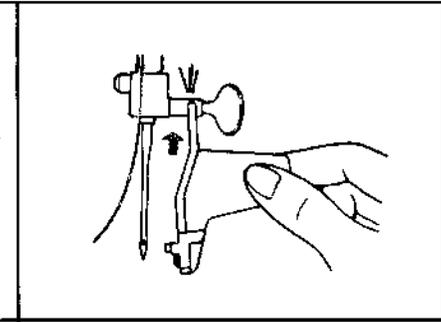
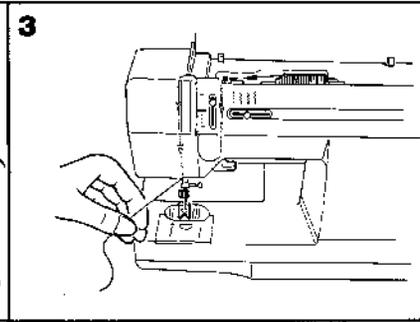
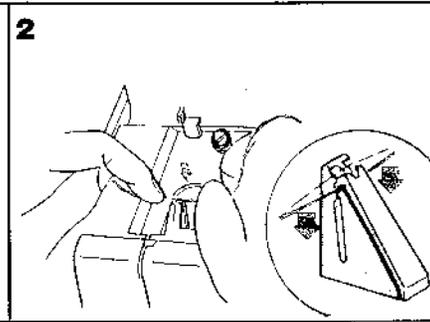
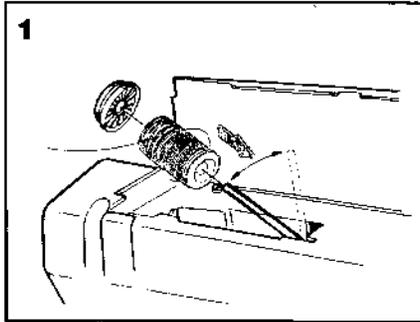
## 4 USING NEEDLE THREADER

Place thread and cap onto spool pin.

Snap thread into Thread guide.

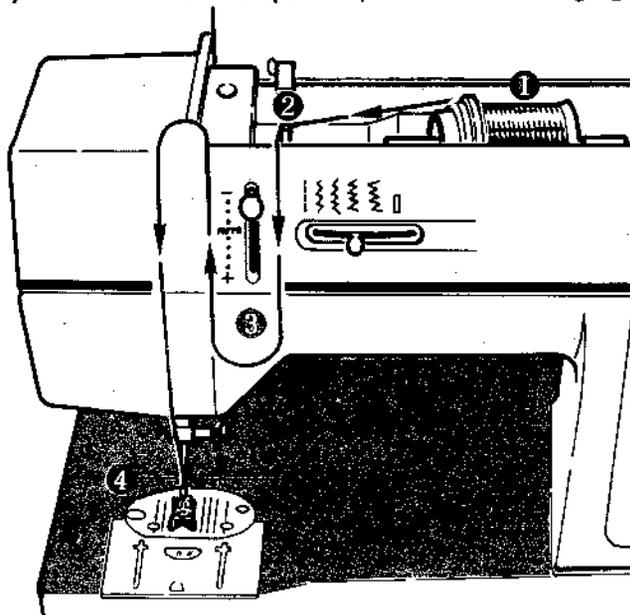
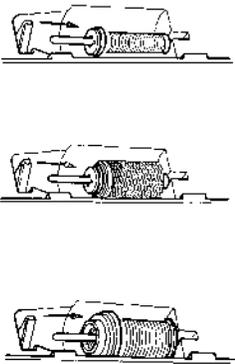
Following arrows, guide thread down to needle.

Snap threader up onto bar.



Slide spool cap firmly over the rim of the spool to prevent thread tangling.

For best sewing performance use proper spool cap.



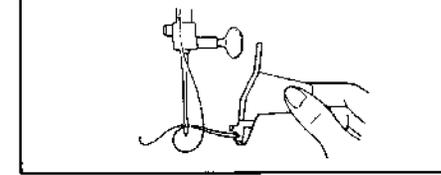
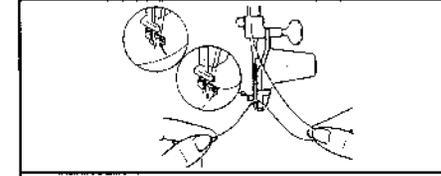
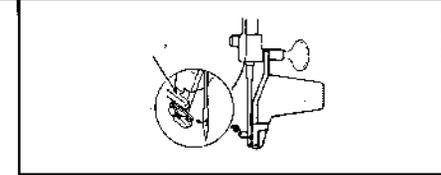
Slide threader as far to the left as it will go.

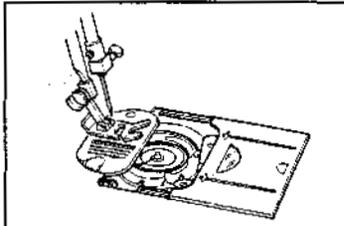
Be sure guide (1) is against the left side of needle.

Bring metal hook of threader forward, through eye of needle.

Guide thread into metal hook.

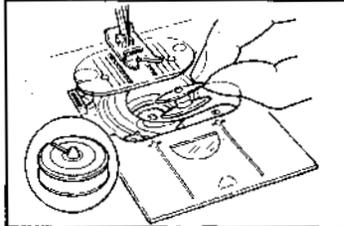
Draw metal hook and thread backwards.  
Slide threader to the right to remove.



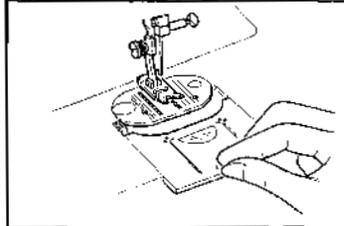


Move stitch width lever to straight stitch position (1).

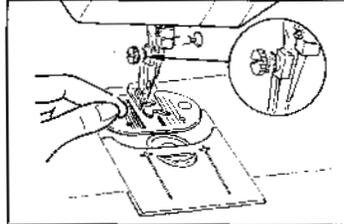
Open slide plate.



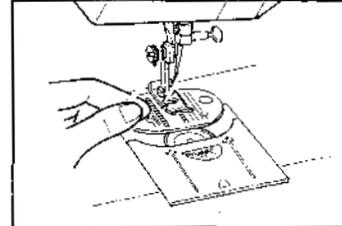
Put an empty bobbin, with rings (1) facing up, into bobbin case.



Close slide plate until it stops against button (2).

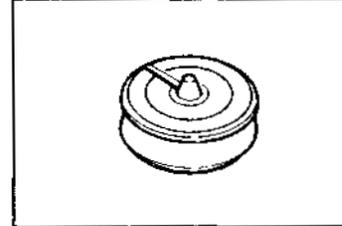


Bring needle thread under presser foot and wind it around presser foot screw (3) one time.



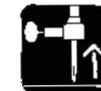
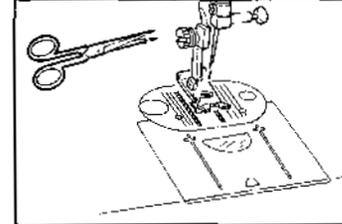
Hold thread and run machine at a moderate speed.

Watch bobbin winding from the window (4) in slide plate.



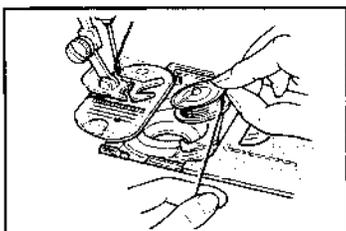
Remove thread from presser foot screw.

Push button (2) down to close slide plate.



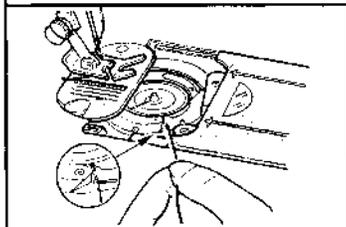
Cut thread.

## INSERTING PREVIOUSLY WOUND BOBBIN

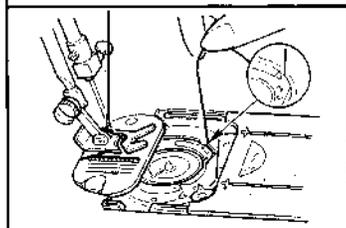


Open slide plate.

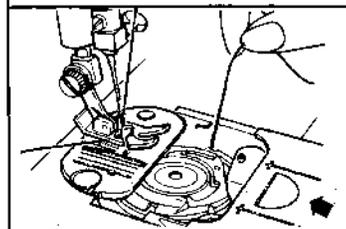
Insert bobbin into bobbin case.



Guide thread into notch (1).

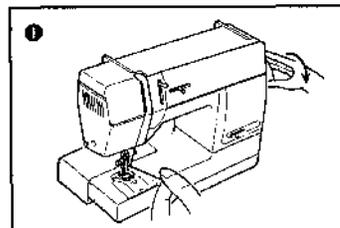


Bring thread around and past point (2).



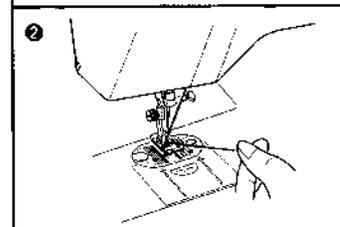
Hold thread and close slide plate.

## RAISING BOBBIN THREAD

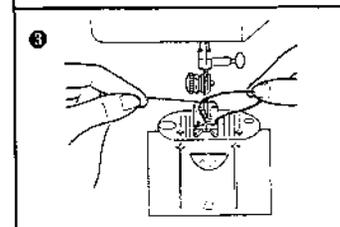


Hold needle thread.

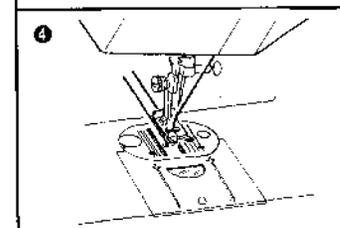
Turn hand wheel towards you lowering, then raising needle.



Gently pull needle thread to raise bobbin thread.

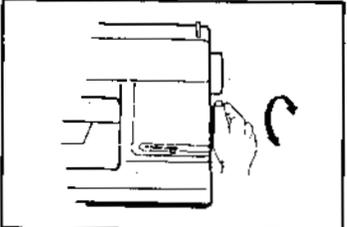


Open loop.



Pull both threads back.

**SELECTING A PATTERN**

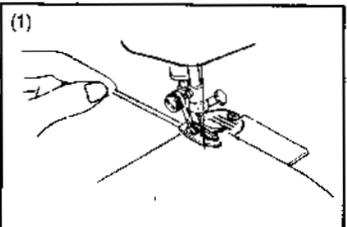


Turn pattern selector dial to select patterns.

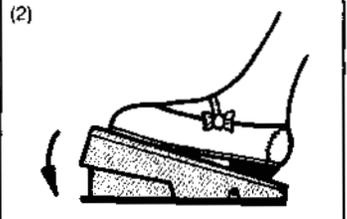
Note: Power must be on to see pattern selected.

**STRAIGHT STITCH**

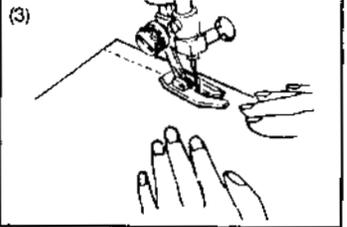
Preparation: Refer to "Recommended settings and applications" on page 10.



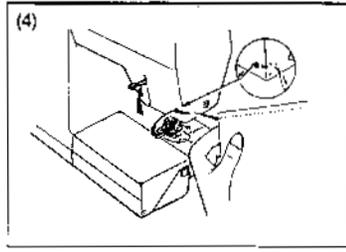
Place fabric under presser foot and lower foot.



Begin sewing.



Guide fabric.



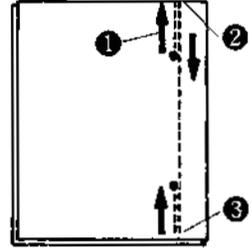
At end of seam.



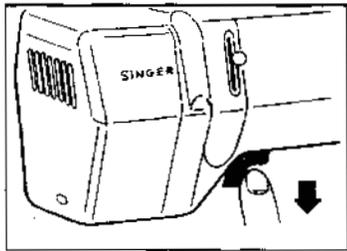
Cut thread.

Remove fabric.

**STITCHING IN REVERSE**

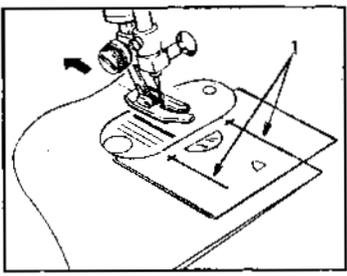


Secure beginning and end of seam as shown.



Press reverse lever for steps 1 and 3.

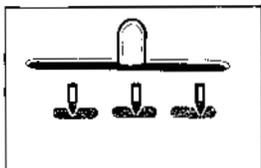
**KEEPING SEAMS STRAIGHT**



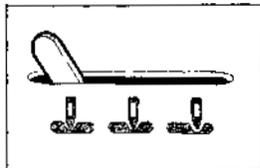
Line up fabric with guideline (1).

## ADJUSTING NEEDLE POSITION

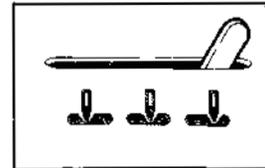
Note: needle position only works with straight stitch pattern. (---).



Center needle position.



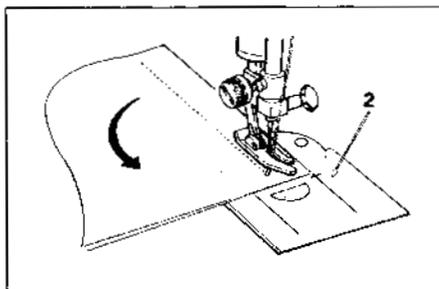
Left needle position.  
Use stitch width lever to position needle from center to full left position.



Right needle position.  
Use stitch width lever to position needle from center to full right position.

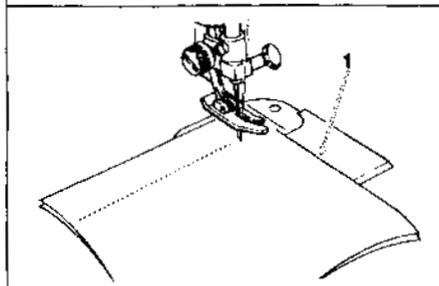
**Caution:** Sew only in center needle position when using straight stitch foot and needle plate.

## TURNING SQUARE CORNERS

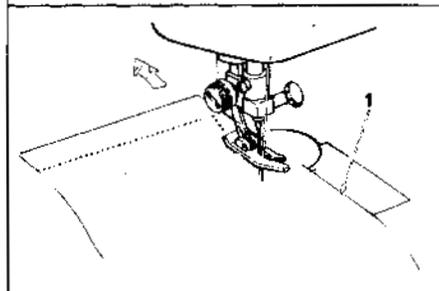


When bottom of fabric reaches crosslines (2), stop stitching.

Lower needle into fabric.



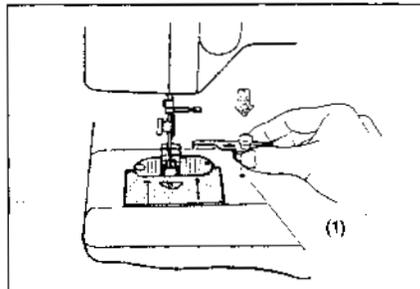
Turn fabric, bringing bottom edge in line with guideline (1).



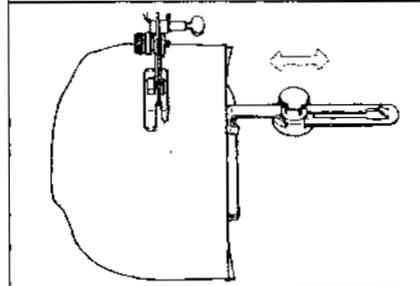
Continue stitching seam.



## USING THE SEAM GUIDE

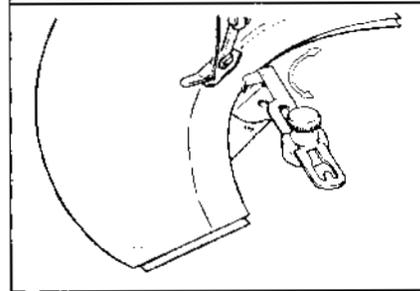


To attach seam guide, place screw of guide into hole (1).



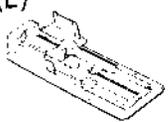
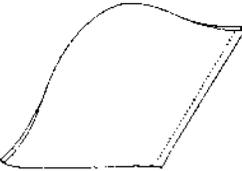
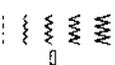
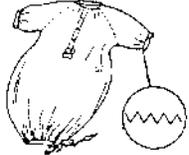
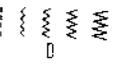
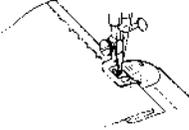
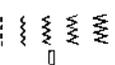
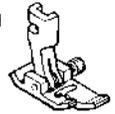
Position guide for desired seam allowance.

Hand tighten screw.

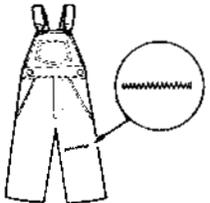
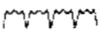
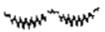
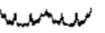
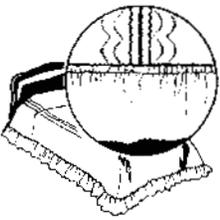
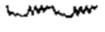


To sew curved seams, attach seam guide at an angle.

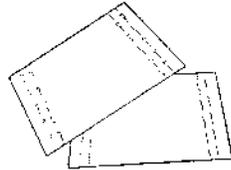
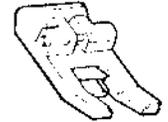
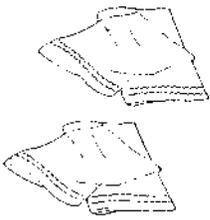
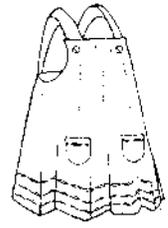
**RECOMMENDED SETTINGS AND APPLICATIONS**

PATTERN	17 pattern	24 pattern	APPLICATIONS	STITCH LENGTH	STITCH WIDTH	PRESSER FOOT	REQUIRES BALANCING
 Buttonhole-onestep	●	●	Automatically size and sew entire buttonhole in one operation. 	4		(L) 	Yes
 Straight stitch	●	●	Seaming, basting, darning and topstitching. 	1.5 to 4		(D)  or (B) 	No
 Zig-Zag	●	●	Overcasting, appliqueing, monogramming and button sewing. 	1 to 4		(B)  or (J) 	
 Zig-Zag Blindstitch	●	●	Hemming and attaching lace. 	2 to 4		(K) 	

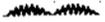
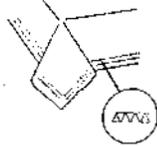
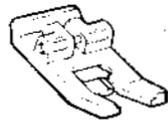
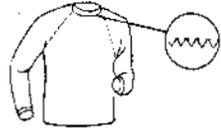
# RECOMMENDED SETTINGS AND APPLICATIONS

PATTERN	17 pattern	24 pattern	APPLICATIONS	STITCH LENGTH	STITCH WIDTH	PRESSER FOOT	REQUIRES BALANCING
 Multistitch	●	●	Hem finishing, bartacking and attaching elastic. 	1 or lower			
 "M" - stitch	●	●	Stretch seams, couching and shell tucks. 	2 or lower			
 Crescent	●	●				(J) 	No
 Chinese dynasty		●	Borders, edges, smocking and embroidering. 	1 or lower			
 Kite tail		●					

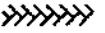
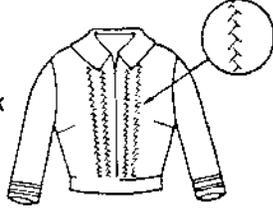
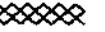
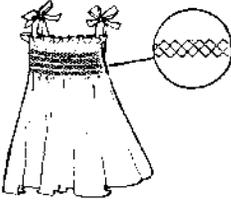
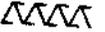
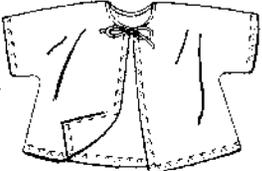
**RECOMMENDED SETTINGS AND APPLICATIONS**

PATTERN	17 pattern	24 pattern	APPLICATIONS	STITCH LENGTH	STITCH WIDTH	PRESSER FOOT	REQUIRES BALANCING
 Arrowhead	●	●	Decorative stitching, decorative bartacks and border design. 	1 or lower		(J) 	No
 Bunting		●					
 Domino	●	●	Decorative stitching. 				
 Flag		●					
 Satin Bead	●	●	Decorative stitches for borders and smocking. 				
 Boomerang		●					

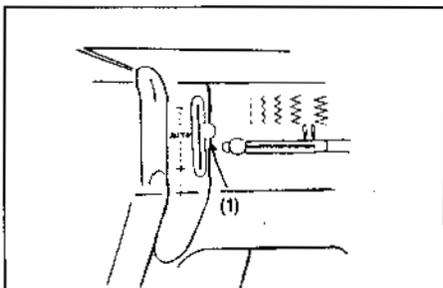
# RECOMMENDED SETTINGS AND APPLICATIONS

PATTERN	17 pattern	24 pattern	APPLICATIONS	STITCH LENGTH	STITCH WIDTH	PRESSER FOOT	REQUIRES BALANCING
 Lady bug		●	Borders, edges, smocking and embroidering. 	1 or lower			No
 Rampart stitch	●	●	Sewing over filler cord, narrow ribbon, elastic, yarn or thread. 				
 Turkish stitch	●	●	Appliqueing, joining patchwork, hemstitching and drawn-thread work on plain-weave fabric. 	4		(J) 	Yes
 Stretch overedge	●	●	Finishing and joining seams in one operation. 				
 Straight stretch	●	●	Stretchable straight seams in stretch fabrics. 				

**RECOMMENDED SETTINGS AND APPLICATIONS**

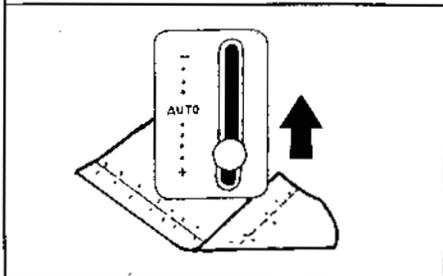
PATTERN	17 pattern	24 pattern	APPLICATIONS	STITCH LENGTH	STITCH WIDTH	PRESSER FOOT	REQUIRES BALANCING
 Ric-Rac	●	●	Heavy-duty, general purpose sewing and bold topstitching. 	4		(J) 	Yes
 Crown		●	Borders, embroidery and smocking. 				
 Feather	●	●	Fagoting, embroidery, patchwork quilting and lattice seams. 				
 Honeycomb	●	●	Smocking, mending, overedging attaching lingerie elastic, stretch lace and blanket binding. 				
 Straight feather	●	●	Appliqueing, fagoting and borders. 				

## ADJUSTING THREAD TENSION

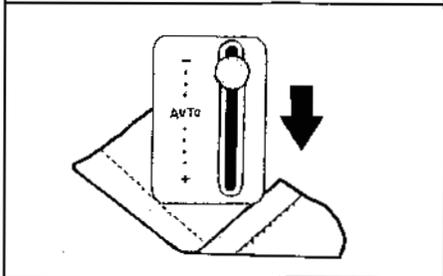


Move lever (1) up or down to adjust thread tension.

Auto position suits most sewing applications.

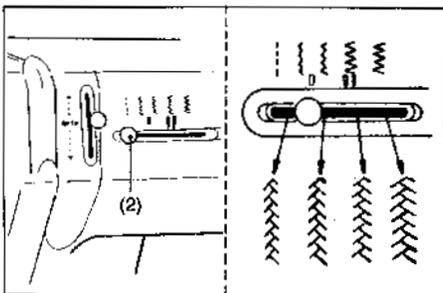


Too much tension -  
Move lever up.



Too little tension -  
Move lever down.

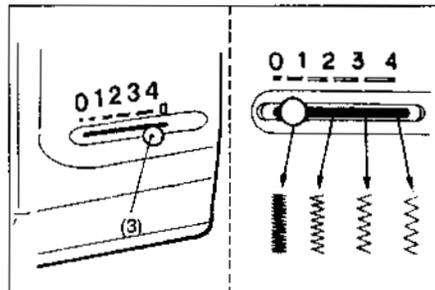
## ADJUSTING STITCH WIDTH



Move lever (2) to widen or narrow stitch.

When using twin-needle do not set width wider than twin-needle graphic. 

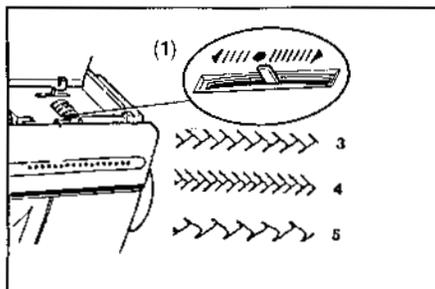
## ADJUSTING STITCH LENGTH



For more density (shorten stitch)  
move lever (3) to left.

For less density (longer stitch)  
move lever (3) to right.

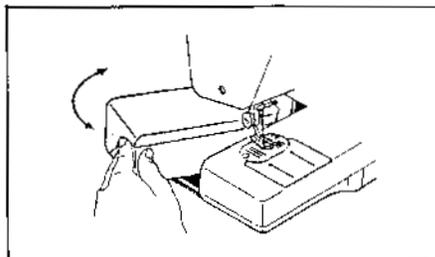
## BALANCING A PATTERN



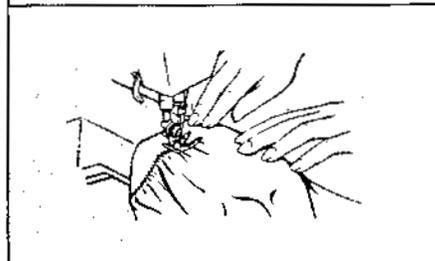
When stitches are too close (4) -  
move lever (1) to the left.

When stitches are too far apart  
(5) - move lever (1) to the right.

## FREE ARM SEWING

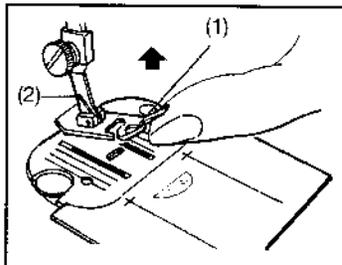


Swing accessory box to back of  
machine or remove by lifting.

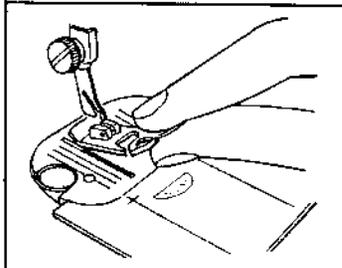


Topstitch edges on sleeves or  
finish waistband and pants legs.

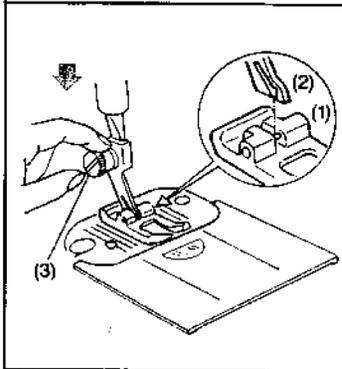
## CHANGING PRESSER FEET



Lift toe of presser foot (1) up, until it snaps off shank (2).



Take foot off machine.

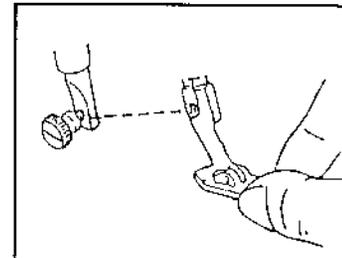


Center new presser foot (1) under shank (2).

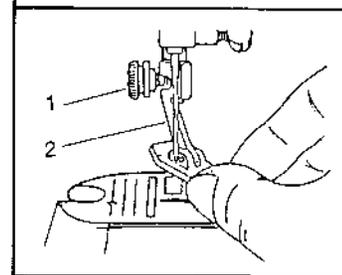
Lower presser foot lifter.

Press screw (3) down.

## REPLACING PRESSER FOOT WITH SHANK



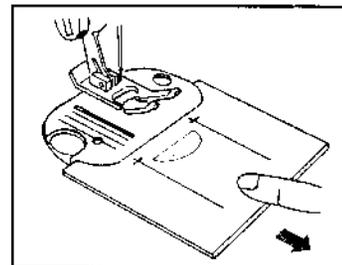
Loosen presser foot screw and remove foot.



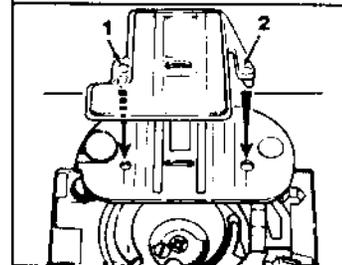
Hook new foot around presser bar.

Tighten screw.

## ATTACHING FEED COVER



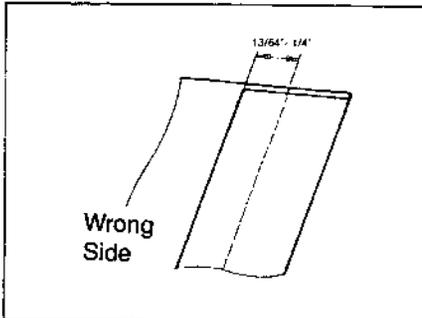
Open slide plate.



Press tab (1) and (2) into holes on needle plate.

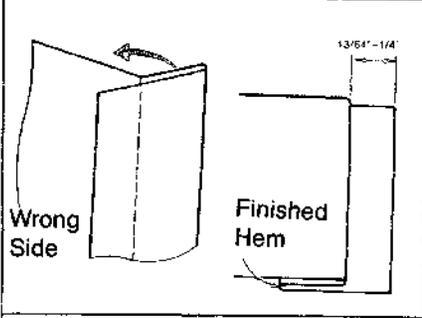
Close slide plate.

**HEMSTITCHING**

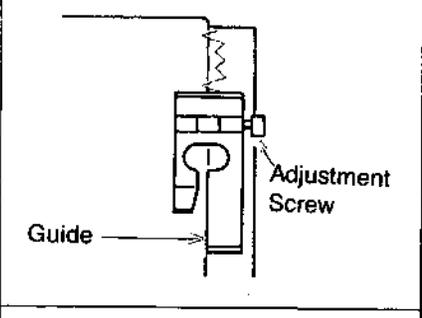


Fold hem to wrong side.

Pin or baste in place.



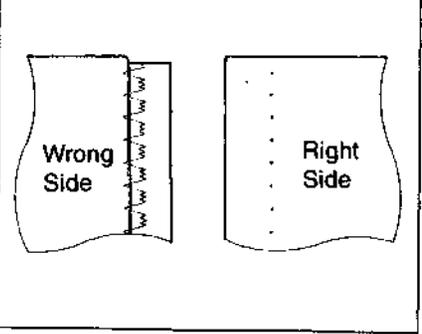
Fold hem back as shown.



Place folded edge against presser foot guide.

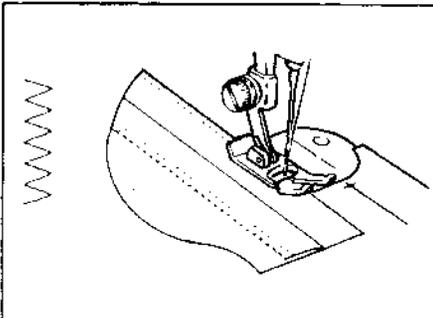
Sew, allowing wide stitches to enter edge of fold.

Adjust foot if necessary.



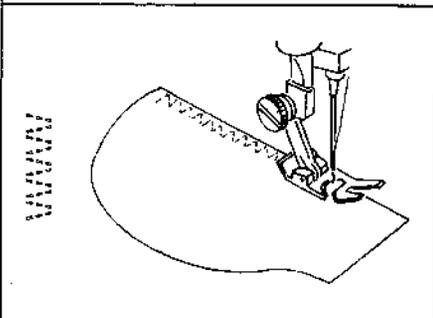
Turn fabric to right side and press.

**OVEREDGING AND SEAMING**



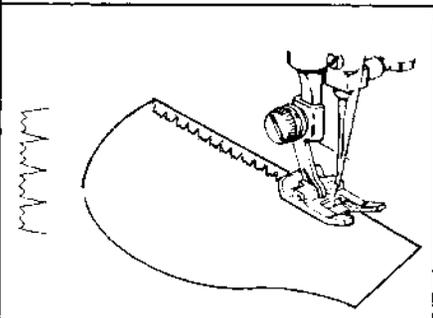
There are four stitch patterns that can be used for overcasting.

For overcasting edge of fabric to prevent fraying.



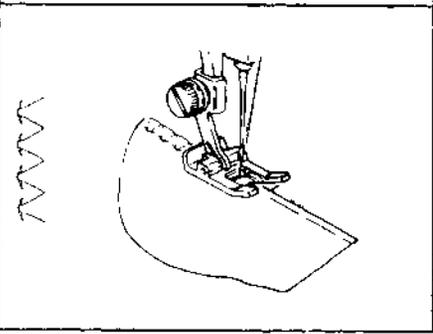
For hemfinishing on fabrics to prevent rolling.

Use with stretchy material which tends to fray or roll.



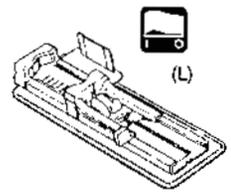
For stitching and finishing seams in light weight fabrics.

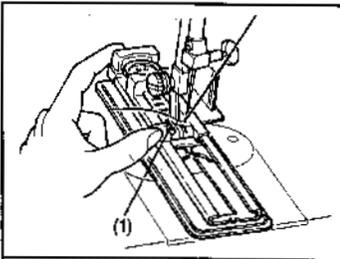
For overcasting edge of fabric to prevent fraying.



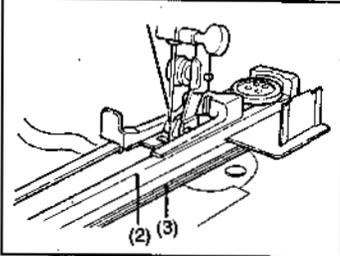
For stitching and finishing seams in heavyweight fabrics.

# ONE-STEP BUTTONHOLING

PATTERN	SETTINGS		ACCESSORY
	LENGTH	WIDTH	
	4		

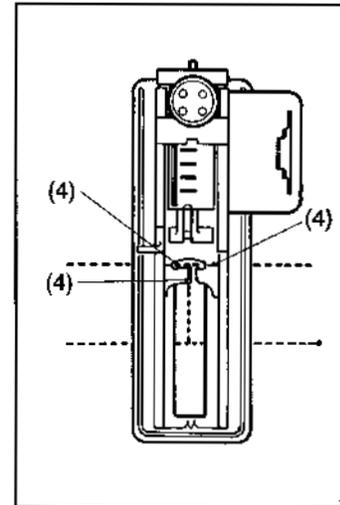


Place button on the carrier.



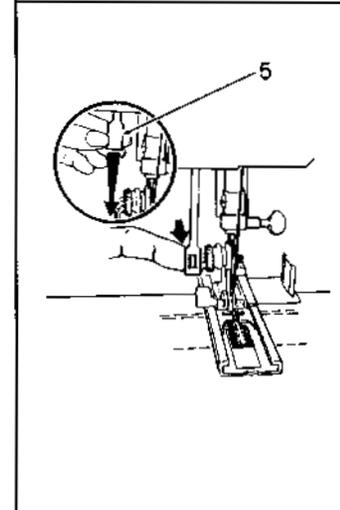
Slide clamp (1) back to hold button.

Draw both threads between upper (2) and lower (3) plates to the back.



Place fabric between the plates.

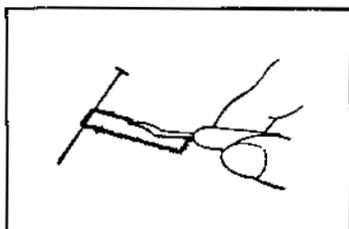
Center 3 red guidelines (4) around beginning line of buttonhole.



Pull buttonhole lever (5) down and press it toward you.

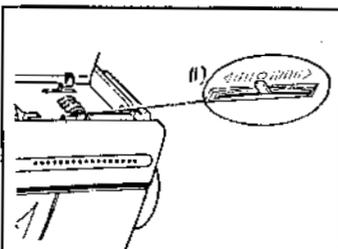


The entire buttonhole will be stitched in one operation.

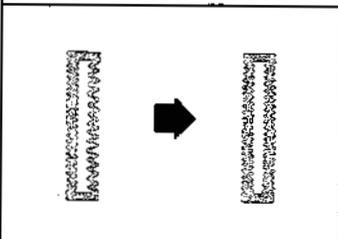


Cut buttonhole opening.

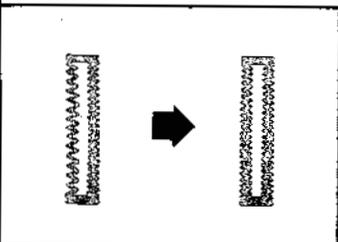
### ADJUSTING BUTTONHOLE BALANCE



If the two sides of buttonhole are unequal, adjust with stitch balance lever (1).



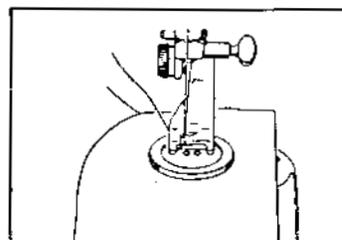
If the right side is too open - move the lever to the right.



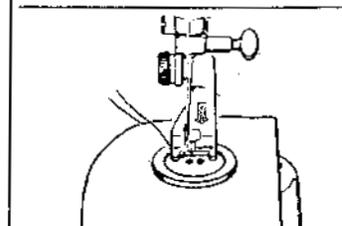
If the left side is too open - move the lever to the left.

### SEWING ON A BUTTON

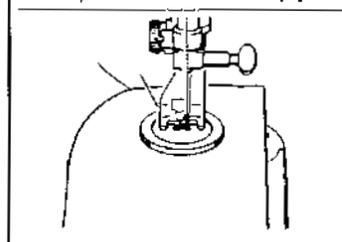
PATTERN	SETTINGS		ACCESSORY
	LENGTH	WIDTH	
	0		



Center holes in button between toes of foot.



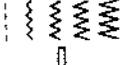
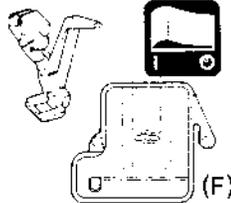
Lower needle into either hole of button.

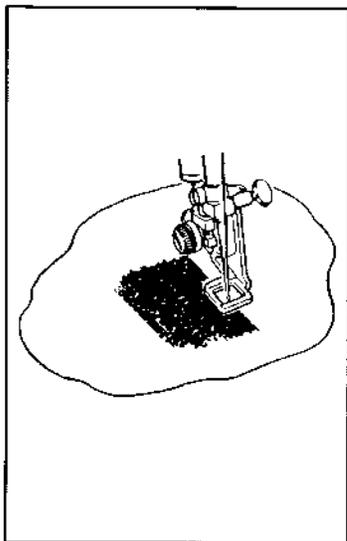


While slowly turning hand wheel, adjust width so needle enters both holes of button.

Sew 8-10 stitches.  
Pull thread to back side and tie.

## DARNING

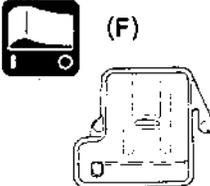
PATTERN	SETTINGS		ACCESSORY
	LENGTH	WIDTH	
-	0		(G) 

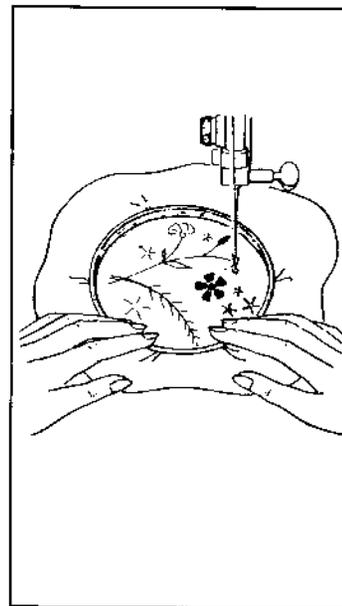


Place area to be darned, right side up, under presser foot.

Stitch, guiding fabric back and forth, until entire area is filled in.

## FREE MOTION EMBROIDERY

PATTERN	SETTINGS		ACCESSORY
	LENGTH	WIDTH	
- or 	0		



Remove foot with shank.

Control fabric with embroidery hoop. (hoop not included)

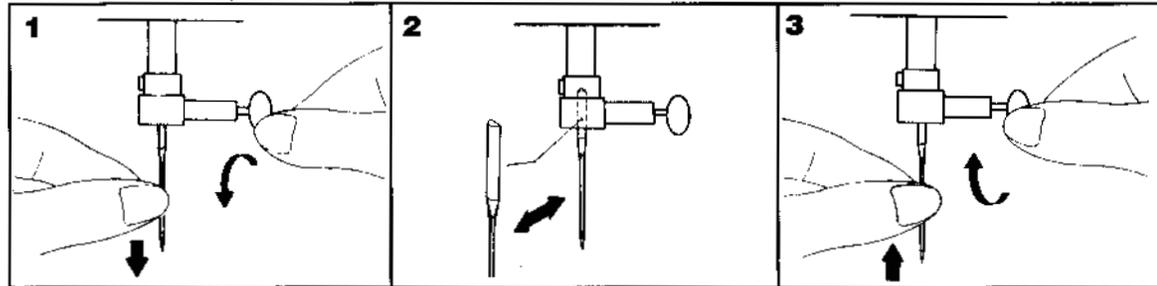
Lower presser foot lifter.

Lengthen or shorten stitches by moving hoop faster or slower.

## CHANGING NEEDLE



Important: For best sewing results, use only Genuine Singer needles.



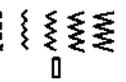
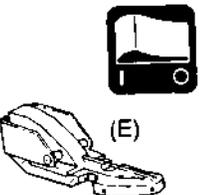
1 Insert needle with flat away from you.

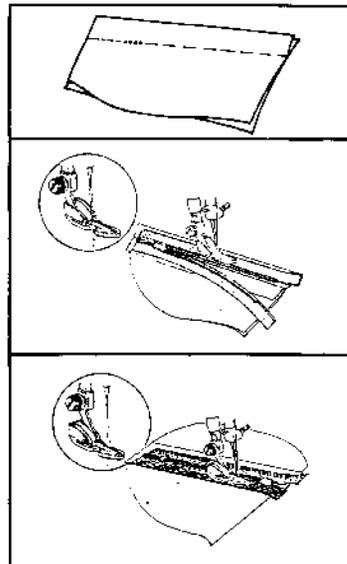
2 Loosen screw and remove needle. Tighten screw.

## FABRIC, THREAD AND NEEDLE TABLE

Fabric	Thread	Needles	
		TYPE	SIZE
The fabrics below can be of any fiber, cotton, linen, silk, wool, synthetic, rayon, blends. They are listed as examples of weight.		Failure to use a Singer brand needle may result in skipped stitches, poor sewing performance or damage to your machine.	
<b>Very Lightweight</b> -Batiste, Chiffon, Organza, Voile.	Cotton-Wrapped polyester core (extra fine) Long fiber polyester (extra fine)	2020	9/70 or 11/80
<b>Lightweight</b> -Challis, Chambray, Carmeuse, Crepe de Chine, Gauze, Handkerchief Linen, Silk, Taffeta, Tissue faille.	Cotton-Wrapped polyester core (all purpose) Long fiber polyester (two spun)	2020	11/80
<b>Medium-weight</b> -Broadcloth, Brocade, Chino, Chintz, Corduroy, Flannel, Linen, Poplin, Satin, Synthetic, Suedes, Taffeta, Terry, Velvet.	Cotton-Wrapped polyester core (all purpose) Long fiber polyester (two spun)	2020	14/90
<b>Medium to Heavy-weight</b> -Coating, Damask, Denim, Drapery Fabric, Fake Fur, Gabardine, Ticking, woolens.	Cotton-Wrapped polyester core (all purpose) Long fiber polyester (two spun)	2020	16/100
<b>Heavy-weight</b> -Canvas, Duck, Sailcloth, Upholstery Fabric.	Cotton-Wrapped polyester core (all purpose) Long fiber polyester core (two spun)	2020	18/110
Leather		2032 leather	
Knits-Jersey, Tricot single Knit.	Cotton-Wrapped polyester core (all purpose) Long fiber polyester (two spun)	2045	11/80
Sweatshirt-Double Knit, Swimwear, Sweater Knit.	Cotton-Wrapped polyester core (all purpose) Long fiber polyester (two spun)	2045	14/90
Twin-needle		2025	14/90

## INSERTING A ZIPPER

PATTERN	SETTINGS		ACCESSORY
	LENGTH	WIDTH	
-	1½ to 4		



Baste zipper opening.

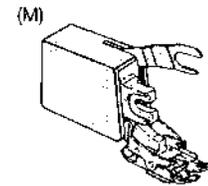
Attach left side of foot to shank.

Stitch zipper to seam allowance.

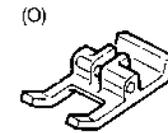
Attach right side of foot to shank.

Stitch zipper to seam allowance.

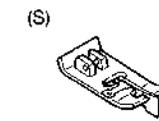
## OPTIONAL ACCESSORIES NOT INCLUDED



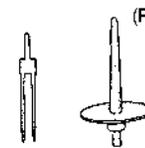
Even feed foot  
#421333



Open toe foot  
#317446

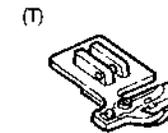


Overedge foot  
#541582

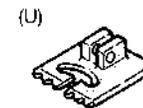


Twin needle  
#2025

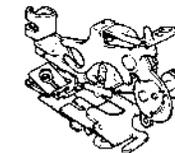
Spool pin  
#313026



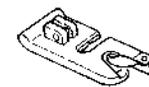
Shirring foot  
#543106



Pin tuck foot  
#317263



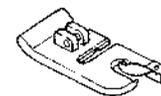
Ruffler  
#161561



Flat hemmer  
presser foot  
#137597

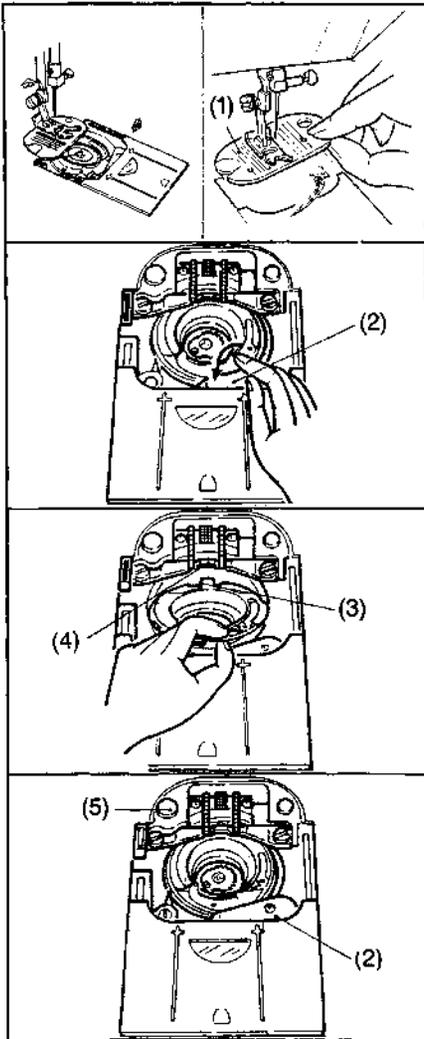


Seam ripper  
#546357



Round hemmer  
presser foot  
#317450

## REMOVING AND REPLACING BOBBIN CASE



Open slide plate and remove bobbin.

Lift needle plate (1) by right corner.

Push lever (2) towards you until it stops, and hold in this position.

Lift bobbin case up and guide it out toward you, as shown.

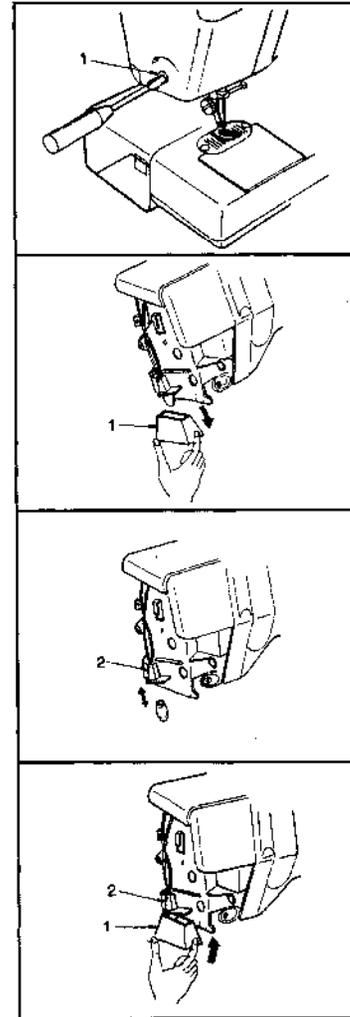
Push lever (2) towards you.

Guide bobbin case into place, making sure block (3) is under metal bracket (4).

Return lever (2) to locking position over top of bobbin case.

To replace needle plate, slide it under pin (5) and push it to the left.

## REMOVING AND REPLACING LIGHT BULB



Loosen screw and face plate.

(Screwdriver not included)

TO REMOVE

Pull down light reflector (1).  
Pull bulb down.

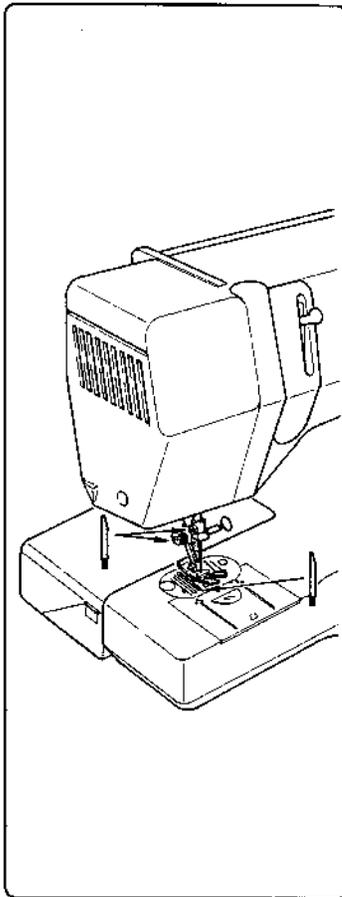
TO REPLACE

Push new bulb into light socket (2).  
(Use only a 5 watts 12 volts light bulb part #979603)

Push light reflector (1) into place.

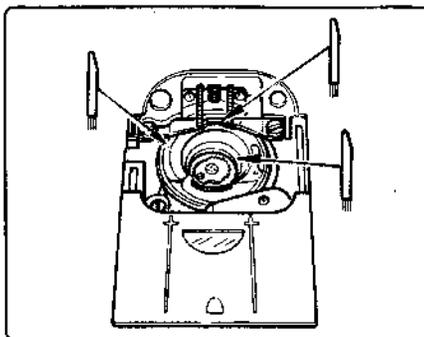
Make sure the small end of light reflector is aligned with the small end of light socket (2).

## CLEANING MACHINE



Using lint brush, remove lint or dust from:

- presser bar
- needle bar
- machine surface (if necessary, dampen a soft cloth and use a mild soap to clean the surface)



Remove needle plate as instructed and clean exposed area with lint brush.

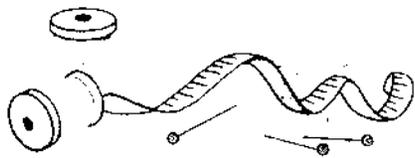
- bobbin case (if there is a lot of lint in this area, remove bobbin case for cleaning)

## PERFORMANCE CHECKLIST

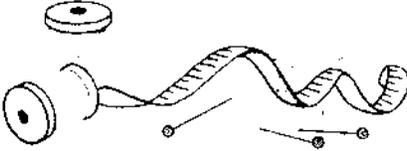
PROBLEM	CAUSE
Needle does not move	Is machine connected to electrical supply? Is power and light switch on? Is controller connected? Is air supply from controller clear?
Needle moves but stitch is not formed	Is needle defective? Is needle fully inserted into needle clamp? Are bobbin and needle correctly threaded? Is bobbin correctly inserted into bobbin case?
Needle breaks	Is needle straight and sharp? Is needle correct size? Is needle fully inserted into needle clamp? Are controls properly set? Are accessories correct for application?
Bobbin winding difficulties	Is thread unwinding freely from spool? Is slide plate in proper position? Is thread end securely held at start of wind?
Upper thread breaks	Is machine properly threaded? Is thread freely unwinding from spool? Is proper size spool cap being used? Is needle correct size for thread? Is upper thread tension too tight? Is bobbin case properly inserted? Is bobbin rim free of nicks?
Lower thread breaks	Is bobbin correctly wound? Is bobbin correctly inserted in bobbin case? Is bobbin case correctly threaded?
Skipped stitches	Is machine properly threaded? Is fabric firmly held down? Is needle correct style and size? Is needle straight and sharp?
Fabric does not move properly under presser foot	Is presser foot correctly attached to machine? Is presser foot lowered? Is stitch length correctly set?

FOR BEST PERFORMANCE, PURCHASE ONLY GENUINE SINGER ACCESSORIES AND REPLACEMENT PARTS.

## PERSONAL NOTES



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