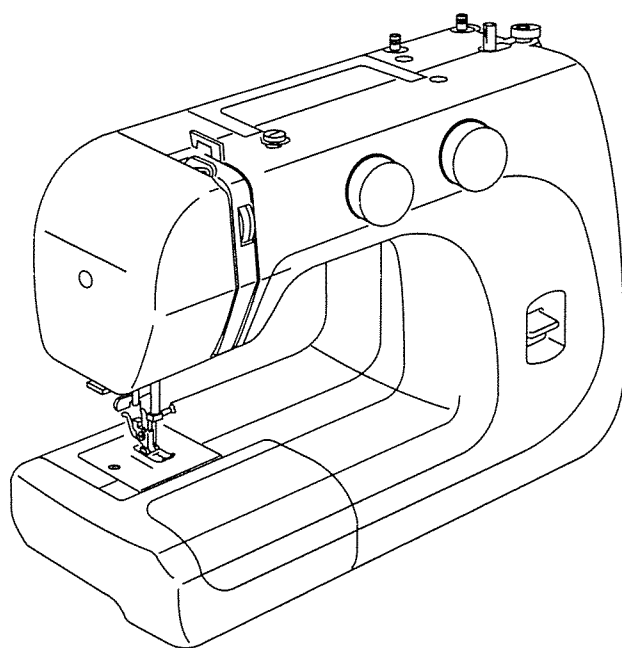


INSTRUCTION BOOK



Model 2039SN

IMPORTANT SAFETY INSTRUCTIONS

Your sewing machine is designed and constructed only for HOUSEHOLD use.
Read all instructions before using this sewing machine.

DANGER — To reduce the risk of electric shock:

1. An appliance should never be left unattended when plugged in. Always unplug this appliance from the electric outlet immediately after using and before cleaning.
2. Always unplug before relamping. Replace bulb with same type rated 15 watts.
3. Do not reach for the appliance that has fallen into water. Unplug immediately.
4. Do not place or store appliance where it can fall or be pulled into a tub or sink. Do not place in or drop into water or other liquid.

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

1. Do not allow to be used as a toy. Close attention is necessary when this appliance is used by or near children.
2. Use this appliance only for its intended use as described in this manual.
Use only attachments recommended by the manufacturer as contained in this manual.
3. Never operate this appliance 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 appliance to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
4. Never operate the appliance with any air opening blocked. Keep ventilation openings of the sewing machine and foot controller free from accumulation of lint, dust, and loose cloth.
5. Never drop or insert any object into any opening.
6. Do not use outdoors.
7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
8. To disconnect, turn all controls to the off ("0") position, then remove plug from outlet.
9. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
10. Keep fingers away from all moving parts. Special care is required around sewing machine needle.
11. Always use the proper needle plate. The wrong plate can cause the needle to break.
12. Do not use bent needles.
13. Do not pull or push fabric while stitching.
It may deflect the needle causing it to break.
14. Switch the sewing machine off ("0") when making any adjustment in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, and the like.
15. Always unplug the sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.

SAVE THESE INSTRUCTIONS

TABLE OF CONTENTS

SECTION 1. ESSENTIAL PARTS

Name of Parts	2
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SECTION 2. GETTING READY TO SEW

Extension Table	3
Standard Accessories	3
Accessories Storage Box	3
Connecting the Machine to the Power Supply	4
Foot Control	4
Presser Foot Lifter	5
To Attach and Remove the Presser Foot	5
Changing Needle	6
Thread and Needle Chart	6
Setting Spool Pins	7
Removing or Inserting the Bobbin Case	7
Winding the Bobbin	8
Threading Bobbin Case	8
Threading the Machine	9
Needle Threader	10
Drawing Up Bobbin Thread	10
Balancing Needle Thread Tension	11
Adjusting Bobbin Thread Tension	11
Pattern Selector Dial	12
Stitch Length Dial	12
Reverse Stitch Button	13
Dropping the Feed Dog	13

SECTION 3. BASIC SEWING

Straight Stitch Sewing	14
To Change Sewing Direction	14
Using the Seam Guides on the Needle Plate	15
Turning Square Corners	15
Variable Needle Position	15
Zigzag Stitching	16

SECTION 4. UTILITY STITCHING

Overcasting	16
Tricot Stitch	17
Knit Stitch	17
Straight Stretch Stitch	18
Sewing on Buttons	19
Buttonhole	20
Corded Buttonhole	21
Zipper Application	22
Blind Stitch Hemming	23

SECTION 5. DECORATIVE STITCHING

Shell Tuck	24
Stretch Stitch Patterns	24
Smocking	25
Applique	25
Twin Needle Sewing	26

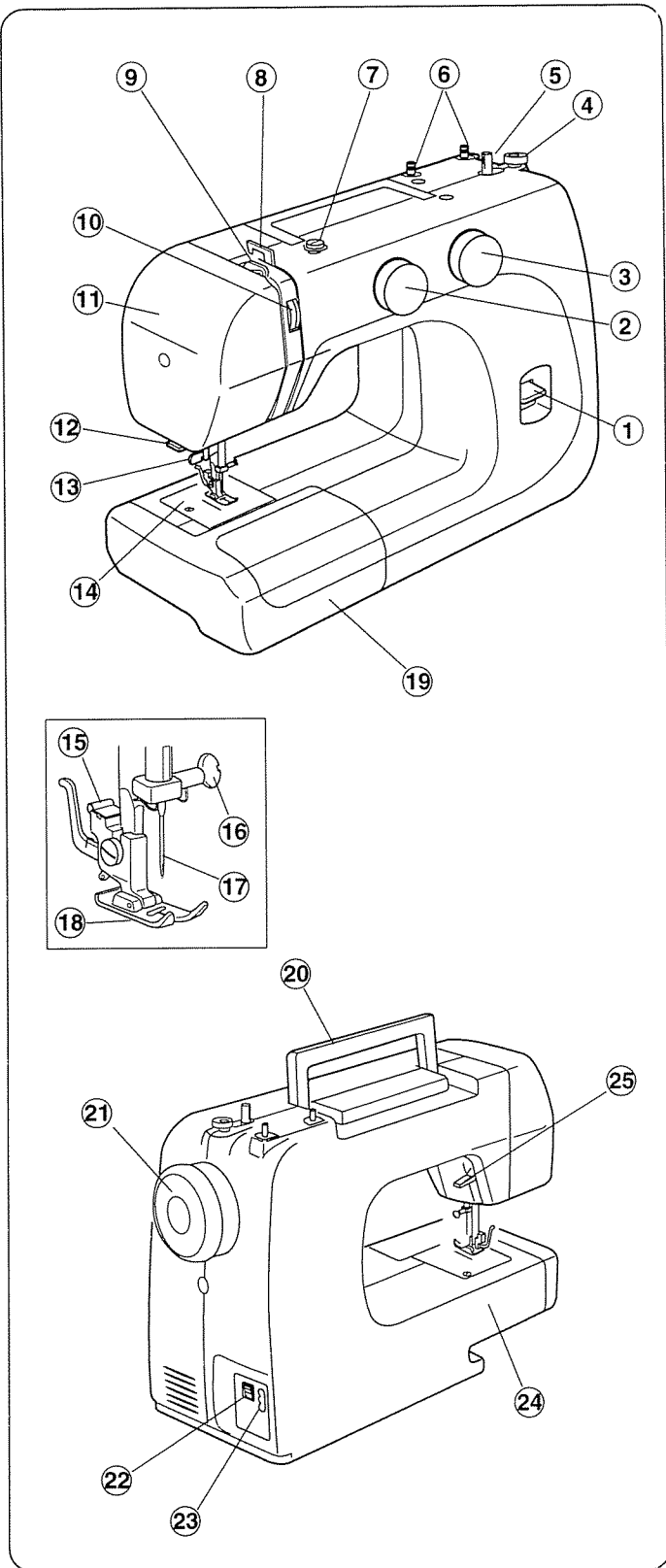
SECTION 6. CARE OF YOUR MACHINE

Dismantling and Assembling Hook Race Unit	27
Cleaning the Feed Dog	27
Sewing Light	28
Troubleshooting	29

SECTION 1. ESSENTIAL PARTS

Name of Parts

- 1 Reverse stitch button
- 2 Pattern selector dial
- 3 Stitch length dial
- 4 Bobbin winder stopper
- 5 Bobbin winder spindle
- 6 Spool pins
- 7 Bobbin winder thread guide
- 8 Thread guide
- 9 Thread take-up lever
- 10 Thread tension dial
- 11 Face plate
- 12 Thread cutter
- 13 Needle Threader
- 14 Needle plate
- 15 Presser foot holder
- 16 Needle clamp
- 17 Needle
- 18 Presser foot
- 19 Extension table
- 20 Carrying handle
- 21 Handwheel
- 22 Power switch
- 23 Machine socket
- 24 Free arm
- 25 Presser foot lifter



Note : The specifications are subject to change without prior notice.

SECTION 2. GETTING READY TO SEW

Extension Table

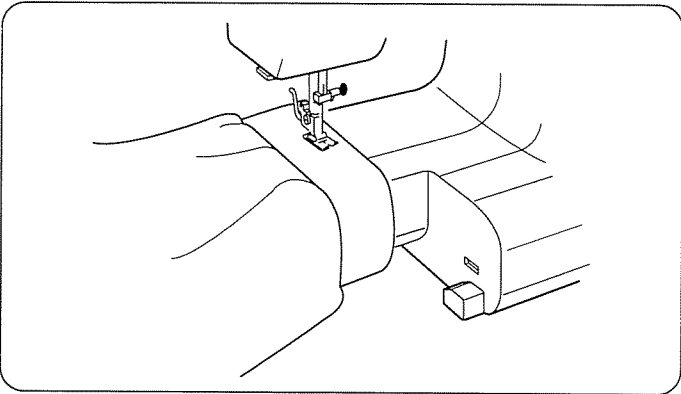
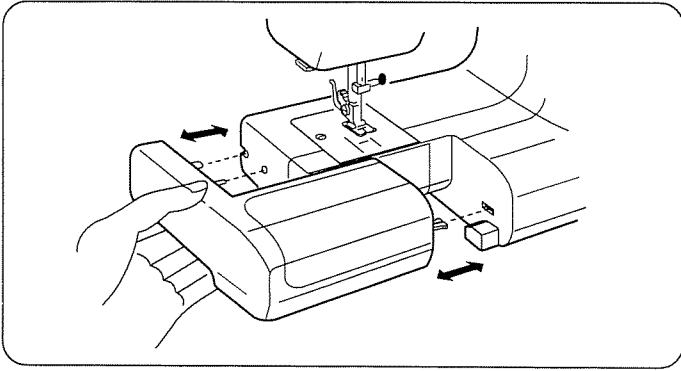
The extension table provides added sewing surface and can be easily removed for free arm sewing.

Detaching the table:

Pull the table away from the machine.

Attaching the table:

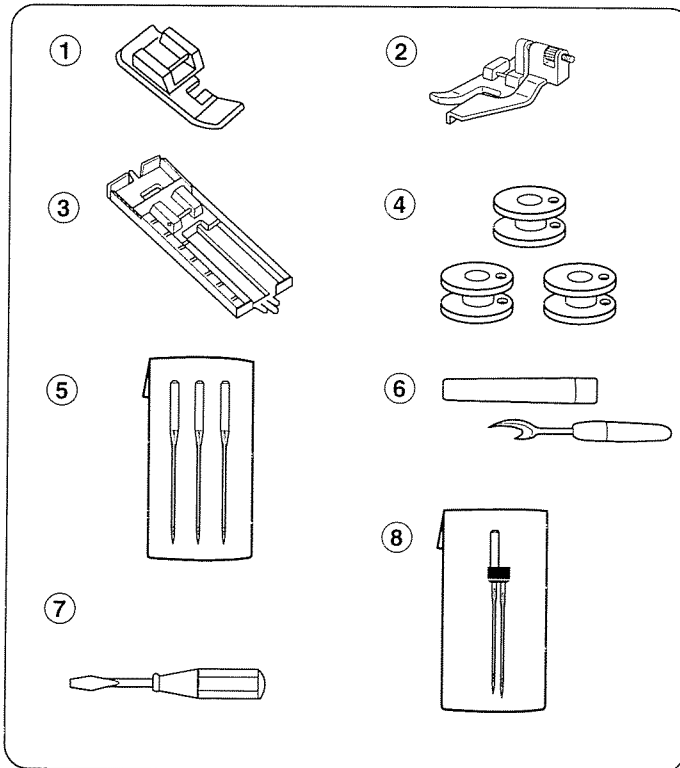
Push the extension table until it snaps into the machine.



Advantages and uses of free arm sewing:

- Avoid fabric bunching around the needle when bartacking to reinforce pockets, plackets and waistlines.
- For stitching sleeves, waistbands, pant legs or any circular garment area
- For darning socks or mending knees, elbows or areas of wear in children's clothes

Standard Accessories

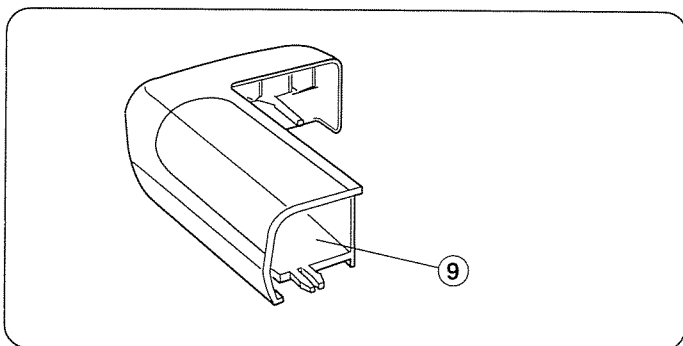


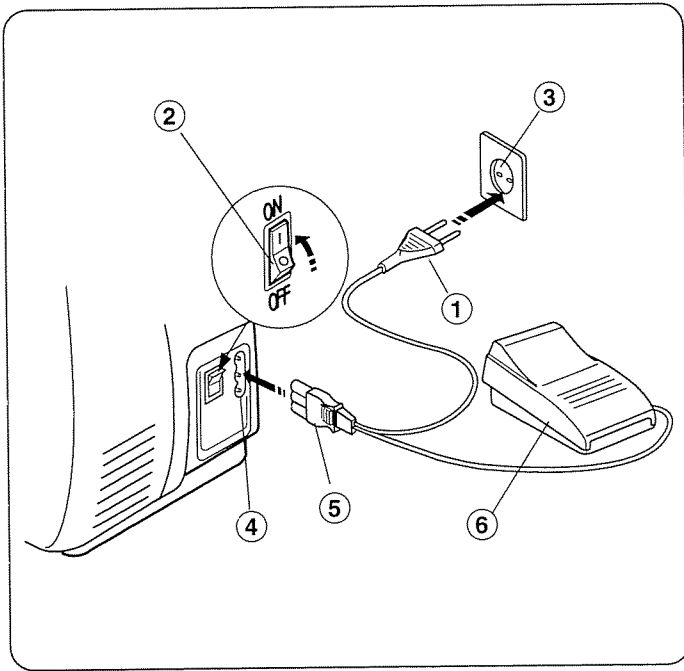
- ① Zipper foot
- ② Blind hem foot
- ③ Sliding buttonhole foot
- ④ Bobbins
- ⑤ Set of needles
- ⑥ Seam ripper
- ⑦ Small screwdriver
- ⑧ Twin needle

Accessories Storage Box

Sewing accessories are conveniently located in the extension table.

- ⑨ Accessories storage box



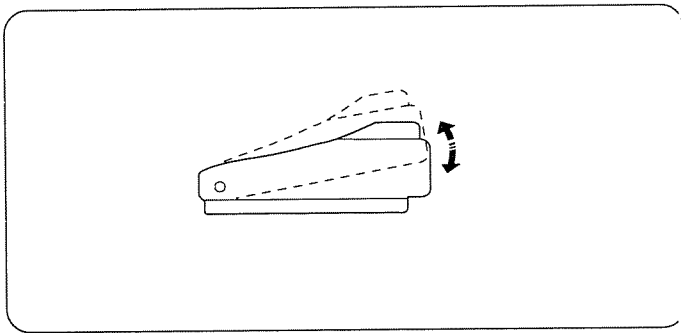


Connecting the Machine to the Power Supply

Before connecting the power cord, make sure the voltage and frequency shown on the machine conform to your electrical power.

1. Turn off the power switch.
2. Insert the machine plug into the machine socket.
3. Insert the power supply plug into the outlet .
4. Turn on the power switch to turn on the power and sewing light.

- | | |
|---------------------|------------------|
| ① Power supply plug | ② Power switch |
| ③ Outlet | ④ Machine socket |
| ⑤ Machine plug | ⑥ Foot control |

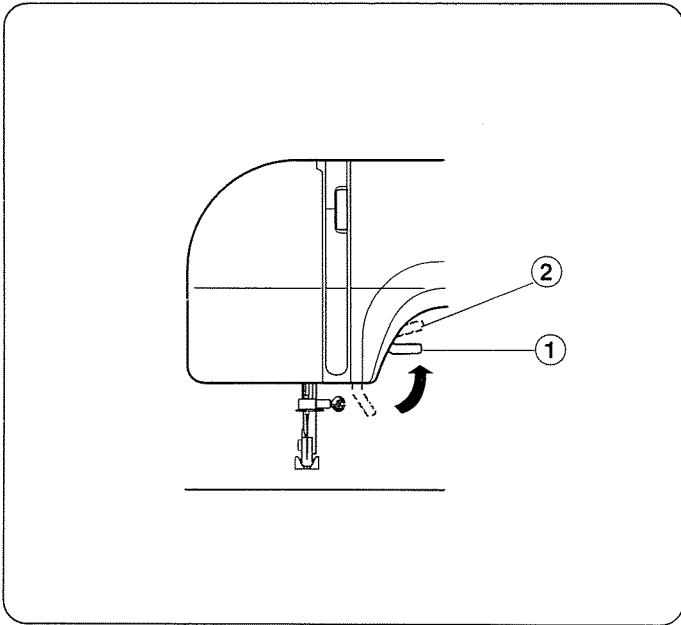


Foot control

Sewing speed can be varied by the foot control.

The harder you press on the control, the faster the machine runs.

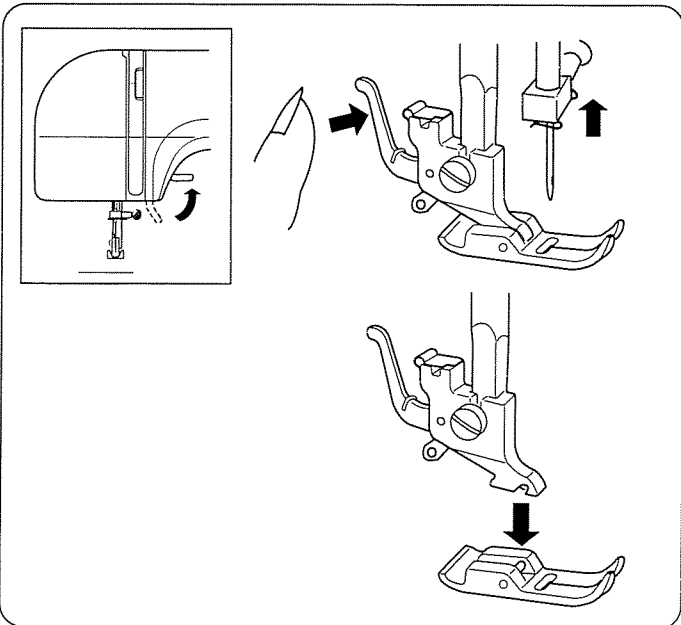
Caution : Do not place anything on the foot control, otherwise the machine will start advertently.



Presser Foot Lifter

The presser foot lifter raises and lowers your presser foot. You can raise it about 0.6 cm (1/4") higher than the normal up position for easy removal of the presser foot or to help you to place heavy fabric under the foot.

- ① Normal up position
- ② Highest position



To Attach and Remove the Presser Foot

To remove

Turn the handwheel toward you to raise the needle to its highest position.

Raise the presser foot.

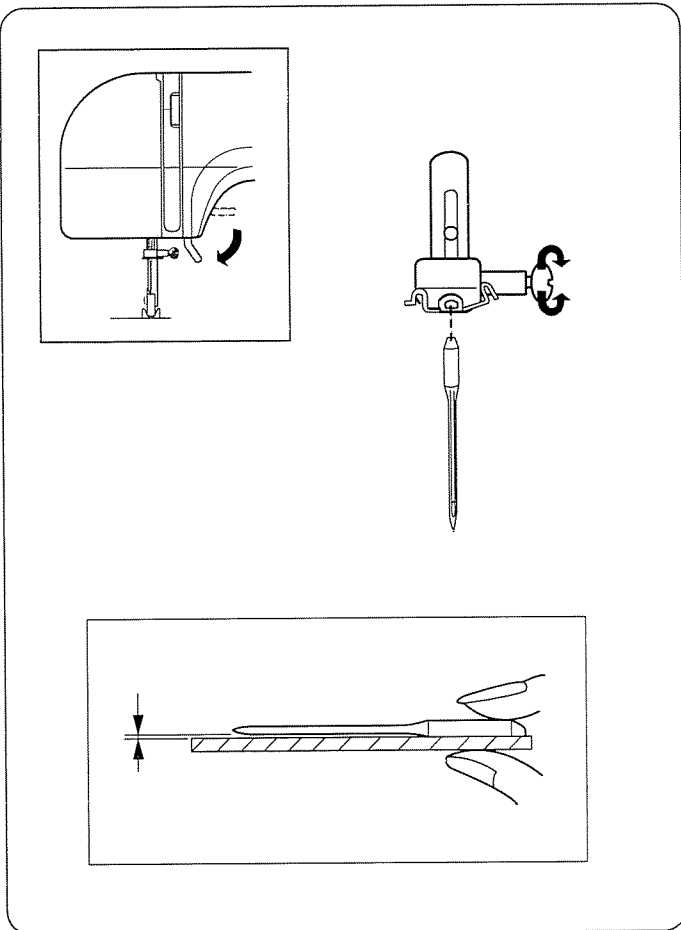
Press the lever on the back of the foot holder.

The presser foot will drop off.

To attach

Place the presser foot so the pin on the foot lies just under the groove of the foot holder.

Lower the foot holder to lock the foot in place.



Changing Needle

Raise the needle by turning the handwheel toward you and lower the presser foot.

Loosen the needle clamp screw by turning it counterclockwise. Remove the needle from the clamp.

Insert the new needle into the clamp with the flat side away from you.

When inserting the needle into the clamp, push it up as far as it will go and tighten the clamp screw firmly with the screwdriver.

- * Check your needles frequently for barbed or blunted points. Snags and runs in knits, fine silks and silk-like fabrics are permanent and are almost always caused by a damaged needle.

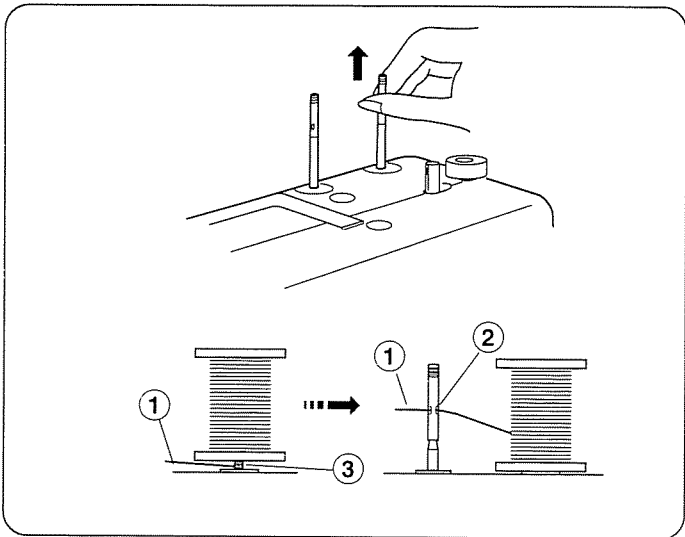
To check the needle

Place the flat side of the needle on something flat (needle plate, glass etc.). The clearance between the needle and flat surface should be consistent. Never use a bent or blunt needle.

	Fabrics	Thread	Needle Size
Light weight	Crepe de Chine, Voile, Lawn, Organdy, Georgette, Tricot	Fine Silk Fine Cotton Fine Synthetic Fine Cotton Covered Polyester	9 or 11
Medium weight	Linens, Cotton, Pique, Serge, Double Knits, Percale	50 silk 50 to 80 Cotton 50 to 60 Synthetic Cotton Covered Polyester	11 or 14
Heavy weight	Denim, Tweed, Gabardine, Coating, Drapery and Upholstery Fabric	50 silk 40 to 50 Cotton 40 to 50 Synthetic Cotton Covered Polyester	14 16

Thread and Needle Chart

- * In general, fine threads and needles are used for sewing thin fabrics, and thicker threads and needles are used for sewing heavy fabrics. Always test thread and needle size on a small piece of fabric which will be used for actual sewing.
- * Use the same thread for needle and bobbin.
- * When sewing stretch, very fine fabrics and synthetics, use a BLUE TIPPED needle. The blue tipped needle effectively prevents skipped stitches.
- * When sewing very fine fabrics, sew over a piece of paper to prevent seam puckering.



Setting Spool Pins

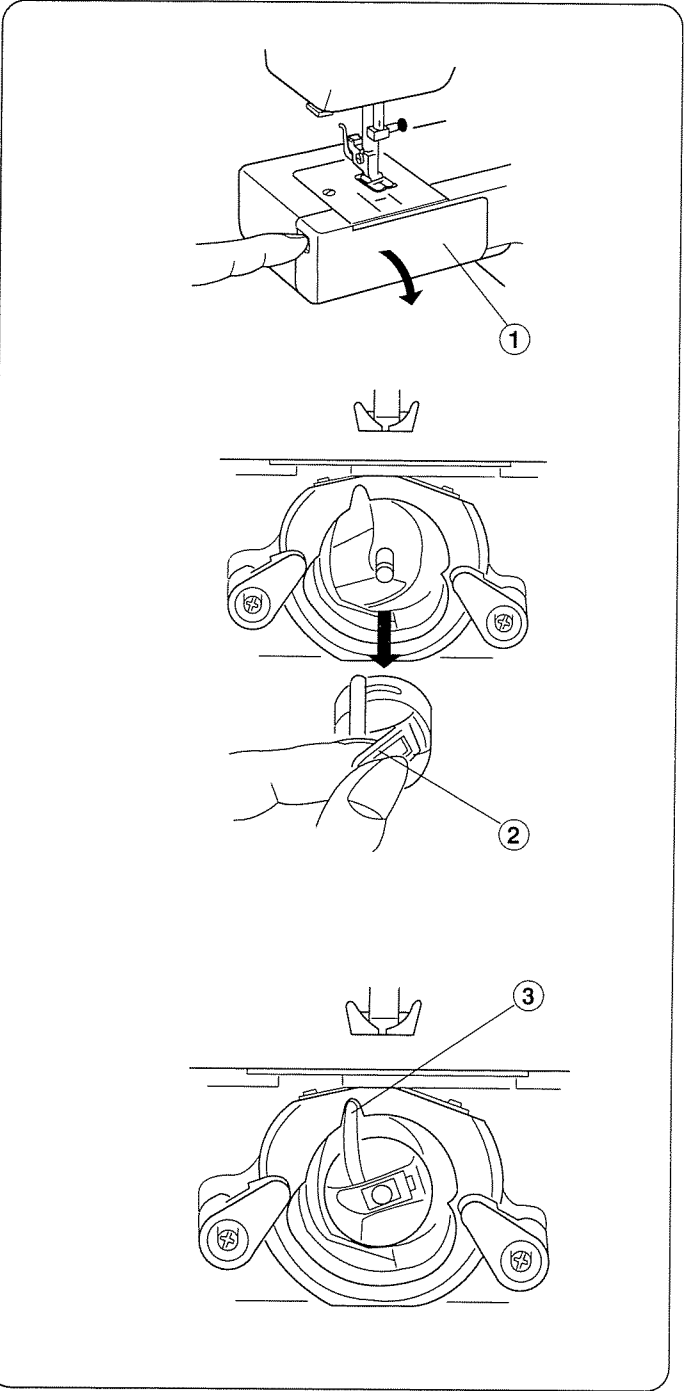
The spool pins are used for holding the spool of thread in order to feed thread to the machine.

To use, pull up the spool pin. Push down for storage.

- ① Upper thread
- ② Hole
- ③ Tangle

Note : When using thread which has tendency to tangle around spool pin, thread through the hole of spool pin as shown.

The hole should face the thread spool.



Removing or Inserting the Bobbin Case

Open the hook cover.

- ① Hook cover

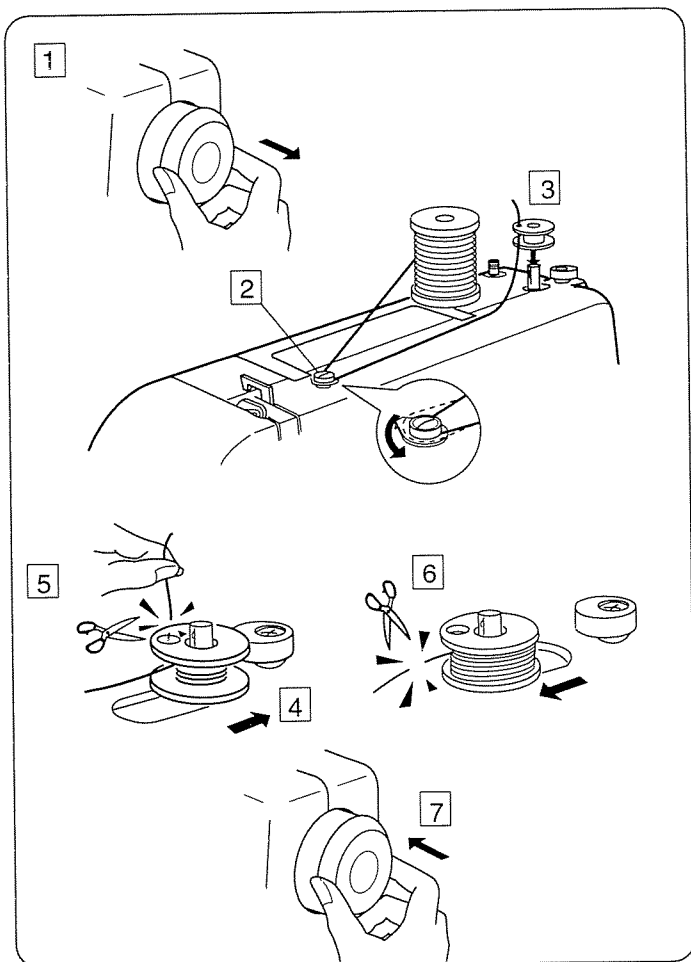
Raise the needle by turning the handwheel toward you.

Take out the bobbin case by holding the latch.

- ② Latch

When inserting the bobbin case, place the horn into the recess of the hook race.

- ③ Horn



Winding the Bobbin

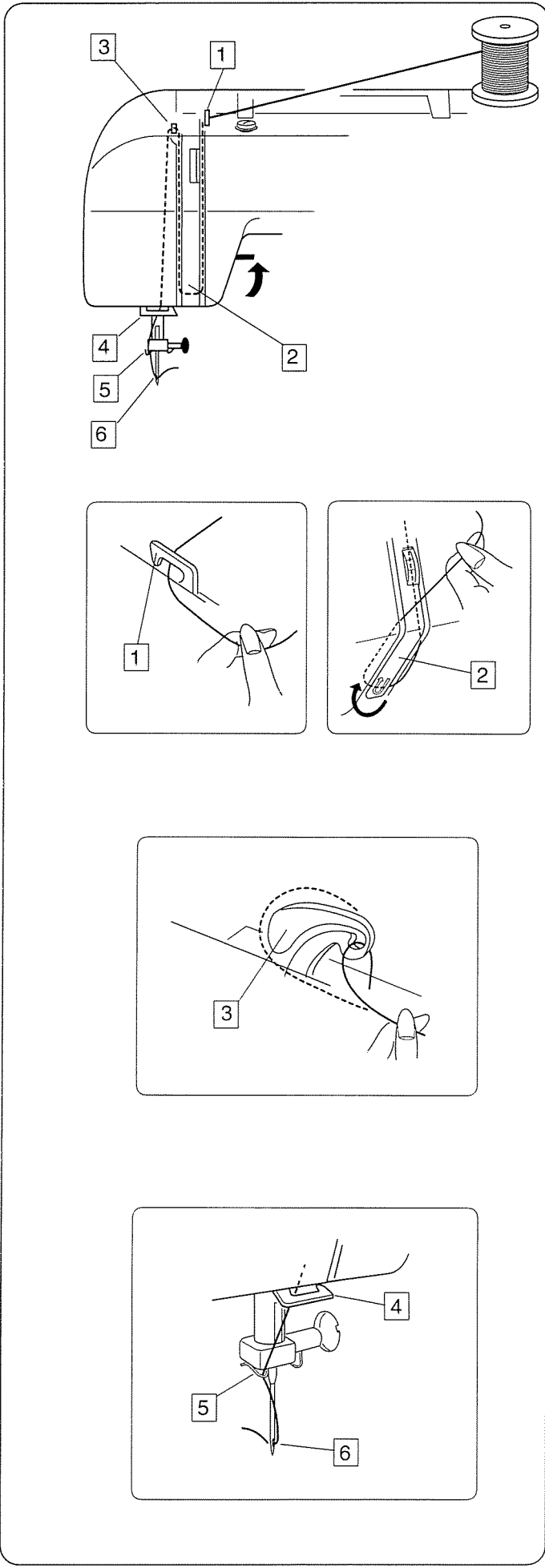
- 1 Pull the handwheel out.
- 2 Draw the thread from spool.
Guide the thread around the bobbin winder thread guide.
- 3 Insert the thread through the hole in the bobbin from the inside to the outside.
Put the bobbin on the bobbin winder spindle.
- 4 Push it to the right.
- 5 With the free end of the thread held in your hand,
depress the foot control.
Stop the machine when it has made a few turns, and
cut the thread close to the hole in the bobbin.
- 6 Depress the foot control again.
When the bobbin is fully wound, stop the machine.
Return the bobbin winder spindle to its original position
by moving the spindle to the left, and cut the thread.
- 7 Push the handwheel to the left. (original position).

Note : Return the bobbin winder spindle when the machine stops.

Threading Bobbin Case

- 1 Place the bobbin into the bobbin case.
Make sure the thread unwinds in the direction of arrow.
- 2 Pull the thread into the bobbin case slot.
- 3 Draw the thread under the tension spring and into the delivery eye.

* Leave about 10 cm (4") of free thread.



Threading the Machine

Raise the take-up lever to its highest position by turning the handwheel toward you.
 Raise the presser foot.
 Place a spool on the spool pin as shown, with thread coming from back of the spool.

- 1 Draw the thread into thread guide using both hands.
- 2 While holding the thread near spool, draw thread down into the tension area and then around the check spring holder.

- 3 Firmly draw the thread up and through the take-up lever from right to left.

- 4 Then draw the thread down and slip it into the lower thread guide.
- 5 Draw the thread down and slip it into needle bar thread guide on the left.

- 6 Thread the needle eye from front to back.
- * Refer to page 10 for the built-in needle threader.

Note : You may want to cut the end of thread with sharp scissors for easier needle threading.

Needle Threader

1 Raise the needle to its highest position.
Pull down the needle threader knob as far as it will go.

2 Turn the knob in the direction of the arrow in the illustration, then insert **Hook** into the needle eye.
Lead the thread around **Guide** and under **Hook**.

3 Turn the knob in the direction of the arrow in the illustration, drawing the thread loop through the needle.

4 Pull the thread through the needle eye.

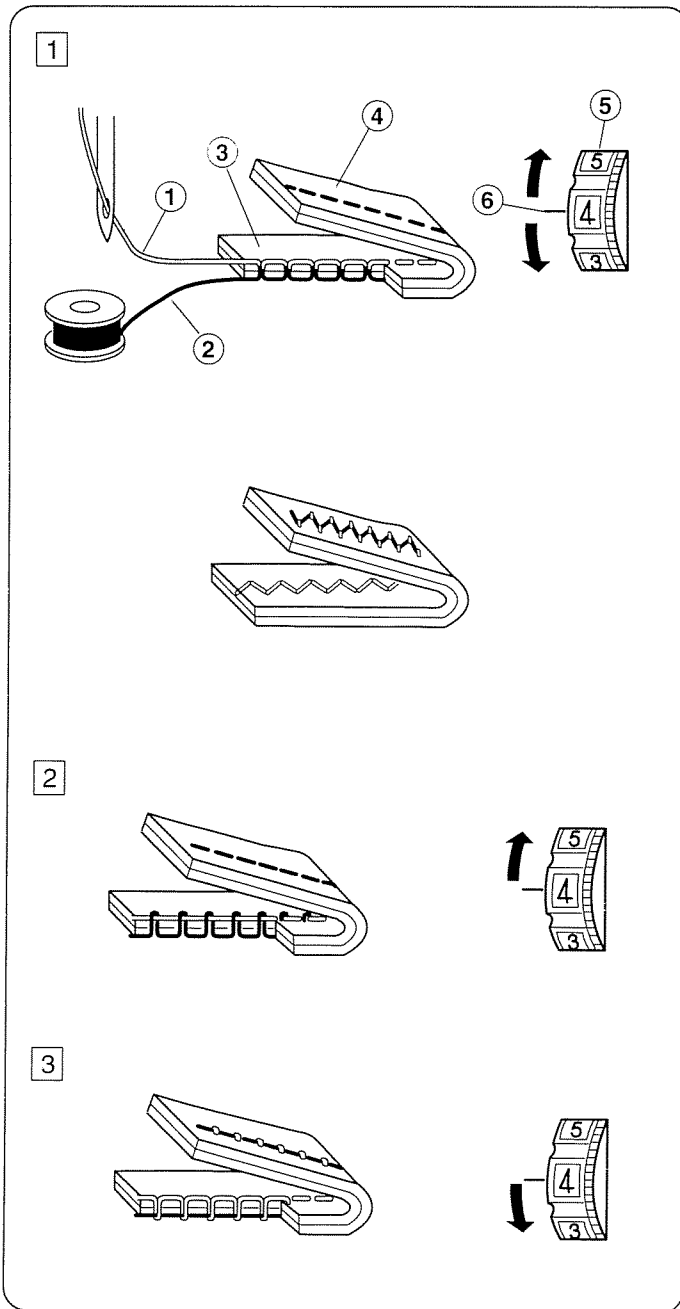
* The needle threader can be used with a #11 to #16 needle or a Janome Blue tipped needle. Thread size 50 to 100 should also work well.

Drawing Up Bobbin Thread

1 Raise the presser foot and hold the needle thread lightly with your left hand.

2 Turn the handwheel slowly toward you with your right hand until the needle goes down and continue turning the handwheel until the take-up lever is at its highest position.
Lightly draw up the needle thread forming a loop of the bobbin thread.

3 Pull 15 cm (6") of both threads back and under the presser foot.



Balancing Needle Thread Tension

1 Correct tension

The thread tension is adjusted depending on the sewing materials, layers of fabric and sewing method.

- * The ideal straight stitch has threads looked between two layers of fabric, as illustrated (magnifies to show detail).
- * For an ideal zigzag stitch, the bobbin thread does not show on the right side (top side) of the fabric, and the needle thread shows slightly on the wrong side (bottomside) of the fabric.

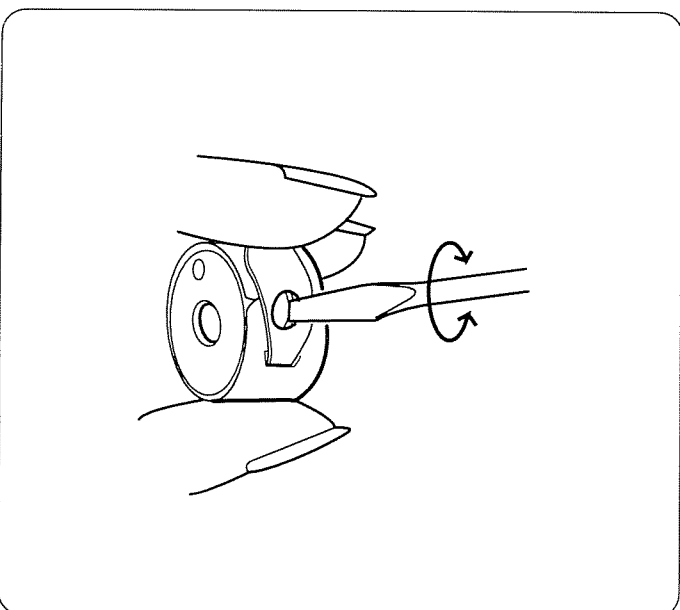
- ① Needle thread (Top thread)
- ② Bobbin thread (Bottom thread)
- ③ Right side (Top side) of fabric
- ④ Wrong side (Bottom side) of fabric
- ⑤ Thread tension dial
- ⑥ Setting mark

2 Needle thread tension is too tight

The bobbin thread (bottom thread) will appear on the right side (top side) of the fabric.....Loosen the needle thread tension by moving the dial to a lower number.

3 Needle thread tension is too loose

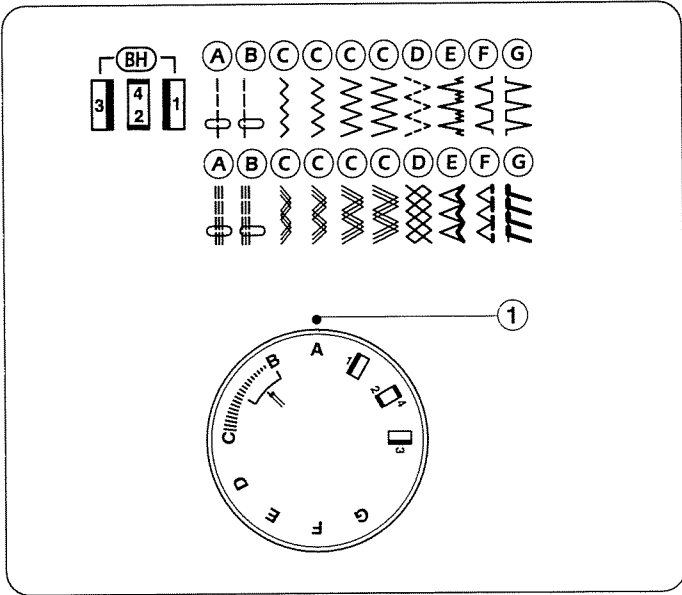
The needle thread (top thread) will appear on the wrong side (bottom side) of the fabric.....Tighten the needle thread tension by moving the dial to a higher number.



Adjusting Bobbin Thread Tension

For general sewing, the bobbin thread tension does not need to adjust. However, you can adjust the bobbin thread tension for a specific sewing need.

Turn the adjusting screw to the right to tighten or, to the left to loosen the tension.

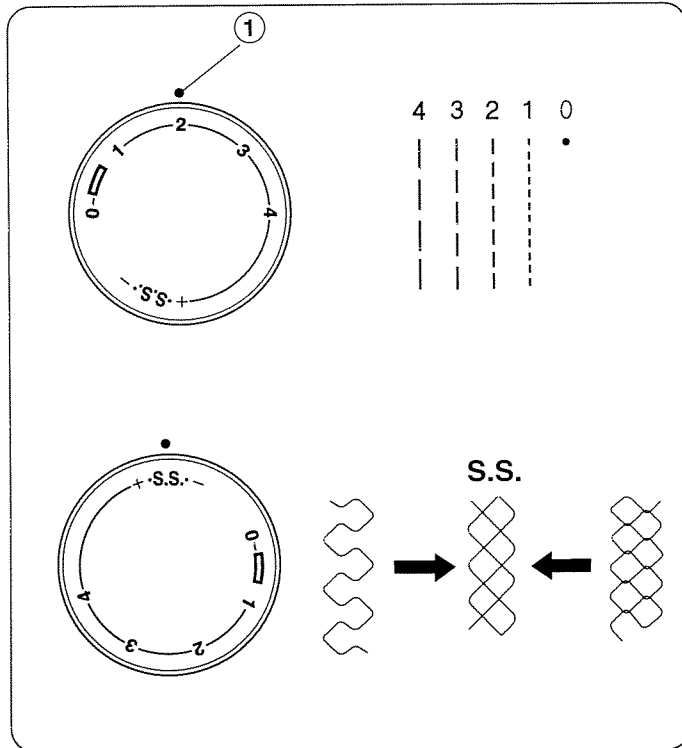


Pattern Selector Dial

Raise the needle and presser foot. Turn the pattern selector dial to set the symbol corresponding to the desired pattern at the setting mark.

① Setting mark

* The " || " is the maximum width for twin needle stitches.




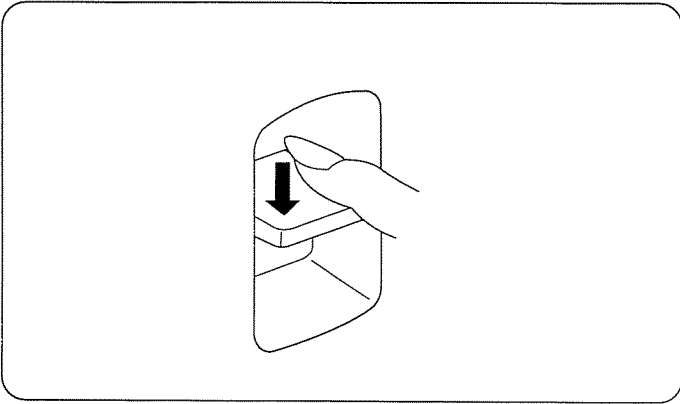
Stitch Length Dial

Turn the stitch length dial to set the desired stitch length at the setting mark.

The higher the number, the longer the stitch length

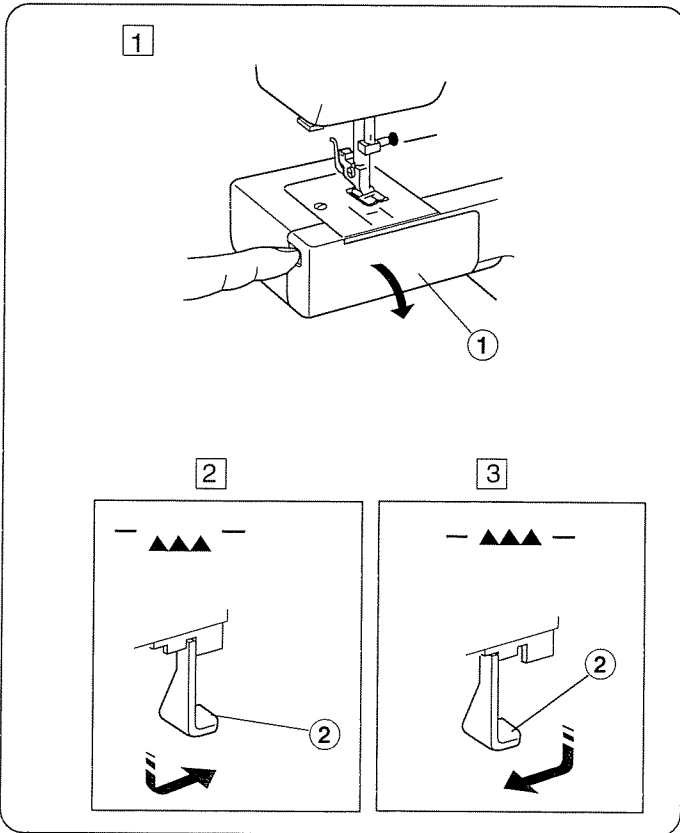
① Setting mark

- "  " is the recommended setting for buttonhole stitching.
- Adjust the dial in the 0.5–4 range when you sew the zigzag stitch.
- Set the dial at "S.S." to sew the stretch stitch pattern.
- If the stretch stitch pattern is not even, turn the stitch length dial in the direction of "–" to compress it, or "+" to expand it.



Reverse Stitch Button

As long as you keep the reverse stitch button depressed, the machine sews backwards.



Dropping the Feed Dog

- 1 Open the hook cover.
 - ① Hook cover

- 2 To drop the feed dog, pull down the drop lever and move it to the right, as illustrated.
 - ② Drop lever

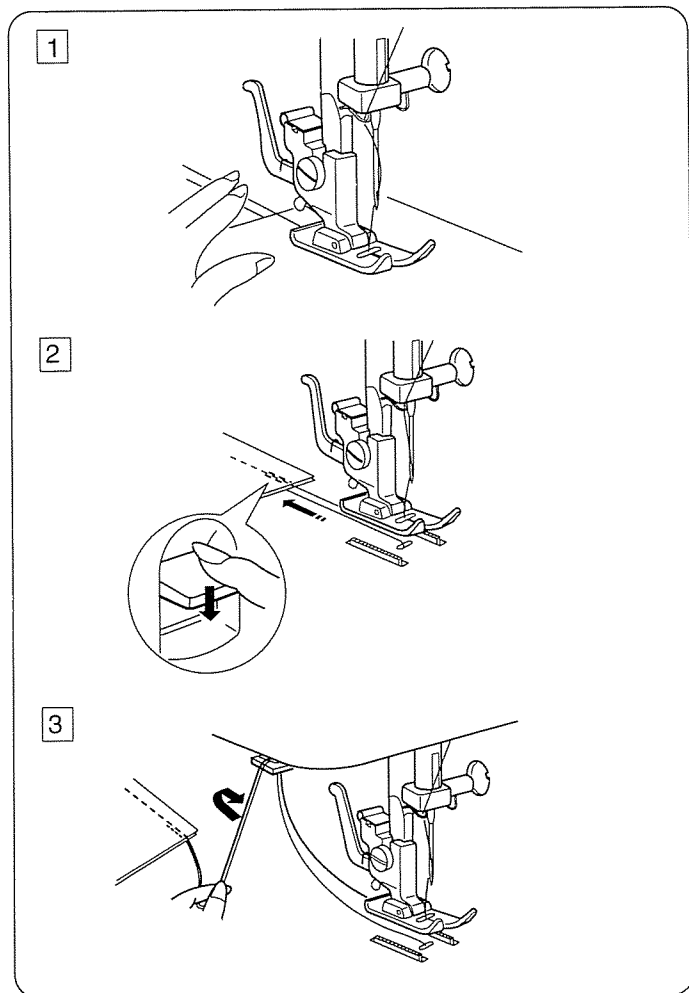
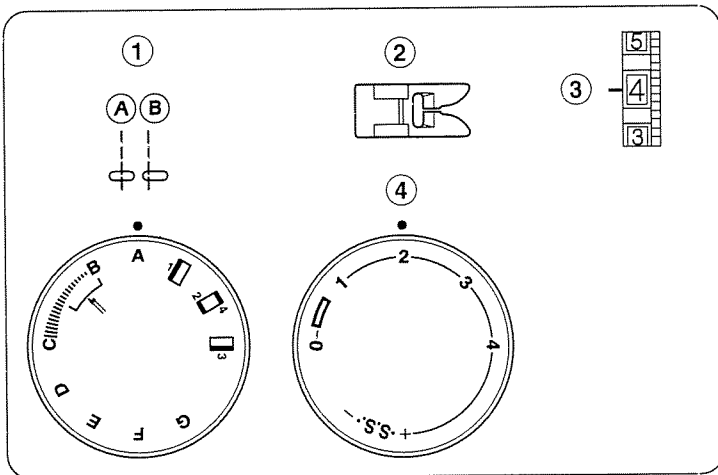
- 3 To raise the feed dog, pull down the drop lever and move it to the left, as illustrated.

- * The feed dog must be up for normal sewing.
- * The feed dog will return to the up position when the machine starts running.

SECTION 3. BASIC SEWING

Straight Stitch Sewing

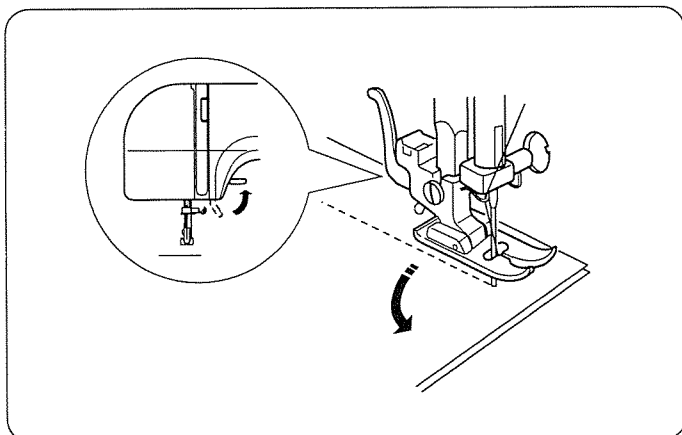
- ① Pattern selector: A or B
- ② Presser foot: Zigzag foot
- ③ Thread tension: 2-6
- ④ Stitch length: 1.5-4

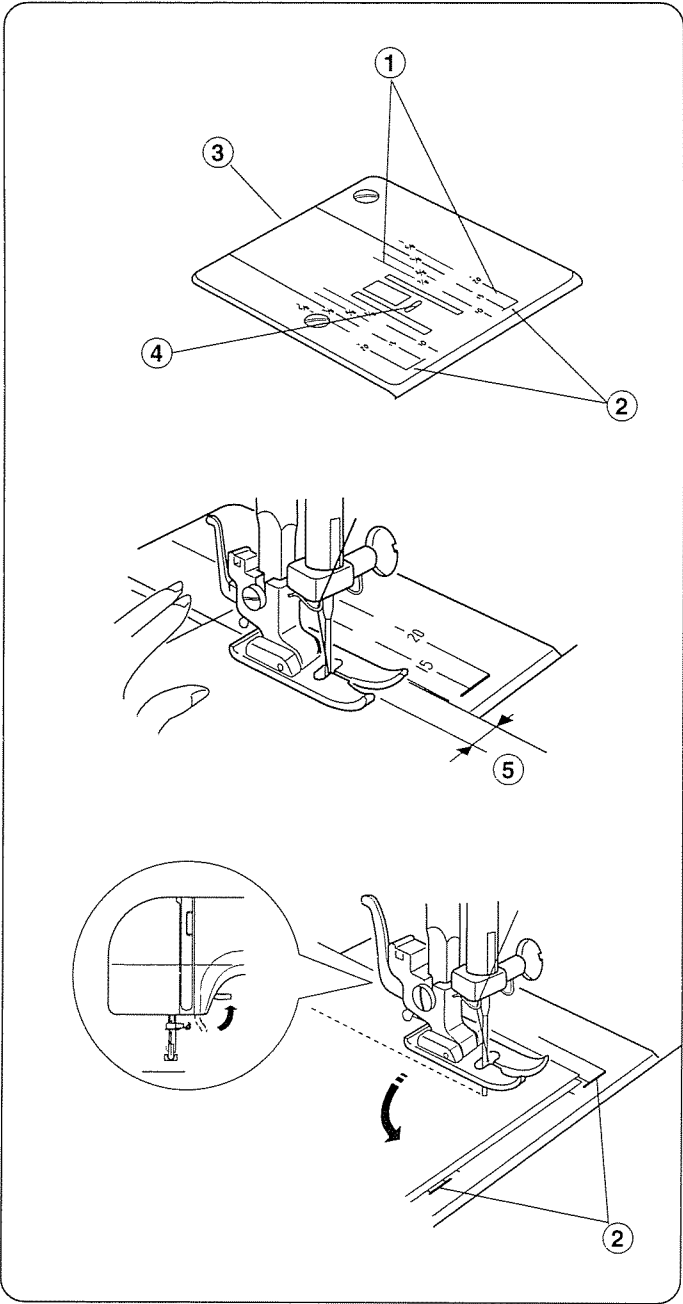


- 1 Raise the presser foot and position the fabric with its edge lining up with a seam guide line on the needle plate.
Lower the needle into the fabric.
Lower the presser foot and smooth the threads toward the back. Depress the foot control.
Gently guide the fabric along the guide line letting the fabric feed by itself.
- 2 For fastening the end of seams, press the reverse stitch button and sew several reverse stitches.
Raise the presser foot and remove the fabric, drawing the threads to the back.
- 3 Draw the threads up and into the thread cutter.
The threads are cut the proper length for starting the next seam.

To Change Sewing Direction

- Stop the machine and turn the handwheel toward you to bring the needle down into the fabric.
Raise the presser foot.
Pivot the fabric around the needle to change sewing direction as desired. Lower the presser foot and continue sewing.





Using the Seam Guides on the Needle Plate

The seam guides on the needle plate help you to measure seam width.

* The numbers indicate the distance between the center needle position and the guide line.

Numbers on the needle plate	10	15	20	3/8"	4/8"	5/8"	6/8"
Distance in centimeters	1.0	1.5	2.0	1.0	1.3	1.6	1.9

- ① Guide lines
- ② Cornering guide
- ③ Needle plate
- ④ Needle plate hole
- ⑤ Seam width from the center needle position

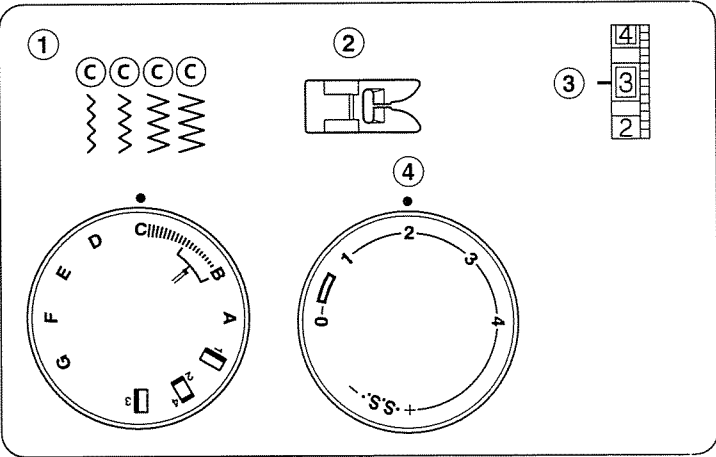
Turning Square Corners

To turn a square corner 1.6 cm (5/8") from the fabric edge. When the fabric edge facing you lines up with the cornering guide as illustrated, stop stitching and lower the needle by turning the handwheel towards you.

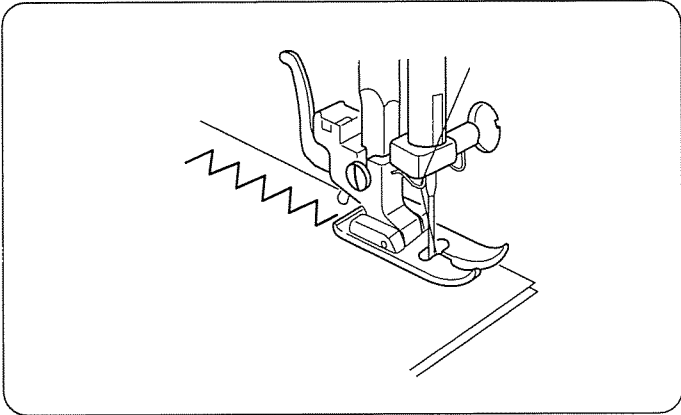
Raise the presser foot and turn the fabric to line the edge with the 1.6 cm (5/8") seam guide. Lower the presser foot and begin stitching in the new direction.

- ② Cornering guide

Zigzag Stitching



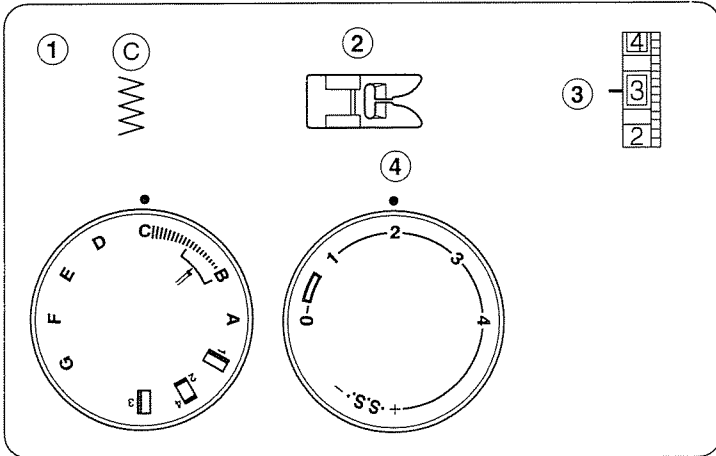
- ① Pattern selector: C
- ② Presser foot: Zigzag foot
- ③ Thread tension: 2-5
- ④ Stitch length: 0.5-4



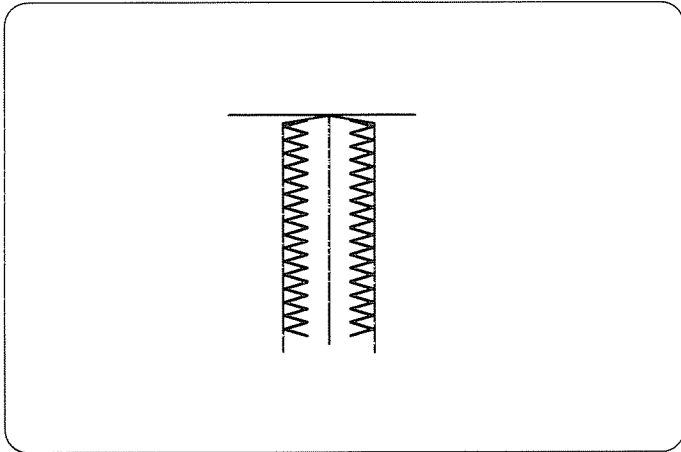
Simple zigzag stitching is widely used for overcasting, sewing on buttons etc.

SECTION 4. UTILITY STITCHING

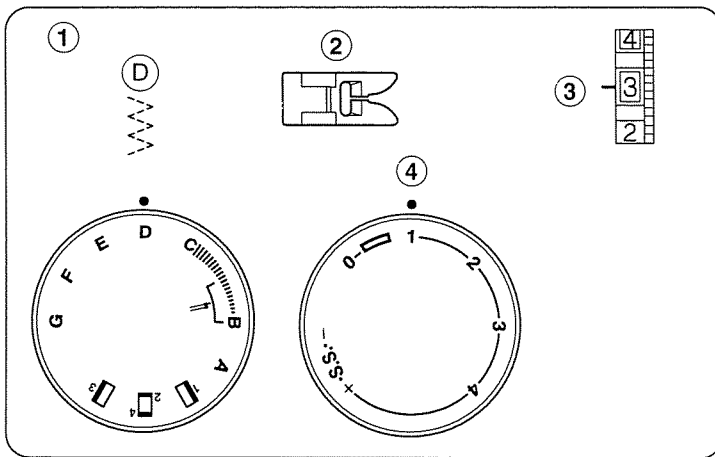
Overcasting



- ① Pattern selector: C
- ② Presser foot: Zigzag foot
- ③ Thread tension: 1-4
- ④ Stitch length: 1-2

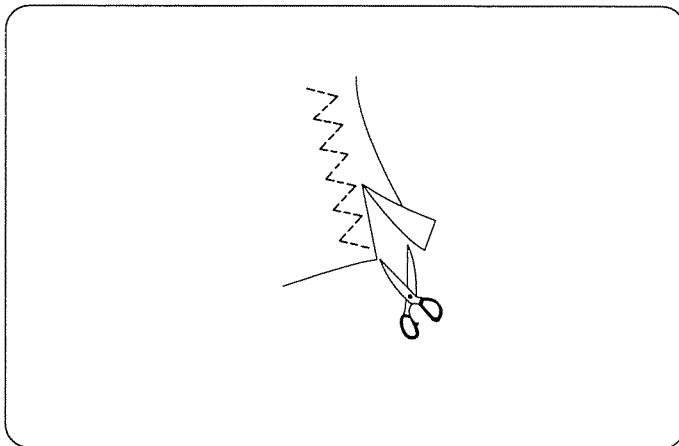


The zigzag stitch is used on the seam allowance to prevent fabric from fraying at raw edges.



Tricot Stitch

- ① Pattern selector: D
- ② Presser foot: Zigzag foot
- ③ Thread tension: 1-4
- ④ Stitch length: 0.5-1.5



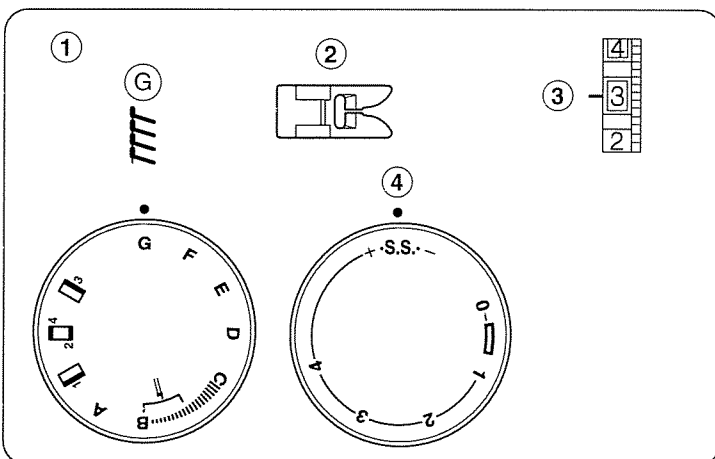
This stitch is used to finish the seam allowance on synthetics and other fabrics that tend to pucker.

Place your fabric to allow a 1.6 cm (5/8") seam.

Trim the seam allowance after sewing.

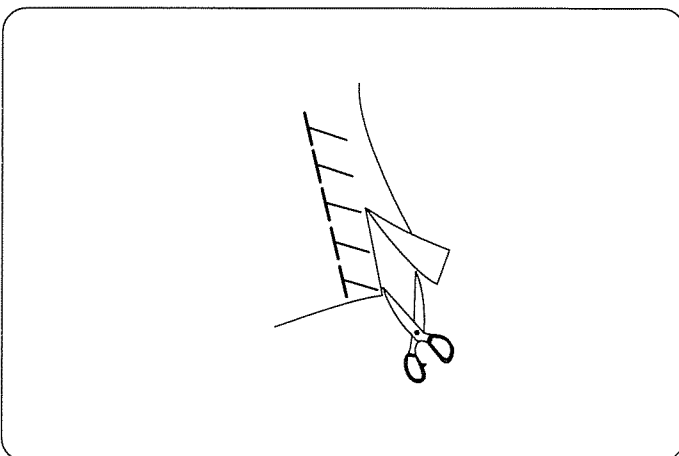
Note : Be careful not to cut the stitches.

It is also handy for darning and mending tears.



Knit Stitch

- ① Pattern selector: G
- ② Presser foot: Zigzag foot
- ③ Thread tension: 1-4
- ④ Stitch length: S.S.

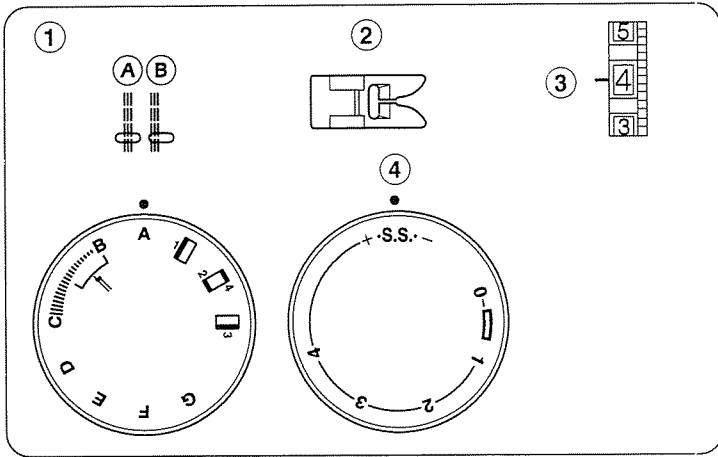


This knit stitch is ideal for sewing swimwear and stretch velour because it provides the greatest amount of elasticity and strength.

Place your fabric to allow a 1.6 cm (5/8") seam.

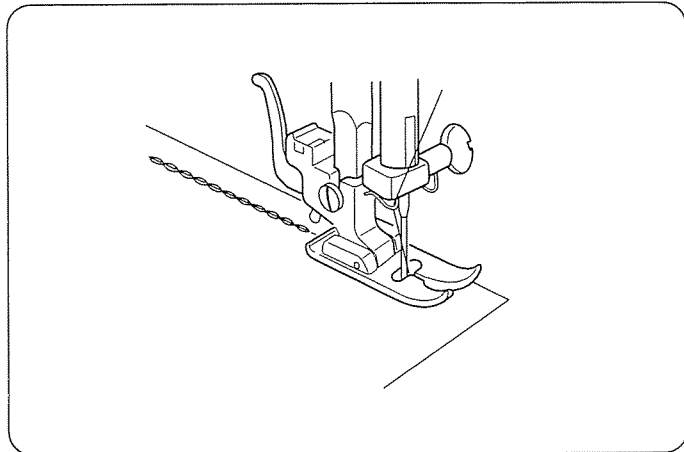
Trim the seam allowance after sewing.

Note : Be careful not to cut the stitches.



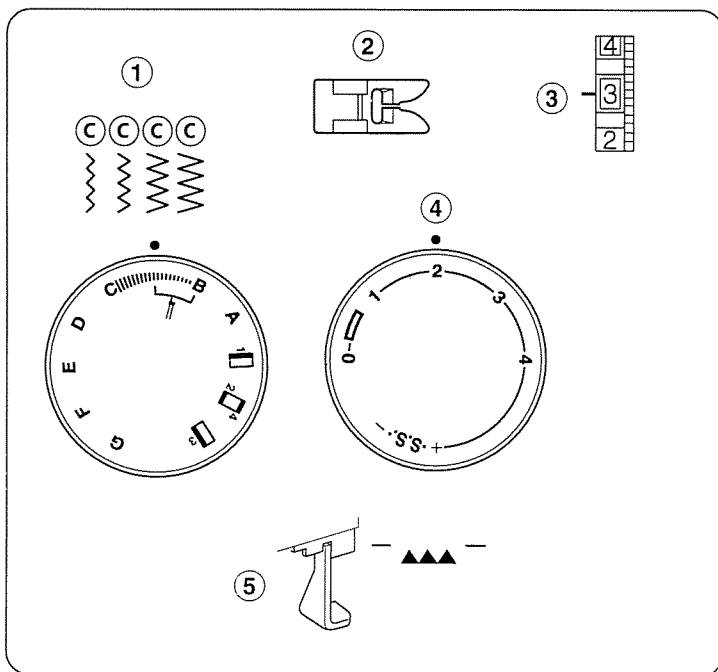
Straight Stretch Stitch

- ① Pattern selector: A or B
- ② Presser foot: Zigzag foot
- ③ Thread tension: 2-6
- ④ Stitch length: S.S.

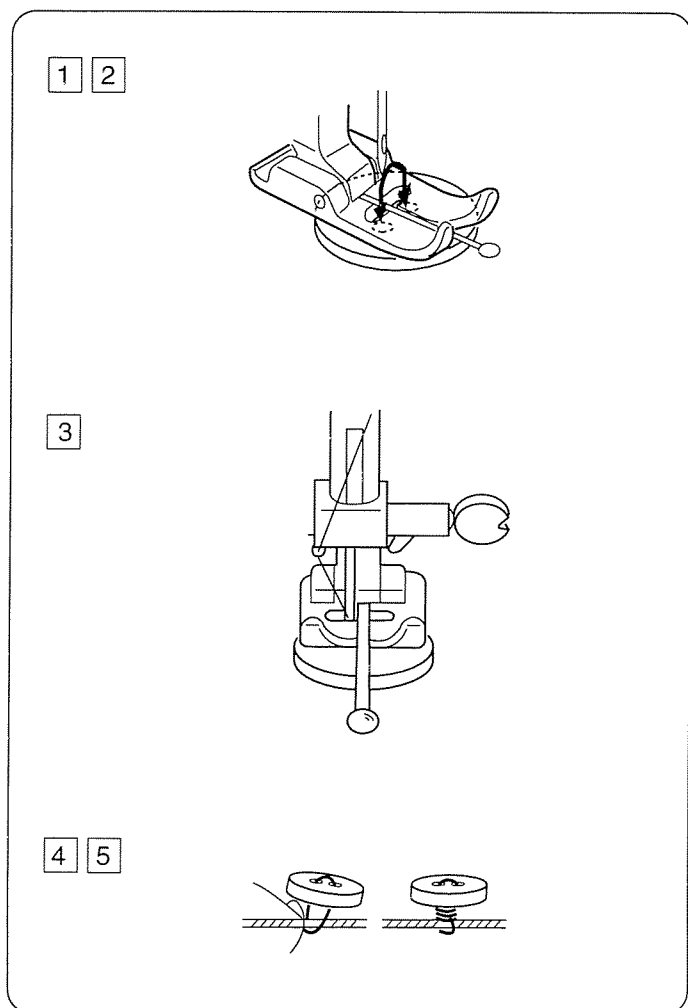


The stitch is sewn with two stitches forward and one stitch backward forming a seam that does not rip easily.

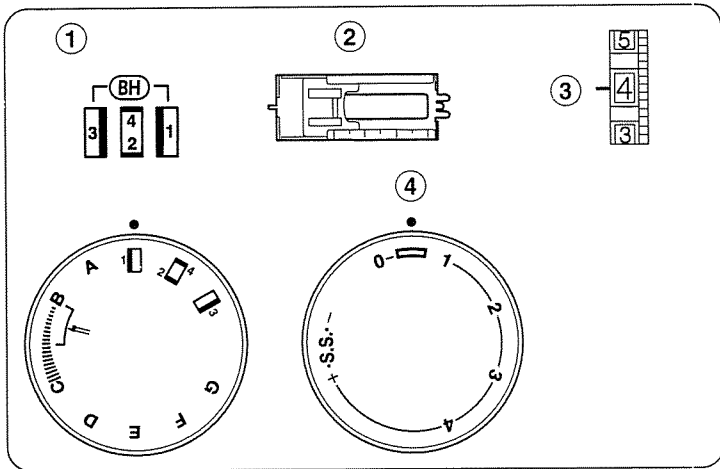
Sewing on Buttons



- ① Pattern selector: C
- ② Presser foot: Zigzag foot
- ③ Thread tension: 1-3
- ④ Stitch length: Any
- ⑤ Feed dog: Dropped



- ① Adjust the stitch width, and turn the handwheel to check if the needle enters into each hole on the button.
- ② Lower the foot to hold the button in place. The holes on the button should align with the slot of the foot.
- ③ A pin can be placed on the foot to form a shank. Make sure to check if the needle enters into both holes on the button. Sew about 10 stitches and cut the needle and bobbin threads, leaving 20cm (8") tail.
- ④ Bring the needle threads between the button and fabric through the holes on the button. Pull the needle threads to pick bobbin threads up to the right side of the fabric. Wind the threads to from a shank and tie them together.
- ⑤ Raise the feed dog after sewing.



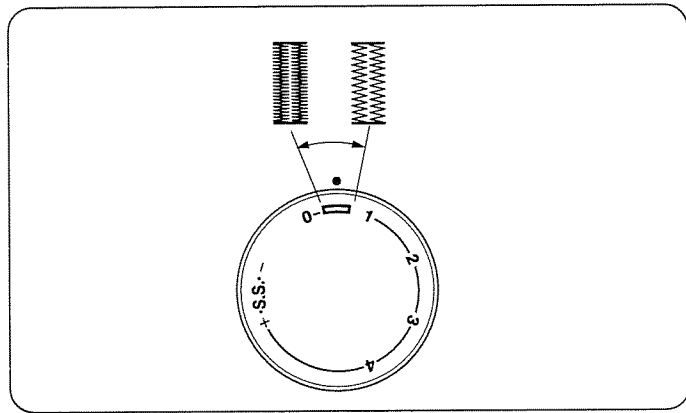
Buttonhole

- ① Pattern selector:
- ② Presser foot: Sliding buttonhole foot
- ③ Thread tension: 1-5
- ④ Stitch length: (0.5-1)

- * Make a test buttonhole on a sample duplicating the fabric, interfacing and seams of the actual garment.
- * Place the button on the fabric sample and mark the top and bottom to determine the position of buttonhole.
- * Use interfacing on stretch fabrics.

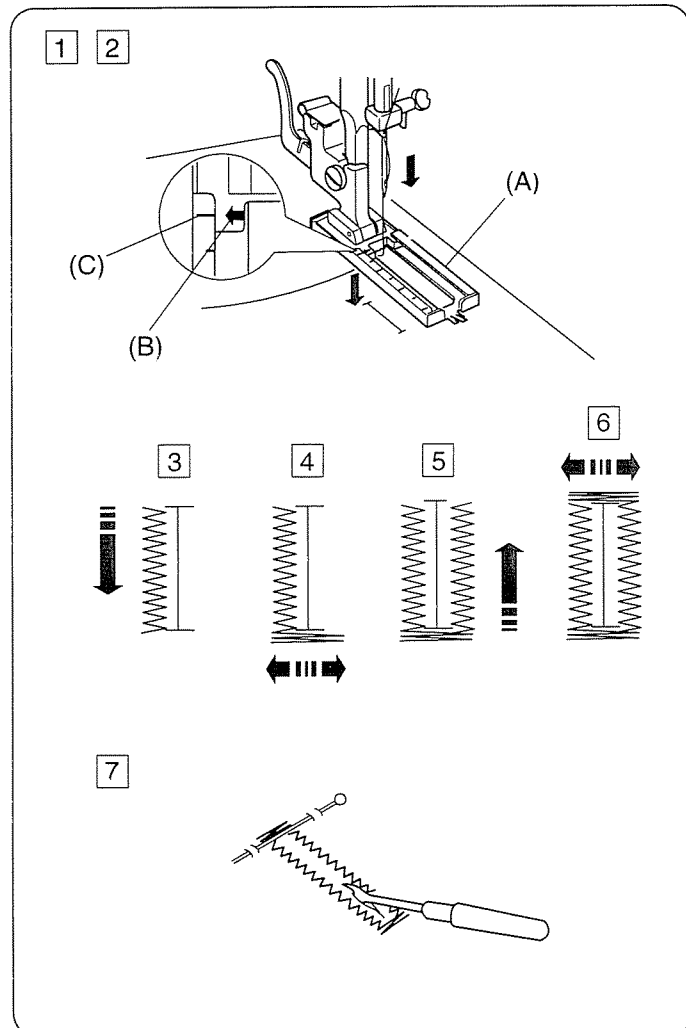
To adjust buttonhole stitch density.

Set the stitch length dial between 0.5 and 1.0 to adjust the buttonhole stitch density.

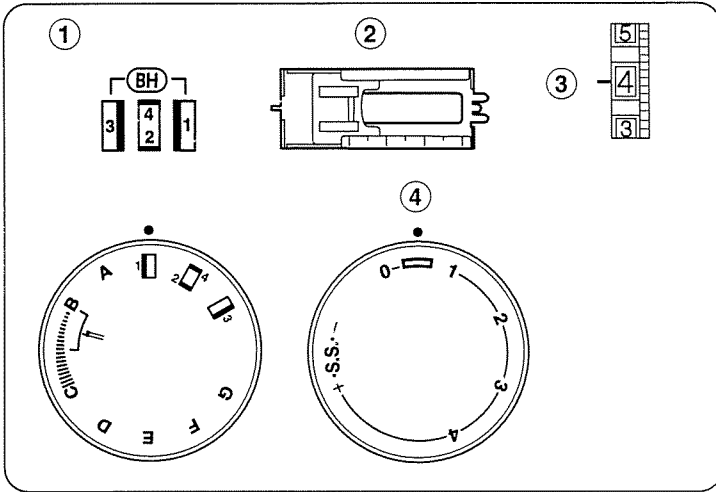


- 1 Carefully mark buttonhole length on fabric. Place the fabric under the foot with the buttonhole marking running toward you.
- 2 Move the slider (A) toward you so that the top mark (C) on the slider meets the start mark (B). Line up the markings on the foot with the top mark on the fabric.

Note: The scale on the slider is engraved in centimeters.

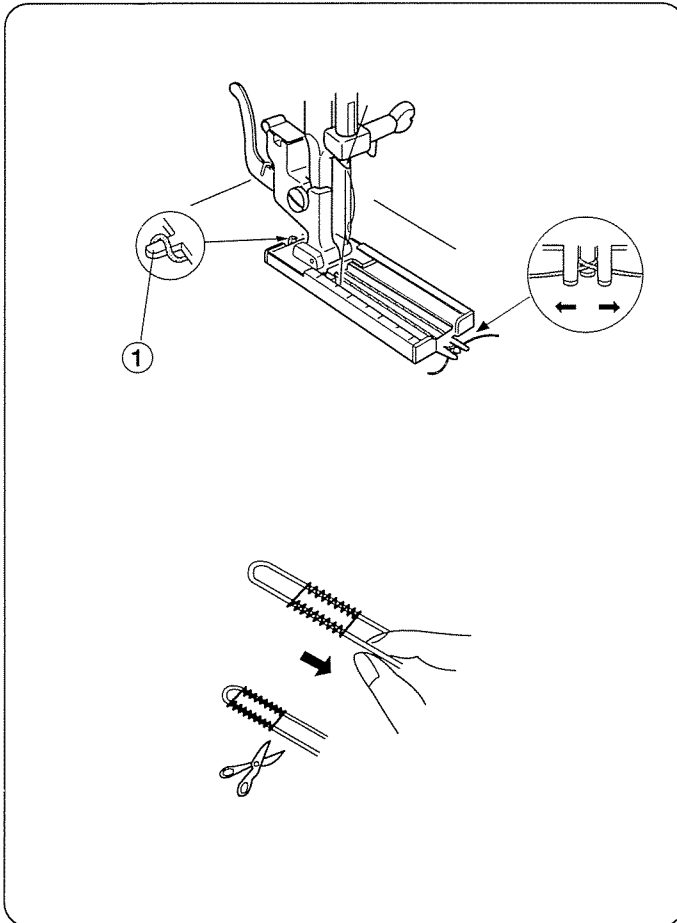


- 3 Set the pattern selector dial at "1". Sew forward until you reach the front marking of your buttonhole. Stop sewing at a left stitch.
- 4 Set the pattern selector dial at "2". Sew 5 stitches. Stop sewing at a right stitch.
- 5 Set the pattern selector dial at "3". Sew until you reach the back marking of the buttonhole. Stop sewing at a right stitch.
- 6 Set the pattern selector dial at "2". Sew a few bartacks and raise the needle from the fabric. Set the stitch length dial to "0" and the pattern selector dial at straight sewing. Sew a few locking stitches.
- 7 Remove the fabric from the machine and cut the sewing thread. Insert a pin inside the bartack. Then cut the opening with a seam ripper. Take care not to cut the stitches.

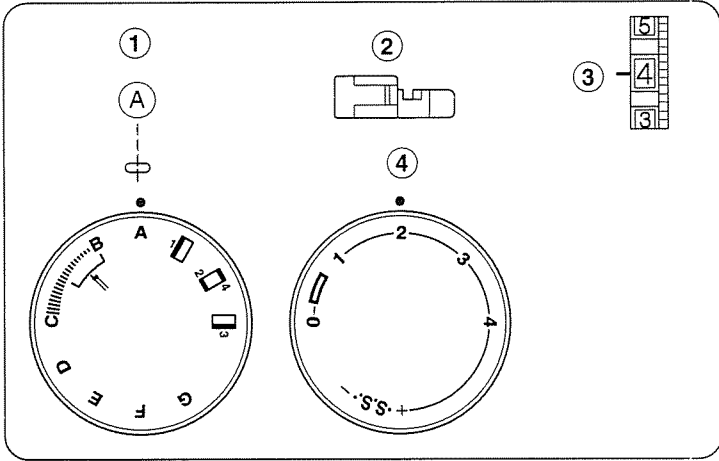


Corded Buttonhole

- ① Pattern selector: 1 → 2 → 3 → 4
- ② Presser foot: Sliding buttonhole foot
- ③ Thread tension: 1 – 5
- ④ Stitch length: (0.5 – 1)

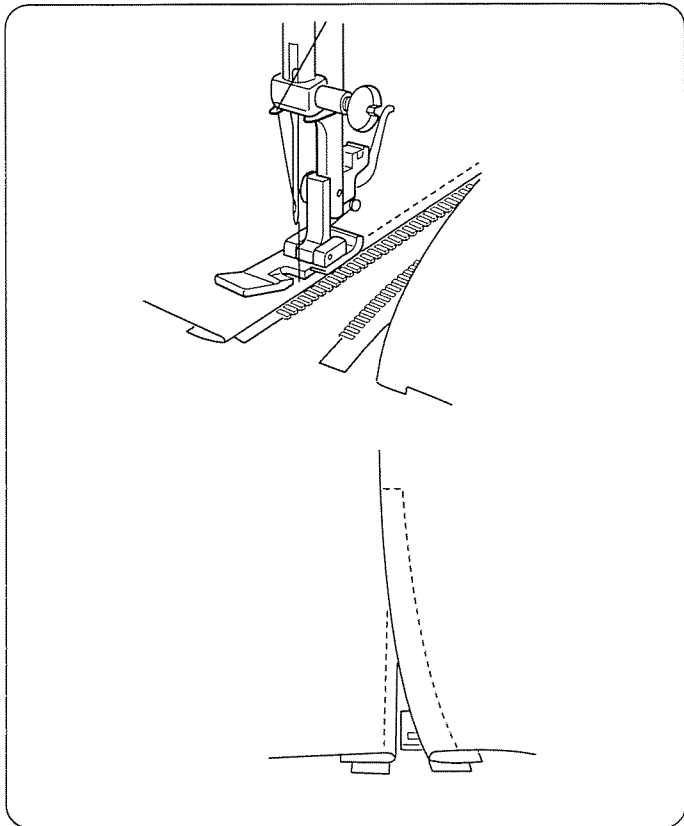


- 1 With the buttonhole foot raised, hook the cord on the cord spur at the back of the buttonhole foot.
 - ① Spur
- 2 Bring the ends toward you under the buttonhole foot until they clear the front end.
- 3 Hook the filler cord into the forks on the front of foot to hold them tight.
- 4 Lower the needle into the garment where the buttonhole will start and lower the foot.
- 5 Depress the foot control gently and sew the buttonhole. Each side of the buttonhole and the bartacks will be sewn over the cord.
- 6 Remove the fabric from the machine and cut the sewing threads.
- 7 Pull the left end of the filler cord to tighten it.
- 8 Thread the end through a darning needle, draw to the wrong side of the fabric and cut.

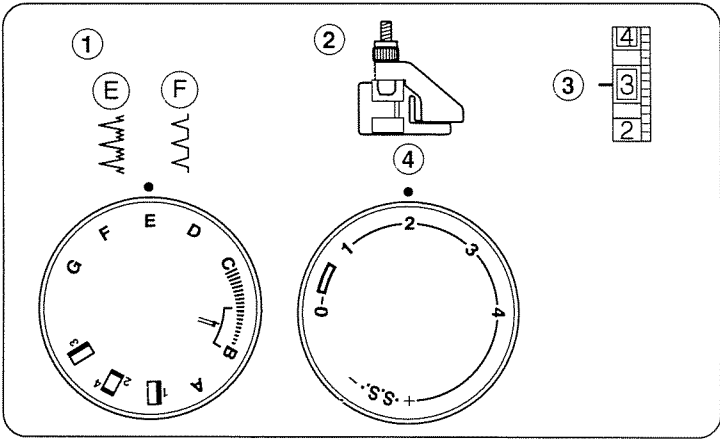


Zipper Application

- ① Pattern selector: A
- ② Presser foot: Zipper foot
- ③ Thread tension: 3 – 6
- ④ Stitch length: 1.5 – 4

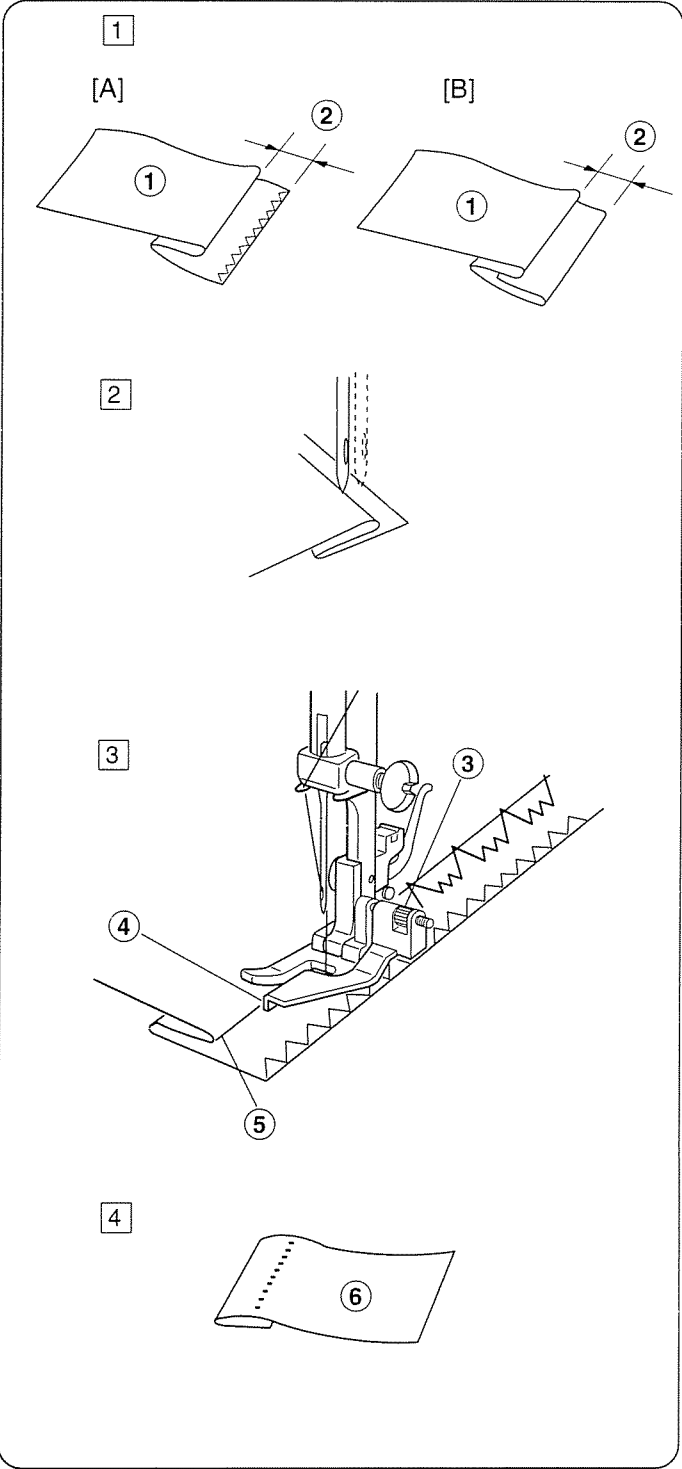


Pin or baste zipper tape to fabric and place it under the foot. Smooth the threads toward the back and lower the foot. To sew the left side of the zipper, guide the zipper teeth along the edge of the foot and stitch through the garment and zipper tape. Turn the fabric and sew the other side of the zipper in the same way as you did the left side.



Blind Stitch Hemming

- ① Pattern selector: E or F
- ② Presser foot: Blind hem foot
- ③ Thread tension: 2-4
- ④ Stitch length: 1-3

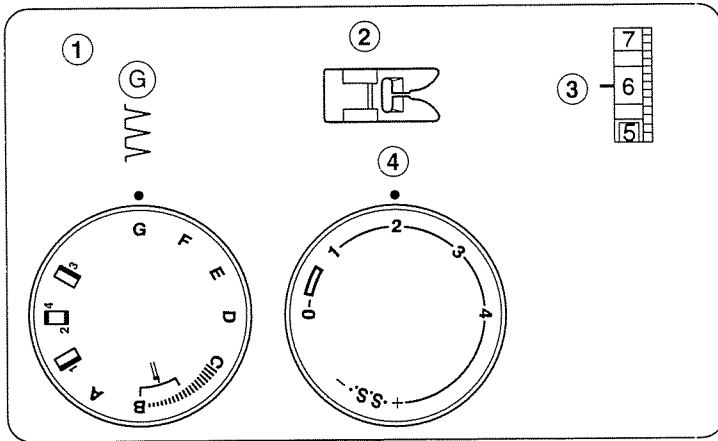


- ① Fold up the hem and fold it back to from a 0.4 to 0.7cm (1/4") allowance as illustrated.
 - ① Wrong side of the fabric
 - ② 0.4 to 0.7 cm (1/4")
 - [A] Heavy weight fabrics
 - [B] Fine or medium weight fabrics
- ② Position the fabric so that the needle just pierces the edge of the fold when the needle swings to the extreme right. Lower the presser foot.
- ③ Turn the guide screw to adjust the guide aligning with the folded edge. Sew along the folded edge guiding the fabric so the needle catches the folded edge.
 - ③ Guide screw
 - ④ Guide
 - ⑤ Folded edge
- ④ Open the fold flat.
 - ⑥ Right side of the fabric

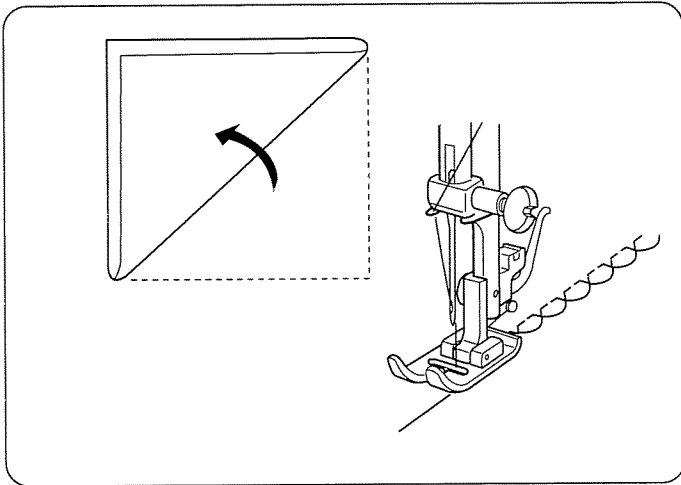
* If the needle drops far left, the stitches will show on the right side of the fabric.

SECTION 5. DECORATIVE STITCHING

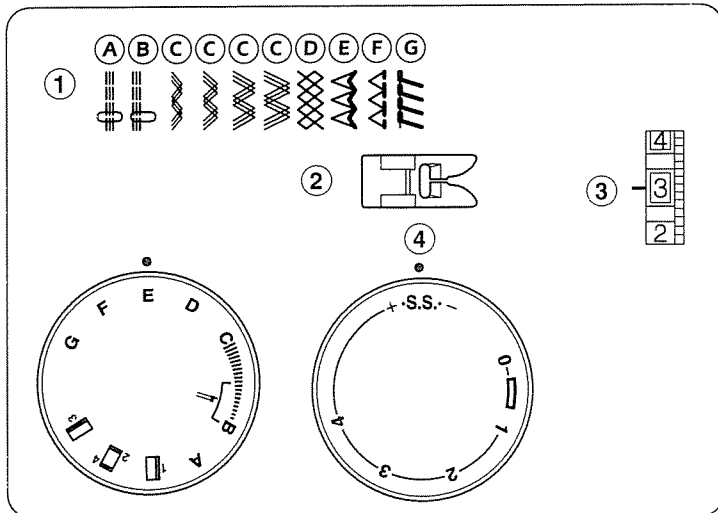
Shell Tuck



- ① Pattern selector: G
- ② Presser foot: Zigzag foot
- ③ Thread tension: 6-8
- ④ Stitch length: 2-3

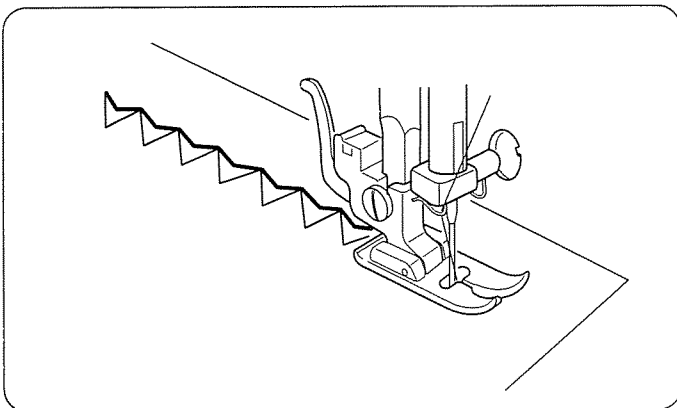


Place the folded edge along the slot of foot.
The needle should fall off the edge of the fabric on the right forming a tuck.



Stretch Stitch Patterns

- ① Pattern selector: A-G
- ② Presser foot: Zigzag foot
- ③ Thread tension: 1-4
- ④ Stitch length: S.S.

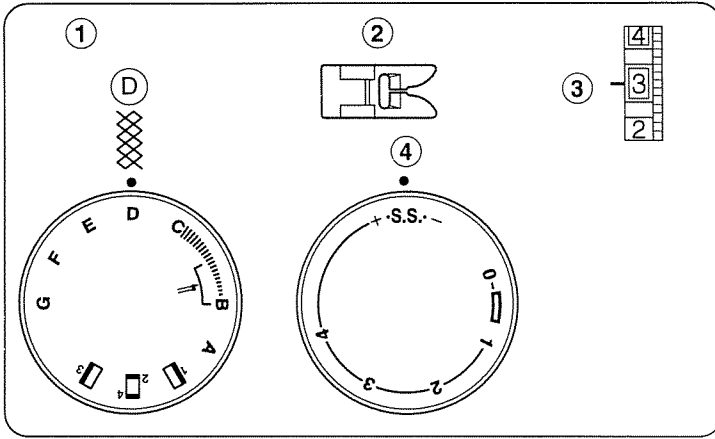


If forward and reverse feeds become unbalanced due to the type of fabric, adjust the balance by turning the stitch length dial as follows:

If patterns are compressed, turn the dial toward " + ".

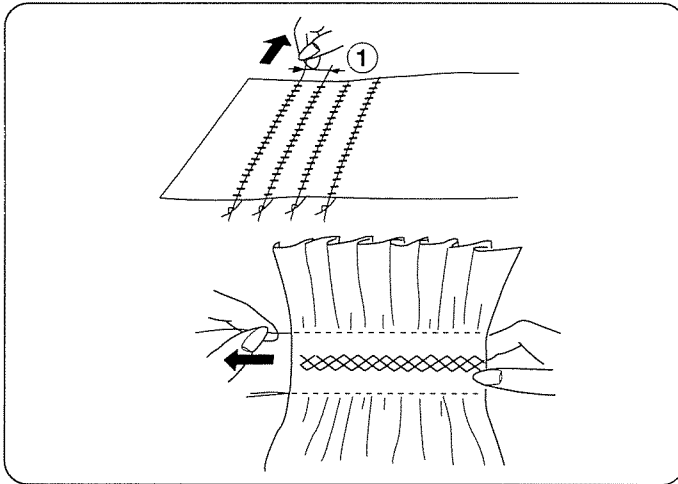
If patterns are drawn, turn the dial toward " - ".

(See page 12)



Smocking

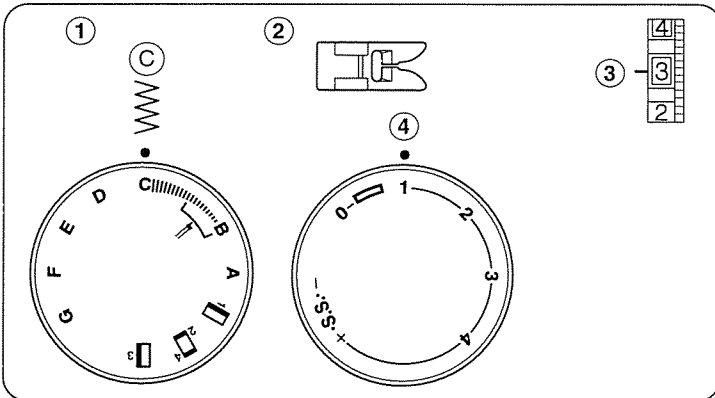
- ① Pattern selector: D
- ② Presser foot: Zigzag foot
- ③ Thread tension: 1-4
- ④ Stitch length: S.S.



With the stitch length at "4", sew straight stitching lines 1 cm (3/8") apart, across the area to be smocked. Knot the threads along one edge. Pull the bobbin threads and distribute the gathers evenly. Secure the threads at the other end. Sew the decorative stitch between the gathering stitches. Pull out the gathering stitches.

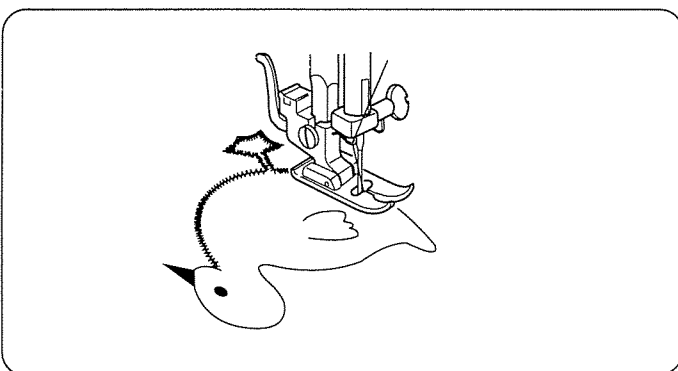
Note : Loosen the needle thread tension to make gathering easier.

- ① 1 cm (3/8")

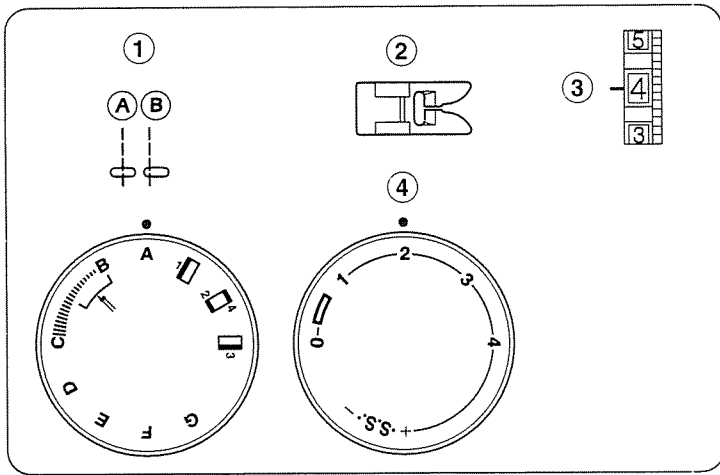


Applique

- ① Pattern selector: C
- ② Presser foot: Zigzag foot
- ③ Thread tension: 1-4
- ④ Stitch length: 0.5-1

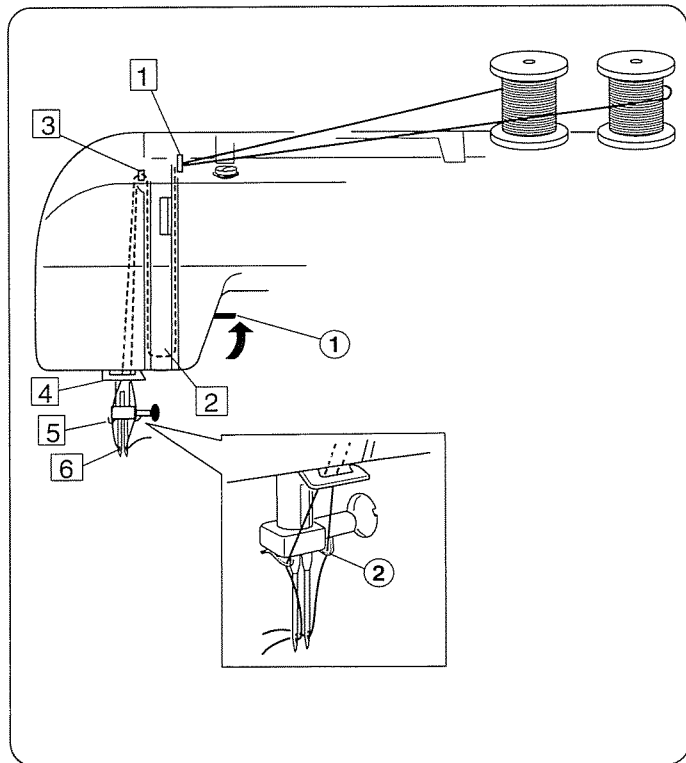


Baste (or fuse with iron-on fabric joiner) applique pieces on the fabric. Stitch around the applique making sure the needle falls along the outer edge of the applique. When sewing corners, lower the needle down into the fabric. Raise the presser foot and pivot fabric to the right or left.



Twin Needle Sewing

- ① Pattern selector: A or B (↑)
- ② Presser foot: Zigzag foot
- ③ Thread tension: 2-6
- ④ Stitch length: 1.5-4



Cautions :

- * Turn off the power switch before changing the needle.
- * When sewing with the twin needle, test the stitches on a scrap fabric before sewing on the actual fabrics.

1. Draw both threads from the spools and pass them through the points from 1 to 6.
Make sure not to tangle the two strings of thread.
- ① Presser foot lifter
2. The threading paths from 1 to 4 are the same as single needle.
3. Slip one of the threads into the needle bar thread guide on the left, and the other on the right.
- ② Thread guide
4. Thread the needles from front to back.
- * When changing the sewing direction, raise the needles and turn the fabric.
- * The needle threader cannot be used.

SECTION 6. CARE OF YOUR MACHINE

Dismantling and Assembling

Hook Race Unit

Note : Turn off the power switch and/or unplug the machine.

To dismantle hook race unit:

Raise the needle to its highest position and open the hook cover. Open the hinged latch of bobbin case and take it out of the machine.

Open the hook race ring holders and remove the hook race ring. Remove the hook.

* Clean the hook race with a brush and a soft dry cloth.

- ① Bobbin case
- ② Hook race ring holder
- ③ Hook race ring
- ④ Hook
- ⑤ Hook race

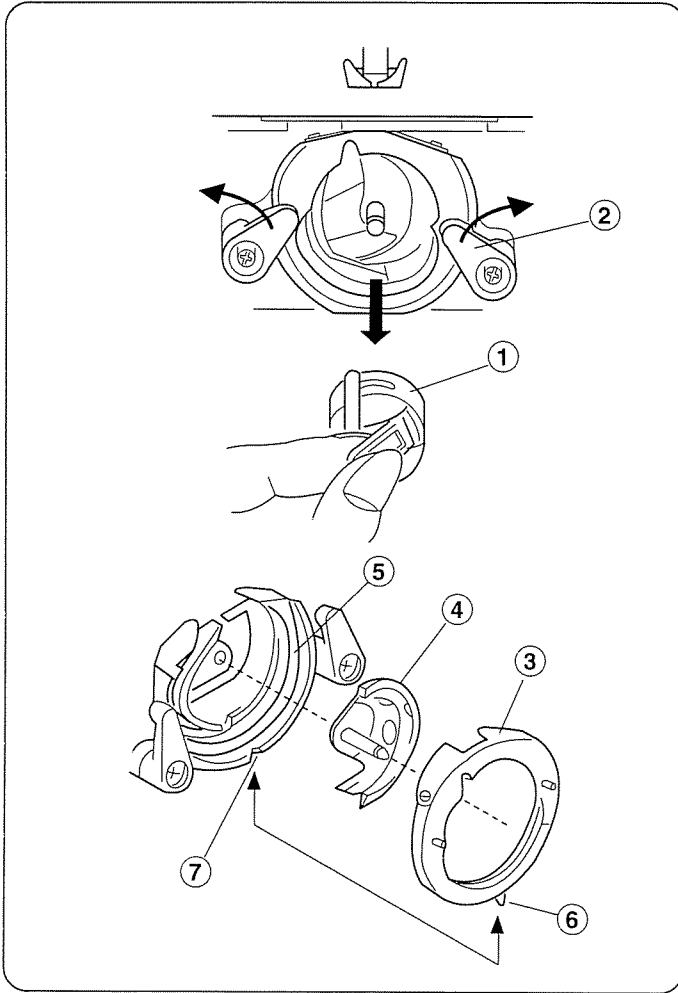
To assemble hook race unit:

Hold the hook by the center pin and fit it carefully back into the hook race, forming a perfect circle with the shuttle driver.

Attach the hook race ring making sure the bottom pin fits into the notch.

Lock the hook race ring by turning the holders back into position. Insert the bobbin case.

- ⑥ Pin
- ⑦ Notch

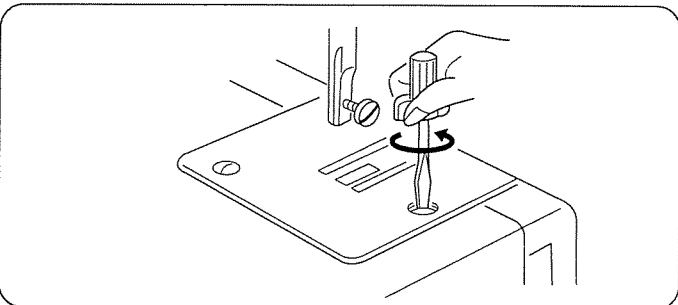


Cleaning the Feed Dog

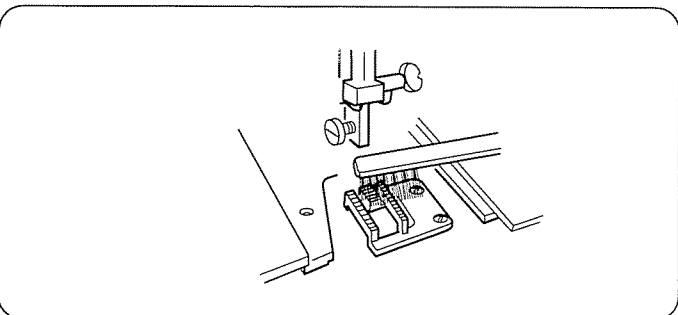
Note : Turn off the power switch and/or unplug the machine before cleaning the feed dog.

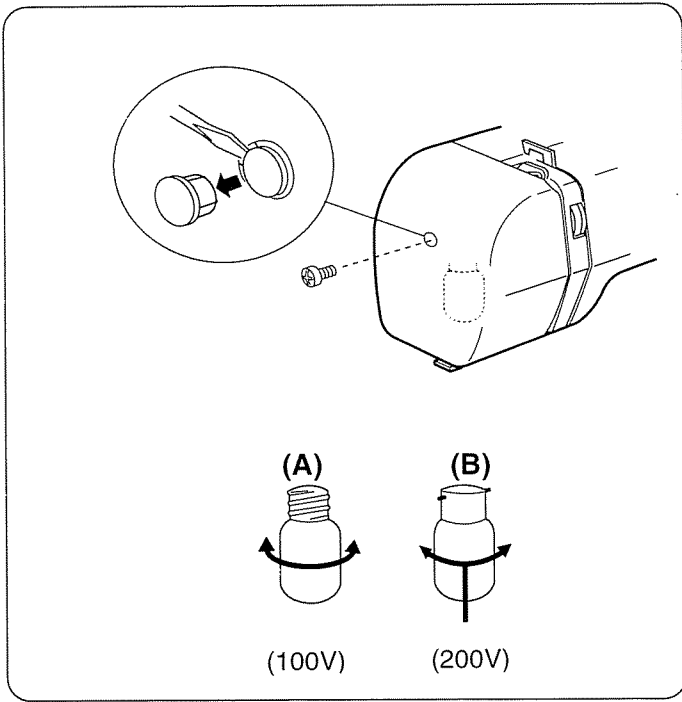
Remove the needle and the presser foot.

Remove the needle plate set screw and remove the needle plate.



With a brush, clean out dust and lint clogging the feed dog teeth. Reset the needle plate.





Sewing Light

The sewing light is located behind the face plate.

To change the bulb, take the face plate off the sewing machine by removing the setscrew.

* Unplug the power supply before changing the bulb.

* Do not dismantle the machine other than explained in this manual.

- (A)
- To remove Turn to the left.
 - To replace Turn to the right.
- (B)
- To remove Push and twist to the left.
 - To replace Push and twist to the right.

Warning : The bulb could be HOT. Protect your fingers when handle it.

Troubleshooting

Condition	Cause	Reference
The needle thread breaks.	<ol style="list-style-type: none"> 1. The needle thread is not threaded properly. 2. The needle thread tension is too tight. 3. The needle is bent or blunt. 4. The needle is incorrectly inserted. 5. The fabric is not being drawn to the back when sewing is finished. 6. The thread is either too heavy or too fine for the needle. 	<p>See Page 9</p> <p>See Page 11</p> <p>See Page 6</p> <p>See Page 6</p> <p>See Page 14</p> <p>See Page 6</p>
The bobbin thread breaks.	<ol style="list-style-type: none"> 1. The bobbin thread is not threaded properly in the bobbin case. 2. Lint has collected in the bobbin case. 3. The bobbin is damaged and doesn't turn smoothly. 	<p>See Page 8</p> <p>Clean the bobbin case.</p> <p>Exchange bobbin.</p>
The needle breaks.	<ol style="list-style-type: none"> 1. The needle is incorrectly inserted. 2. The needle is bent or blunt. 3. The needle clamp screw is loose. 4. The tension of the needle thread is too tight. 5. The fabric is not drawn to the back when sewing is finished. 6. The needle is too fine for the fabric being sewn. 7. The pattern selector dial had been turned while the needle was in the material. 	<p>See Page 6</p> <p>See Page 6</p> <p>See Page 6</p> <p>See Page 11</p> <p>See Page 14</p> <p>See Page 6</p> <p>See Page 12</p>
Skipped stitches	<ol style="list-style-type: none"> 1. The needle is incorrectly inserted. 2. The needle is bent or blunt. 3. The needle and/or threads are not suitable for the work being sewn. 4. A BLUE TIPPED needle is not being used for sewing stretch, very fine fabrics and synthetics. 5. The needle thread is not threaded properly. 	<p>See Page 6</p> <p>See Page 6</p> <p>See Page 6</p> <p>See Page 6</p> <p>See Page 9</p>
Seam puckering	<ol style="list-style-type: none"> 1. The needle thread tension is too tight. 2. The machine is not threaded correctly. 3. The needle is too heavy for the fabric being sewn. 4. The stitches are too coarse for the fabric being new line sewn. <p>* When sewing extremely light weight materials, place a sheet of paper underneath the fabric.</p>	<p>See Page 11</p> <p>See Page 9</p> <p>See Page 6</p> <p>Make the stitches denser.</p>
Stitches form loops below the work	<ol style="list-style-type: none"> 1. The needle thread tension is too loose. 2. The needle is either too heavy or too fine for the thread. 	<p>See Page 11</p> <p>See Page 6</p>
The cloth is not feeding smoothly.	<ol style="list-style-type: none"> 1. The feed dog is packed with lint. 2. The stitches are too fine. 	<p>See Page 27</p> <p>Make the stitches coarser.</p>
The machine does not work.	<ol style="list-style-type: none"> 1. The machine is not plugged in. 2. Thread is caught in the hook race. 3. Handwheel has been disengaged for bobbin winding. 	<p>See Page 4</p> <p>See Page 27</p> <p>See Page 8</p>
The machine does not run smoothly and is noisy.	<ol style="list-style-type: none"> 1. Threads have been caught in hook mechanism. 2. The feed dog is packed with lint. 	<p>See page 27</p> <p>See Page 27</p>

