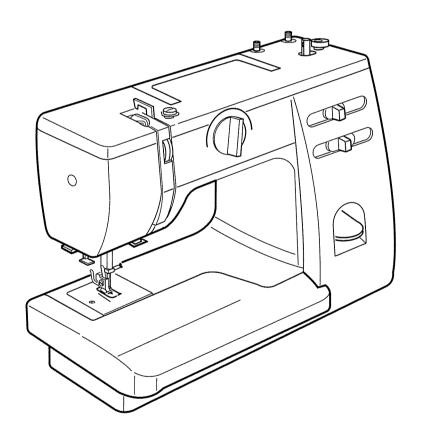
INSTRUCTION BOOK



Model 4 0 5

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic safety precautions should always be followed, including the followings:

Read all instructions before using this appliance.

DANGER—To reduce the risk of electric shock:

- 1. An appliance should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning.
- 2. Always unplug before replacing a sewing machine bulb. Replace bulb with same type rated 15 Watts.

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 sewing machine is used by or near children.
- 2. Use this appliance only for its intended use as described in this owner's manual.

 Use only attachments recommended by the manufacturer as contained in this owner's manual.
- 3. Never operate this sewing 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 this sewing machine to the nearest authorized dealer for examination, repair, electrical or mechanical adjustment.
- 4. Never operate the appliance with any air opening blocked. Keep ventilation openings of this 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 the 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 this sewing machine off ("0") when making any adjustment in the needle area, such as threading the needle, changing the needle, threading the bobbin or changing the presser foot, and the like.
- 15. Always unplug this sewing machine from the electrical outlet when removing covers, lubricating, or when making any other adjustments mentioned in this owner's manual.

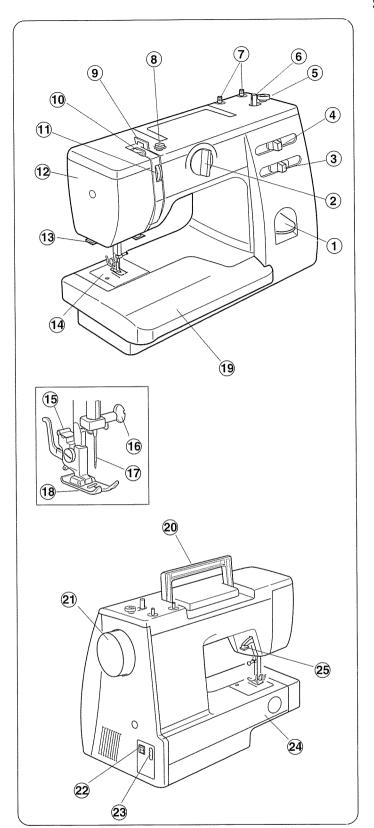
SAVE THESE INSTRUCTIONS

The design and specifications are subject to change without a prior notice.

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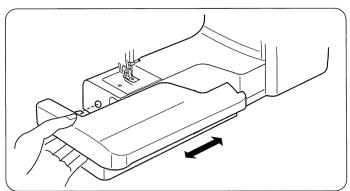


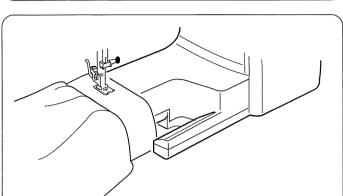
SECTION 1. ESSENTIAL PARTS

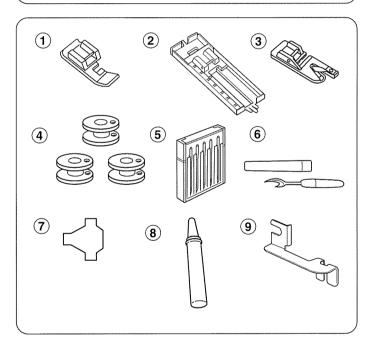
Name of Parts

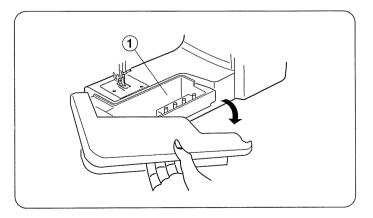
- 1 Reverse stitch button
- 2 Pattern selector dial
- 3 Stitch width control
- 4 Stitch length control
- 5 Bobbin winder stopper
- 6 Bobbin winder spindle
- 7 Spool pins
- 8 Bobbin winder thread guide
- 9 Thread guide
- 10 Thread take-up lever
- 11 Thread tension dial
- 12 Face plate
- 13 Thread cutter
- 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 design and 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

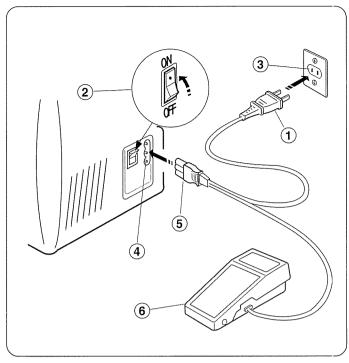
Standard Accessories

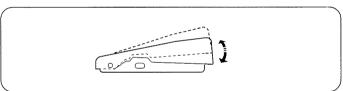
- (1) Zipper foot
- Sliding buttonhole foot
- (3) Hemmer foot
- (4) Bobbins
- (5) Set of needles
- 6 Seam ripper
- (7) screwdriver
- (8) Oil
- 9 Hem guide

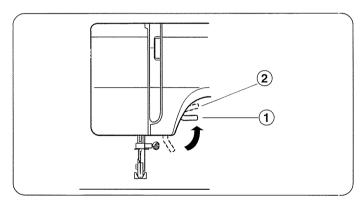
Accessories Storage Box

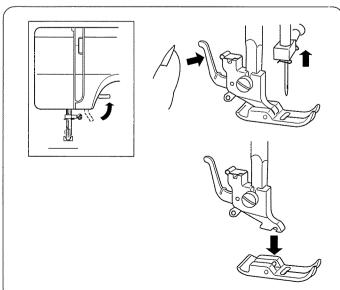
Sewing accessories are conveniently located in the extension table.

1 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

Operating Instruction:

The symbol "0" on a switch indicates the "off" position of a switch. For appliances with a polarized plug (one blade wider than the other): To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If it does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in

Foot controller Model YC-482J-1 or TJC-150 is used with sewing machine Model 405.

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 contorol, 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.

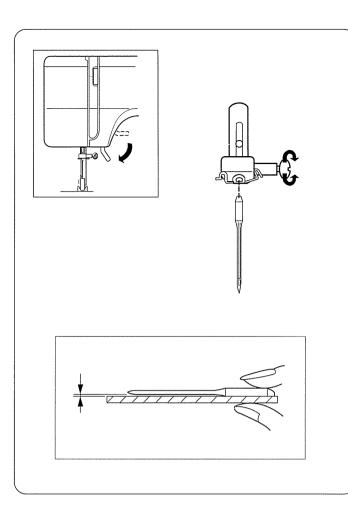
Press the lever on the back of the foot holder.

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.

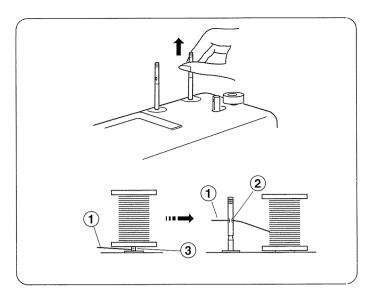
To check the needle

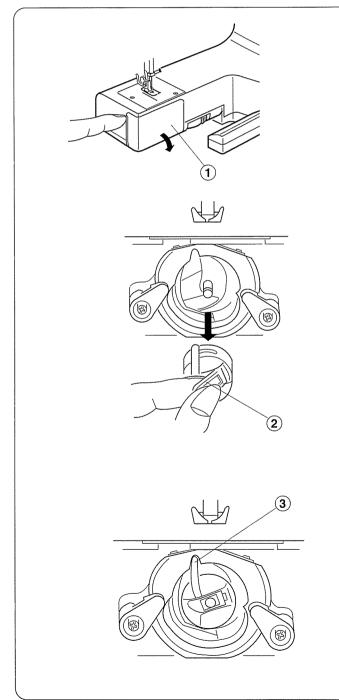
Place the flat side of the needle on something flat (needle plate, glass etc.). The clearance between the needle and flat surface should be consistent. Never use a bent or blunt needle.

	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

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.

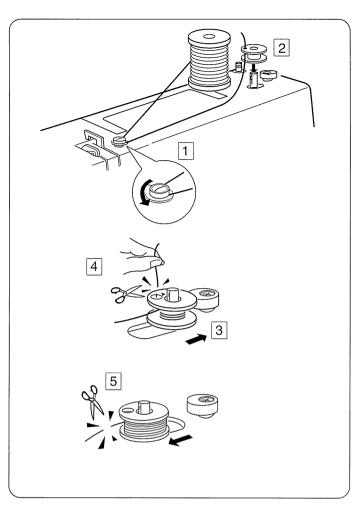
1 Hook cover

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

- Draw the thread from spool.

 Guide the thread around the bobbin winder thread guide.
- Insert the thread through the hole in the bobbin from the inside to the outside.

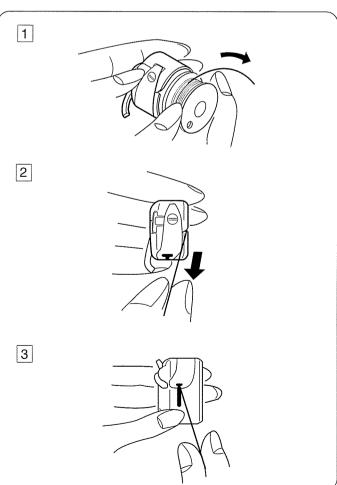
 Put the bobbin on the bobbin winder spindle.
- 3 Push it to the right.
- With the free end of the thread held in your hand, depress the foot control.

 Stop the machine when the bobbin has made a few turns, and cut the thread close to the hole on the bobbin.
- 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.

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

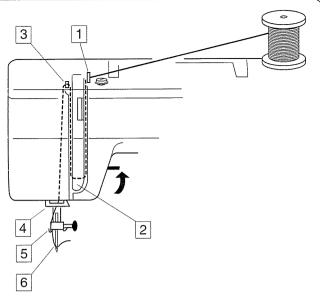


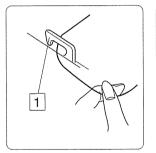
Threading Bobbin Case

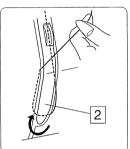
- Place the bobbin into the bobbin case.

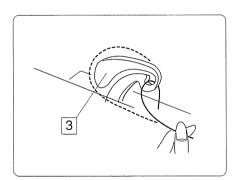
 Make sure the thread unwinds in the direction of arrow.
- Pull the thread into the bobbin case slot.

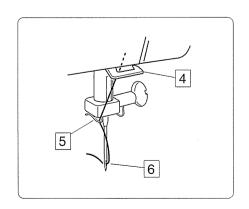
- Draw the thread under the tension spring and into the delivery eye.
 - * Leave about 10 cm (4") of free thread.











Threading the Machine

Raise the take—up lever to its highest position by turning the handwheel toward you.

Raise the presser foot.

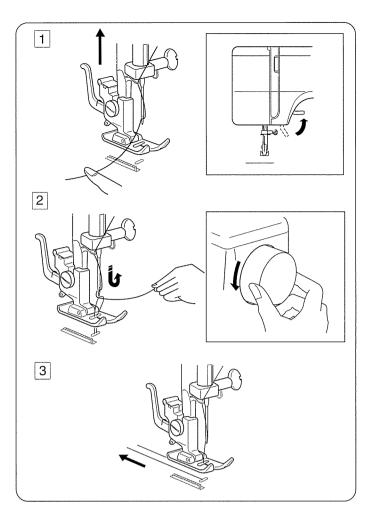
Place a spool on the spool pin as shown, with thread coming from back of the spool.

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

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

- Then draw the thread down and slip it into the lower thread quide.
- Draw the thread down and slip it into needle bar thread guide on the left.
- 6 Thread the needle eye from front to back.

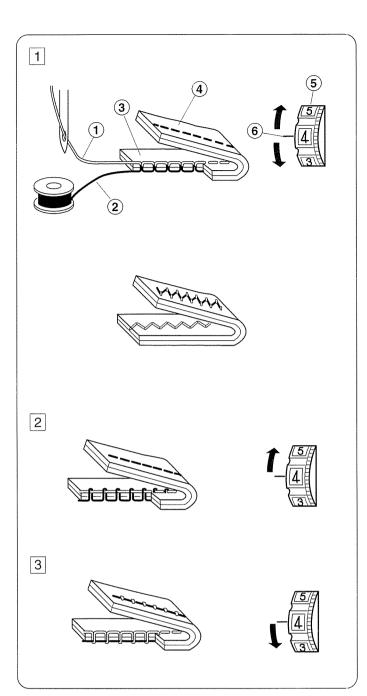
Note: You may want to cut the end of thread with sharp scissors for easier needle threading.



Drawing Up Bobbin Thread

- 1 Raise the presser foot and hold the needle thread lightly with your left hand.
- Turn the hand wheel one complete turn toward you and raise the needle to its highest position.

 Pull the needle thread to pick up a loop of the bobbin thread.
- 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 other sewing conditions.

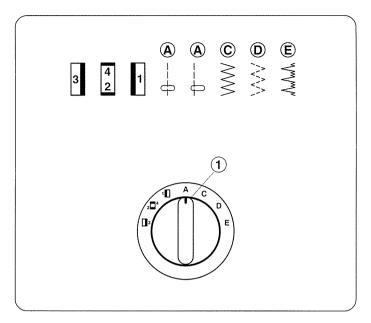
- * The ideal straight stitch has threads looked between two layers of fabric, as illustrated (magnifies to show detail).
- * For an ideal zigzag stitch, the bobbin thread does not show on the right side (top side) of the fabric, and the needle thread shows slightly on the wrong side (bottomside) of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

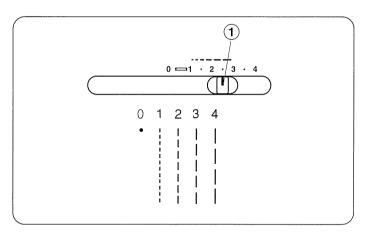
The needle thread (top thread) will appear on the wrong side (bottom side) of the fabric......Tighten the needle thread tension by moving the dial to a higher number.



Pattern Selector Dial

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

Setting mark

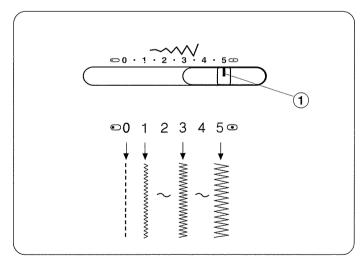


Stitch Length Control

Slide the stitch length control to set the setting mark at the desired stitch length.

The higher the number, the longer the stitch length

- (1) Setting mark
- " is the recommended setting for buttonhole stitching.
- Adjust the stitch length control in the 0.5–4 range when you sew the zigzag stitch.



Stitch Width Control

Slide the stitch width control to set the setting mark at the desired stitch width.

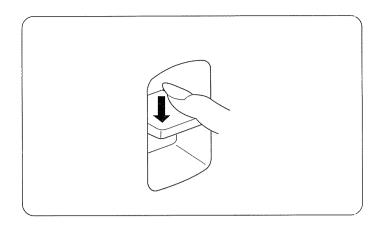
The higher the number, the wider the stitch width

Setting mark

When the stitch width is narrow, the right side of the pattern is cut off.

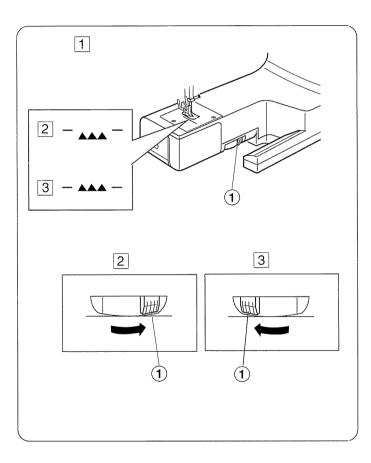
(Example:Pattern E)
Width [5] Width [3]

Note: Raise the needle above the fabric, when you move the stitch width control.



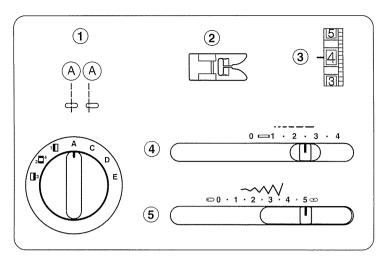
Reverse Stitch Button

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



Dropping the Feed Dog

- 1 Remove the extension table.
 Raise the presser foot.
- To drop the feed dog, push the lever to the right .
 - 1 Drop feed lever
- To raise the feed dog, push the lever to the left.
 - * 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

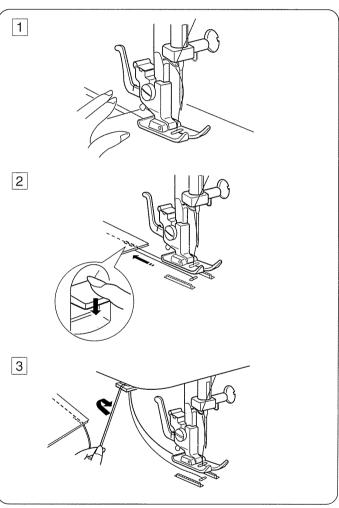
Straight Stitch Sewing

(1) Pattern selector: A

2 Presser foot: Zigzag foot3 Thread tension: 2–6

(4) Stitch length: 1.5–4

(5) Stitch width: • (0) or • (5)



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.

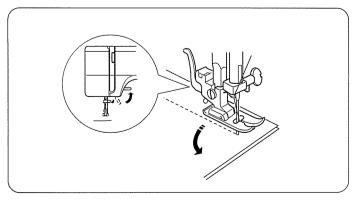
Gently guide the fabric along the guide line letting the fabric feed by itself.

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.

Draw the threads up and into the thread cutter.

The threads are cut the proper length for starting the next seam.

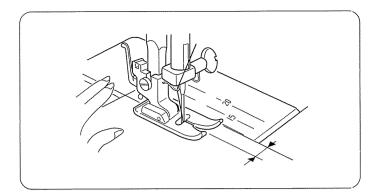


To Change Sewing Direction

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.

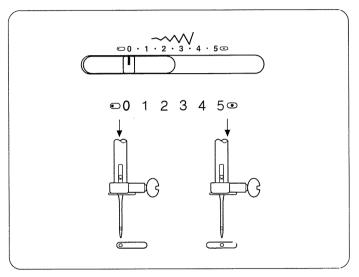


Seam Guides Line

The numbers on the needle plate indicate the distance between the center needle position and the line.

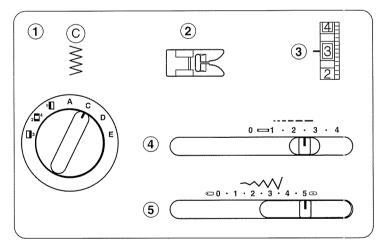
The numbers in front are millimeters.

The numbers in back are fractions of an inch.



Variable Needle Position

When the straight stitch (pattern A) is selected, you can move the needle drop position between center and left by sliding the stitch width control.



Zigzag Stitching

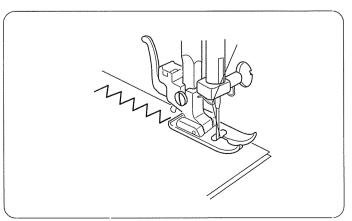
1 Pattern selector: C

2 Presser foot: Zigzag foot

Thread tension: 2–5

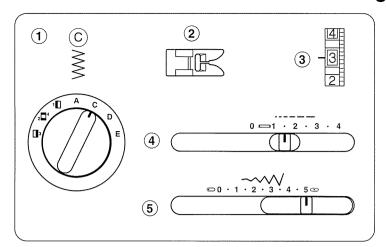
4 Stitch length: 0.5-4

5 Stitch width: 5



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

SECTION 4. UTILITY STITCHING



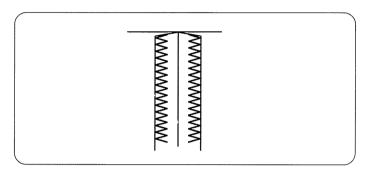
Overcasting

1 Pattern selector: C

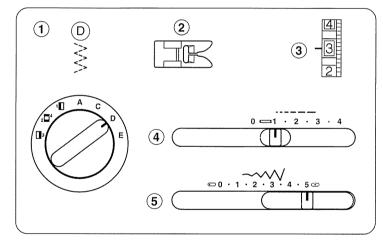
2 Presser foot: Zigzag foot

Thread tension: 1–4Stitch length: 1–2

Stitch width: 5



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



Tricot Stitch

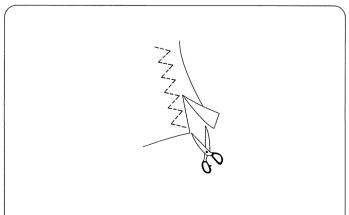
1 Pattern selector: D

2 Presser foot: Zigzag foot

3 Thread tension: 1–4

4 Stitch length: 0.5–1.5

5 Stitch width: 5



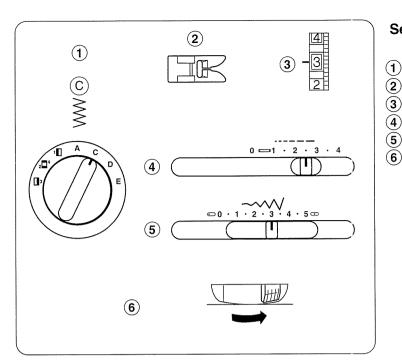
This stitch is used to finish the raw edge on synthetics and other fabrics that tend to pucker.

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.



Sewing on Buttons

1 Pattern selector: C

(2) Presser foot: Zigzag foot

Thread tension:

1–3

Stitch length:

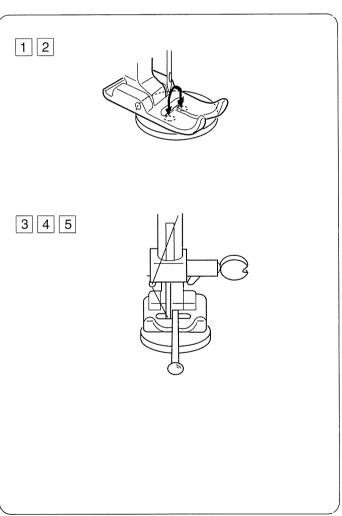
Any

Stitch width:

Adjust as necessary

6) Feed dog:

Dropped



Push the drop lever to the left to lower the feed dog.

Set the pattern selector dial at "C" and stitch width control at 0.

Place the button under the foot. Unthread the needle and turn the handwheel slowly to lower the needle into the lefthole in the button.

Align the right hole in the button with the slot of the foot and lower the foot to hold the button in place.

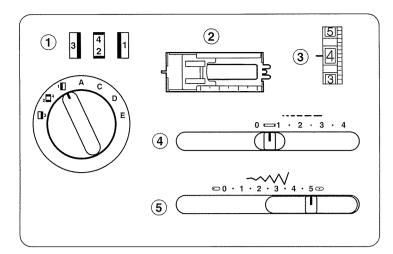
2 Raise the needle and adjust the stitch width so that the needle enters into the right hole on the button.

Rethread the needle and sew 10 stitches. A pin can be placed on top of the foot to form a shank.

Raise the needle and set the stitch width control to 0 then sew a few stitches to lock the seam.

5 Raise the foot and trim the excess thread.

Note: When button sewing is finished, raise the feed dog.



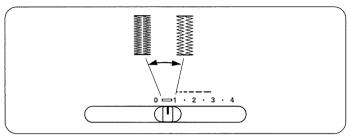
Buttonhole

 $1 \rightarrow \frac{4}{2} \rightarrow 3 \rightarrow \frac{4}{2}$ (1) Pattern selector: **(2**) Presser foot: Buttonhole foot

<u>3</u> Thread tension: 1-5

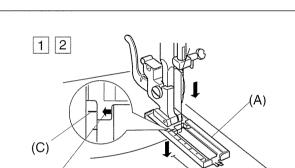
Stitch length: (0.5-1)

Stitch width: 5



To adjust buttonhole stitch density.

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



the slider meets the start mark (B). Line up the markings on the foot with the top mark on the fabric.

Carefully mark buttonhole length on fabric.

Place the fabric under the foot with the buttonhole marking

Move the slider (A) toward you so that the top mark (C) on

Lower the presser foot.

running toward you.

1

2

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



(B)

3 Set the pattern selector dial at " $\[\]$ ". Sew forward until you reach the front marking of your buttonhole.

Stop sewing at a left stitch.



Set the pattern selector dial at " 42 ". 4 Sew 5 stitches. Stop sewing at a right stitch.



Set the pattern selector dial at " 3 ". 5 Sew until you reach the back marking of the buttonhole. Stop sewing at a right stitch.

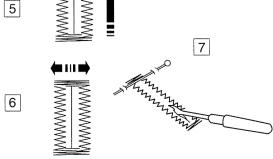


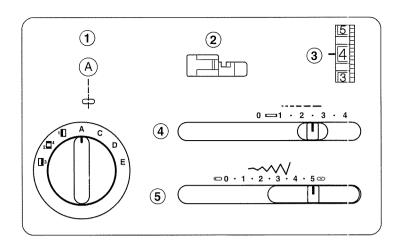
6 Set the pattern selector dial at " $\begin{bmatrix} 4 \\ 2 \end{bmatrix}$ ". Sew a few bartacks and raise the needle from the fabric. Set the stitch length control to " 0 " and the pattern selector dial at straight sewing.

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.





Zipper Application

Pattern selector: A

Presser foot: Zipper foot

3 Thread tension:

3 - 6

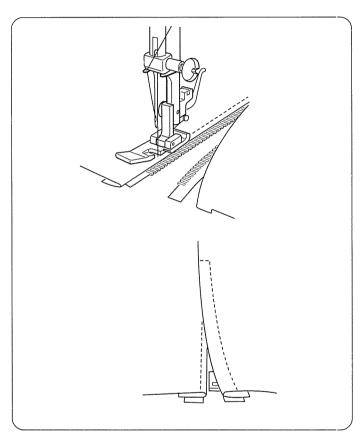
4) Stitch length:

(2)

1.5 - 4

5) Stitch width:

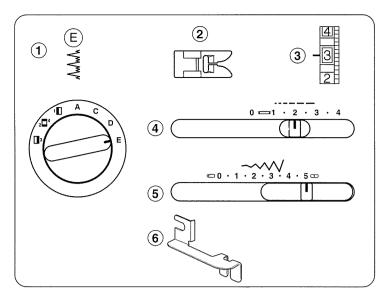
th: 5



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

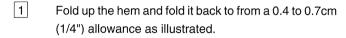
1 Pattern selector: E

(2) Presser foot: Zigzag foot

Thread tension: 2–4

4 Stitch length: 1–35 Stitch width: 5

6 Hem guide



- (1) Wrong side of the fabric
- (2) 0.4 to 0.7 cm (1/4")
- [A] Heavy weight fabrics (The raw edge should be overcast.)
- [B] Fine or medium weight fabrics
- 2 Lower the presser foot, then loosen the foot holder screw to place the hem guide between the screw and the shank of foot holder.

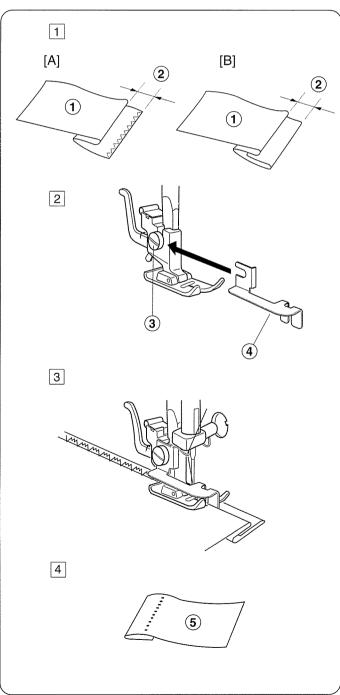
Tighten the screw making sure the wall of hem guide is placed between the toes of the presser foot.

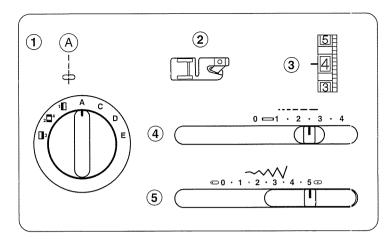
- (3) Screw
- (4) Hem guide
- Raise the presser foot and place the fabric under the foot so that the folded edge rests against the wall of the hem guide.

Lower the foot, then stitch slowly for better control so that the needle just pierces the folded edge when it swings to the extreme left side.

Sew guiding the folded edge along the wall of the hem guide.

- 4 Open the fold flat.
 - (5) Right side of the fabric
 - If the needle drops far left, the stitches will show on the right side of the fabric.





Rolled Hem

2

1 Pattern selector:

Presser foot: Hemmer foot

Thread tension:

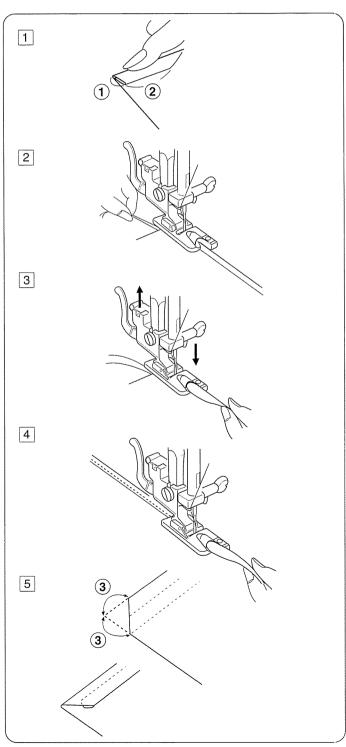
2-6

Stitch length:

1.5-4

Stitcl

Stitch width: 5



Make a double 0.25 cm (1/8") fold approximately 8 cm (3") in length.

(1) 0.25 cm (1/8")

(2) 8 cm (3")

Lower the needle into the fabric at the point where sewing is to begin, then lower the hemmer foot.

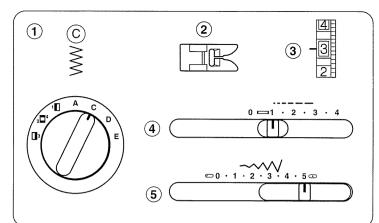
Sew 3 or 4 stitches while pulling the needle and bobbin threads.

2 Lower the needle into the fabric and lift the hemmer foot. Insert the folded portion of the fabric into the curl of the hemmer foot.

Lower the hemmer foot, then sew by lifting up the edge of the fabric to keep it feeding into the curl smoothly and evenly.

Trim about 0.7 cm (1/4") from corners as illustrated, to reduce bulk.

(3) 0.7cm (1/4")



SECTION 5. DECORATIVE STITCHING

Applique

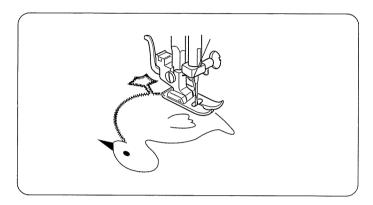
1 Pattern selector: C

2 Presser foot: Zigzag foot

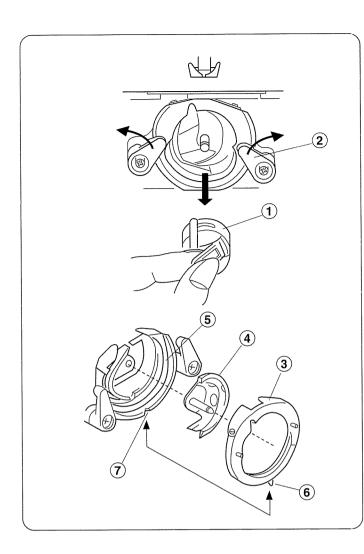
3 Thread tension: 1–4

Stitch length: 0.5–1

(5) Stitch width: 5



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.



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

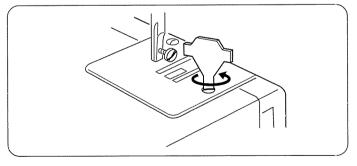
To assemble hook race unit:

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

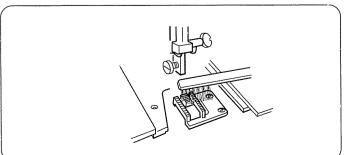


Cleaning the Feed Dog

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

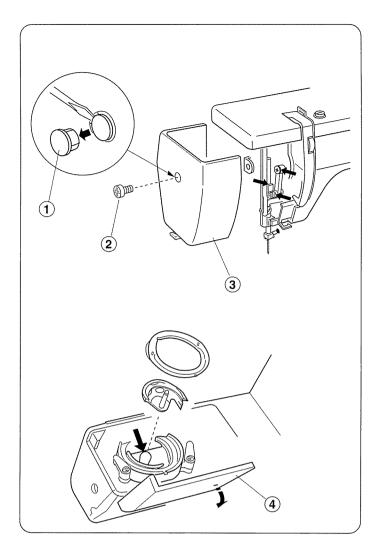
Remove the needle and the presser foot.

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



With a brush, clean out dust and lint clogging on the feed dog teeth.

Reset the needle plate.



Oiling the Machine

Note: Turn off the power switch when oiling the machine.

Oil the points as shown at least once a year.

Use good quality sewing machine oil.

One or two drops of oil is sufficient.

Wipe off excess oil, otherwise it may stain fabric.

If machine has not been used for an extended time, oil it before sewing.

Oiling behind the face plate

Remove the cap, screw and face plate.

Oil the points indicated in the illustration.

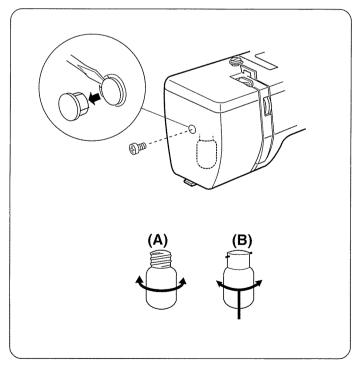
- 1 Cap
- (2) Screw
- 3 Face plate

Oiling the shuttle hook area

Open the hook cover.

Oil the point indicated in the illustration.

(4) Hook cover



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	1. The needle thread is not threaded properly.	See Page 8
breaks.	2. The needle thread tension is too tight.	See Page 10
	3. The needle is bent or blunt.	See Page 5
	4. The needle is incorrectly inserted.	See Page 5
	5. The fabric is not being drawn to the back when sewing is finished.	See Page 13
	6. The thread is either too heavy or too fine for the needle.	See Page 5
The bobbin thread	1. The bobbin thread is not threaded properly in the bobbin case.	See Page 7
breaks.	2. Lint has collected in the bobbin case.	Clean the bobbin case
	3. The bobbin is damaged and doesn't turn smoothly.	Exchange bobbin
The needle breaks.	The needle is incorrectly inserted.	See Page 5
	2. The needle is bent or blunt.	See Page 5
	3. The needle clamp screw is loose.	See Page 5
	4. The tension of the needle thread is too tight.	See Page 10
	5. The fabric is not drawn to the back when sewing is finished.	See Page 13
	6. The needle is too fine for the fabric being sewn.	See Page 5
	7. The pattern selector dial had been turned while the needle was in the material.	See Page 11
Skipped stitches	The needle is incorrectly inserted.	See Page 5
	2. The needle is bent or blunt.	See Page 5
	3. The needle and/or threads are not suitable for the work being sewn.	See Page 5
	4. A BLUE TIPPED needle is not being used for sewing stretch, very	See Page 5
	fine fabrics and synthetics. 5. The needle thread is not threaded properly.	See Page 8
Seam puckering	1. The needle thread tension is too tight.	See Page 10
	2. The machine is not threaded correctly.	See Page 8
	3. The needle is too heavy for the fabric being sewn.	See Page 5
	4. The stitches are too coarse for the fabric being sewn.	Make the
	* When sewing extremely light weight materials, place a sheet	stitches denser.
	of paper underneath the fabric.	
Stitches form loops	The needle thread tension is too loose.	See Page 10
below the work	2. The needle is either too heavy or too fine for the thread.	See Page 5
The cloth is not	1. The feed dog is packed with lint.	See Page 22
feeding smoothly.	2. The stitches are too fine.	Make the
		stitches coarser.
The machine does not	1. The machine is not plugged in.	See Page 4
work.	2. Thread is caught in the hook race.	See Page 22
The machine does not	Threads have been caught in hook mechanism.	See page 22
run smoothly and is noisy.	2. The feed dog is packed with lint.	See Page 22