

Book 2

Advanced Sewing

JANOME

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 13.2 V d.c., 3 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 (“○”) 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 the sewing machine off (“○”) 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

Introduction

Thank you for purchasing a Janome Memory Craft 10000.

For your convenience and quick reference, instructions for the Memory Craft 10000 are presented in three separate books:

Book 1: General Overview

Book 1 reviews Memory Craft 10000 features, stitches and functions. It provides basic directions to get you started.

Book 2: Advanced Sewing

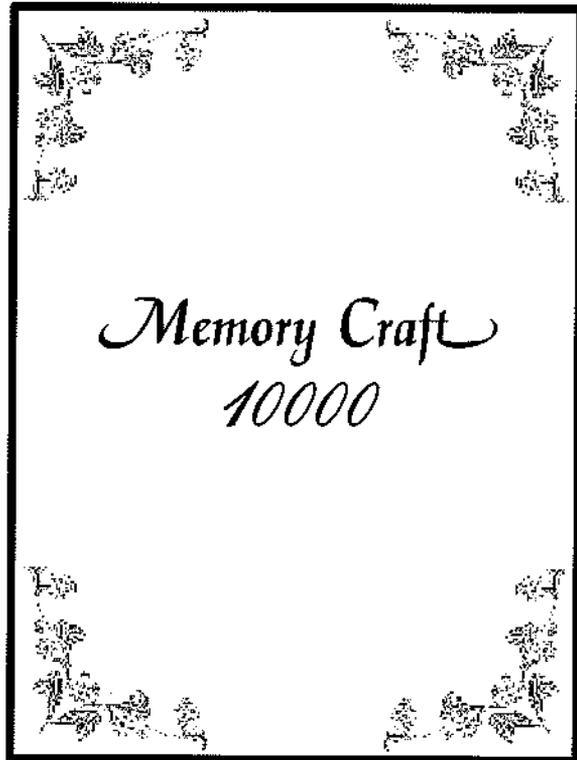
Book 2 contains in-depth instructions for the Ordinary Sewing Mode. It details the many options, capabilities and advanced non-embroidery functions available on your Memory Craft 10000.

Book 3: Professional-Style Embroidery

Book 3 provides a complete guide to Professional-Style Embroidery. Also, since you may wish to immediately connect your Memory Craft 10000 to your personal computer, you will find the hookup diagrams quite helpful for quick and easy setup.

About this book

Colored tabs identify the six sections of the book. Color-coded text makes it fast and easy to identify keys, buttons and illustrations.



IMPORTANT

When the function buttons and keys do not work, turn the power switch off and turn it on again.

Be sure to keep machine away from static electricity, heat sources, humidity, and direct sunlight.

When using your sewing machine for the first few times, place a waste fabric under the presser foot and run the machine for a few minutes. Wipe away any oil which may have appeared.

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MACHINE SETTINGS



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MACHINE SETTINGS

When you turn on the power switch, the Visual Touch Screen shows the opening "Welcome" window, then Ordinary Sewing Mode will appear after a few seconds, and the machine is set at straight stitch sewing.

SET Key - 4 Mode Selections

When you press the SET key, the following four mode keys will be displayed and you can adjust settings within each mode. You can select your desired mode by pressing the corresponding key.

① Common Set Mode

In this mode, machine operations and function (Screen Contrast, Sound, Professional Mode etc.) can be adjusted and set for both Embroidery and Ordinary Sewing.

② Ordinary Sewing Set Mode

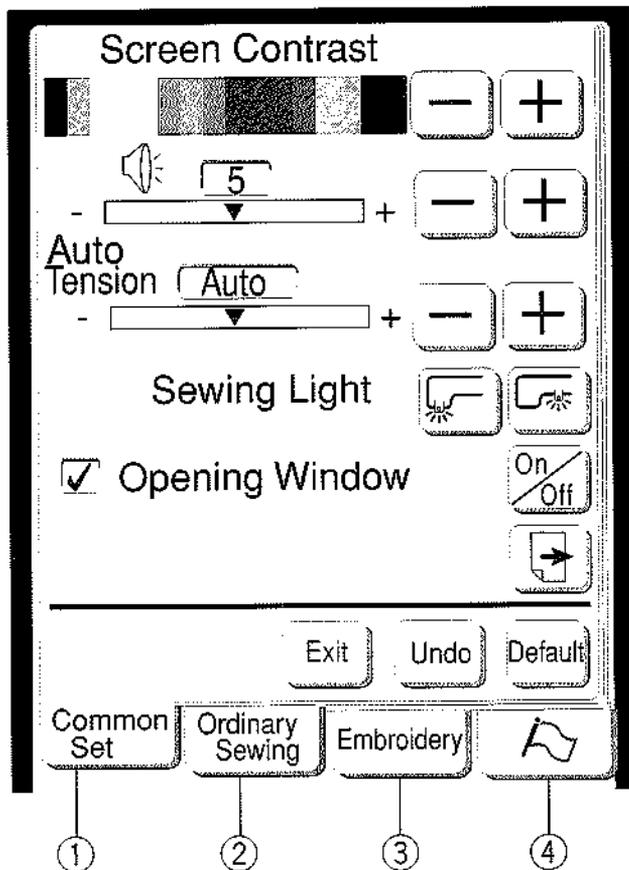
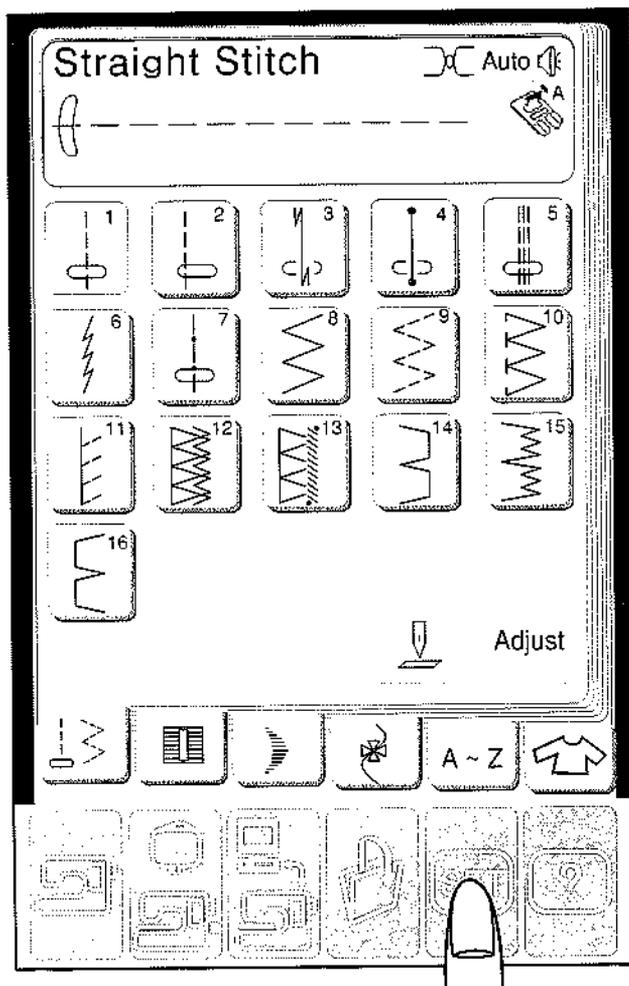
In this mode, sewing function (Feed Dog, Free Arm Length etc.) can be adjusted and set.

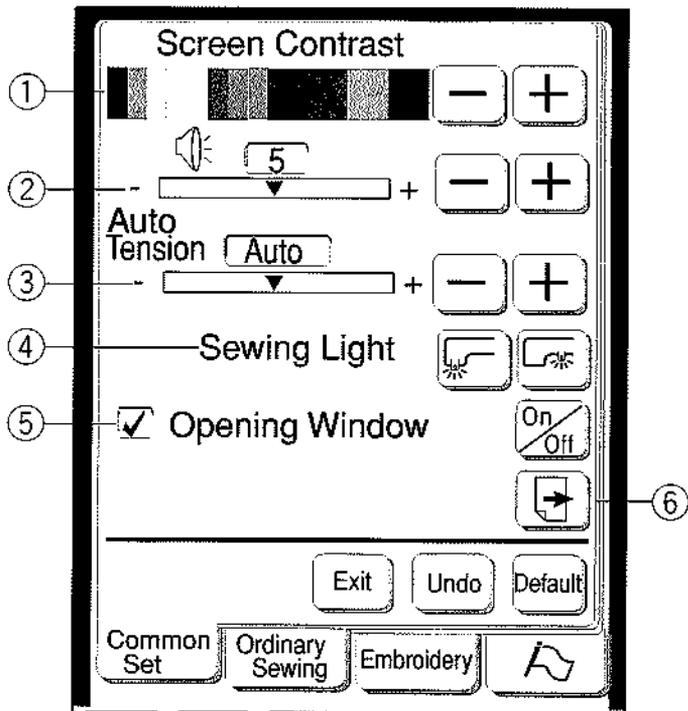
③ Embroidery Set Mode

In this mode, sewing function for Embroidery can be adjusted and set.

④ Flag Mode-Language Selection

In this mode, you can select one of 6 languages for the Visual Touch Screen.





Common Set Mode

In this mode you can set the following machine functions, which are applicable to both Ordinary Sewing and Embroidery.

① Screen Contrast

The Visual Touch Screen contrast can be adjusted. Press the **+** key, to sharpen the screen color contrast.

Press the **-** key, to fade the screen color contrast.

② Sound Control

The buzzer volume can be adjusted. The volume level can be set from 0 to 10 and the default setting is 5.

Press the **+** key, to increase the buzzer volume.

Press the **-** key, to decrease the buzzer volume.

When you select 0 the buzzer turns off.

③ Auto Tension

The Auto Thread Tension level can be adjusted. Tension level can be set from - 5 to + 5. Changes are made in increments of 1 and the default setting is 0 (Auto).

Press the **+** key, to set the tension level higher.

Press the **-** key, to set the tension level lower.

④ Sewing Light

The dual sewing lights can be individually set "On" or "Off" depending upon your sewing needs.

Press key to light up the needle plate area.

Press key to light up the free arm area.

When both lamps are "On" it provides a well-lit sewing area.

⑤ Opening Window

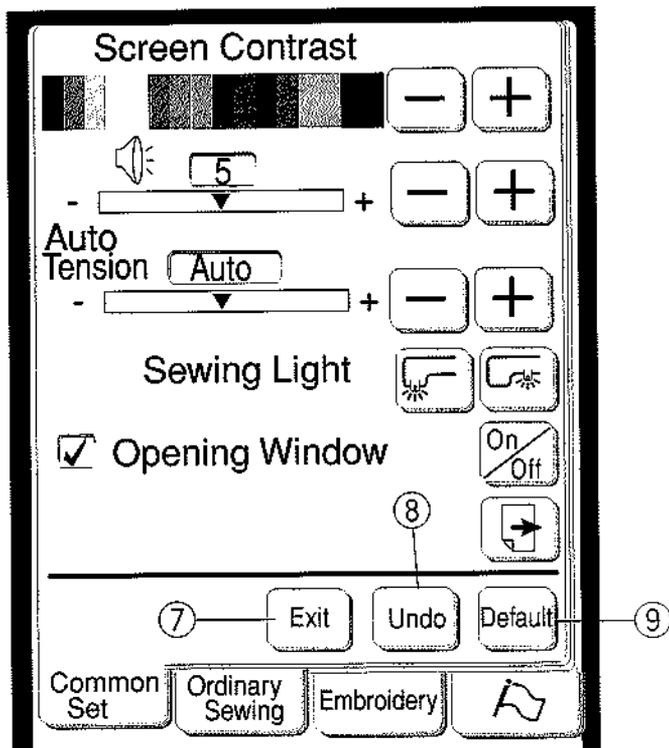
When you turn on the power switch, the Visual Touch Screen automatically shows the opening "Welcome" window. The window always appears when the Opening Window box is checked. If you do not want the "Welcome" window displayed, press key to turn the check box off.

⑥ Page Key

You can turn the pages by pressing the Page keys.

Press key to view the next page.

Press key to view the previous page.



⑦ Exit Key

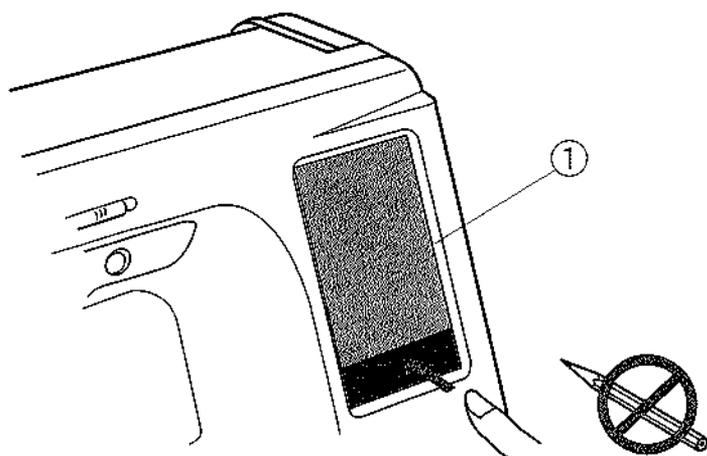
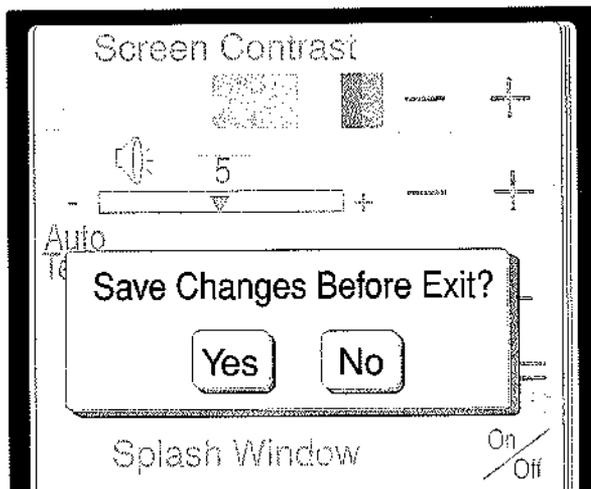
When you press the **Exit** key, you are asked to save changes you made to the settings. Press **Yes** key to register the new settings and you will exit the Common Set Mode. Press **No** key if you do not want to change settings and you will return to the previous setting mode screen and the settings will not be registered.

⑧ Undo Key

You can undo your settings by pressing **Undo** key. When you press the **Undo** key, the setting on the screen will return to the previous setting.

⑨ Default Key

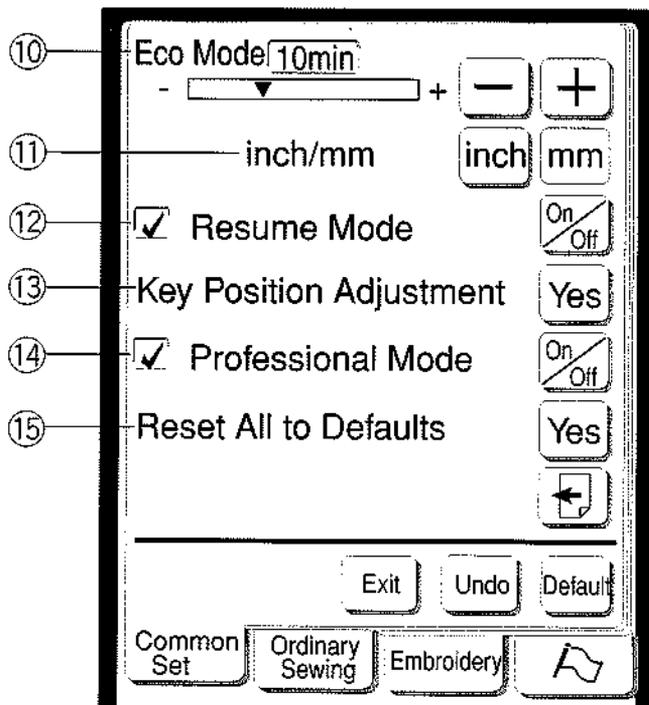
When you press **Default** key all function values on the Common Set Mode will be returned to their original setting (the same settings as when you purchased the machine).



⚠ Caution:

- Do not press the surface of the Visual Touch Screen with a hard or sharp object like pencil, screwdriver or the like. When you select a pattern or function on the screen, it is not necessary to press hard; just touch the keys with your finger.
- Use a dry soft cloth to wipe off the screen.

① Visual Touch Screen



⑩ Eco Mode

After turning on the power switch, if you have not used the machine, after a while, the machine will enter Eco Mode. The Visual Touch Screen will go dark and the sewing lights will turn off.

Whenever you touch the screen while the machine is in Eco Mode, the screen and sewing lights will turn on again.

You can set the Eco Mode timer from 1 minute to 30 minutes. The default setting is 10 minutes.

To set the Eco Mode timer:

Press the **+** key to increase the timer setting.
Press the **-** key to decrease the timer setting.

⑪ Inch / Millimeter

You can set your machine's measuring unit to either "inch" or "millimeter" depending upon your preference. The default measuring unit setting is "millimeter".

Press **inch** or **mm** key to select the unit you preferred.

Note:

- Stitch length and width are displayed in millimeter regardless the inch/mm setting.

⑫ Resume Mode

The Resume Mode allows you to return to either Ordinary Sewing Mode or Embroidery Mode, which was selected when you turned the machine off.

To activate the Resume Mode, press **On/Off** key to tick the check box on.

⑬ Key Position Adjustment

If you think the touch panel keys are out of alignment, you can correct it in the Key Position Adjustment window.

When you press the **Yes** key, window (A) will be shown. With your finger, press the Black + Sign as it appears in order. When you press the last black + sign, the window (B) will be shown.

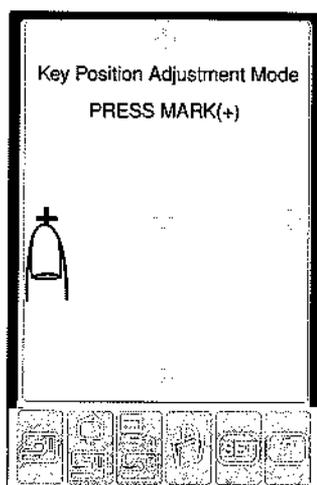
The window will close and go back to the original screen with the new setting being registered.

⑭ Professional Mode

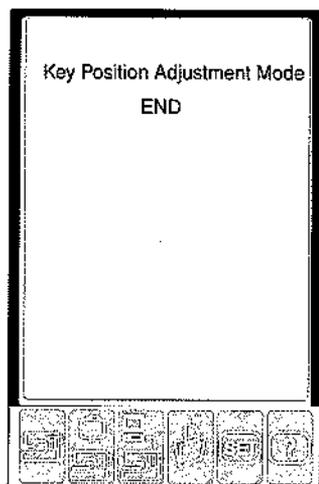
Press the **On/Off** key to tick the check box on, so that the Professional Mode pages can be opened in Ordinary Sewing Set Mode and Embroidery Set Mode.

⑮ Reset All to Defaults

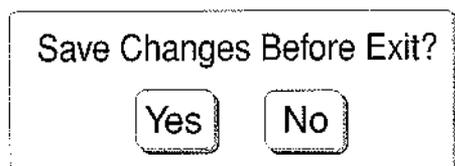
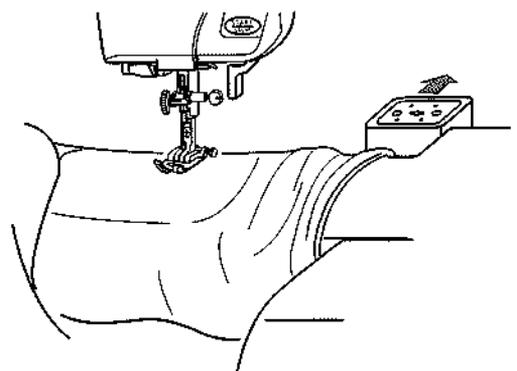
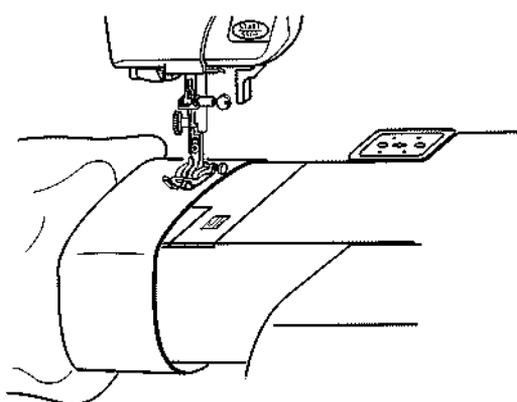
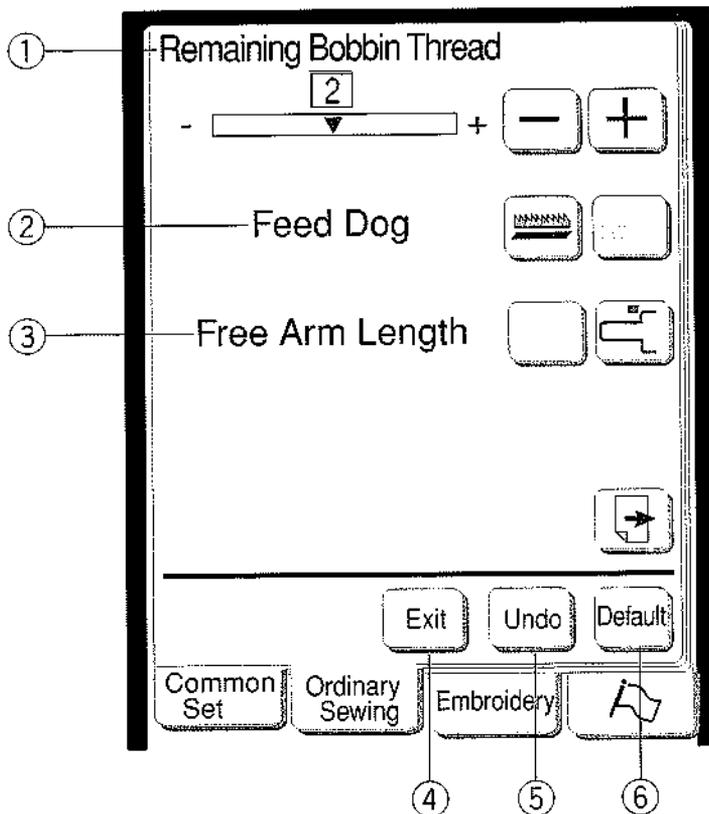
By pressing **Yes** key, you can reset all the settings to their original setting (the same settings as when you purchased the machine).



(A)



(B)



Ordinary Sewing Set Mode

In this mode you can set the following sewing functions:

① Remaining Bobbin Thread

The Visual Touch Screen will display "Bobbin Thread almost out" when the bobbin thread is running low. The Bobbin Sensor detects the remaining amount of thread on the bobbin. It has 5 adjustable steps, 0 to 4.

Press **+** key to increase thread amount level when the warning displays.

Press **-** key to decrease thread amount level when the warning displays.

Note:

- This is an approximate guide to setting the bobbin thread sensor.

② Feed Dog

You can drop or raise feed dog by pressing the key or the key.

③ Free Arm Length

The carriage will move allowing you to use the full length of the Free Arm, when you press key.

Press key to return the carriage to its home position.

④ Exit Key

When you press the **Exit** key, you are prompted to register changes you made to the settings.

Press **Yes** key to register the settings and you will exit the Mode Set window.

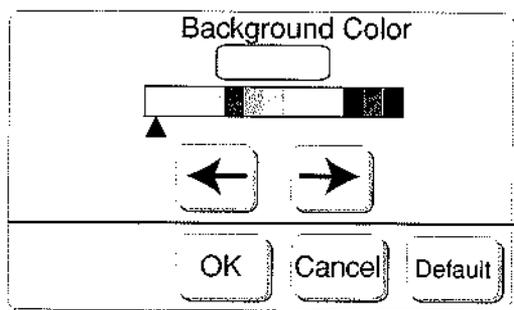
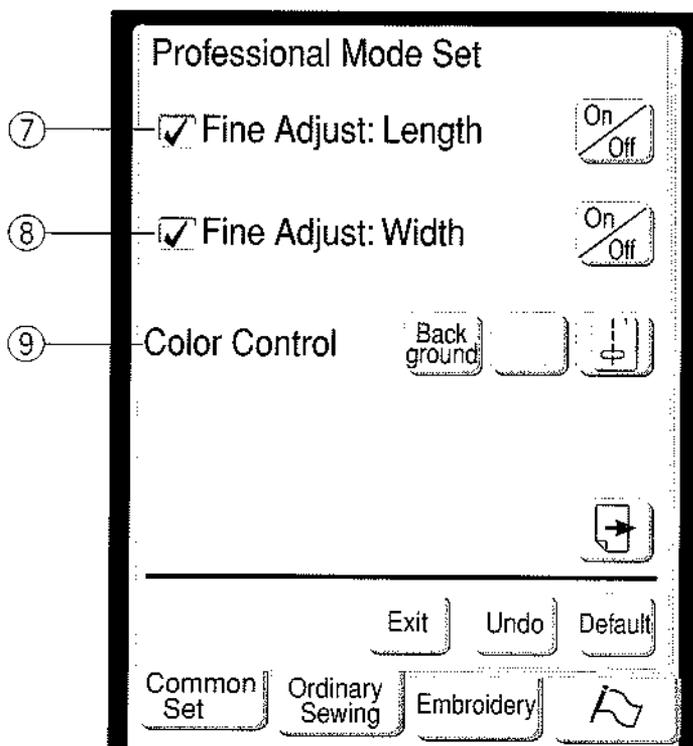
Press **No** key and you will return to the previous setting mode screen and the settings will not be registered.

⑤ Undo Key

You can undo your selection by pressing this key. All of the indications on the screen will be returned to their previous settings when you press the **Undo** key.

⑥ Default Key

When you press the **Default** key all function values on the screen will return to the default settings (the same settings as when you purchased the machine).



Professional mode setting

⑦ Fine Adjust: Length

This function allows you to finely adjust your stitch length setting. Press the key to tick the check box on. This will enable you to adjust stitch length in increment of 0.1 in the Adjust window (see page 14 for Adjust window.)

⑧ Fine Adjust: Width

This function allows you to finely adjust your stitch width setting. Press the key to tick the check box on. This will enable you to adjust stitch width in increment of 0.1 in Adjust window (see page 14 for Adjust key).

⑨ Color Control

You can change screen background color as well as key color with these color-setting keys.

Background Color:

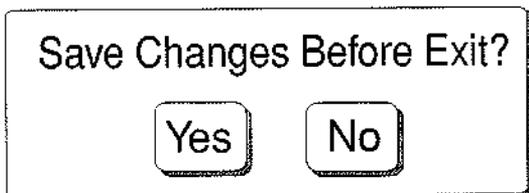
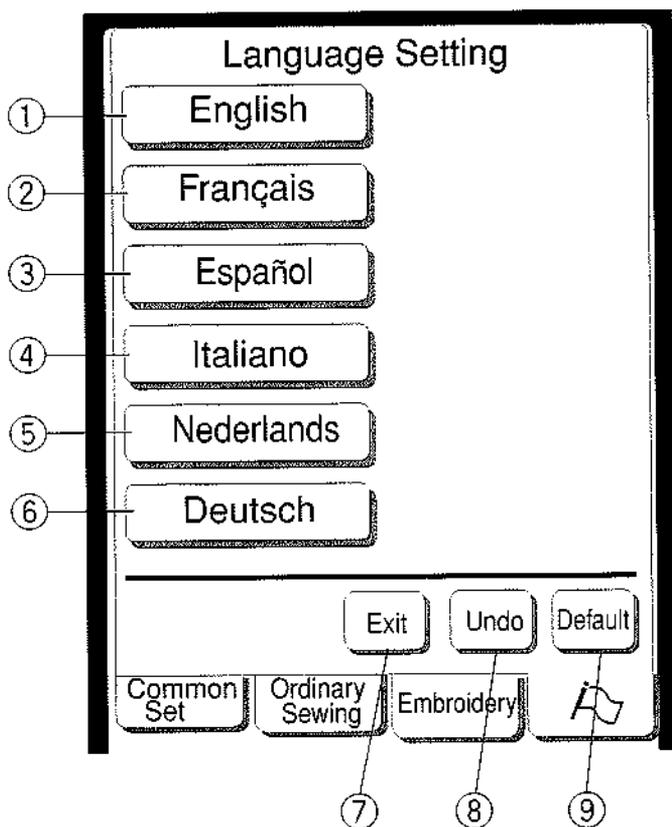
- Press the key to adjust the screen background color and tone with the adjusting arrow keys.
- Press the keys to select the background color.

Pattern Key Color:

- Press the key to select the pattern selection key color. Press the keys to select the color tone.
- When you press key the new color is set.
- When you press key, the Adjust window closes and the last changes made to the settings are canceled.
- When you press key, the settings will return to the default settings (the same settings as when you purchased the machine).

Function Key Color:

- When you press key, you may select the desired color for the function keys.
- Each time you press key, you can select one of four colors: pink, blue, green or yellow.



Embroidery Set Mode

For detailed instructions on Embroidery Sewing please refer to Instruction Manual Book 3.

Flag Mode-Language Selection

You can select one of the following 6 languages below by pressing the desired language key.

- ① English
- ② French
- ③ Spanish
- ④ Italian
- ⑤ Dutch
- ⑥ German

⑦ Exit

When you press the **Exit** key, you are prompted to save changes you made to the setting.

Press **Yes** key to register the selected language and return to the previous window.

Press **No** key and you will return to the previous setting mode screen and the settings will not be registered.

⑧ Undo

You can undo your selection by using this key.

⑨ Default Key

When you press the **Default** key, the display will return to English.

Note:

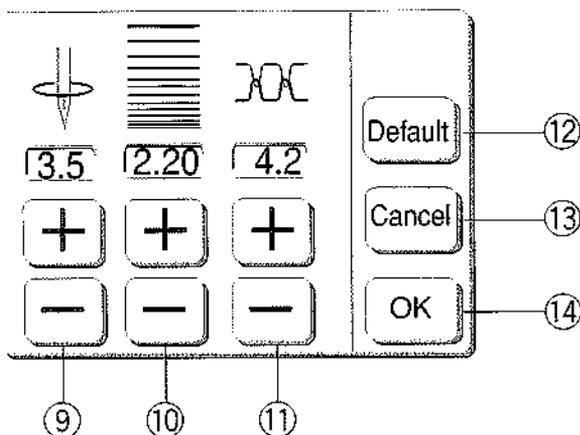
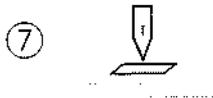
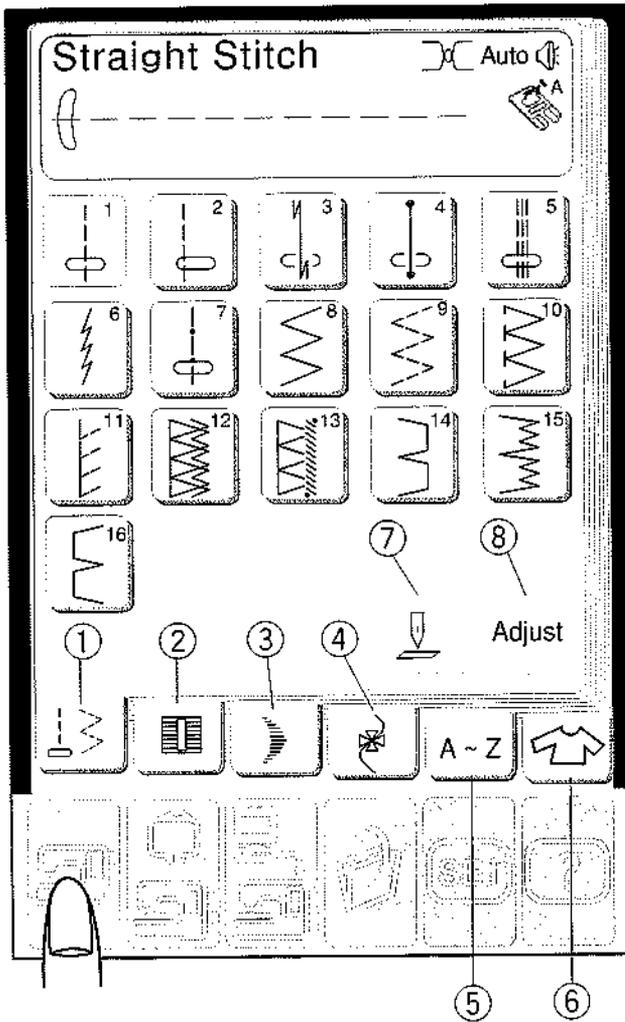
- Number of available languages varies depending on the destination of the machine.

UTILITY STITCHES



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UTILITY STITCHES



When you press Ordinary Sewing Mode key, the Utility Stitch Window opens.

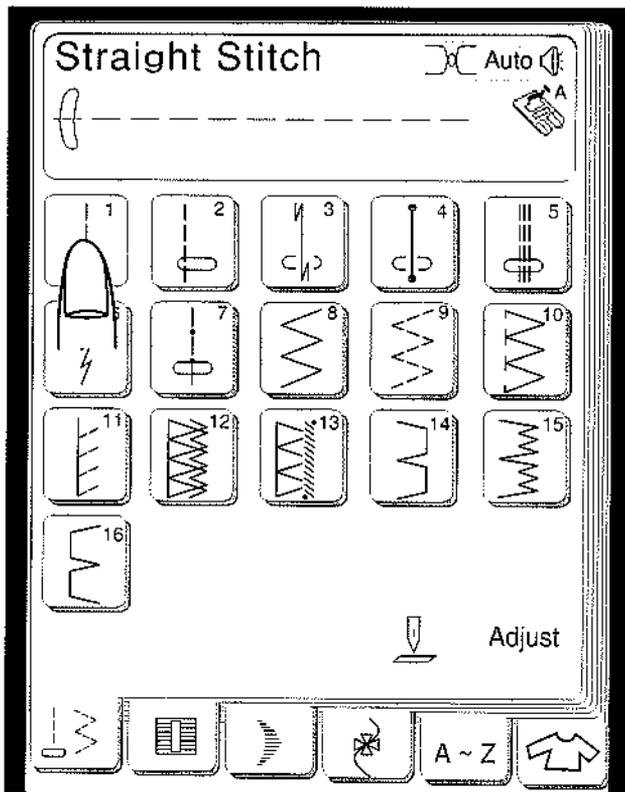
In the Ordinary Sewing Mode, there are 6 categories of sewing to choose from.

- ① **Utility Stitches:** You can select 16 types of utility stitches.
- ② **Buttonhole Stitches:** You can select 11 types of buttonholes, button sewing, darning, tacking and eyelet.
- ③ **Satin Stitches:** You can select the desired satin stitches, elongate patterns and also program assorted stitch combinations.
- ④ **Decorative Stitches:** You can select decorative stitches and also program assorted stitch combinations.
- ⑤ **Monogramming:** You can make monograms and combinations of letters, symbols and patterns.
- ⑥ **Sewing Application Key:** When you select Sewing Application, the machine automatically selects the appropriate stitch for the sewing project.

Function Keys:

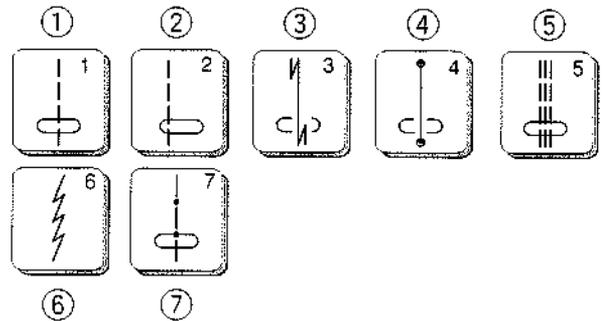
You can change the machine settings for the selected stitch by the following keys.

- ⑦ **Needle Up/Down Key:** You can set the needle position with this key, up or down when the machine stops.
- ⑧ **Adjust Key:** When you press this key, the stitch adjusting window will open. You can change settings to stitch length, width and thread tension by pressing the \oplus or \ominus keys.
- ⑨ **Stitch Width Adjusting Key (Needle Drop Position Adjustment key).**
- ⑩ **Stitch Length Adjusting Key.**
- ⑪ **Thread Tension Adjusting Key.**
- ⑫ **Default Key:** When you press this key all function values on the screen will return to the default settings (the same settings as when you purchased the machine).
- ⑬ **Cancel Key:** When you press Cancel key, the adjust window closes and setting remains.
- ⑭ **OK Key:** When you press the OK key, the desired number is set.

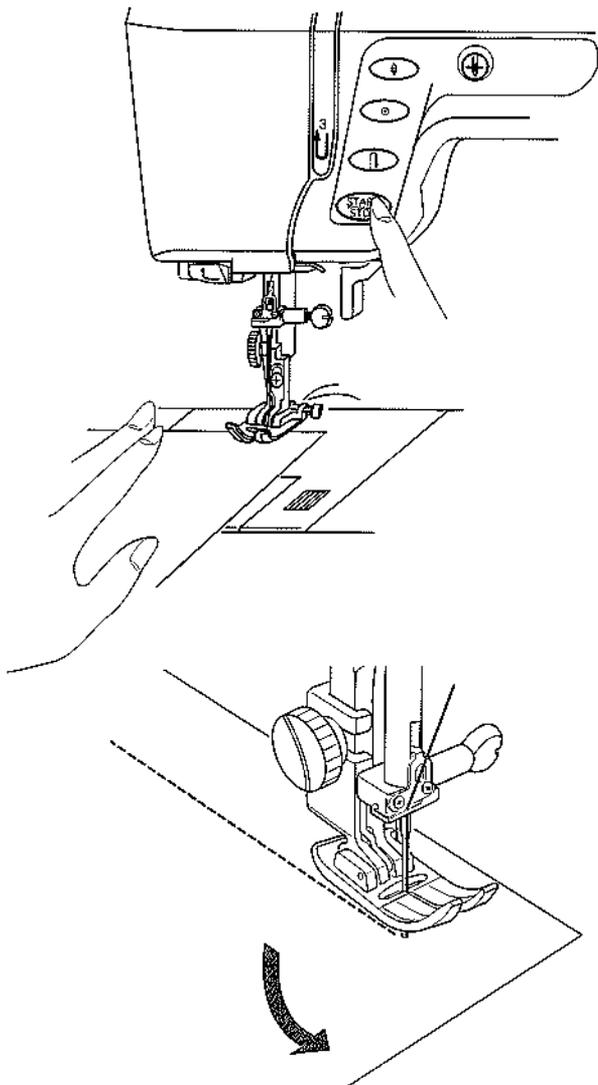


Straight Stitches

The following 7 stitches are available to choose from;



- ① Straight Stitch with center needle position
- ② Straight Stitch with left needle position
- ③ Lock-a-Matic Stitch
- ④ Locking Stitch
- ⑤ Triple Stretch Stitch
- ⑥ Stretch Stitch
- ⑦ Basting Stitch



To sew

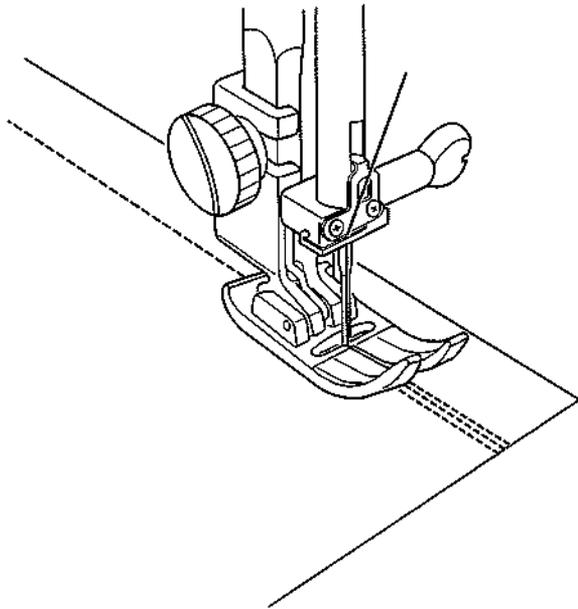
Raise the Presser Foot and position the fabric next to a seam guideline on the needle plate. Lower the needle to the point where you want to start.

Pull the threads toward the back and lower the Presser Foot. Depress the Foot Control, and gently guide the fabric along the seam guideline letting the fabric feed naturally.

Changing Sewing Direction

Stop the machine and bring the needle down into the fabric by pressing the Up/Down Needle Button. Raise the Presser Foot.

Pivot the fabric around the needle to change the sewing direction as desired. Lower the Presser Foot to sew in a new direction.

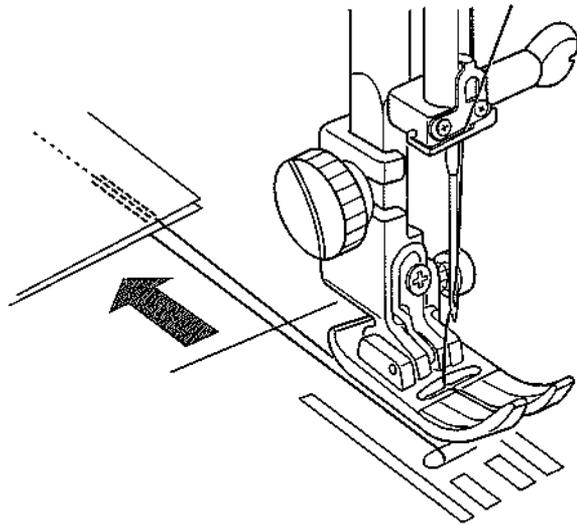


Securing seam

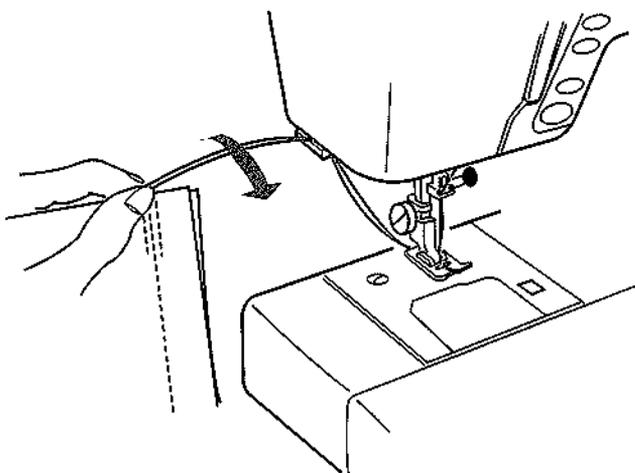
For fastening the ends of seams, press the Reverse Button and sew several reverse stitches.

The machine sews reverse stitches as long as you press and hold the Reverse Button.

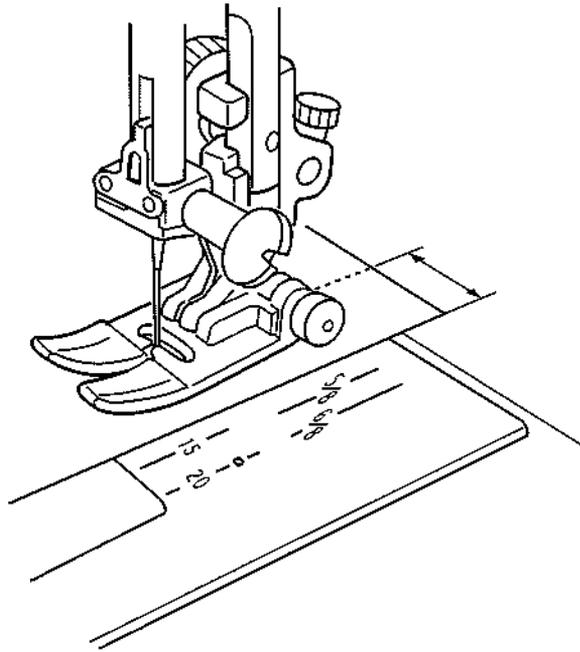
When sewing with the Lock-a-Matic stitch and Locking Stitch, press the Reverse Button once, the machine will sew several reverse or locking stitches and stop automatically.



Raise the Presser Foot. Remove the fabric, draw it to the back.



Cut the thread by using the thread cutter. The threads are cut the proper length for starting the next seam.

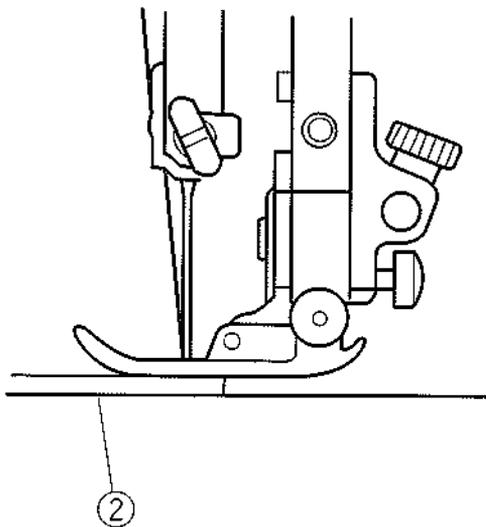


Needle plate guidelines

The seam guidelines on the Needle Plate and Hook Cover Plate help you to measure seam allowance.

The number indicates the distance between the center needle position and the seam allowance line.

Number Indicated	15	20	4/8	5/8	6/8
Distance in Centimeters	1.5	2.0	1.3	1.6	1.9
Distance in Inch	-	-	1/2"	5/8"	3/4"



To sew from the edge of thick fabric

The Black Button ① on the zigzag foot locks the foot in the horizontal position.

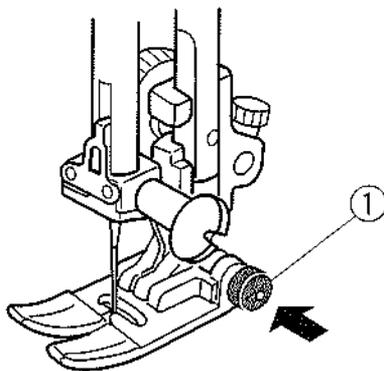
This is helpful when starting sewing from extreme edge of Thick Fabrics ② or sewing across a hem.

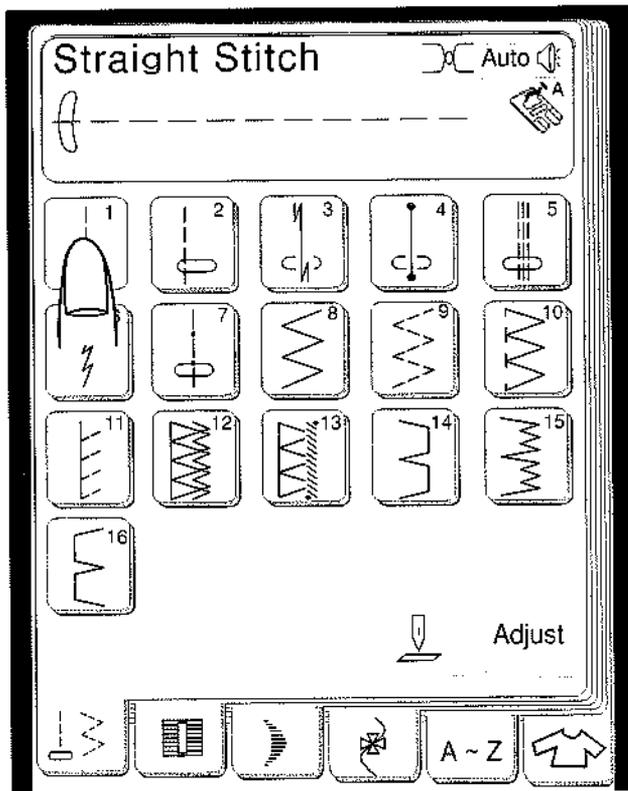
Lower the needle into the fabric at the point where you wish to start sewing.

Lower the foot while pushing the Black Button ① in. The foot is locked in the horizontal position to avoid slipping.

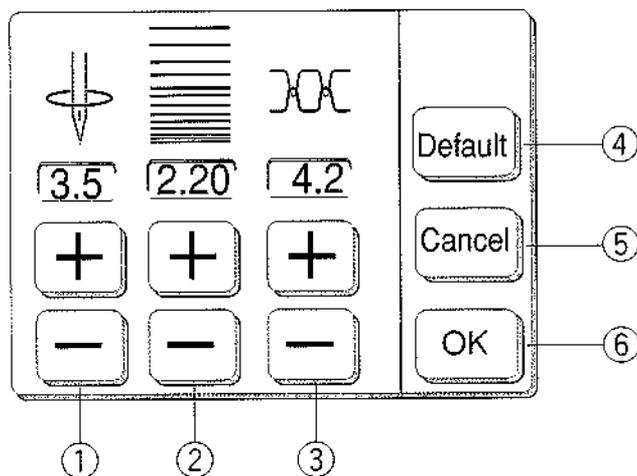
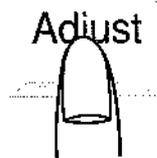
① Black Button

② Thick Fabrics





Manual adjustment of straight stitches

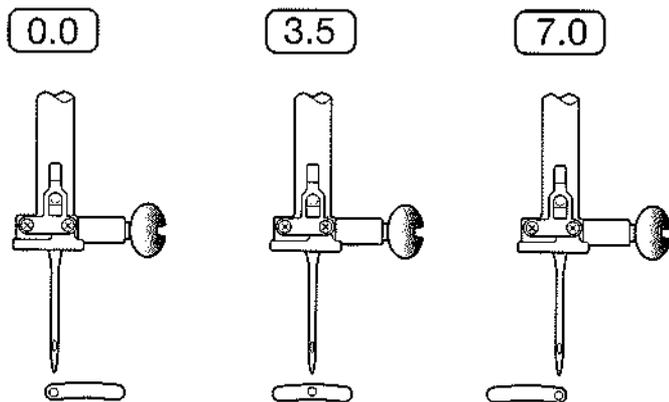


Press the Adjust key.

The adjusting window displays the + and - keys for Needle Drop Position, Stitch Length and Thread Tension adjustment.

Press the + or - key to change settings, then press the OK key to register the settings.

- ① Needle Drop Position Adjusting keys
- ② Stitch Length Adjusting keys
- ③ Thread Tension Adjusting keys
- ④ Default key: When you press Default key all settings in the adjusting window will return to their default settings (the same settings as when you purchased the machine).
- ⑤ Cancel key: When you press Cancel key, the adjust window will close and the setting remains unchanged.
- ⑥ OK key: When you press the OK key, your settings are registered.

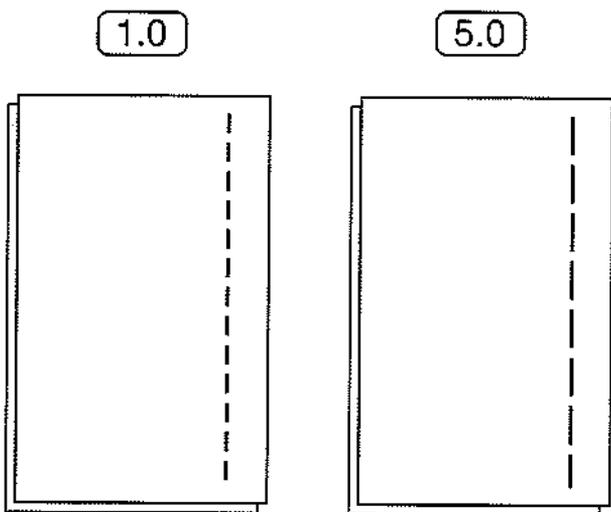


Changing needle drop position

Needle drop position is adjusted with the **+** and **-** keys.

When you press the **+** key, the needle moves to the right.

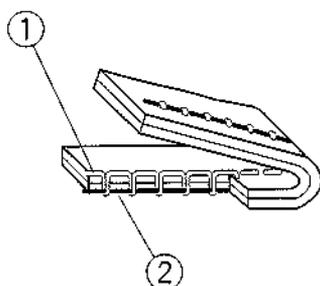
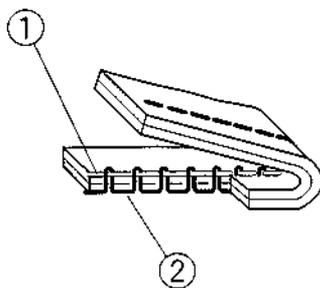
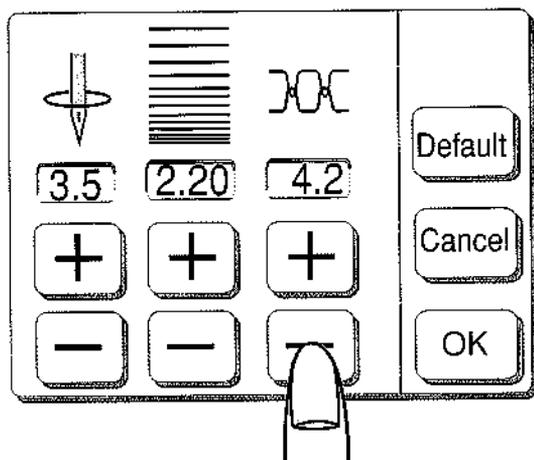
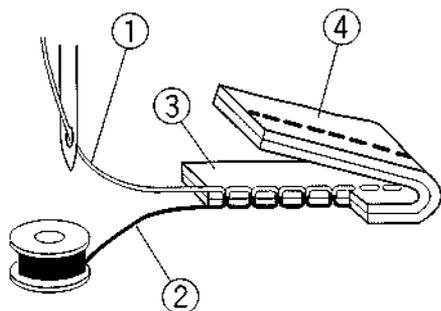
When you press the **-** key, the needle moves to the left.



Changing stitch length

Press the **-** key to decrease the stitch length.

Press the **+** key to increase the stitch length.



Changing thread tension

Balanced needle thread tension:

In straight stitching, the Needle Thread ① and Bobbin Thread ② cross in the middle of the fabric.

- ① Needle Thread
- ② Bobbin Thread
- ③ Right Side of the Fabric
- ④ Wrong Side of the Fabric

When the needle thread tension is too tight;
Press the key to decrease the thread tension.

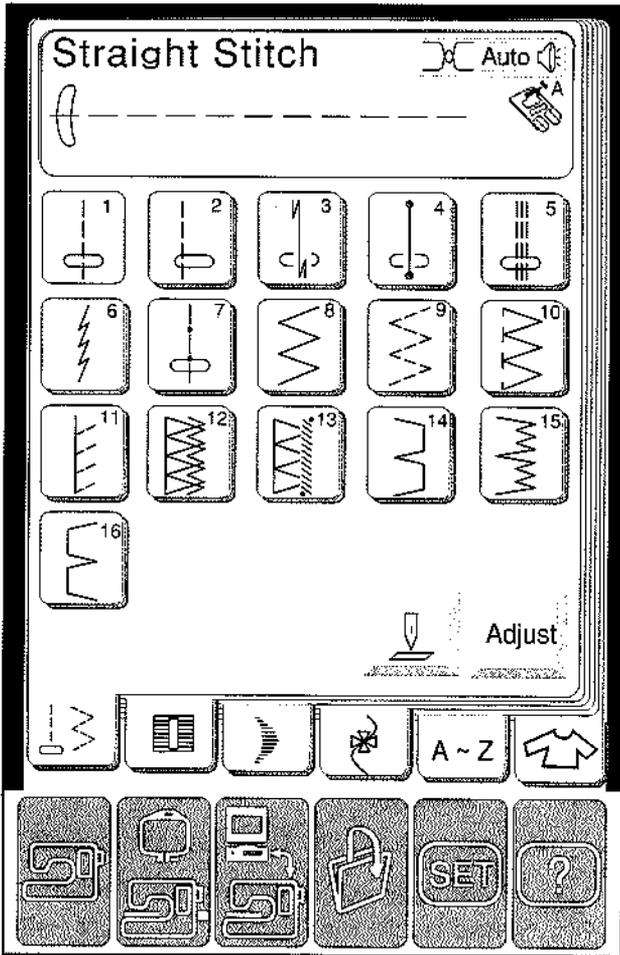
Press key to register the setting.

When the needle thread tension is too loose;
Press the key to increase the thread tension.

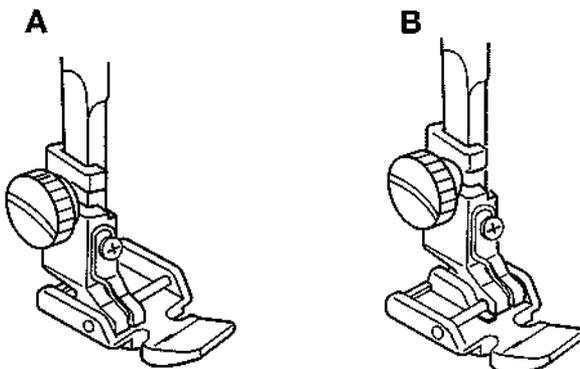
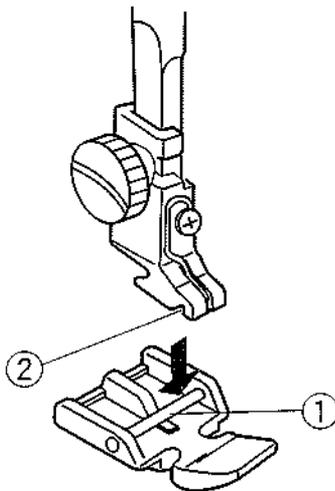
Press key when the tension is set.

Note:

- When you turn the power switch off or select the other pattern, changes to the settings will be cancelled.



Zipper Sewing



To snap on Zipper Foot E

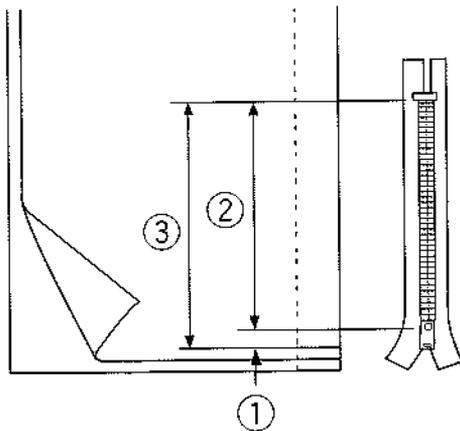
Fit the Pin ① on Zipper Foot E to the Groove ② on the Foot Holder.

- ① Pin
- ② Groove

A To sew the right side of the zipper, attach Zipper Foot E with the Pin on the left-hand side.

B To sew the left side of the zipper, attach Zipper Foot E with the Pin on the right-hand side.

1

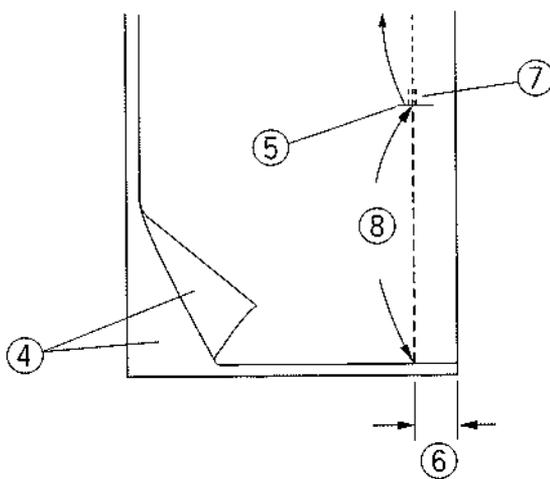


Fabric preparation

1. Add 1cm (3/8") ① to the Zipper Size ②.
This is the overall Opening Size ③.

- ① 1cm (3/8")
- ② Zipper Size
- ③ Opening Size

2



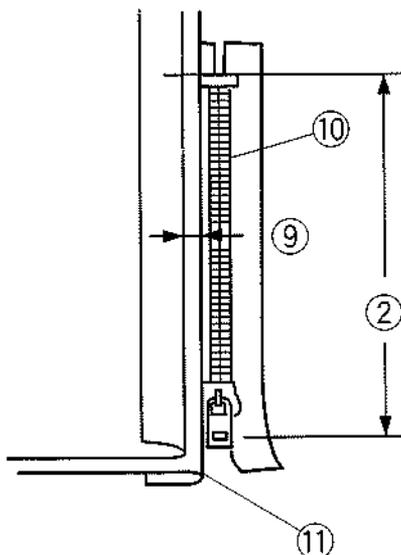
2. Place the Right Sides of the Fabric ④ together and sew to the End of the Opening ⑤ with a 2cm (13/16") Seam Allowance ⑥.

Reverse Stitch ⑦ to lock the seams.

Manually increase the stitch length to 5.0 and baste the Zipper Opening ⑧ with the thread tension loosened.

- ④ Right Sides of the Fabric
- ⑤ End of the Opening
- ⑥ 2cm (13/16") Seam Allowance
- ⑦ Reverse Stitch
- ⑧ Zipper Opening

3



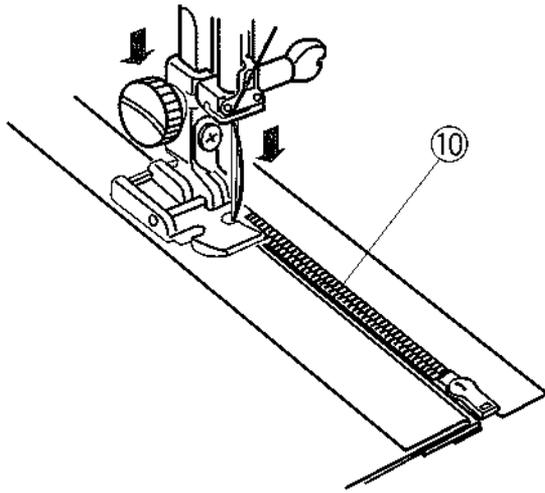
To sew

3. Fold back the left seam allowance. Turn the right seam allowance under to form a 0.2 to 0.3cm (1/8") Fold ⑨. Place the Zipper Teeth ⑩ next to the Fold ⑪ and pin it in place.

Set the stitch length and thread tension back to the default.

- ⑨ 0.2 to 0.3cm (1/8") Fold
- ⑩ Zipper Teeth
- ⑪ Fold

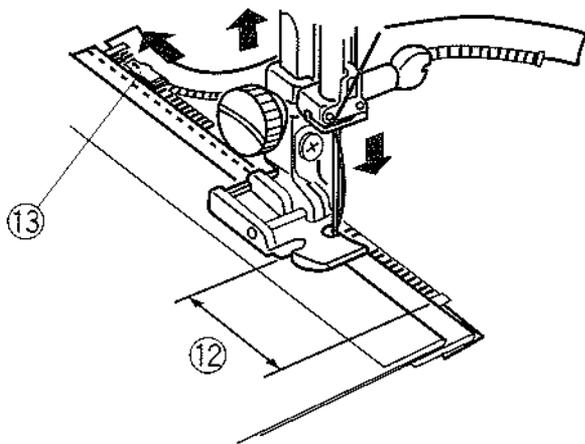
4



4. Attach Zipper Foot **E** with the pin on the right hand side. Lower the foot onto the topside at the bottom of the zipper so that the needle pierces the fabric next to the fold and the zipper tape. Sew along the zipper guiding the Zipper Teeth ⑩ along the bottom edge of the foot.

⑩ Zipper Teeth

5

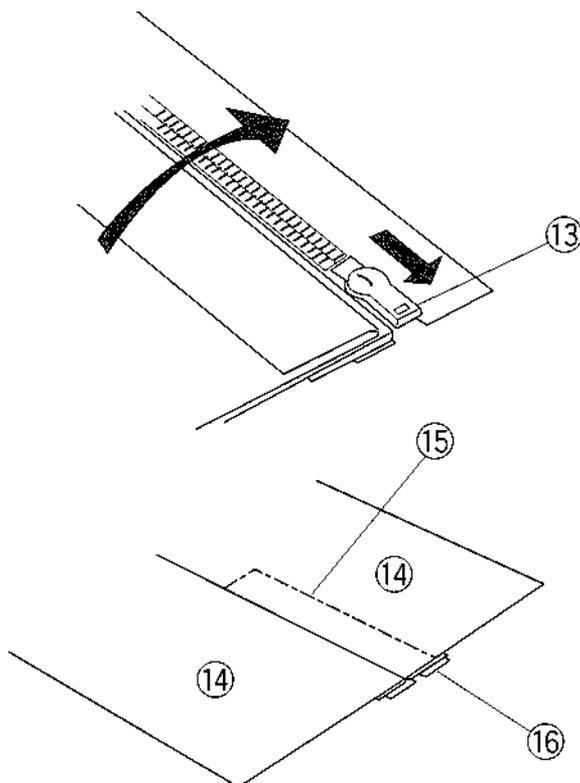


5. Sew through all layers next to the fold. Stop 5 cm (2") ⑫ before Zipper Foot **E** reaches the Slider ⑬ on the zipper tape. Lower the needle slightly into the fabric. Raise the foot and open the zipper. Lower the foot and stitch the remainder of the seam.

⑫ 5cm (2")

⑬ Slider

6



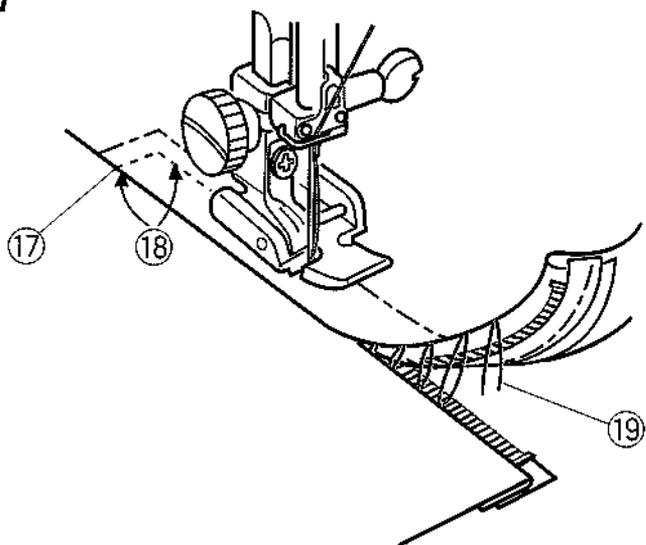
6. Close the zipper and spread the fabric open flat with the Right Side of the Fabric ⑭ facing up. Baste ⑮ the opened fabric and Zipper Tape ⑯ together.

⑭ Right Side of the Fabric

⑮ Basting

⑯ Zipper Tape

7



7. Move Zipper Foot **E** to the left pin.
Backstitch across the End of Opening ⑰
to 0.7 – 1cm (3/8") ⑱.

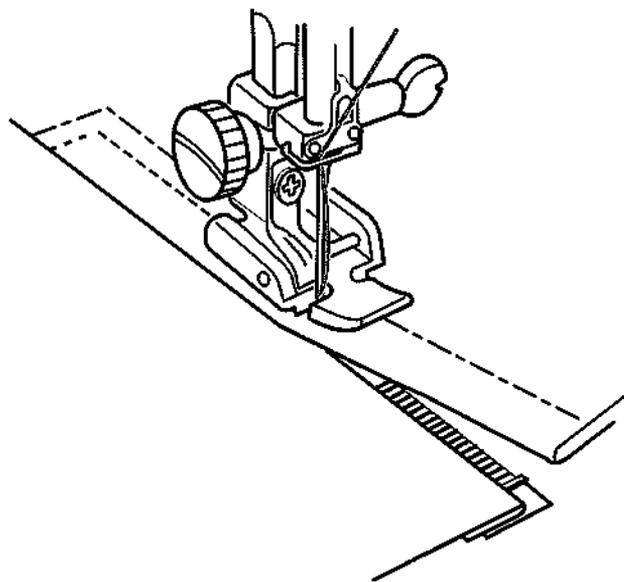
Stitch through the garment and zipper
tape, guiding the zipper teeth along the
bottom edge on the foot.

Stop about 5cm (2") from the top of the
zipper.

⑰ End of Opening

⑱ 0.7 – 1cm (3/8")

8



8. Lower the needle into the fabric, raise the
foot, remove the Basting Stitches ⑲ and
open the zipper.

Lower the foot and stitch the remainder of
the seam making sure the fold is even.

⑲ Basting Stitches

Selecting a Needle

For general sewing, use needle size 11 or 14. A fine thread and needle should be used for sewing lightweight fabrics, so the fabric will not be marred. Heavy fabrics require a needle large enough to pierce the fabric without fraying the needle thread.

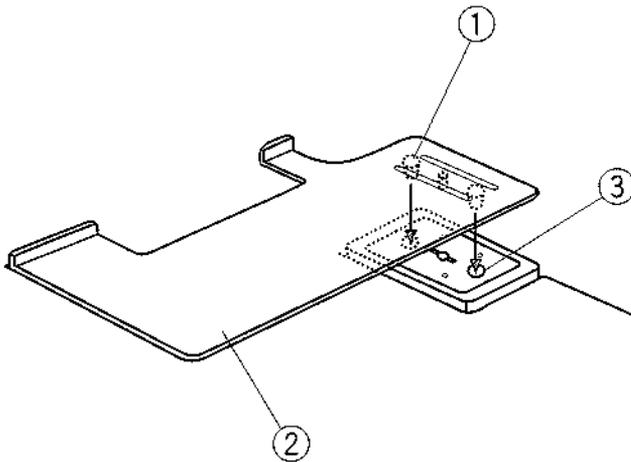
In the needle case you will find one size 14, three blue tipped needles and one twin needle. Use a blue tipped needle to eliminate skipped stitches when sewing knits and synthetic fabrics.

There are also specialty needles available from your sewing machine dealer. A denim needle with a sharp tip is used to effectively pierce dense fabrics such as denim and canvas. For topstitching, a special topstitching needle with a larger eye accommodates heavier weight thread. Leather needles punch small holes in leather and suede allowing the thread to follow through the hole.

Check your needles frequently for rough or blunt tips. Snags and runs in knits, fine silks and silk-like fabrics are permanent and are often caused by damaged needles.

Always purchase a good quality thread. It should be strong, smooth and consistent in thickness.

WEIGHT	FABRIC	TYPE of NEEDLE	NEEDLE SIZE	
Very Light	Chiffon, Georgette, Fine Lace, Organdy Net, Tulle	Universal	9 (65)	
		Ball Point	9 (65)	
Light	Batiste, Voile, Lawn, Pure Silk, Crepe de Chine, Sheer Crepe, Chambray, Handkerchief Linen, Gingham, Challis, Percale, Wool Crepe, Peau de Soie, Taffeta, Satin, Silk Surah, Satin-backed Crepe, Qiana	Blue Tipped Needle	11 (75)	
		Universal	11 (75) 12 (80)	
		Single Knits, Jersey, Swimwear, and Tricot	Blue Tipped Needle Ball Point	11 (75) 11 (75)
	Leather Suede	Wedge Point Leather Needle	11 (75)	
Medium	Flannel, Velour, Velvet, Muslin, Velveteen, Poplin, Corduroy, Broadcloth, Linen, Chintz, Gabardine, Felt, Terry, Burlap, Quilted Fbrics	Universal	14 (90)	
		Double Knits, (synthetic and natural) Stretch Velour, Stretch Terry, Sweater Knits	Ball Point	14 (90)
		Leather, Vinyl, Suede	Wedge Point Leather Needle	14 (90)
Heavy	Denim, Sailcloth, Ticking	Denim Needle	16 (100)	
		Double Faced Wool, Heavy Coating, Fake Fur, Drapery Fabrics	Universal	16 (100)
		Leather, Suede	Wedge Point Leather Needle	16 (100) 18 (110)
Very Heavy	Canvas, Duck, Upholstery Fabrics	Universal	11 (75)	
	Topstitching for Special Finish	Topstitching Needle	14 (90)	

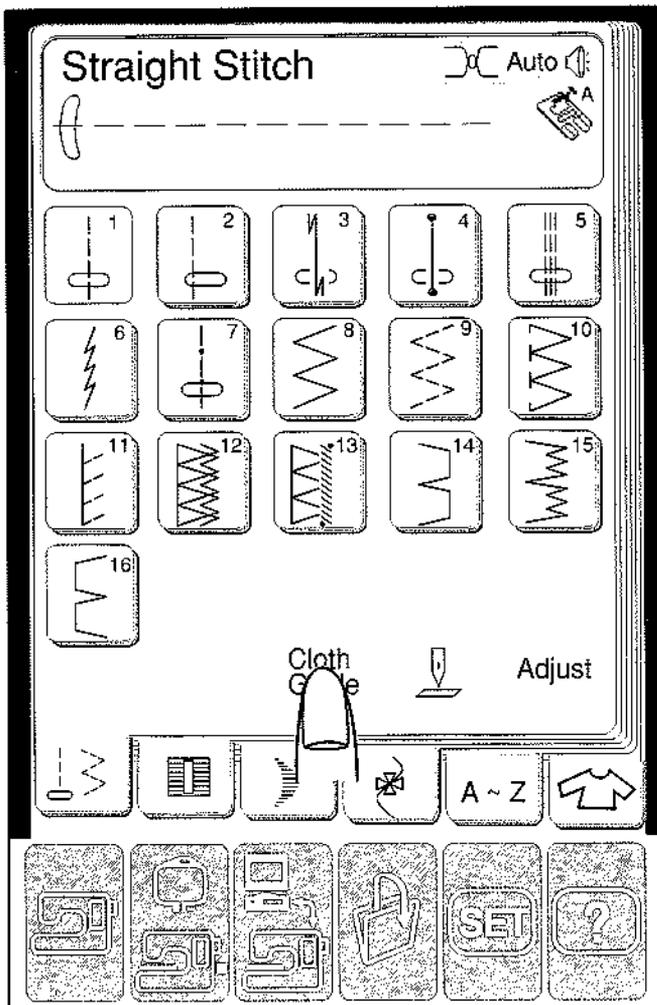


Cloth Guide

Attaching the Cloth Guide

Insert the Pins ① on the Cloth Guide ② into the Carriage Holes ③.

- ① Pins
- ② Cloth Guide
- ③ Carriage Holes

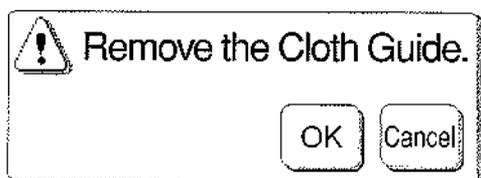
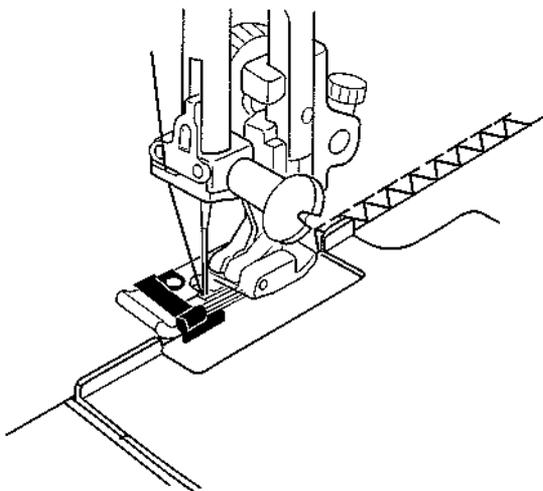
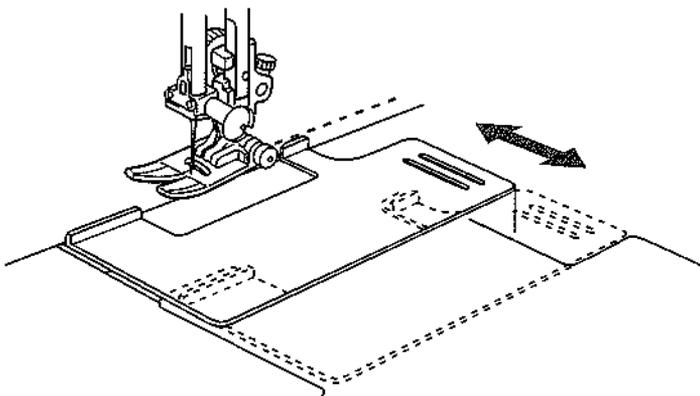
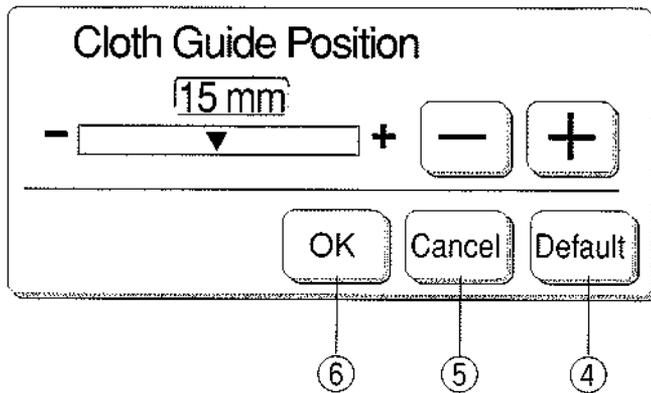


Setting the Cloth Guide position

Press  key and the cloth guide position window opens.

Note:

- The  key will appear when the Professional Mode is ON (see page 9).



Cloth Guide Position window will appear. Press the \pm or the \pm key to move the Cloth Guide to the desired position.

Notes:

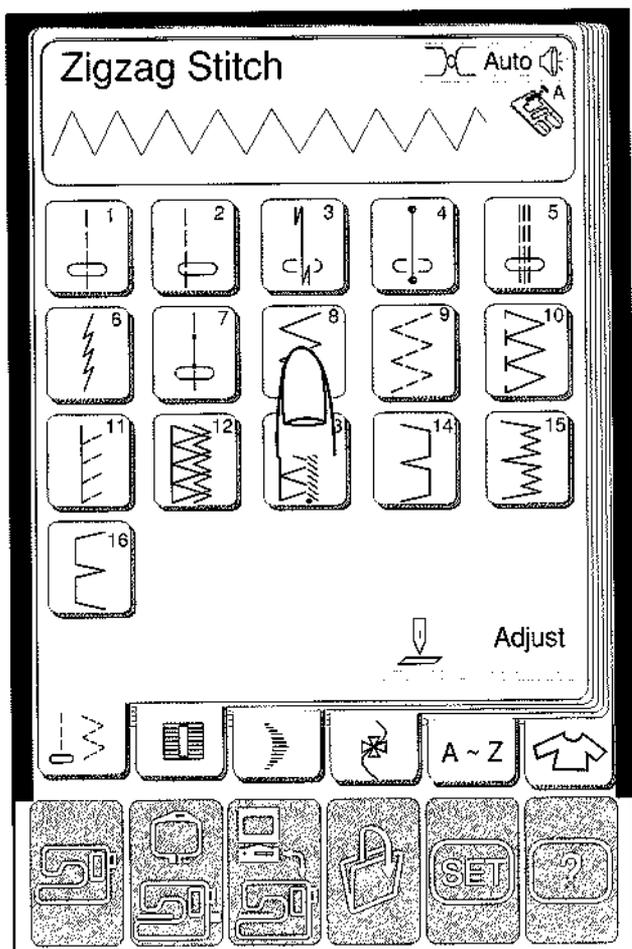
- The distance of the Cloth Guide edge from the center needle position is shown in millimeter or inch.
 - You may set the Cloth Guide Position from -2mm to 40mm (-1/8" to 1 1/2").
 - From -2mm to 10mm, you may change the setting by 1mm and from 10mm to 40mm, you may change the setting by 5mm each time you press the \pm or the \pm key.
- ④ Default key: When you press the Default key the setting returns to the default (the same settings as when you purchased the machine, which is 15mm)
- ⑤ Cancel key: When you press Cancel key, the Cloth Guide Position window will close and the setting remains unchanged.
- ⑥ OK key: When you press the OK key, your settings are registered.

Overcasting with the Cloth Guide.

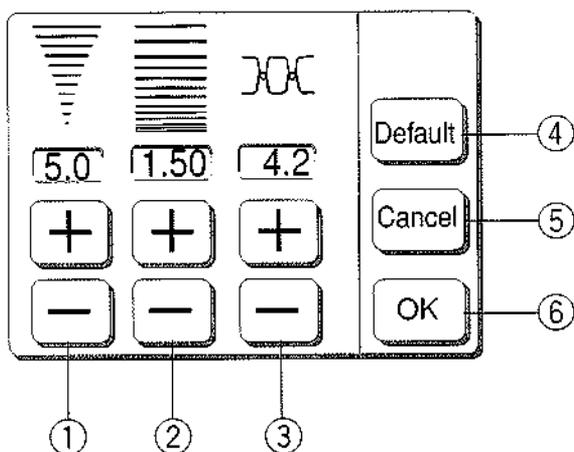
Select Pattern 10 and use Overedge Foot C. Set the Cloth Guide position at 2mm (1/16") and sew.

Note:

- When using the Cloth Guide, if you select other patterns, the Visual Touch Screen shows "Remove the Cloth Guide". Press the OK key so that the carriage returns to its home position. Then you can safely remove the Cloth Guide.



Adjust



Zigzag Sewing

Simple zigzag stitch is widely used for overcasting, applique etc.

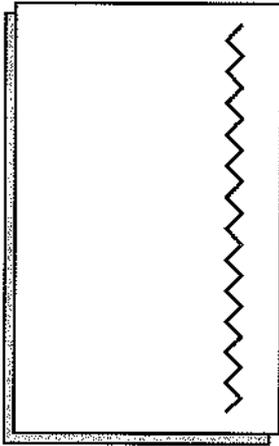
To change zigzag stitch width & length

Press the **Adjust** key.

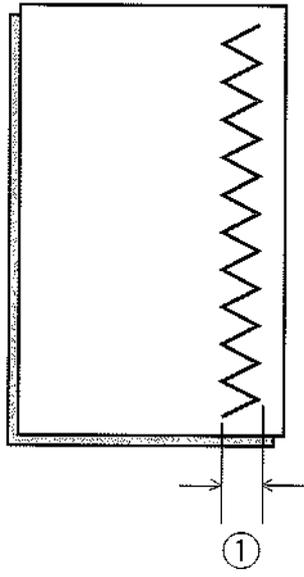
When you press the **Adjust** key, the adjusting window shows the preset values for Stitch Width, Stitch Length and Thread Tension and their **+** and **-** keys used for making adjustments.

- ① Stitch Width Adjusting keys
- ② Stitch Length Adjusting keys
- ③ Thread Tension Adjusting keys
- ④ Default key: When you press the **Default** key, all function values in the adjusting window will return to the default settings (the same settings as when you purchased the machine).
- ⑤ Cancel key: When you press **Cancel** key, the adjusting window will close and the setting remains.
- ⑥ OK key: When you press **OK** key, the setting will be saved and the window will return to the original screen.

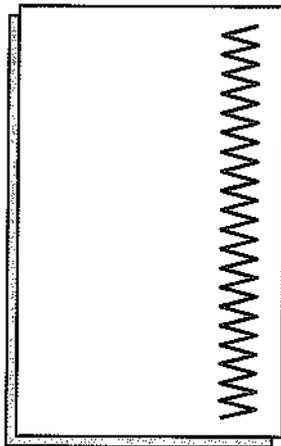
2.0



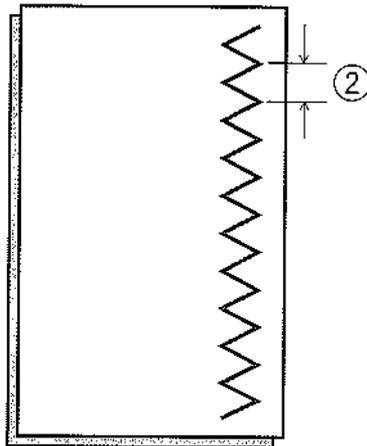
7.0



1.0



5.0



Changing stitch width

Press the  key to decrease the Stitch Width ①.

Press the  key to increase the Stitch Width ①.

① Stitch Width

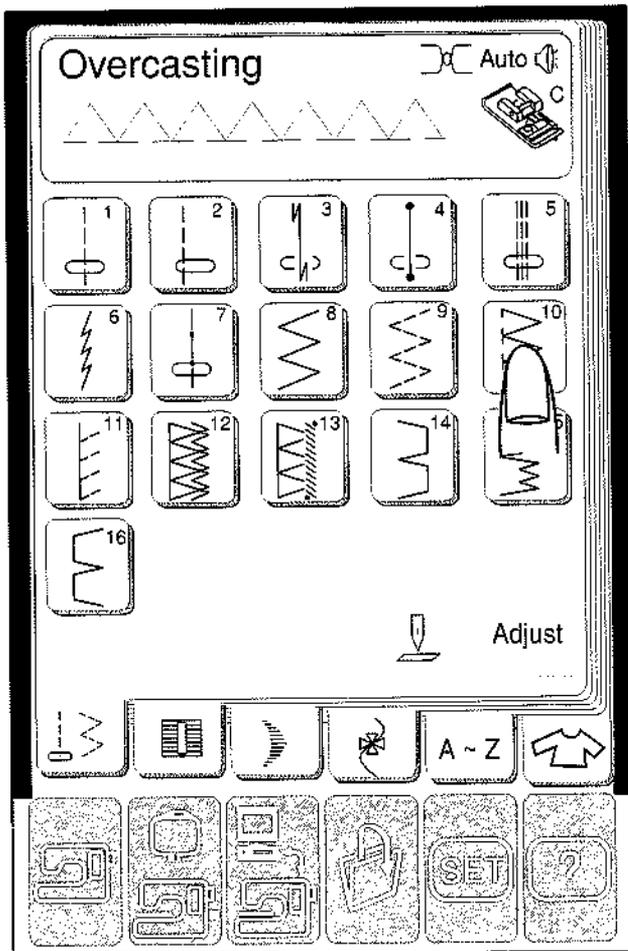
Changing stitch length

Press the  key to decrease the Stitch Length ②.

Press the  key to increase the Stitch Length ②.

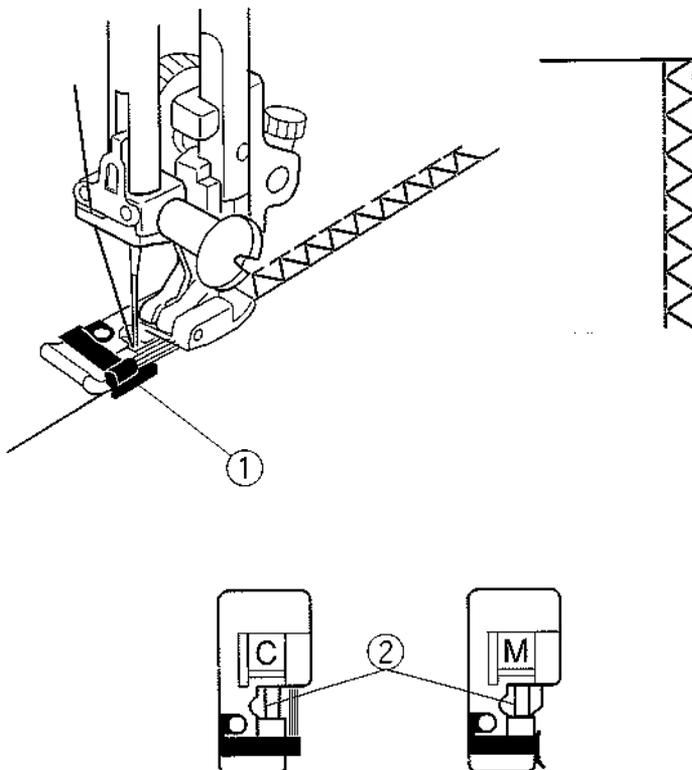
② Stitch Length

After adjusting the settings press  key.



Overcasting

Select Pattern 10 and attach the Overedge Foot **C**.



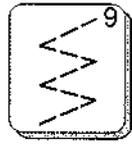
Place the fabric edge next to the Guide ① of the foot and then sew.

① Guide

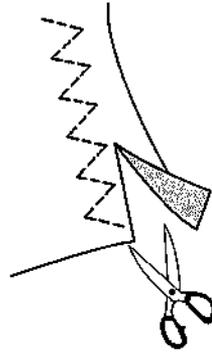
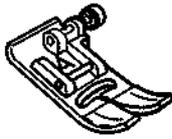
⚠ Caution:

- When you use Overedge Foot **C** or Overcasting Foot **M**, you must set the zigzag width at 5.0 to or wider to prevent the needle from hitting the Foot Wires ②.

② Foot Wires



①



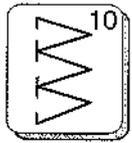
Variety of overcasting stitches

Pattern 9: Multiple Zigzag Stitch (Tricot Stitch)

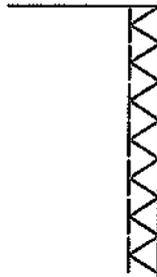
This stitch is used to finish a raw edge of synthetics and other stretch fabrics that tend to pucker.

Sew along the fabric edge leaving an enough seam allowance. After sewing, trim off the seam allowance closer to the stitches.

① Zigzag Foot **A**



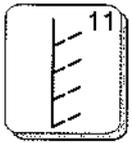
②



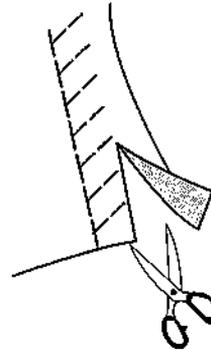
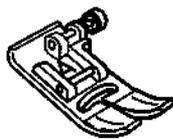
Pattern 10: Overcasting Stitch

This stitch can be used to simultaneously seam and overcast in one step. Use this stitch when you do not need to press seams open flat.

② Overedge Foot **C**



③

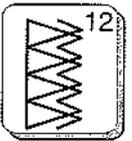


Pattern 11: Knit Stitch

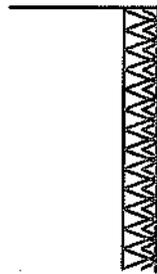
This stitch is recommended for sewing such fabrics as synthetic knits and stretch velour as it provides the greatest amount of elasticity and strength.

Sew along the fabric edge leaving an enough seam allowance. After sewing, trim off the seam allowance closer to the stitches.

③ Zigzag Foot **A**



④

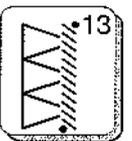


Pattern 12: Double Overedge Stitch

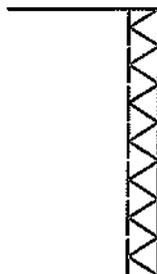
This stitch is an excellent stitch for fabrics that tend to fray extensively such as linens and gabardines.

Two rows of zigzag stitches are simultaneously sewn over the edge to insure that fabric will not ravel.

④ Overedge Foot **C**



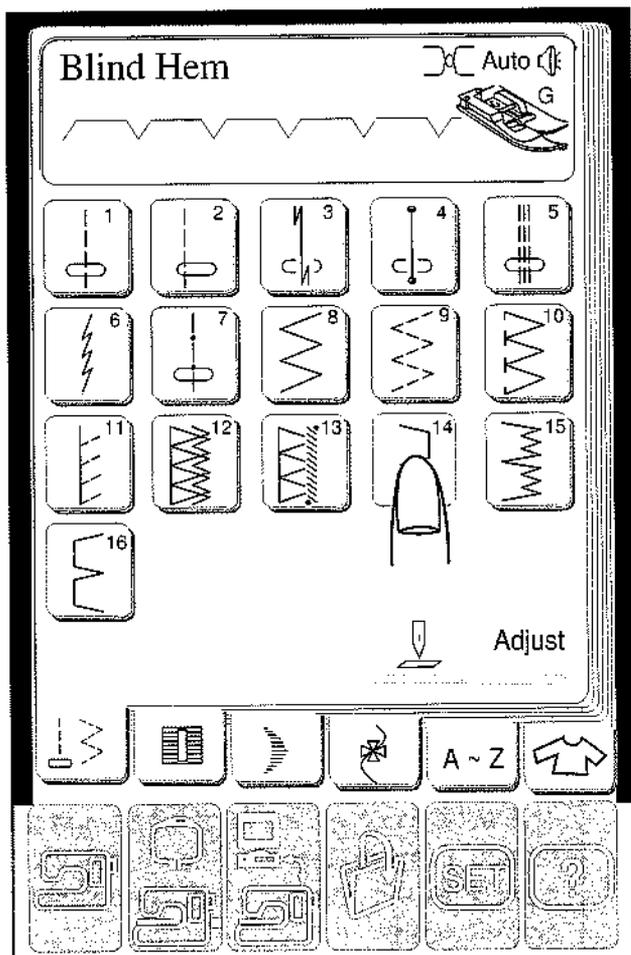
⑤



Pattern 13: Overlock Stitch

This stitch finishes the edges of fabric similar to a commercial overlocking machine for a professional look.

⑤ Overcasting Foot **M**



Blind Hem

Select Pattern 14 for woven fabrics or Pattern 15 for elastic fabrics.

Attach Blind Hem Foot **G**.

Notes:

- The stitch width of Patterns 14 and 15 can not be changed, but the needle drop position will change.
- You may change the stitch width by selecting Blind Hem in the Sewing Application.

How to fold the fabric

Fold the fabric to make a hem as shown.

- ① 0.4 - 0.7cm (3/16"-1/4")
- ② Overcasted Edge of Fabric
- ③ Wrong Side of Fabric

Position the fabric so that the Fold ④ comes to the left side of the Black Guide ⑤. Lower the presser foot.

Adjust the position of the needle swing with the Stitch Width key so that the needle just pierces the folded edge of the fabric when the needle comes over to the left side.

- ④ Fold
- ⑤ Black Guide

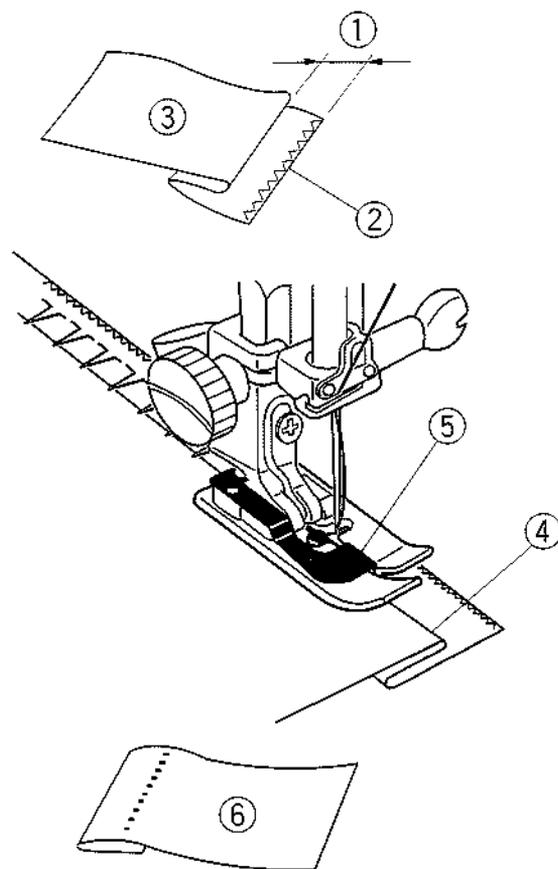
Sew guiding the Fold ④ along the Black Guide ⑤.

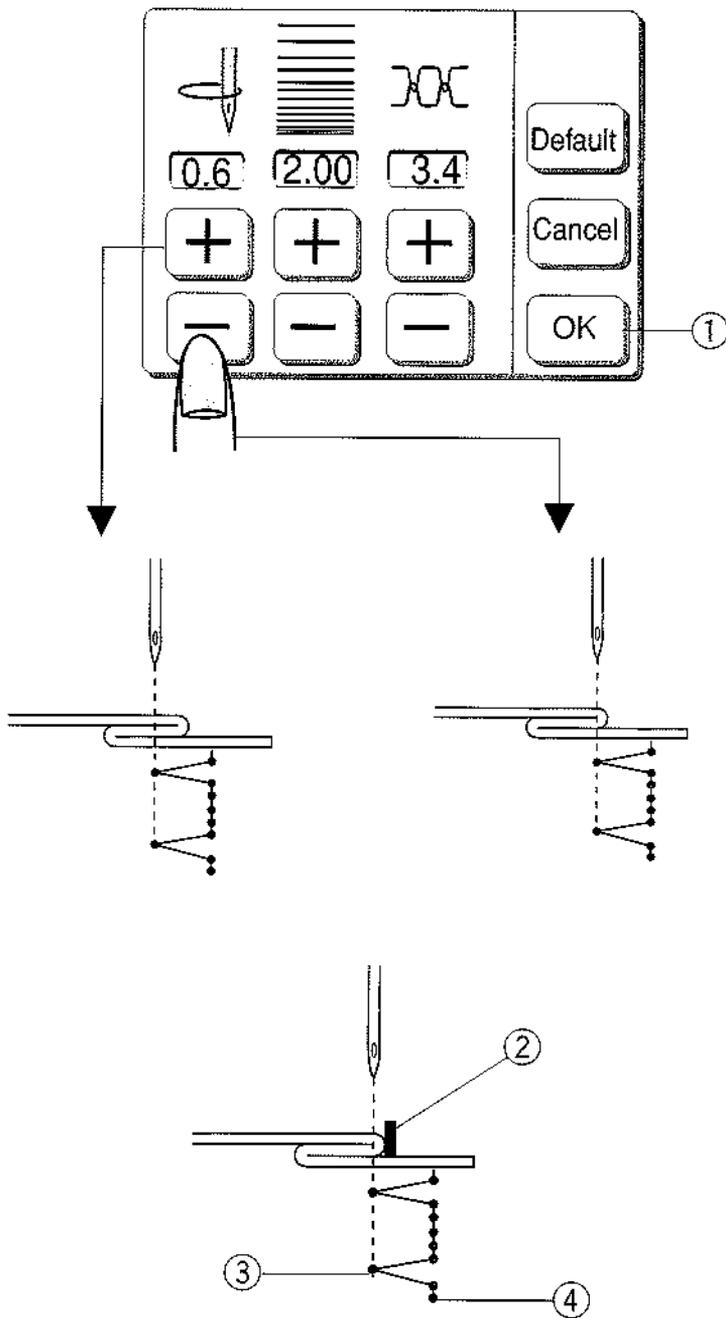
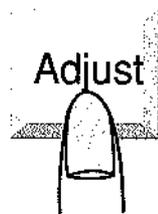
For a professional looking hem, fold the fabric reducing the hem width to about 0.2cm (1/8"). As you sew, the right hand stitch will fall off the fabric edge forming a chain stitch.

After sewing is finished, open the fabric.

The seam on the Right side of the Fabric ⑥ is almost invisible.

- ⑥ Right Side of the Fabric





Changing needle drop position

Press the **Adjust** key.

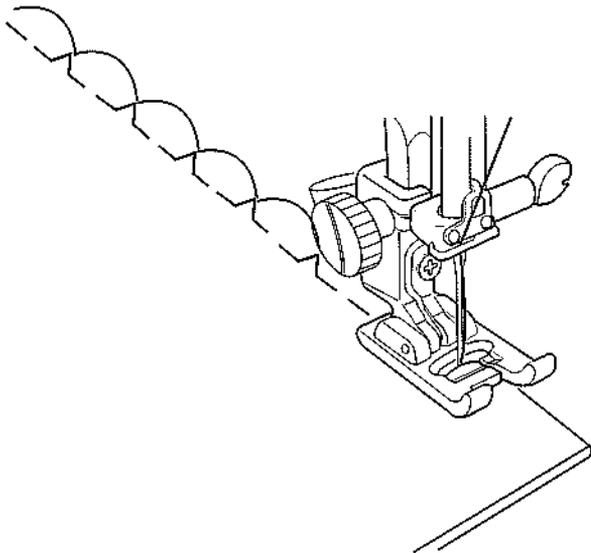
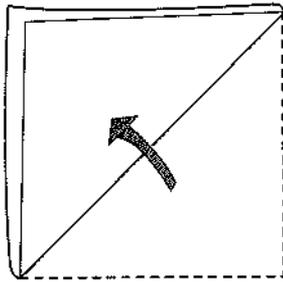
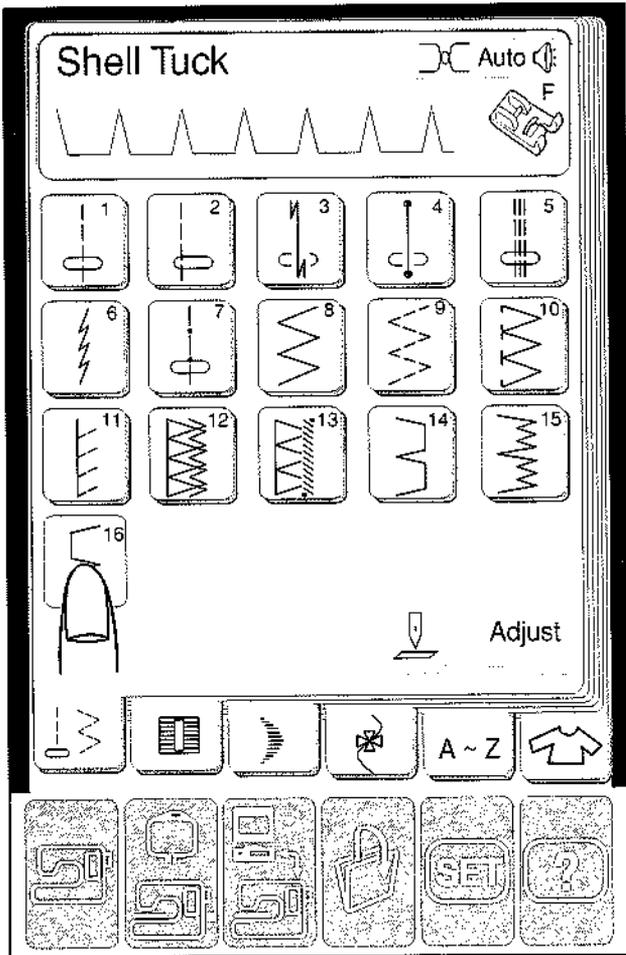
The adjusting window will appear.

Press the **-** key to move the needle to the right.

Press the **+** key to move the needle to the left.

Press **OK** key ①, to register any changes made to the settings.

- ① OK key
- ② Guide on Foot
- ③ Left Needle Drop Position
- ④ Right Needle Drop Position



Shell Tuck

Select Pattern 16.

Attach the Satin Stitch Foot F.

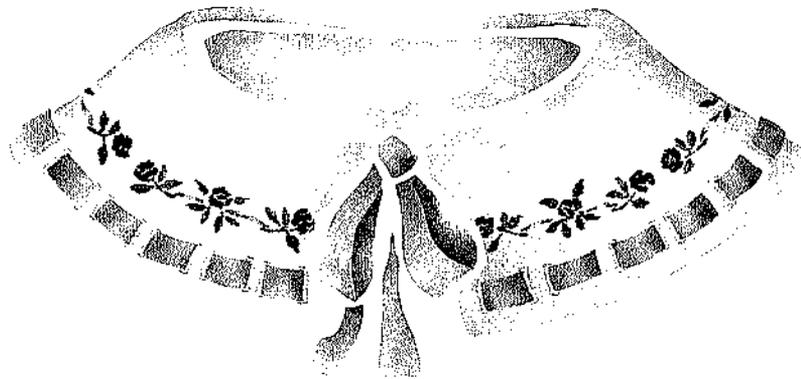
Fold the fabric in bias.

Sew along the fold so that the needle on the right swing just clear the folded edge to form tucks.

Note:

- You do not need to tighten thread tension, since the machine is set at tighter tension automatically.

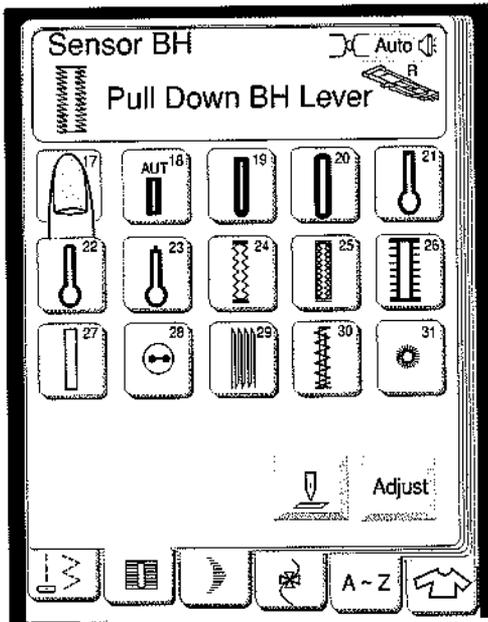
BUTTONHOLES



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BUTTONHOLES

Variety of Buttonhole Stitches



①



① Sensor (Square) BH

This square buttonhole is widely used on medium to heavy weight fabrics. The buttonhole size is automatically determined by placing a button in the foot.

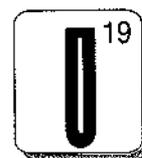
②



② Auto (Square) BH

This is also a square buttonhole similar to the Sensor Square Buttonhole, but you can manually set and memorize the buttonhole size to sew buttonholes of the same size.

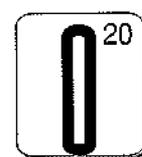
③



③ Round End BH

This buttonhole is used on fine to medium weight fabrics especially for blouses and children's clothes.

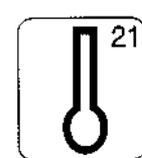
④



④ Fine Fabric BH

This buttonhole is rounded at both ends and is used on fine, delicate fabrics such as fine silk.

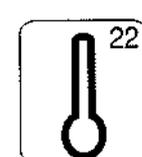
⑤



⑤ Keyhole BH

The Keyhole Buttonhole is widely used on medium to heavy weight fabrics. It is also suitable for larger and thicker buttons.

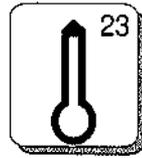
⑥



⑥ Rounded Keyhole BH

This buttonhole is used for thicker buttons on medium weight fabrics.

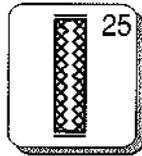
⑦



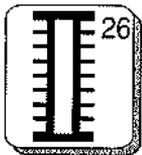
⑧



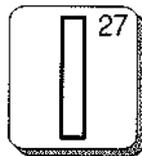
⑨



⑩



⑪



⑦ Tailored BH

This buttonhole is used for thick buttons and heavy fabrics.

The bartack and rounded end have been reinforced so that this tailored-looking buttonhole is very durable.

⑧ Stretch BH

This buttonhole can be used on stretch fabrics. It can also be used as a decorative buttonhole.

⑨ Knit BH

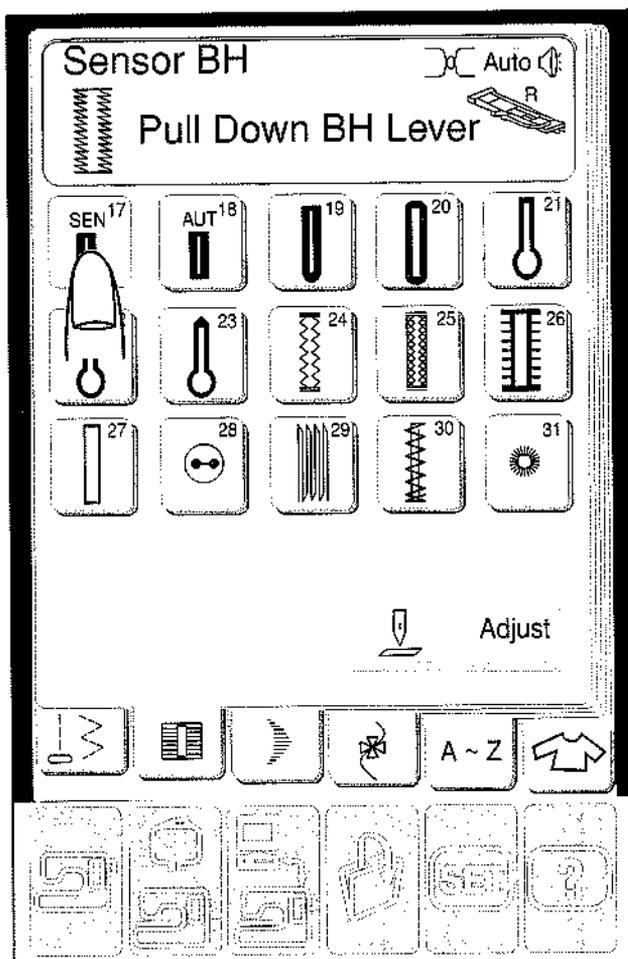
This buttonhole is suitable for knit fabrics. It can also be used as a decorative buttonhole.

⑩ Antique BH

This buttonhole looks like the heirloom stitch. It has an attractive handmade appearance and makes a nice decorative buttonhole.

⑪ Welted BH

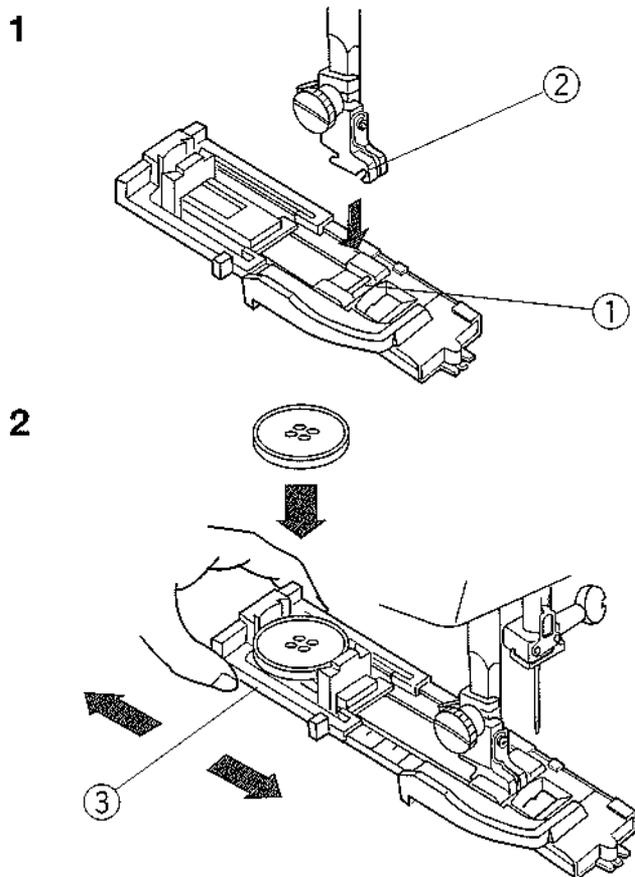
This stitch is used for making a Welted (bound) Buttonhole, which adds a professional look to suits and blazers. It can also be used on leather and suede.



Sensor Buttonholes

Notes:

- Buttonholes 17 and 19 to 27 are sensor buttonholes.
- The size of a buttonhole is automatically set by placing a button in the rear of Automatic Buttonhole Foot R.
- The button holder of the foot takes a button size of up to 2.5cm (1") in diameter.
- It is sometimes necessary to change buttonhole size to match certain heavy or specific materials and threads.
- Make a test buttonhole on an extra piece of the fabric to check your settings.
- Place the button on the fabric and mark the top and bottom to determine the position of the buttonhole on the fabric.
- Use interfacing on stretch fabrics.



To sew

1. Press the Up/Down Needle Button to raise the needle. Attach the Automatic Buttonhole Foot R snapping the Pin ① into the Groove ② of the foot holder. Raise the Presser Foot.

- ① Pin
- ② Groove

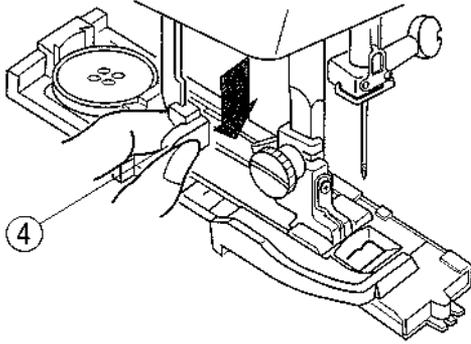
2. Pull the Button Holder ③ to the back, and place the button in it. Push it together tightly on the button.

- ③ Button Holder

Note:

- If the button is extremely thick, make a test buttonhole on an extra piece of the fabric. If it is difficult to fit the button through the test buttonhole, you can lengthen the buttonhole by pulling the Button Holder back a little extra. The length of the buttonhole will be increased.

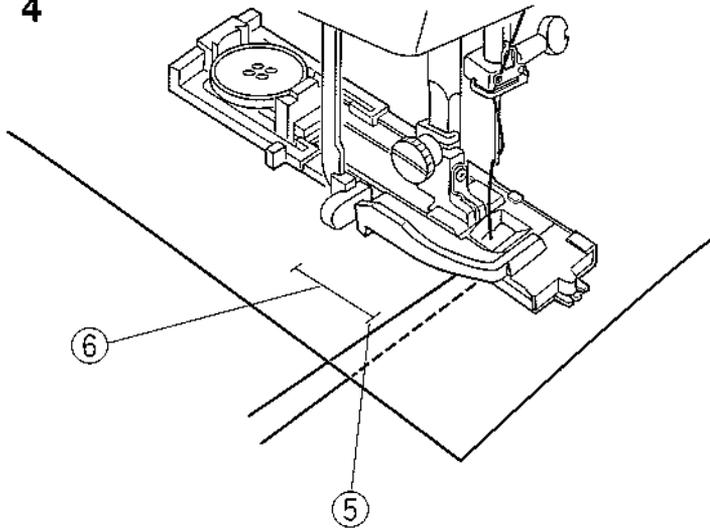
3



3. Pull the Buttonhole Lever (4) downward as far as it will go.

(4) Buttonhole Lever

4



4. Insert the corner of the fabric under the foot. Press the Up/Down Needle Button twice.

Remove the fabric to the left to draw both threads under the foot. Place the garment under the foot, and lower the needle at the Starting Point (5) of the Mark (6).

Then lower the Automatic Buttonhole Foot **R**.

(5) Starting Point

(6) Mark

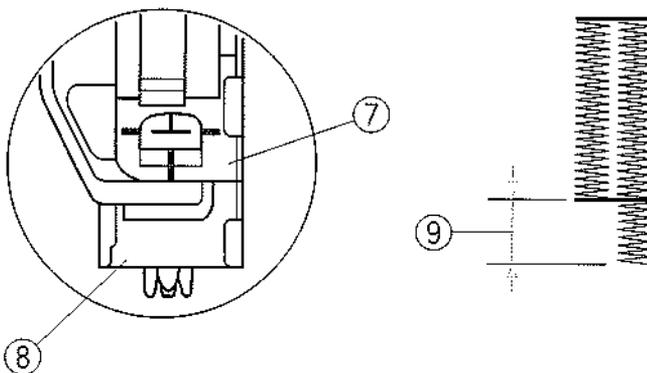
Note:

- Make sure there is no gap between the Slider (7) and Spring Holder (8), otherwise the left and right length will be different.

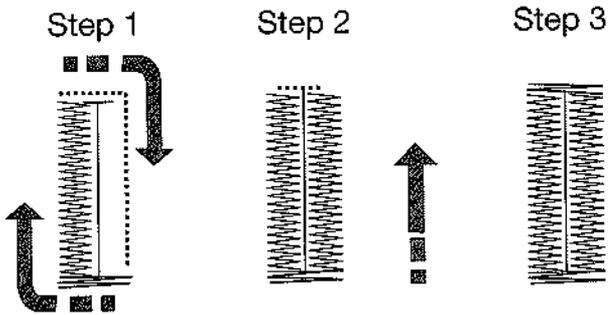
(7) Slider

(8) Spring Holder

(9) Sewing Gap

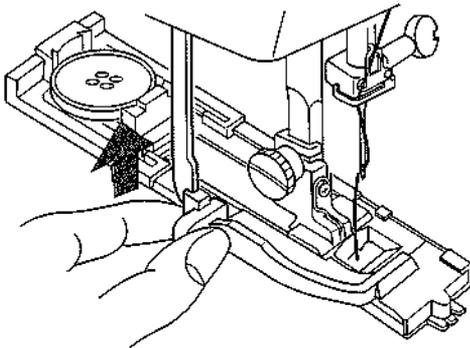


5

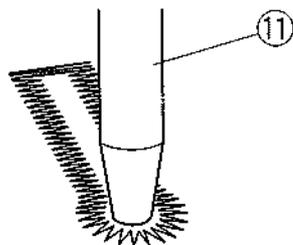
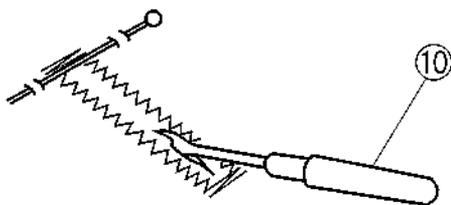


Completed.
Raise Presser Foot.

6



7



5. Press the Start/Stop Button to sew the buttonhole. The buttonhole will be automatically sewn in a single step.

Step 1: The machine will sew the front bartack and the left row first. Then it goes back to the starting point with straight stitch.

Step 2: The machine will sew the right row.

Step 3: The machine will sew the back bartack, and the machine will stop automatically.

To repeat buttonhole sewing

To sew another buttonhole, raise the presser foot and move the fabric to where the next buttonhole is sewn, then lower the foot and start the machine.

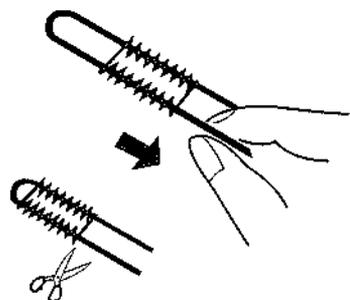
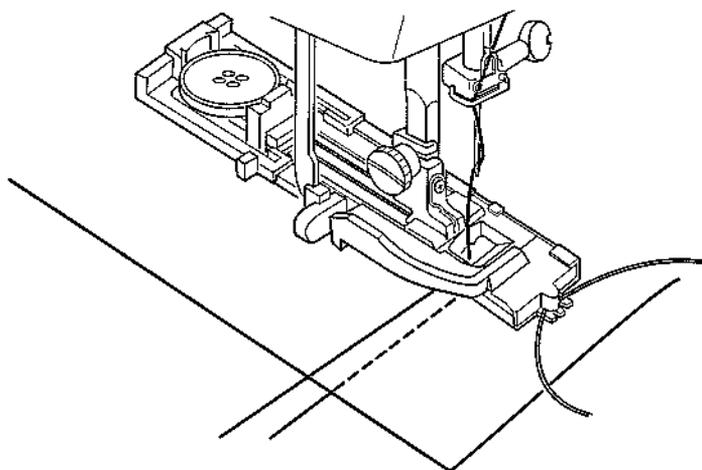
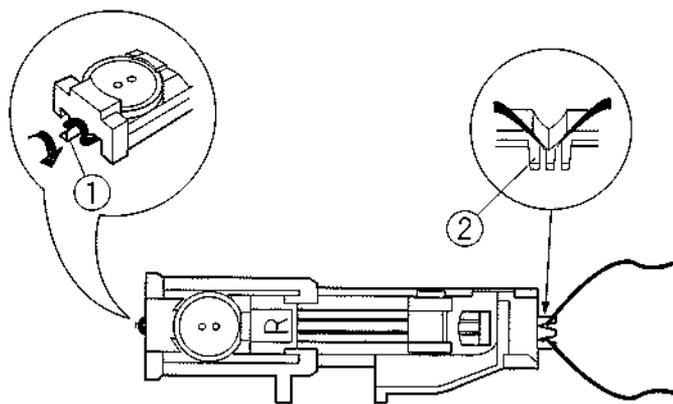
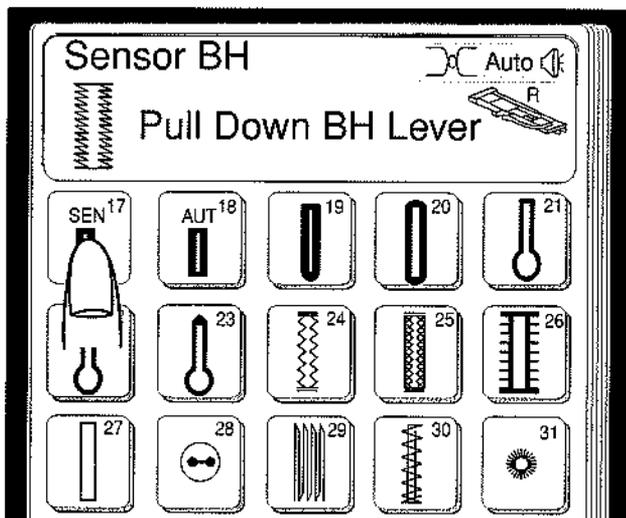
6. When buttonhole sewing is finished, push the buttonhole lever upward as far as it will go.

7. Remove the fabric and place a pin just below the bartack at each end to prevent accidentally cutting bartacks.

Cut the opening with the Seam Ripper ⑩. Use an Eyelet Puncher ⑪ to open a keyhole buttonhole.

⑩ Seam Ripper

⑪ Eyelet Puncher



Corded Buttonhole

To sew the corded buttonhole, follow the same procedure as Sensor Buttonhole; refer to the instructions on pages 38 to 40.

With Automatic Buttonhole Foot **R** raised, hook the filler cord on the Spur ① at the back of the buttonhole foot.

Bring the ends of cord toward you under the buttonhole foot clearing the front end.

Hook the ends of the filler cord into the Forks ② on the front of Automatic Buttonhole Foot **R**, to hold them tight.

- ① Spur
- ② Forks

Lower the needle into the garment where the buttonhole will start and lower the foot.

Press the Start/Stop Button and sew the buttonhole. Each side of the buttonhole and the bartacks will be sewn over the cord. The machine stops automatically when finished.

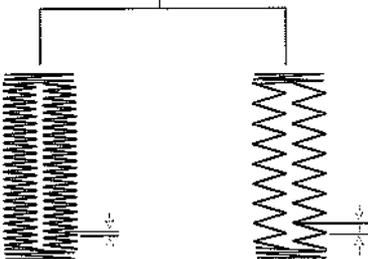
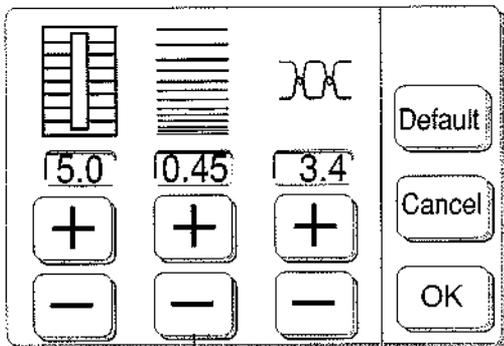
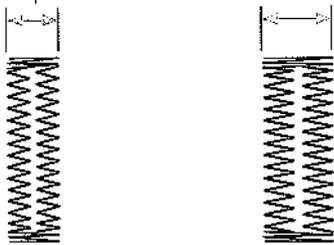
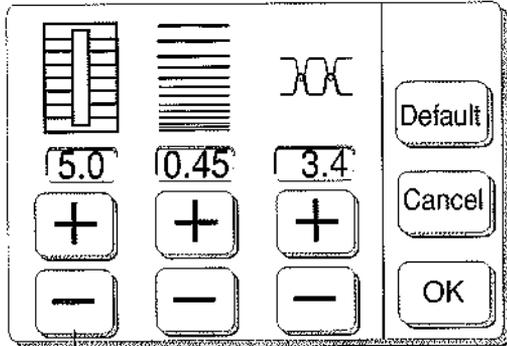
Remove the fabric from the machine and cut the sewing threads only.

Pull the left end of the filler cord to tighten it. Thread the end of the cord through a darning needle, draw it to the wrong side of the fabric and cut.

Notes:

- Set the stitch width in accordance with the thickness of the cord used.
- To cut the buttonhole opening, refer to the instructions on page 40.

Adjust



Changing buttonhole width

Press the **Adjust** key, the adjusting window opens.

Press the **+** key to increase the buttonhole width.

Press the **-** key to decrease the buttonhole width.

Press the **OK** key to register the settings.

Note:

- The default setting is 5.0.

Changing buttonhole stitch density

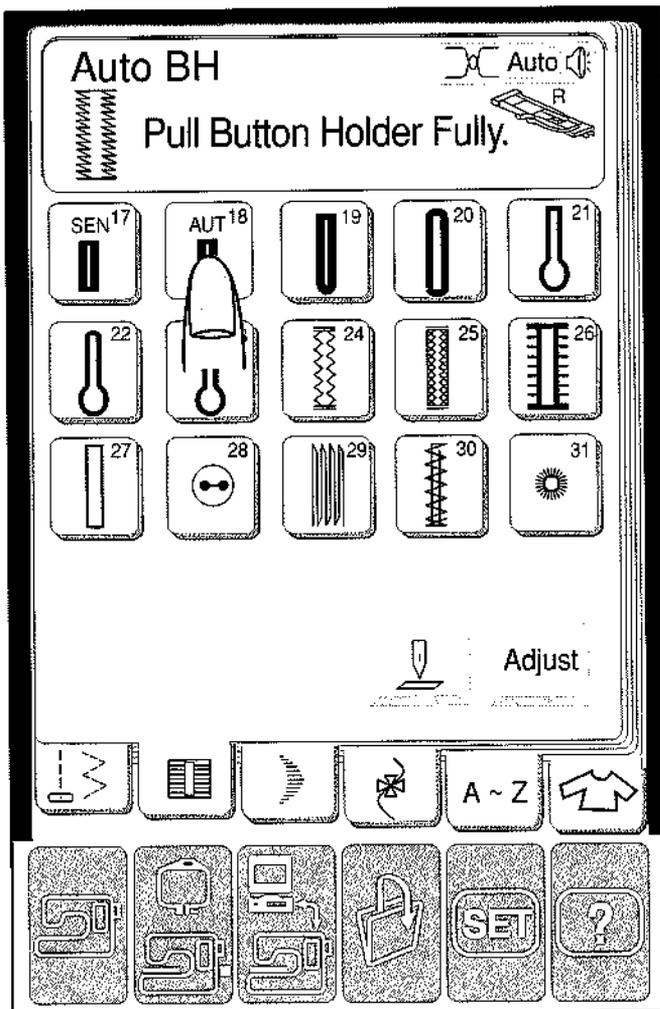
Press the **+** key to make the buttonhole stitch density coarser.

Press the **-** key to make the buttonhole stitch density denser.

Note:

- The default setting is 0.45.

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Automatic Buttonhole

Select Pattern 18.

Attach the Automatic Buttonhole Foot **R**. Pull the Button Holder ① all the way out.

Mark the buttonhole position on the fabric.

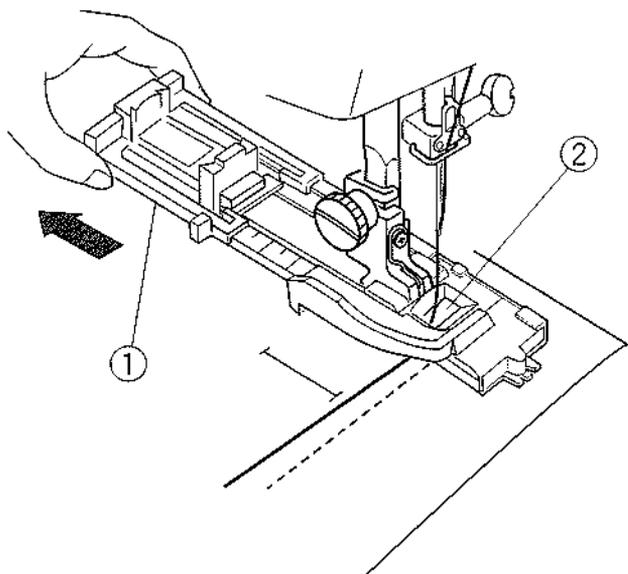
Insert the fabric under the foot. Press the Up/Down Needle Button twice. Remove the fabric to the left to draw the needle thread through the Hole ② of the foot.

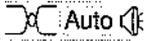
Insert the garment under the foot, and lower the needle at the starting point. Then lower the Automatic Buttonhole Foot **R**.

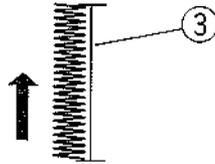
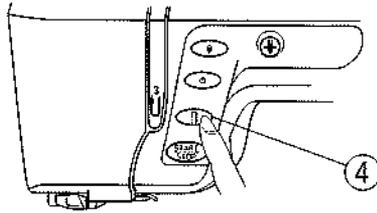
- ① Button Holder
- ② Hole

Notes:

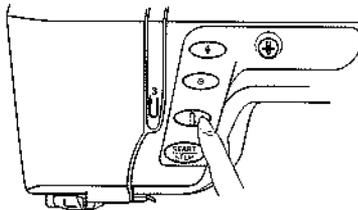
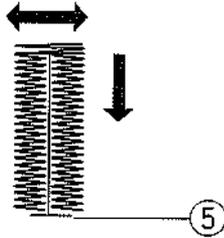
- You do not need to pull down the Buttonhole Lever.
- If you would like to change the buttonhole width, stitch density and thread tension press the Adjust key.
- If there is a difference in stitch density between the right and left rows of the buttonhole, refer to page 70 of Book 1.
- If you would like to sew a buttonhole longer than the size permitted by the Automatic Buttonhole Foot **R**, use Satin Stitch Foot **F**.

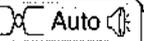


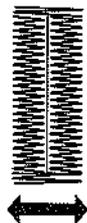
Step1  Sew to Length Required, then Press "↶".



Step2  Sew up to Start Position, then Press "↶".



Step3  Machine stops When BH is Completed.



Restart for the Same Size.
Different Size → 

Sew up the left side stopping at the end of the Buttonhole Mark ③. Press the Reverse Button ④.

- ③ Buttonhole Mark
- ④ Reverse Button

Depress the Foot Control. The machine will automatically tack and sew down the right side of the buttonhole.

Stop the machine when you are directly opposite the Starting Point ⑤.

Press the Reverse Button.

- ⑤ Starting Point

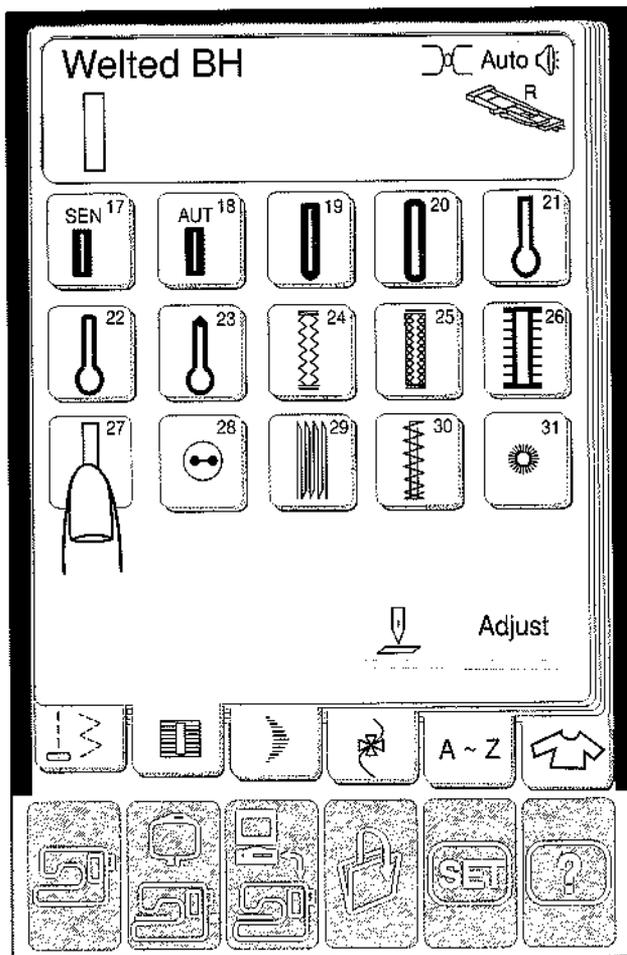
Keep the Foot Control depressed. The machine will bartack, lock the stitches and automatically stop when the buttonhole is completed.

To make the next buttonhole, position the fabric and step down on the Foot Control.

To sew the next buttonhole at a different size press the  key.

Notes:

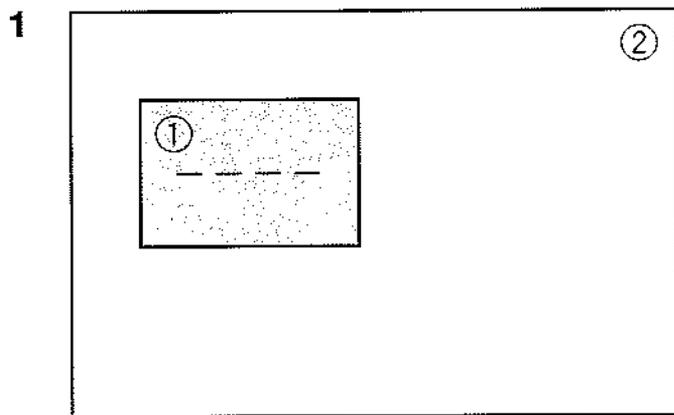
- The machine will sew another buttonhole identical to the first one each time you step down on the Foot Control.
- To cut the buttonhole opening, refer to the instructions on page 40.



Welled Buttonhole (Bound Buttonhole)

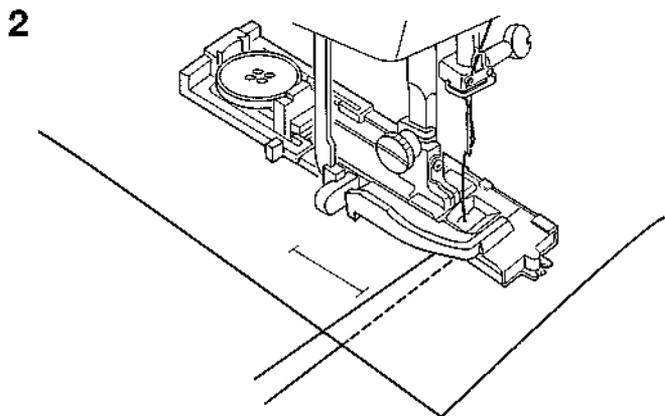
Welled Buttonhole is made by stitching a strip or patch of fabric to the buttonhole.

Welled Buttonhole is particularly suited to tailored garments, but are not recommended for sheer or delicate fabrics where the patch might show through or add bulk.



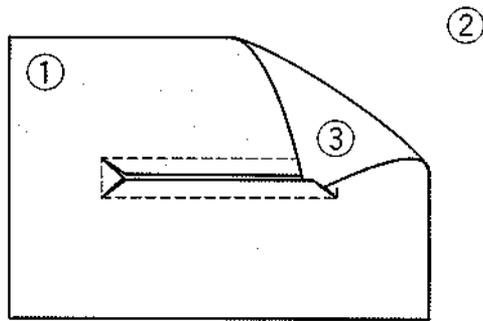
1. Baste a patch to the garment fabric with the right sides together.

- ① Wrong Side of Patch
- ② Right Side of Garment Fabric



2. Select Pattern 27. Sew the Welled Buttonhole on both fabrics together (see pages 38-40 for the sewing procedure).

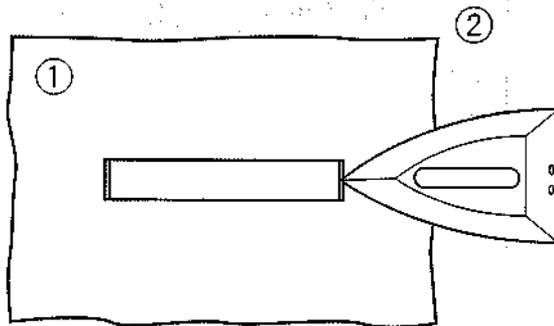
3



3. Cut the buttonhole opening as illustrated then pull the patch out through the slit to the other side.

- ① Wrong Side of Patch
- ② Right Side of Garment Fabric
- ③ Right Side of Patch

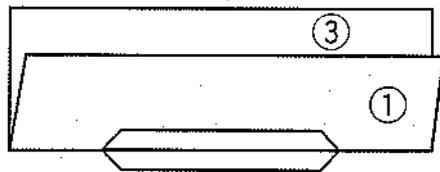
4



4. Pull out the patch until the right side of the patch is showing. Use an iron to press both corner ends until they are squared off.

- ① Right Side of Patch
- ② Wrong Side of Garment Fabric

5

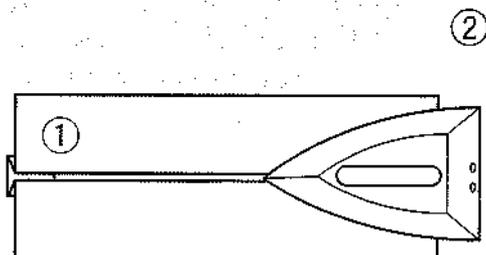


5. Fold back each side of the patch to form buttonhole lips.

- ① Wrong Side of Patch
- ② Right Side of Garment Fabric
- ③ Right Side of Patch

②

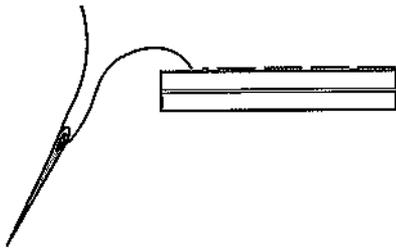
6



6. Press the both folds with an iron.

- ① Right Side of Patch
- ② Wrong Side of Garment Fabric

7

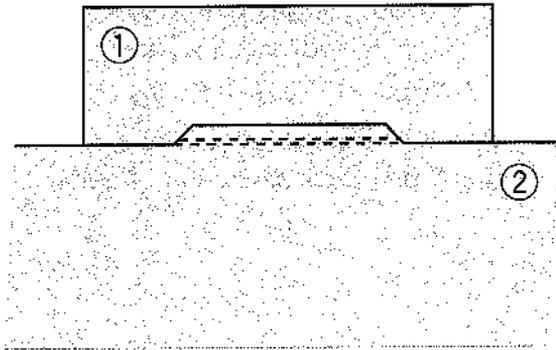


①

7. Baste the both edges of the seam with needle and thread as shown.

① Right Side of Garment Fabric

8

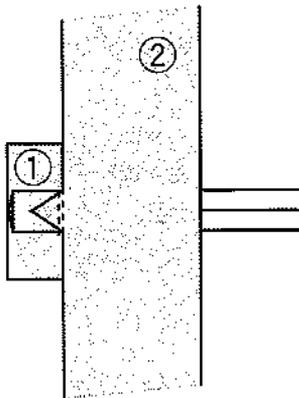


8. Fold over the length of the garment fabric, sew back and forth besides the original seam to secure flaps of the patch.

① Wrong Side of Patch

② Wrong Side of Garment Fabric

9



③

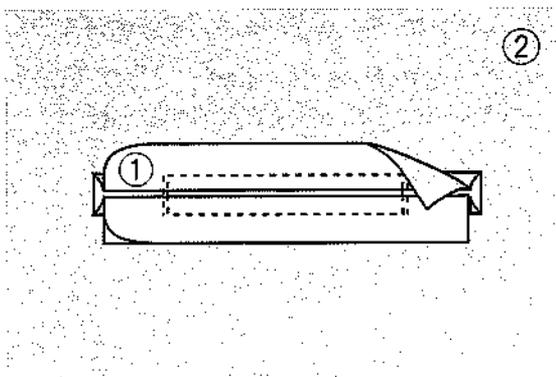
9. Fold over the end of fabric and sew back and forth three times over the triangular end.

① Wrong Side of Patch

② Wrong Side of Garment Fabric

③ Right Side of Garment Fabric

10

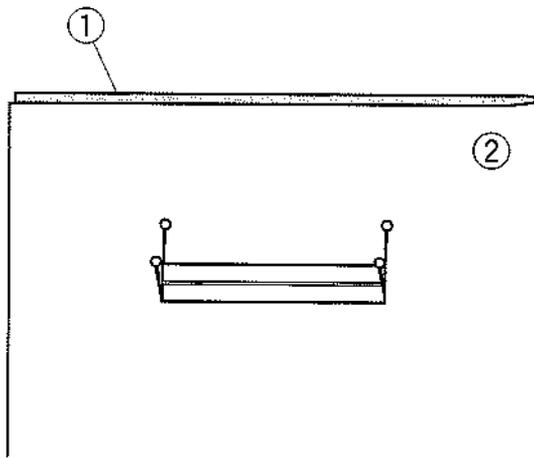


10. The patch should be cut 0.7 to 1cm (1/4"-7/16") away from the hole. The corners should be cut rounded off as shown.

① Right Side of Patch

② Wrong Side of Garment Fabric

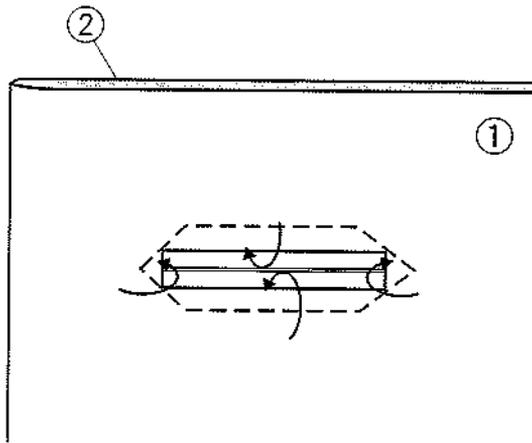
11



11. Place the Facing ① on the wrong side of the Garment Fabric ②. Mark the 4 corners with pins as shown.

- ① Facing
- ② Garment Fabric

12



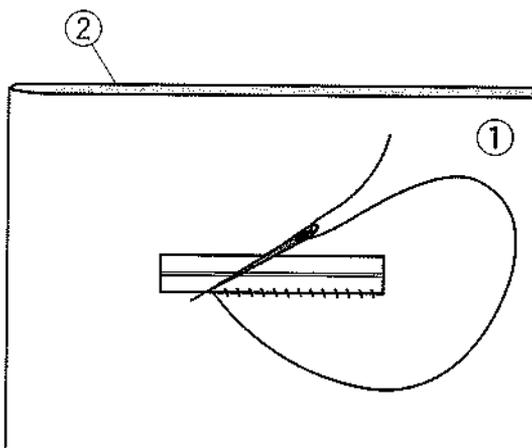
12. Turn all the layers over and cut the buttonhole opening on the facing in the same way as step 3.

Four marker pins show you the corner points on the facing.

Fold back each flaps between the facing and patch.

- ① Facing
- ② Garment Fabric

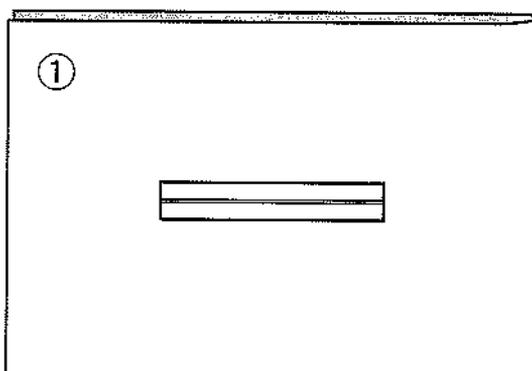
13



13. Stitch around the opening with a needle and thread as shown.

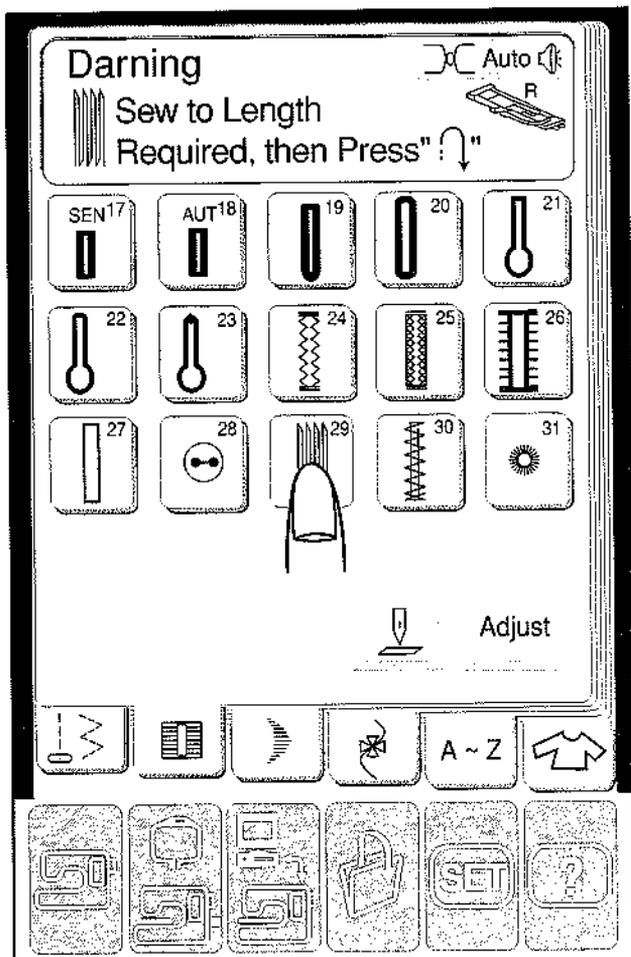
- ① Facing
- ② Garment Fabric

14



14. Welted Buttonhole is complete.

- ① Garment Fabric

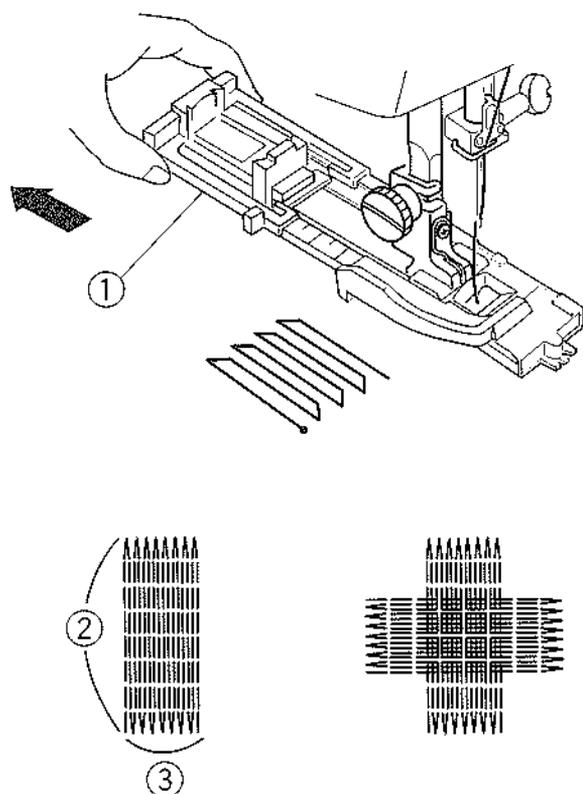


Darning

Memory Craft 10000 automatically darns rips and holes. Large and small holes can be mended quickly and easily with this unique stitch.

Automatic Buttonhole Foot **R** is used to hold the fabric securely in place while darning.

For extra support, or to strengthen the darn, pin or baste a backing fabric such as organdy under the hole.



Select Pattern 29.

Pull the Button Holder ① to the rear.

Place the garment under the foot. Press the Up/Down Needle Button twice. Remove the fabric to the left to draw both threads under the foot and put the fabric back under the foot.

Lower the foot. Press the Start/Stop Button, the machine will lock stitch, sew rows of darning, lock stitch and stop automatically.

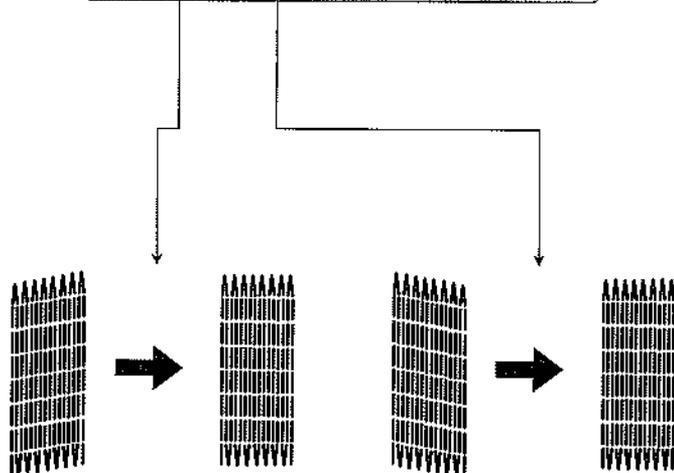
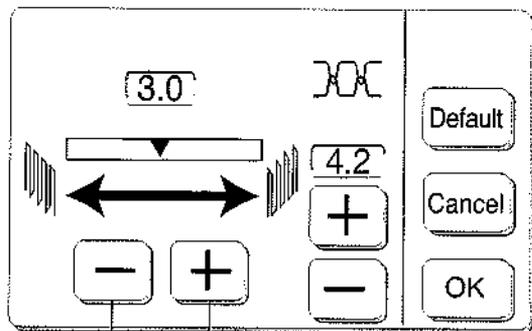
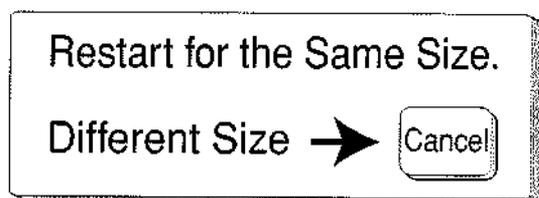
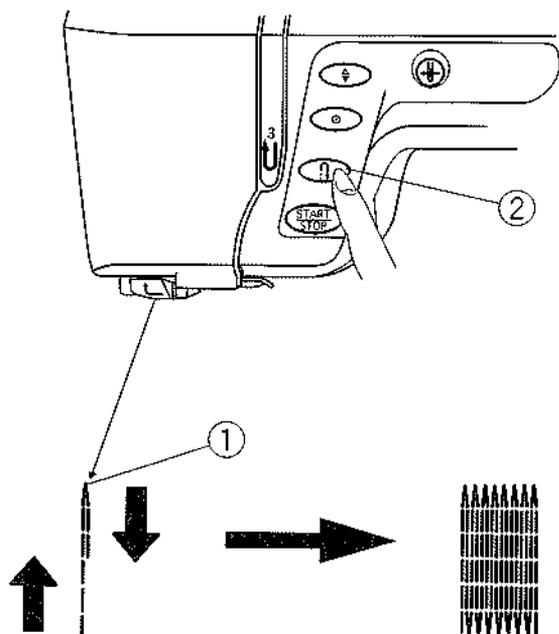
Repeat sewing by turning the fabric to reinforce it.

① Button Holder

Note:

- The maximum size of darning is 2cm (3/4") long and 0.7cm (1/4") wide.

② Maximum Length 2cm (3/4")
 ③ Maximum Width 0.7cm (1/4")



To sew a shorter darning

To sew a darning a length of less than 2cm (3/4"), first stop the machine after sewing the Required Length ①, then press the Reverse Button ②. The Required Length ① has now been determined.

Now restart the machine and continue sewing until the machine stops automatically.

- ① Required Length
- ② Reverse Button

To sew the same size darning

Simply restart the machine to sew another darning in the same size.

To sew the next darn at a different size, press the Cancel key.

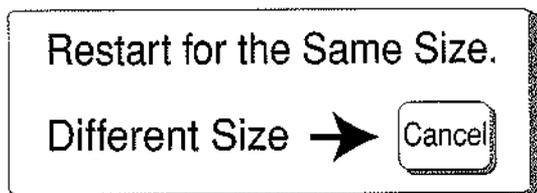
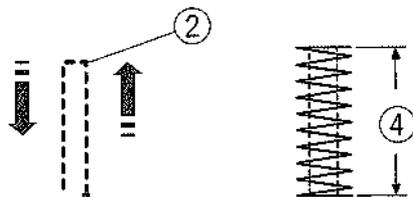
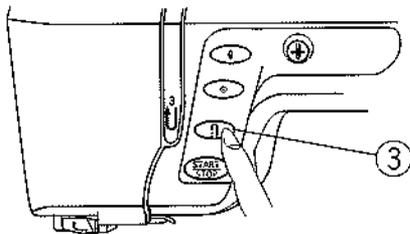
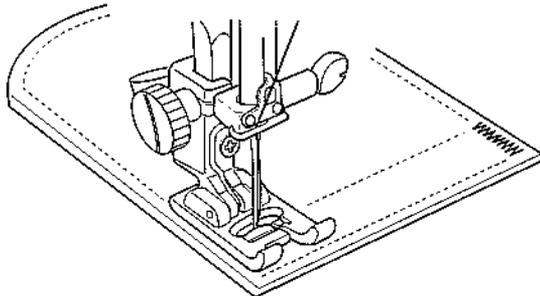
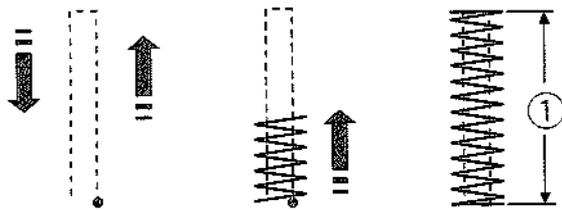
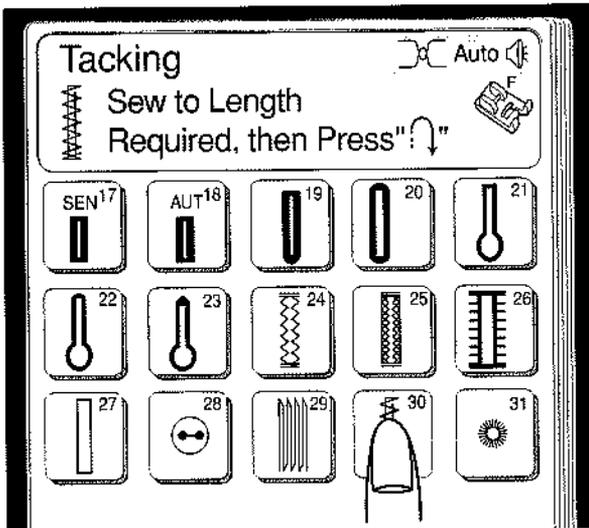
To adjust the evenness of darning

You can correct the unevenness of darning by pressing the + or - keys.

If the left corner is lower than the right side, press the - key to correct it, and vice versa.

Note:

- The default setting is 3.0.



Tacking

Tacking is used to reinforce pockets, crotches and belt carriers where extra strength is needed.

Select Pattern 30 and attach the Satin Stitch Foot F.

The machine will sew a tacking of 1.5cm (9/16") ① long automatically.

① 1.5cm (9/16")

Note:

- Press the Adjust key to manually change the stitch length and stitch width.

To sew a shorter tack

When you sew less than 1.5cm (9/16") in length, sew to the Required Length ② and press the Reverse Button ③ and the machine will memorize the Tack Length ④ .

② Required Length

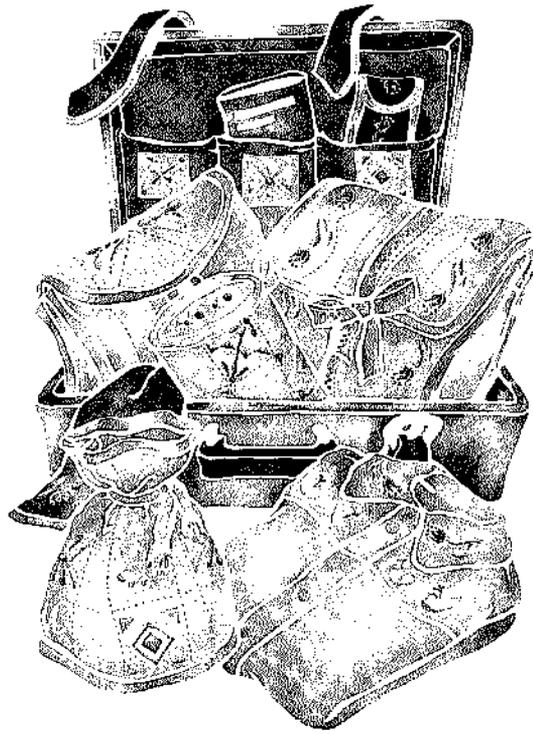
③ Reverse Button

④ Tack Length.

To sew the same size

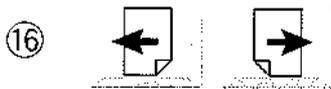
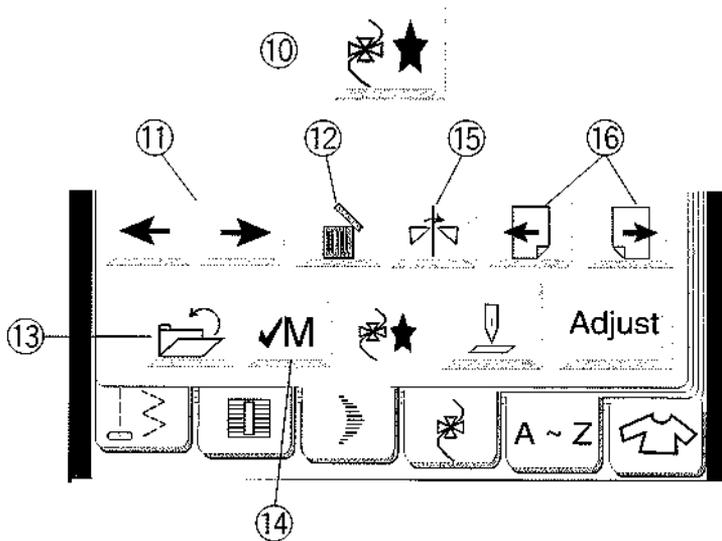
To sew another tack in the same size, simply restart the machine and it will stop automatically when finish sewing.

To sew the next tack at a different size, press the Cancel key.



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SATIN STITCHES



⑩ **Program Key:** Press key to program pattern combination. When you press this key the following function keys will be displayed.

⑪ **Cursor Keys:** Press the keys to move the cursor to the right or left. Press the key to memorize the selected pattern. The pattern image on the screen will turn red when it is memorized. You can select a pattern to delete, select a position to insert another pattern.

⑫ **Delete Key:** Press the keys to move the cursor under the pattern you would like to delete. Press the key to delete the selected pattern.

⑬ **Save File Key:** You can memorize the program that you made with the key.

Note:

- You can memorize up to 100 files.

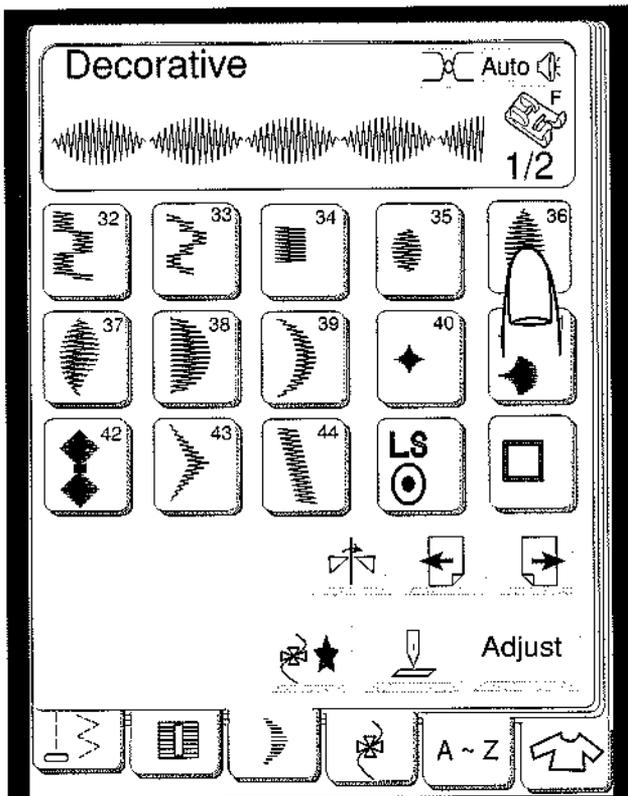
⑭ **Memory Check Key**

Press the key to see the entire monogramming, while you are programming.

After you started sewing, the key indication will change to . You can start sewing the monogram from the beginning by pressing key.

⑮ **Vertical Mirror Key:** Press key for the mirror image of the pattern.

⑯ **Page Keys:** The keys inform you that there are other pages to be displayed. Press key to view the next page. Press key to view the previous page.



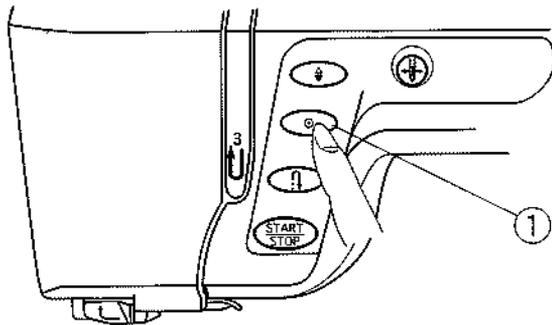
One Cycle Pattern Sewing

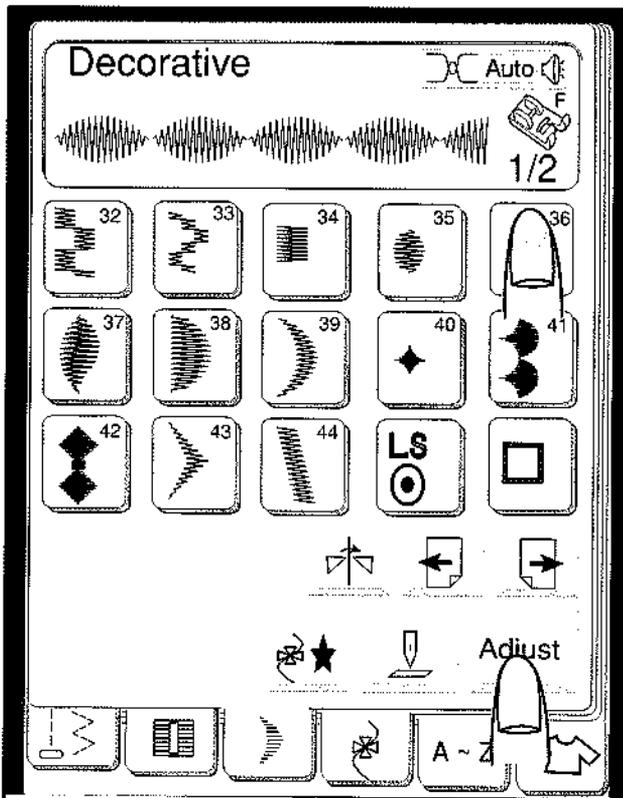
Select your desired pattern.

Start the machine to sew.

Press the Auto-Lock Button ① in the middle of the pattern, the machine will sew to end of the pattern and lock the stitches, then stop automatically.

① Auto-Lock Button





Elongation Sewing

Example: Pattern 36

Select Pattern 36.

Press the **Adjust** key.

Press Elongation **+** or **-** key to set the desired pattern length.

Note:

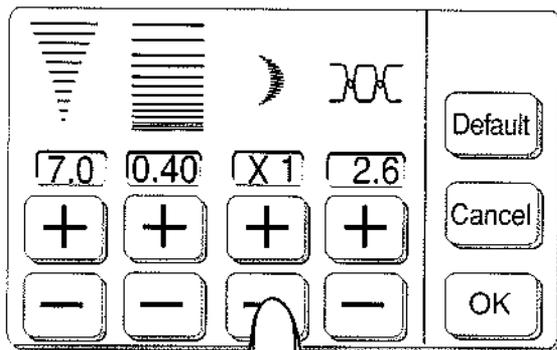
- Elongation ratio is indicated by the multiple of the original pattern length.

Press **OK** key. The setting is registered and the screen returns to the previous window.

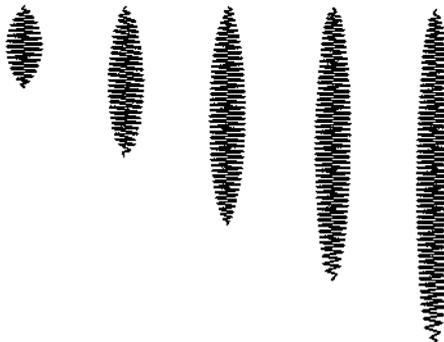
Start to sew.

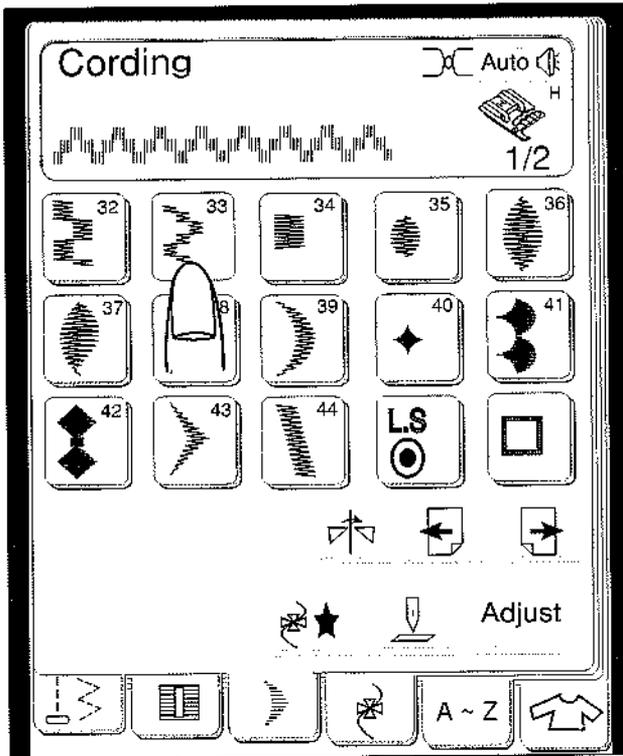
Note:

- If you press the **LS** key in the middle of a programmed pattern the machine will stop automatically after the current pattern is completed.



X1 X2 X3 X4 X5

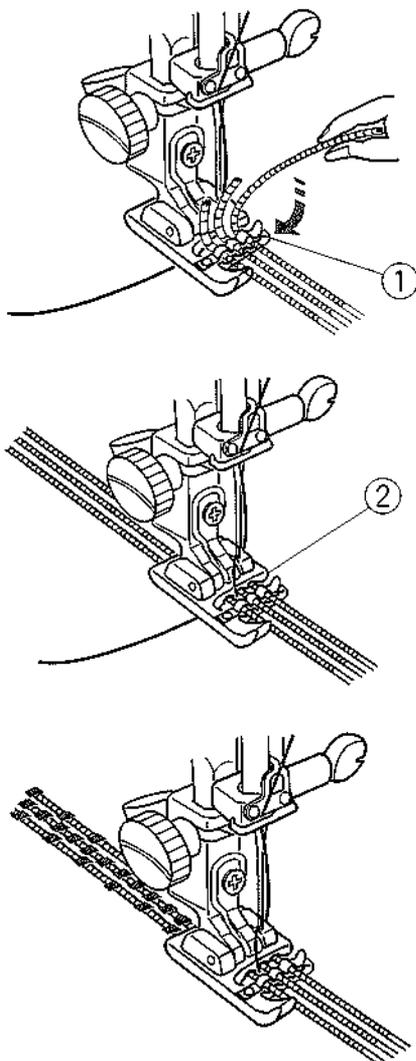




Cording

Use the Cording Foot **H** to sew over one strand of cording to create a pretty swirled design on a jacket or vest. Sew over three strands of cording for border trims. Pearl cotton, knitting yarn, embroidery floss, lace thread, fine wool or lily yarn can be used for cording.

Select Pattern 33, for sewing three strands of cording.



Mark the design on the right side of the fabric. Draw the sewing threads to the left and under the foot. Insert three strands of cording under the Spring ① of the foot and draw them under the foot to the rear.

① Spring

Pull 10cm (4") of cording behind the foot. The Slots ② and bottom grooves on foot will hold the lengths of cording in place while the stitches form over the cording.

② Slot

Hold the three strands parallel for even sewing and be sure to match the stitches over the strands. Stitch slowly and smoothly turning the fabric as you sew while guiding the cordings over the marked line.

Note:

- Select Pattern 34 and adjust the zigzag width at 3.0, for sewing a single strand of cording.

Use the center groove on the foot when sewing a single strand.



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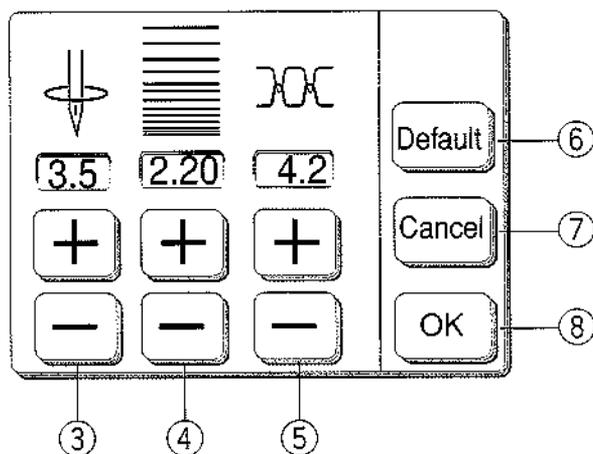
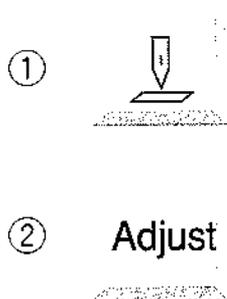
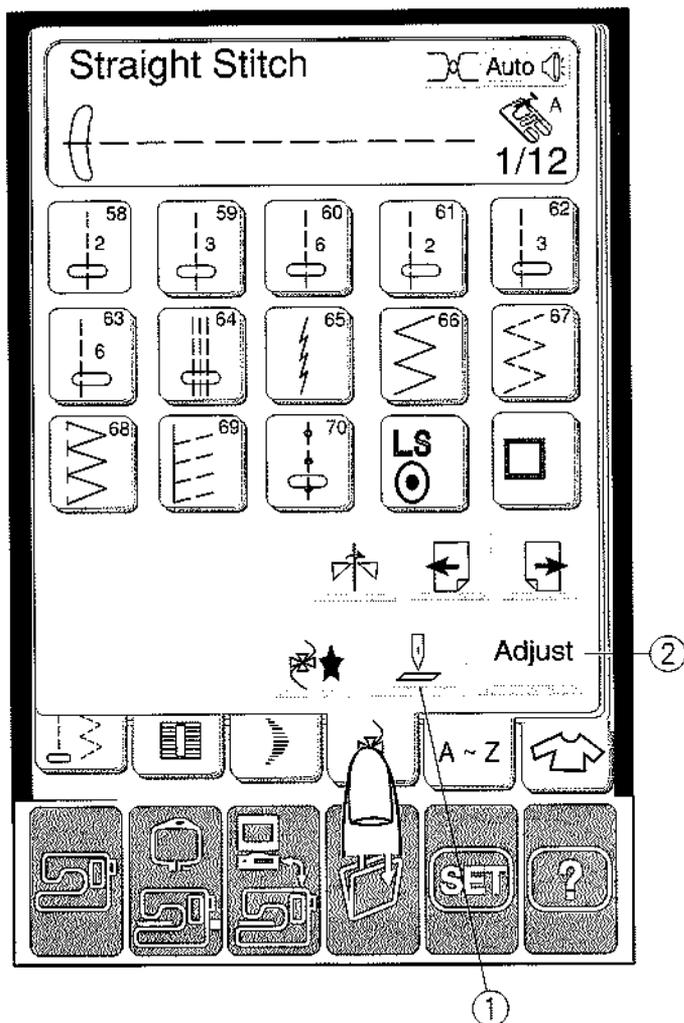
DECORATIVE STITCHES

DECORATIVE STITCHES

In the Decorative Stitch Mode, some utility stitches, such as straight stitches, zigzag stitch, overedge stitch are included as programmable patterns.

The number beside the pattern image on the straight stitch key denotes stitch counts of a programmable unit.

Press  key to select the Decorative Stitch Mode.

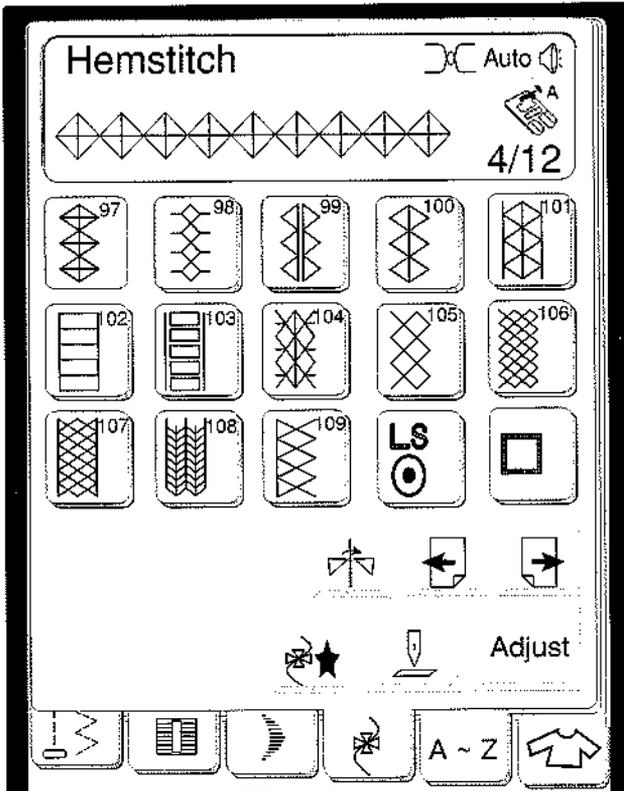


Function Keys

- ① **Needle Up/Down Key:** Press  key to bring the needle bar up or down when stopping the machine.
- ② **Adjust Key:** Press  key to open the Setting window.
- ③ **Zigzag Width:** Press the Zigzag Width  or  keys to change the stitch widths.
- ④ **Stitch Length:** Press the Stitch Length  or  keys to increase/decrease the stitch length.
- ⑤ **Thread Tension:** Press the Thread Tension  or  keys to increase/decrease the thread tension.
- ⑥ **Default key:** When you press  key, all settings in the adjusting window will return to default (the same settings as when you purchased the machine).
- ⑦ **Cancel key:** When you press  key, the adjusting window will close and the setting remains.
- ⑧ **OK key:** Press  key. The setting is registered and the screen returns to the previous window.

Note:

- When you turn the machine off, the selected pattern, the settings for zigzag width, stitch length, and thread tension will be cancelled.



Sewing a Series of Decorative Stitch

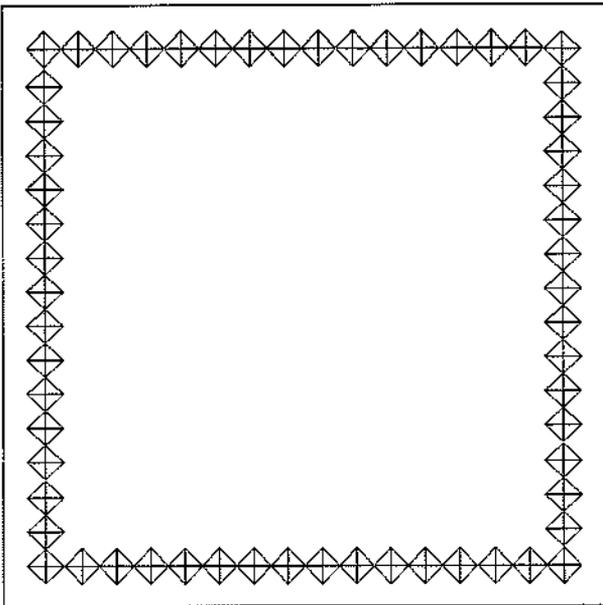
Example 1: Border stitch with Pattern 97.

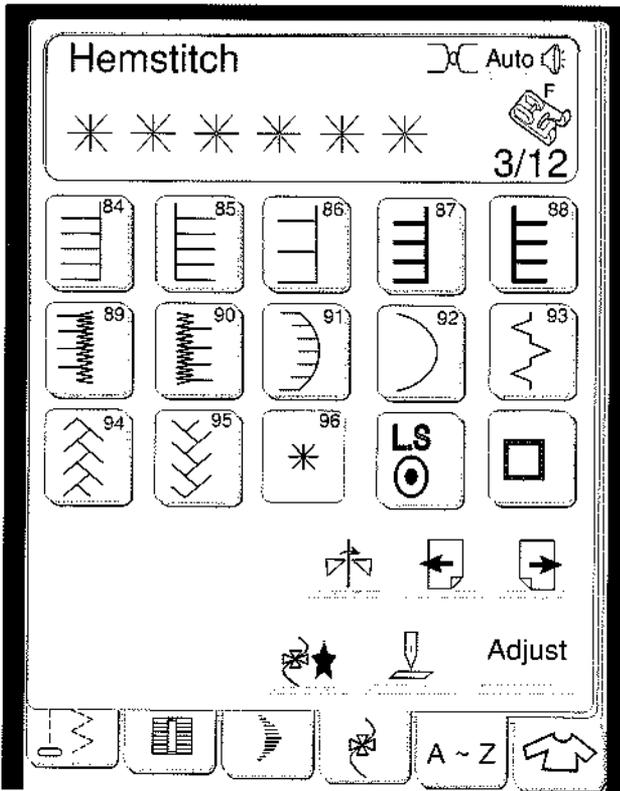
Press the  key till page 4 of 12 opens.

Select Pattern 97 (Hemstitch).

Sew a line of the Pattern 97 along the fabric edge. Press the Auto-Lock Button in the middle of sewing the last pattern in the line, the machine will lock the stitches and stop automatically when finished.

Repeat the same steps to sew along other sides.





Example 2: Square with Pattern 96 (Hemstitch)

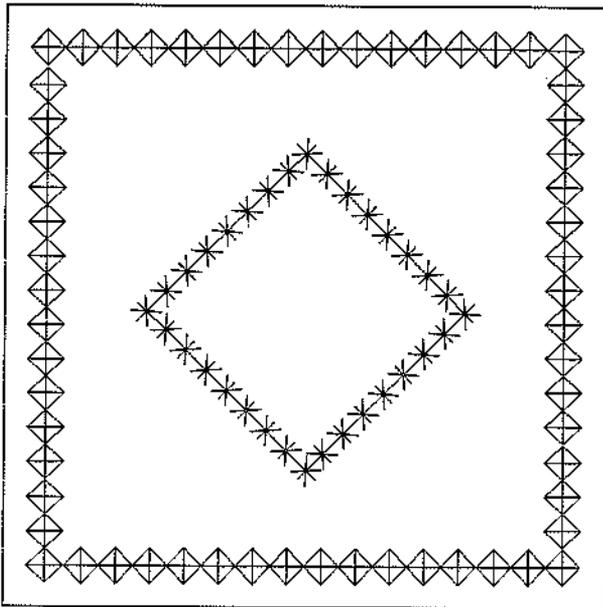
Draw a square in the center of the fabric with tailor's chalk.

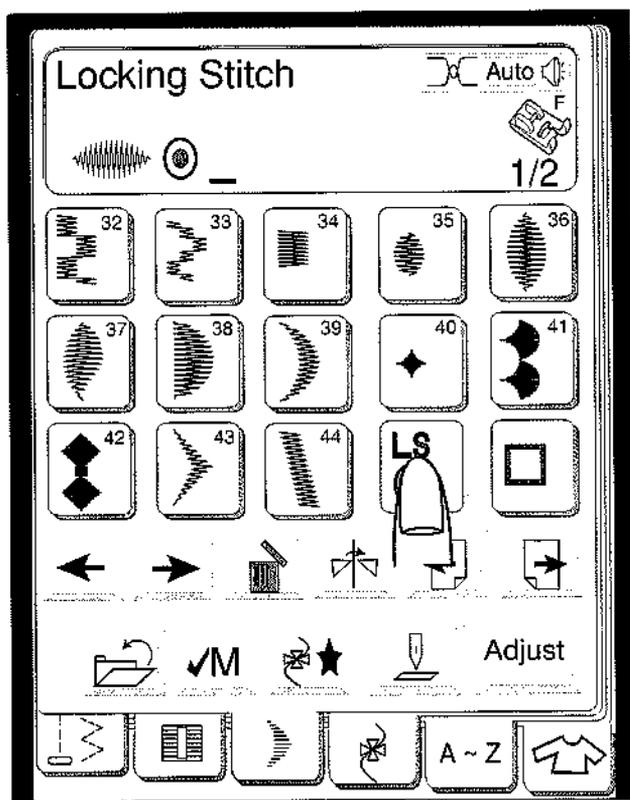
Press the key till page 3 of 12 opens.

Select Pattern 96 and sew along the line. Press the Auto-lock Button in the middle of sewing the last pattern in the line.

The machine will stop automatically.

Sew each side one by one to form a square.





Programming Pattern Combination

Program Key

When you press the  key, function keys for programming will appear.

You can program combination of patterns from Satin Stitch and Decorative Stitch windows.

Note:

- When you press the  key again, the program will be cancelled and the initial screen will reappear.

Example: One cycle sewing with a lock stitch at the end of a pattern

Select the Satin Stitch Mode.

Press the  key.

Select Pattern 36.

Press the  key to move the cursor to the right. The pattern is automatically memorized.

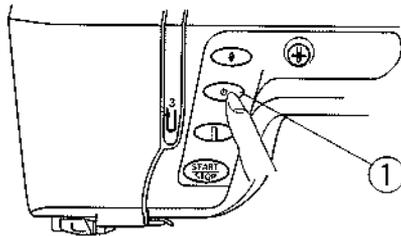
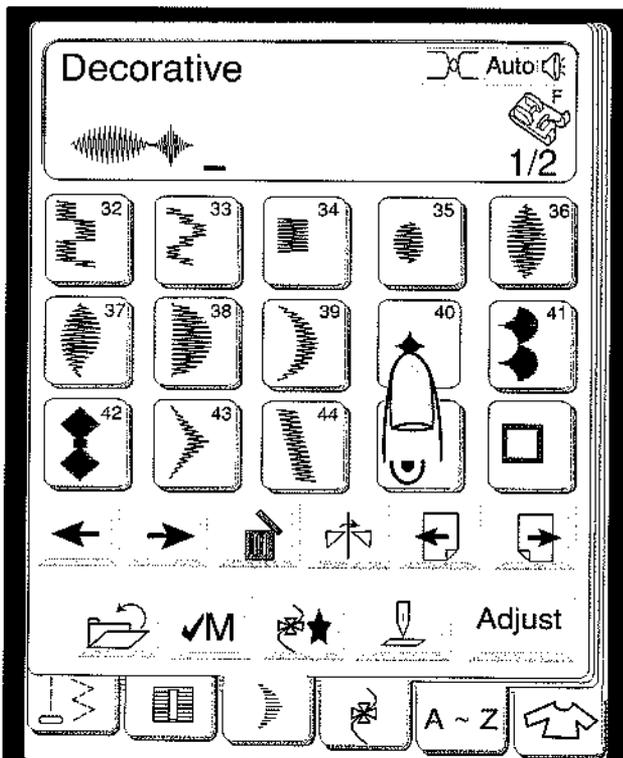
Press  key.

Press the  key to move the cursor to the right.

The machine will sew one complete pattern and lock the stitches at the end of the pattern, then stop automatically.

Note:

- When memorizing a pattern, locking stitches will be automatically inserted at the beginning of the pattern.



Programming Pattern Combination

Example: Programming Pattern 36 and Pattern 40.

Select Pattern 36.

Press key.

Press the key to move the cursor to the right and memorize it.

Select Pattern 40.

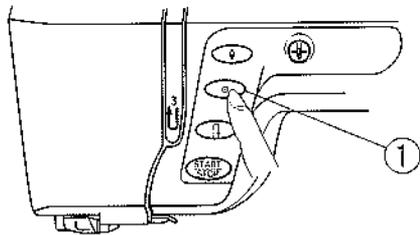
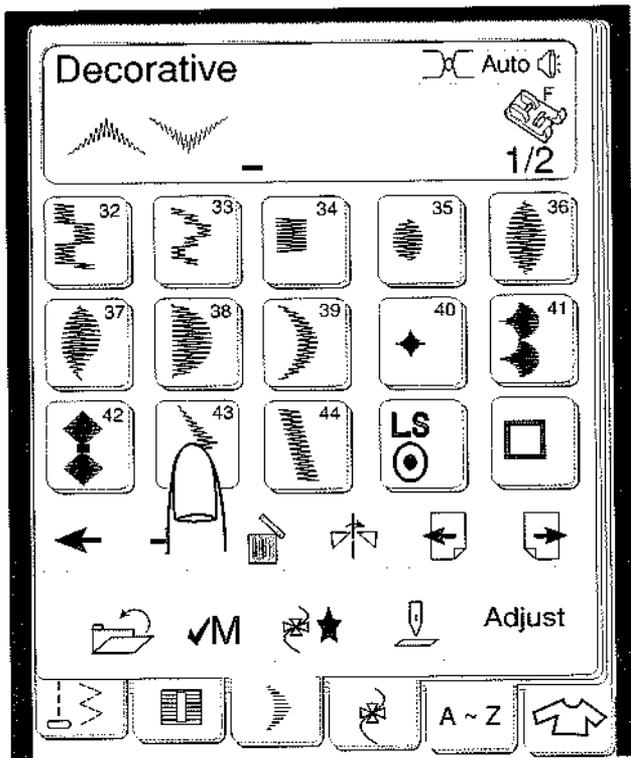
Press the key to move the cursor to the right and memorize it.

Start to sew. The machine will sew the pattern combination repeatedly.

Note:

- If you press the Auto-Lock Button ① in the middle of a programmed pattern the machine will stop automatically after the current pattern is completed.

① Auto-Lock Button



Programming Pattern Combination with Mirror Image

Example: Programming Pattern 43 and its mirror image.

Press key.

Select Pattern 43.

Press the key to move the cursor to the right and memorize it.

Select Pattern 43 again.

Press the key. The mirror image of Pattern 43 appears on the screen.

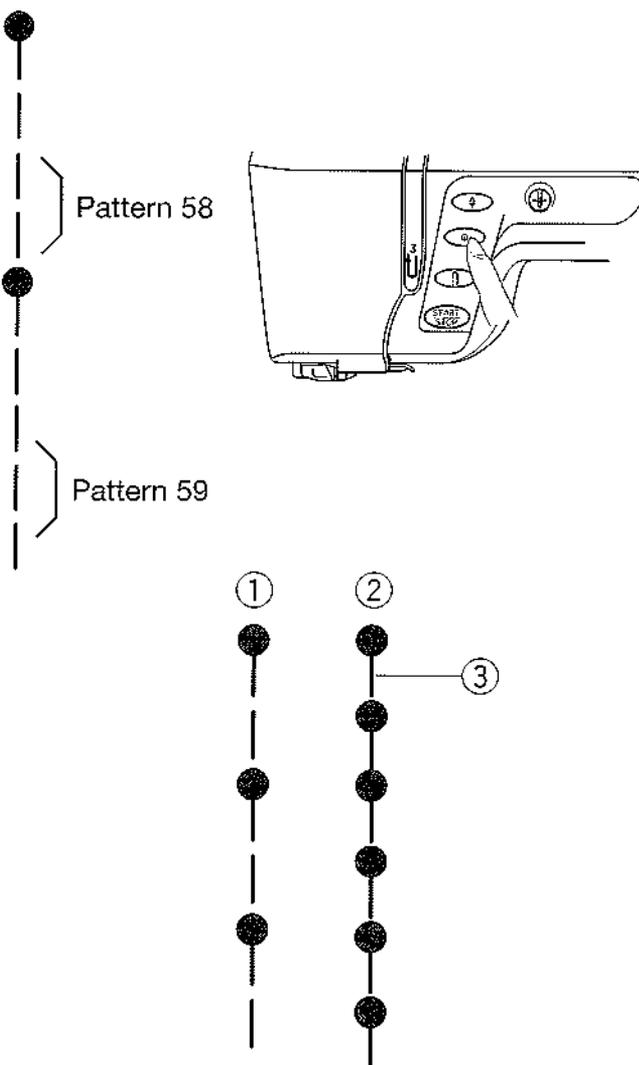
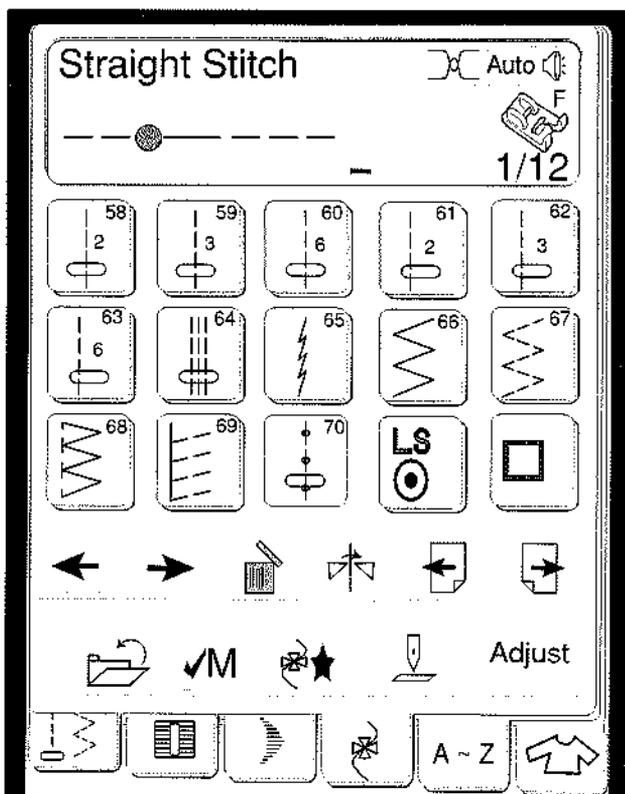
Press the key to move the cursor to the right and memorize it.

Start to sew. The machine will sew the pattern combination repeatedly.

Note:

- If you press the Auto-Lock Button ① in the middle of a programmed pattern the machine will stop automatically after the current pattern is completed.

① Auto-Lock Button



Programming French Knot

Example: Pattern 70, Pattern 58, Pattern 70 and Pattern 59.

Select Pattern 70 (French Knot).

Press the key to move the cursor and memorize it.

Select Pattern 58. Two counts of straight stitch will be memorized.

Press the key to move the cursor and memorize it.

Select Pattern 70.

Press the key to move the cursor and memorize it.

Select Pattern 59. Three counts of straight stitch will be memorized.

Press the key to move the cursor and memorize it.

Start to sew. The machine will sew the pattern combination repeatedly.

Note:

- If you press the Auto-Lock Button in the middle of a programmed pattern the machine will stop automatically after the current pattern is completed.

Example: French Knot with narrow spacing

Select Pattern 70 and adjust the stitch length to 0.2mm.

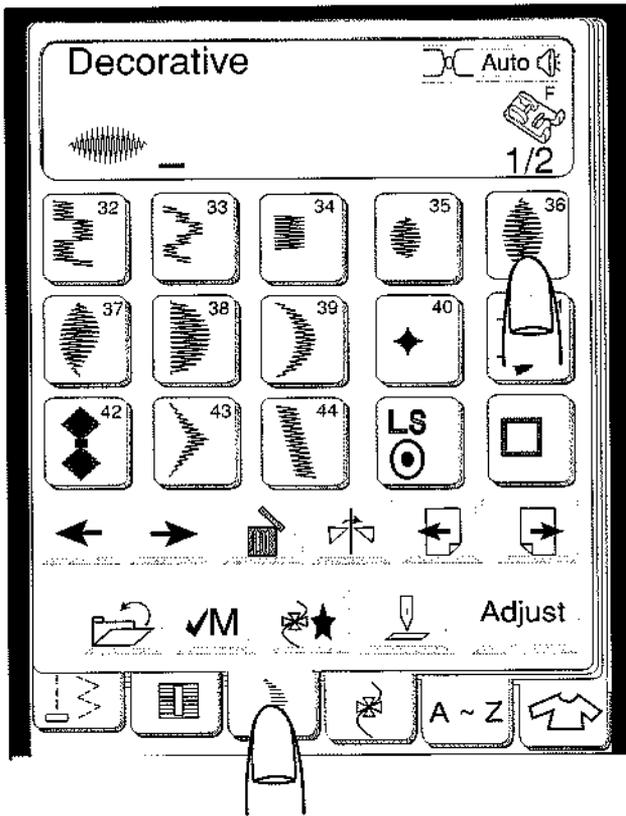
Press the key to move the cursor and memorize it.

Select the space and adjust the stitch length to make it shorter.

Press the key to memorize it.

You can sew a series of French Knots with narrow spacing.

- ① French Knot with default setting
- ② French Knot with narrow spacing
- ③ Adjusted spacing



Combination of Satin Stitch and Decorative Stitch

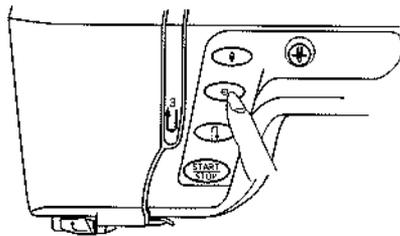
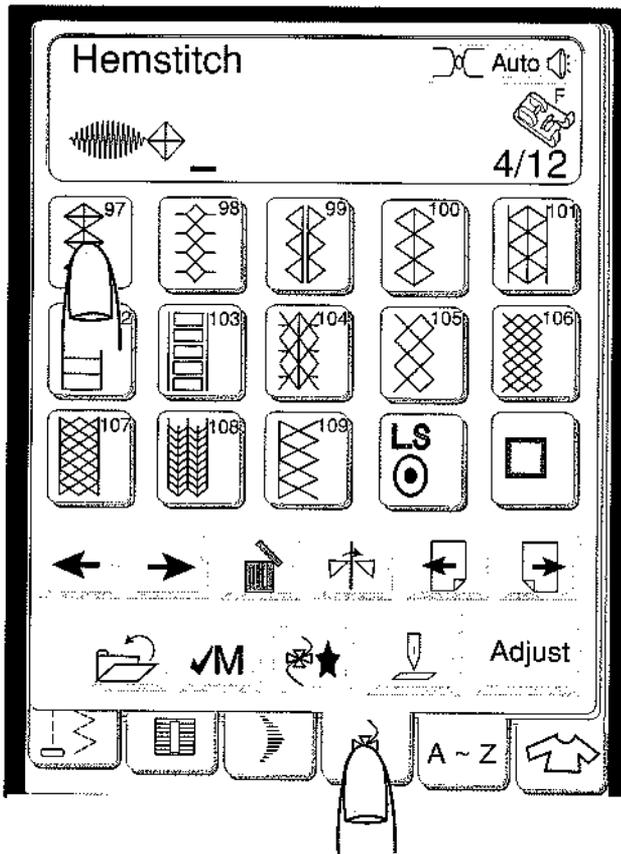
Example: Combination of satin stitch Pattern 36 and decorative stitch Pattern 97.

Select Satin Stitch Mode.

Press the  key.

Select Pattern 36.

Press the  key to move the cursor and memorize it.



Select the Decorative Stitch Mode.

Press the  key till page 4 of 12 opens.

Select Pattern 97.

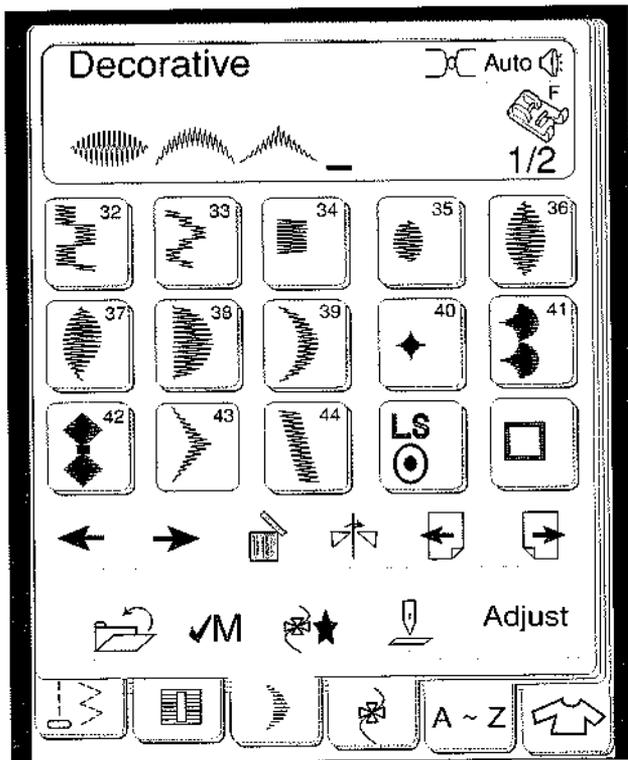
Press the  key to move the cursor to memorize it.

Start to sew. The machine will sew the pattern combination repeatedly.

Note:

- After sewing the desired length of programmed patterns, press the Auto-Lock Button.

The machine will sew to the end of the current pattern and stop sewing automatically.



Individual Pattern Adjustment

You can adjust the zigzag width, stitch length, elongation ratio and thread tension of each patterns in a combination individually.

Example: Change the elongation ratio of Pattern 36 when Patterns 36, 39 and 43 are programmed.

Press the key so the cursor will go to the pattern you are going to change.

Press the key.

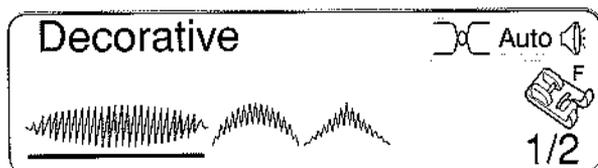
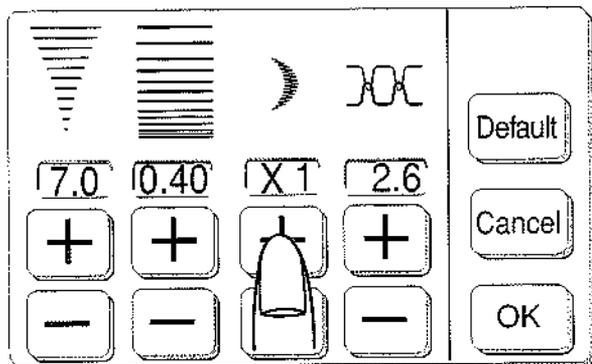
Change the elongation ratio by pressing the or the key.

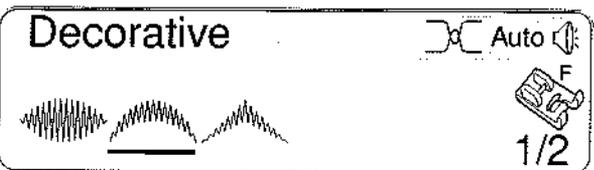
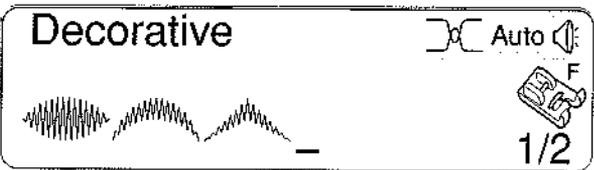
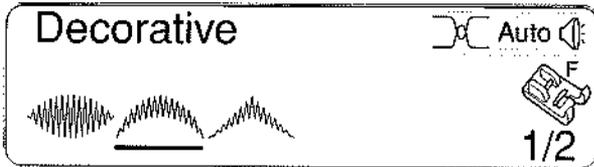
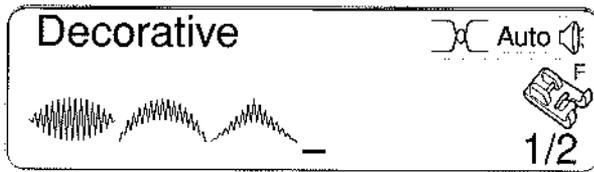
Press key to register the adjustment and the screen will go back to the original window.

Start to sew.



Adjust





Editing Programmed Patterns

Example: When Patterns 36, 39 and 43 are memorized

Deleting Pattern 39

Press the  key to move the cursor under Pattern 39 you would like to delete.

Press  key.

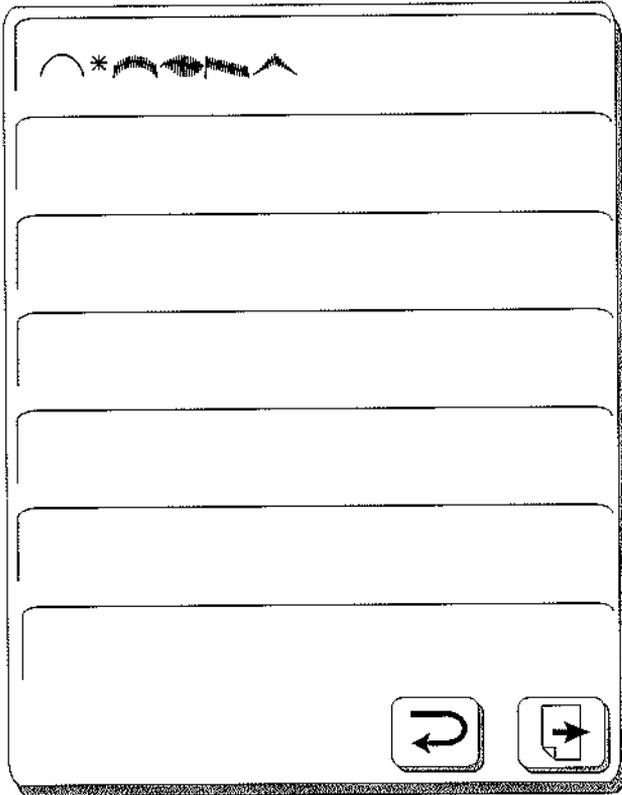
Pattern 39 is deleted.

Replacing Pattern 39 with Pattern 40

Press the  key to move the cursor under the Pattern 39 you would like to replace.

Select Pattern 40.

The Pattern 39 will be replaced with Pattern 40.



Program Check

Press the \sqrt{M} key to view the entire pattern combination.

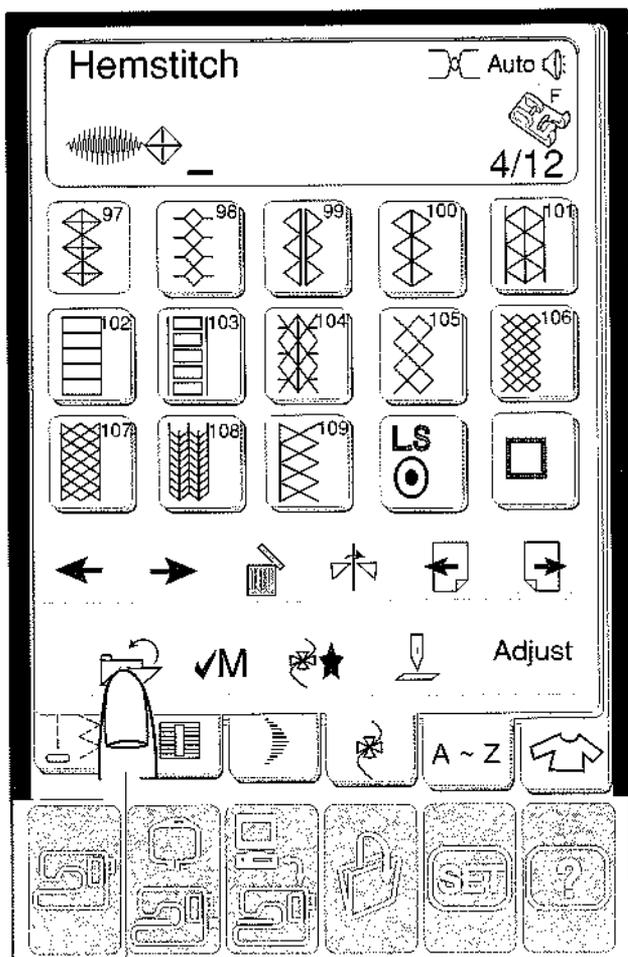
When the entire pattern combination is not displayed, press the $\left[\begin{array}{c} \square \\ \downarrow \end{array} \right]$ key to view the remaining patterns in combination.

Press the $\left[\begin{array}{c} \square \\ \leftarrow \end{array} \right]$ key to go back to the original window.

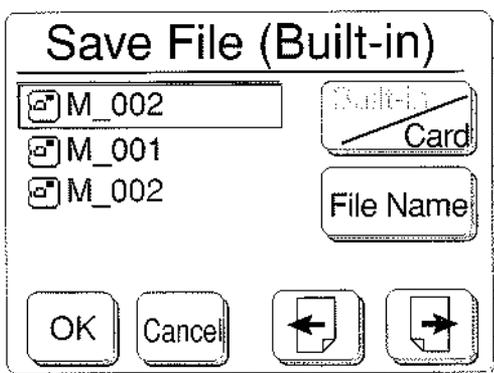
Note:

- The $\left[\begin{array}{c} \square \\ \downarrow \end{array} \right]$ key will be grayed out if there is no other page to be displayed.

(Blank page)



①



Saving and Opening a File

Saving a file

When you press the  key ①, the Save File window will open.

① Save File Key

You can select a location to where you want to save the file. Press the  key, to select the location either the internal memory of the sewing machine or the blank PC Card.

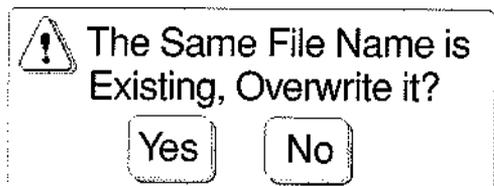
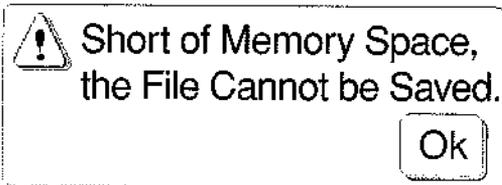
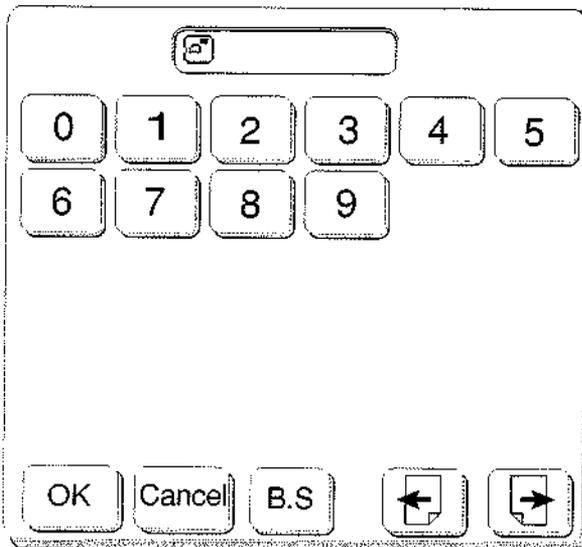
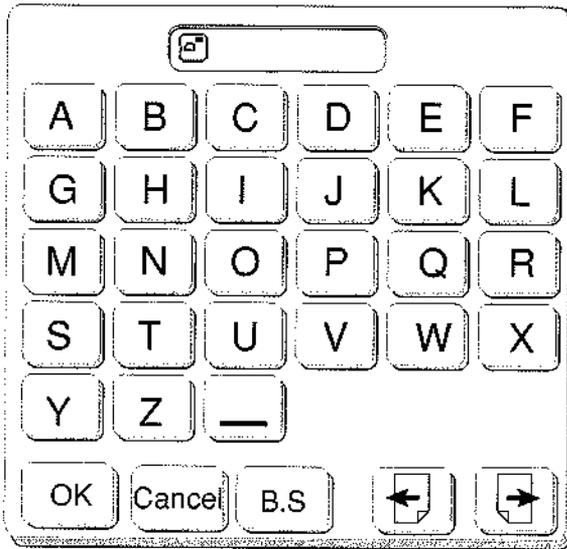
When you press the   keys, you will be able to see the saved files in the previous and next pages.

Press  key to save the file and the screen will return to the original screen.

Note:

- The file name will be automatically assigned starting from M_001 in order.

File Name



Assigning a file name

You can assign the file name in the File Name window.

Press the **File Name** key to open the File Name window.

The Alphabet keys are displayed in the window.

Press the **Left Arrow** **Right Arrow** keys to open the Numeric key window.

Press the **B.S** key (back space) to delete the last character.

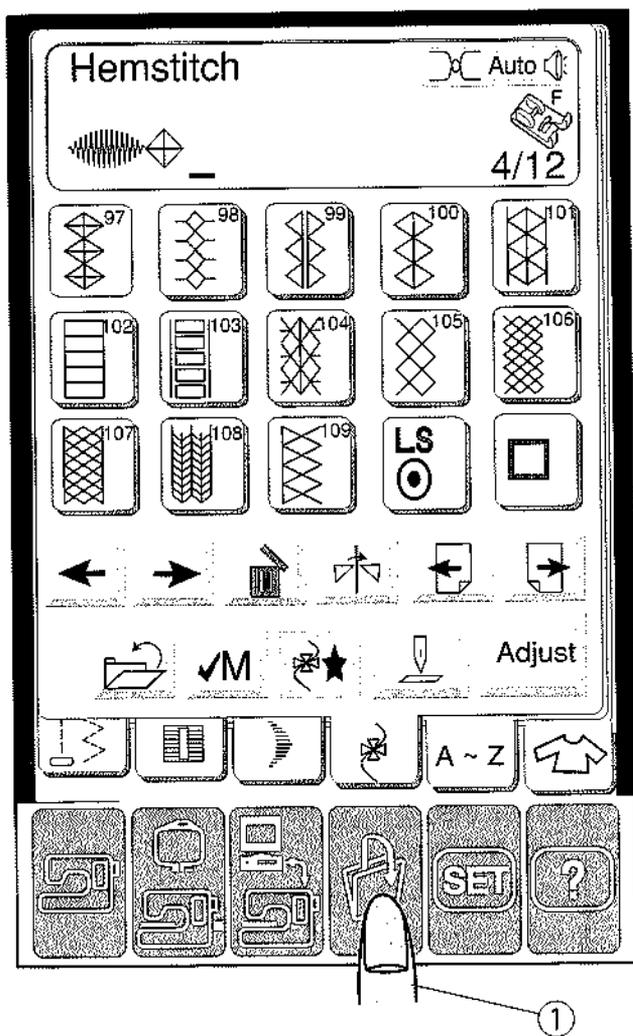
Press the **Cancel** key and the screen will return to the Save File screen.

Enter the file name and press the **OK** key.

The file will be saved with the new name.

Notes:

- Only 8 characters can be entered.
- When you save the program without a name, the file name will be automatically assigned starting from M_001.... in order.
- When the memory is full, you are unable to save the file. You should go to the Open File window and delete the file that you do not need.
- When you save the file under the same name, you will be advised by a message, "The Same File Name is Existing, Overwrite it?" If yes, press the **Yes** key. If no, press the **No** key.



Opening a saved file

When you press the Open File Key ①, the Open File window will appear. You can open the file to sew the programmed patterns that you have saved.

① Open File Key

Press the key to select the location of the file directory, either in the internal memory of the machine or in the PC Design card.

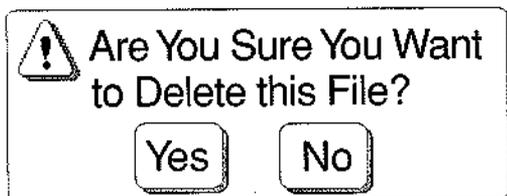
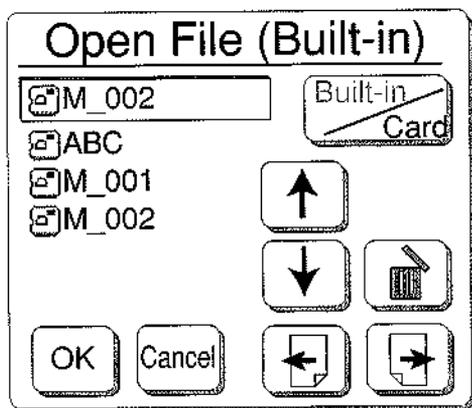
Press the keys to select the desired file to open.

Press the key to open the selected file.

The pattern combination of the file will be displayed on the screen.

Note:

- When you press the keys, you will be able to see the saved files in the next or previous page.



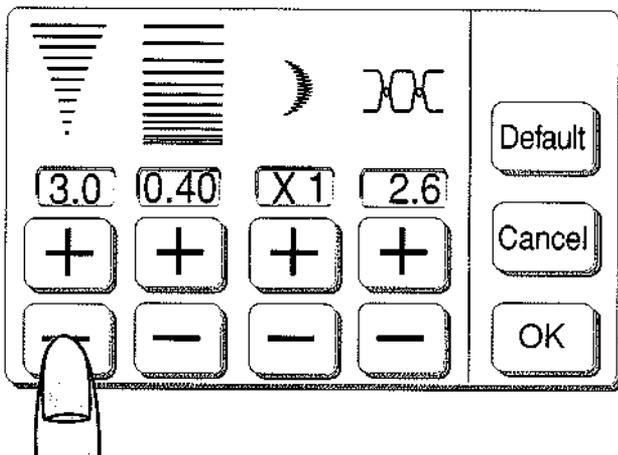
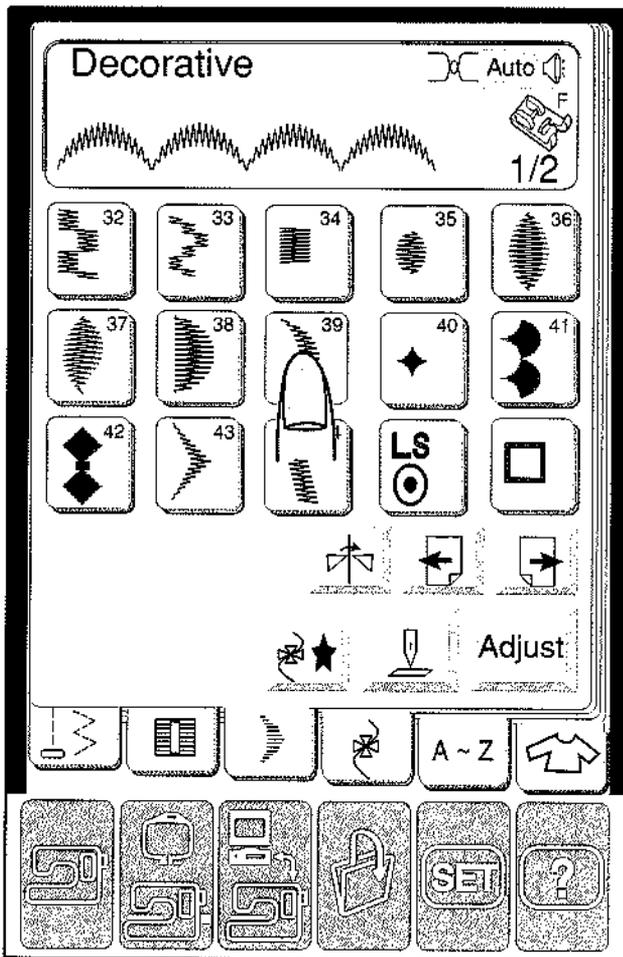
Deleting a saved file

When you need to delete the saved file, select the file to delete by pressing the keys and press the key.

The confirmation window will appear.

Press key if you are sure to delete it. When you press the key, the file will not be deleted.

The Open File window will close and it will go back to the original screen.



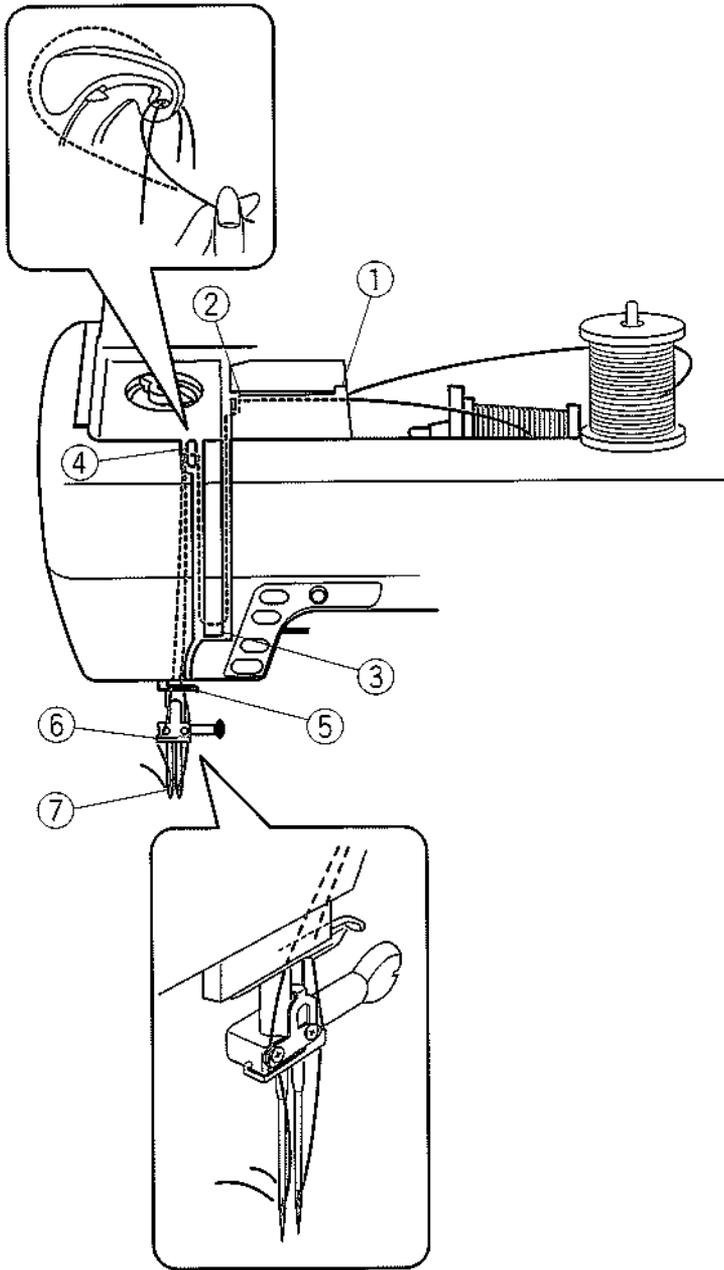
Twin Needle Sewing

Notes:

- When you sew patterns with the twin needle, test the stitches first before you try.
- Use Zigzag Foot **A** or Satin Stitch Foot **F** for Twin Needle Sewing.
- Turn off the switch before changing the needle.

Warning:

- Do not set the stitch width at more than 3.5, or the needle will hit the needle plate and the needle will break.



Threading the machine for twin needle

Insert an additional spool pin, and put felt and a spool on it.

Draw both threads from the spools and pass them through the points from ① to ⑤.

Make sure that the two strings of thread from the spools will not get tangled.

Notes:

- Make sure each of the threads wind off from the spools as shown.
- Threading from ① to ⑤ is the same as for single needle.

Slide one of the threads through the needle bar thread guide on the left, and the other one on the right.

Thread the needles from the front to back.

Notes:

- The Automatic Needle Threader cannot be used for the twin needle.
- When changing the sewing direction, raise the needle and turn of the fabric.



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MONOGRAMMING

MONOGRAMMING

You can combine letters and symbols for monogramming.

Monogramming Mode Keys

① Font Key

When you press this key, the font selection window opens.

The following 3 fonts and symbols are available.

- ② BlockType
- ③ Script Type
- ④ Broadway Font
- ⑤ Symbols

Press the desired font key to select the font or symbol.

⑥ Cancel key: When you press **Cancel** key, the Font window will close and the font setting remains.

⑦ OK key: When you press **OK** key the desired font will be selected.

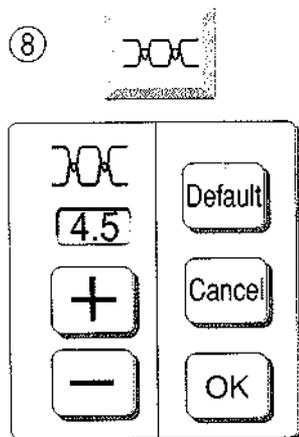
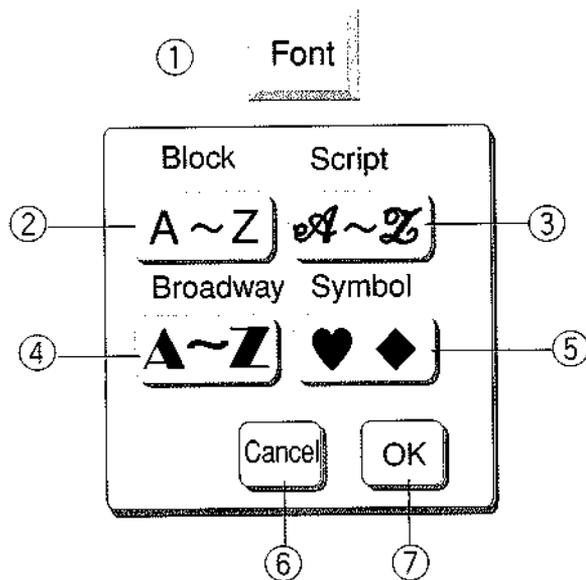
⑧ Thread Tension Key

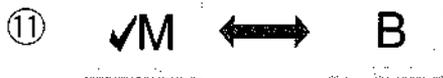
When you press this key, the tension adjusting window opens.

You can manually adjust the tension setting.

Note:

- The stitch width and length cannot be adjusted in the Monogramming Mode.





⑨ **Upper/Lower Case Key**

You can select the Upper or Lower Case Letters by pressing  key.

⑩ **Letter Size Key**

By pressing  key, the size of the letter will change approximately 2/3 of the full size letter.

If you press it twice, the letter will go back to the original size.

⑪ **Memory Check Key**

Press the  key to see the entire monogramming, while you are programming.

After you started sewing, the key indication will change to . You can start sewing the monogram from the beginning by pressing  key.

⑫ **Save File Key**

You can save your program or monogram by pressing this key.

⑬ **Cursor Key**

This key is for editing your monogram. Press the  key to move the cursor to the left.

Press the  key to move the cursor to the right.

⑭ **Delete Key**

Press  key to delete the pattern or monogram on the cursor.



Ä-Û ↔ A-Z



Letter Key

You can select the alphabet (26 letters) and European accented letters as well.

To select the letter, press the corresponding key.

European accented letters

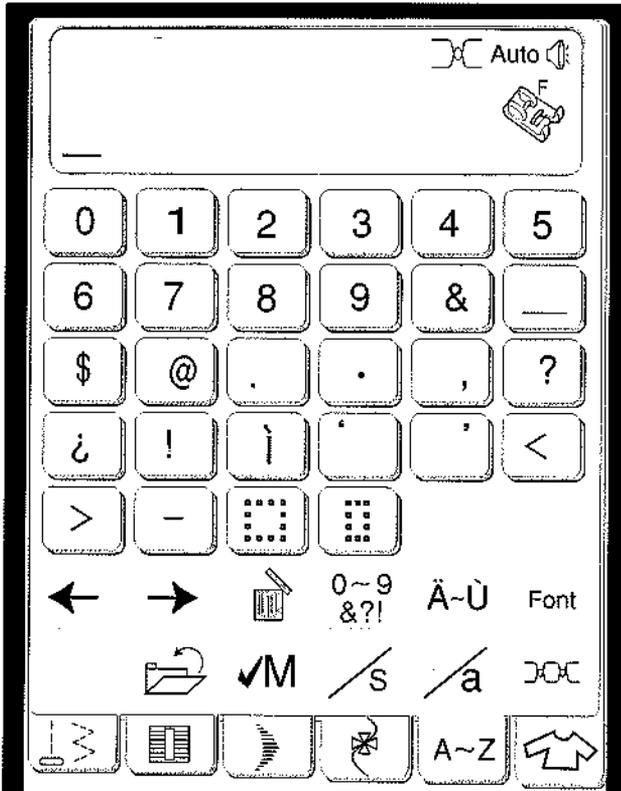
You can select the European accented letters, such as Umlaut, by pressing the Ä-Û key.

To select the European accented letter, press the corresponding key.

The key will change to A-Z .

Press the A-Z key to return to the alphabet window.

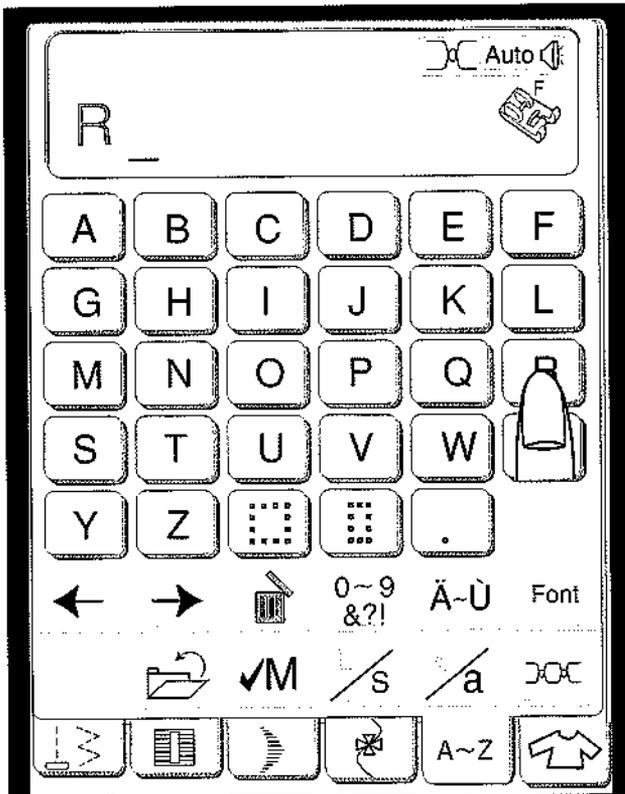
0~9
&?!
.....



Number/Symbol Key

When you press the ^{0~9}_{&?!} key, the number and symbols will appear. To select the number or symbol, press the corresponding key.

Press the A-Z or Ä-Ü key to return to the letter selection window.



R
&
B

Programming a Monogram

Example: Programming "R&B" in block type.

Press the **Font** key and select block type letter.

Press **A** key and select Upper Case.

Press **L** key and select Large Size.

Press **"R"**, the cursor shifts to the right and **"R"** is automatically memorized.

Press **0~9 &?!** key.

Press **/s** key and select Small Size.

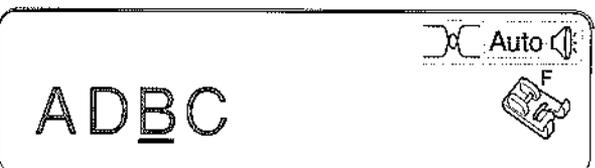
Press **"&"**, the cursor shifts to the right and **"&"** is automatically memorized.

Press **A-Z** key.

Press **L** key and select Large Size.

Press **"B"**, the cursor shifts to the right and **"B"** is automatically memorized.

Start sewing until the machine stops automatically.



Editing a Monogram

For this example, we will edit the monogram of "ABC".

Deleting a letter (character)

Press the  key and shift the cursor under the letter "B".

Press the  key.

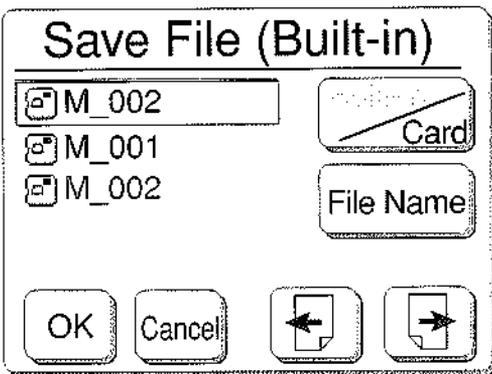
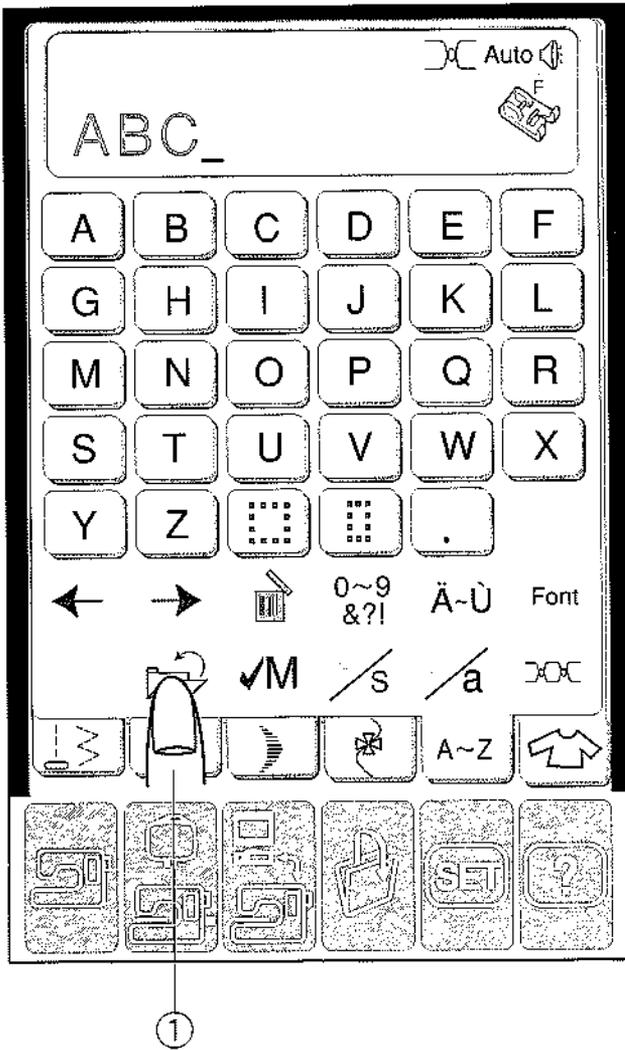
"B" is deleted.

Inserting a letter (character)

Press the  key to shift the position of the cursor under the letter "B".

Select letter "D". The letter "D" is inserted between "A" and "B".





Saving and Opening a File

Saving a file

When you press the Save File key ①, the Save File window will open.

① Save File Key

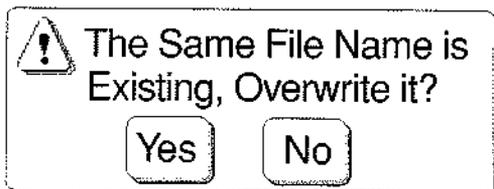
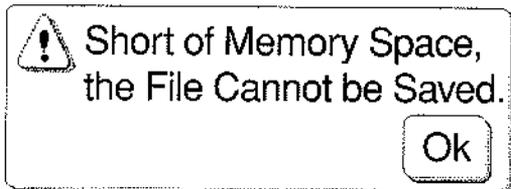
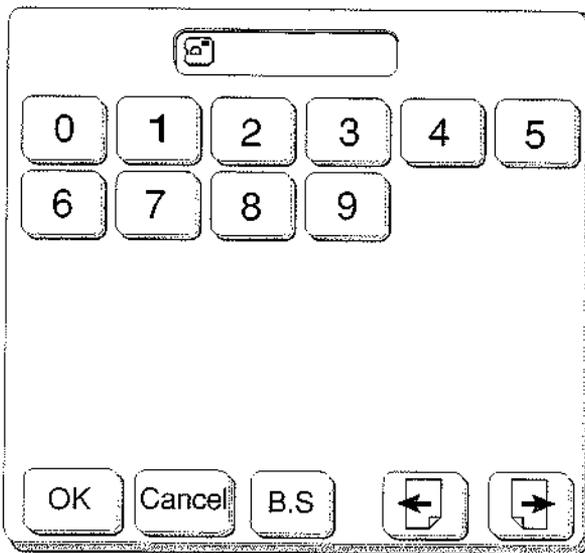
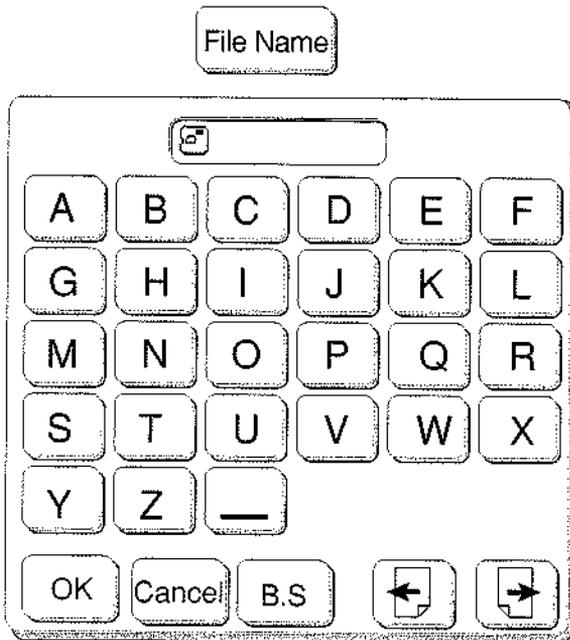
You can select a location to where you want to save the file. Press the  key, to select the location either the internal memory of the sewing machine or a blank PC Design Card.

When you press the   keys, you will be able to see the saved files in the previous and next pages.

Press  key to save the file and the screen will return to the original screen.

Note:

- The file name will be automatically assigned starting from M_001 in order.



Assigning a file name

You can assign the file name in the File Name window.

Press the **File Name** key to open the File Name window.

The Alphabet keys are displayed in the window.

Press the **Left Arrow** **Right Arrow** key to open the Numeric key window.

Press the **B.S** key to delete the last character.

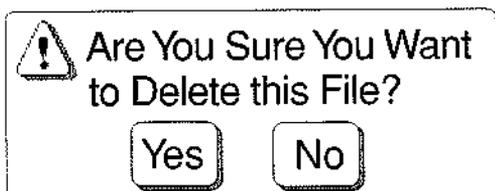
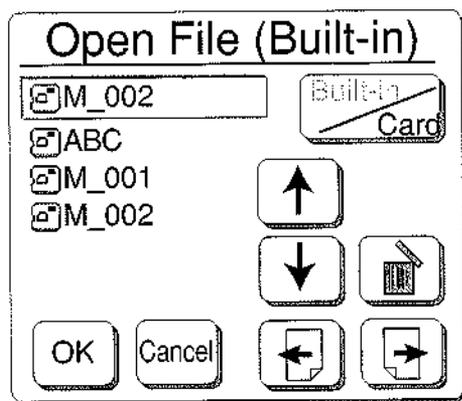
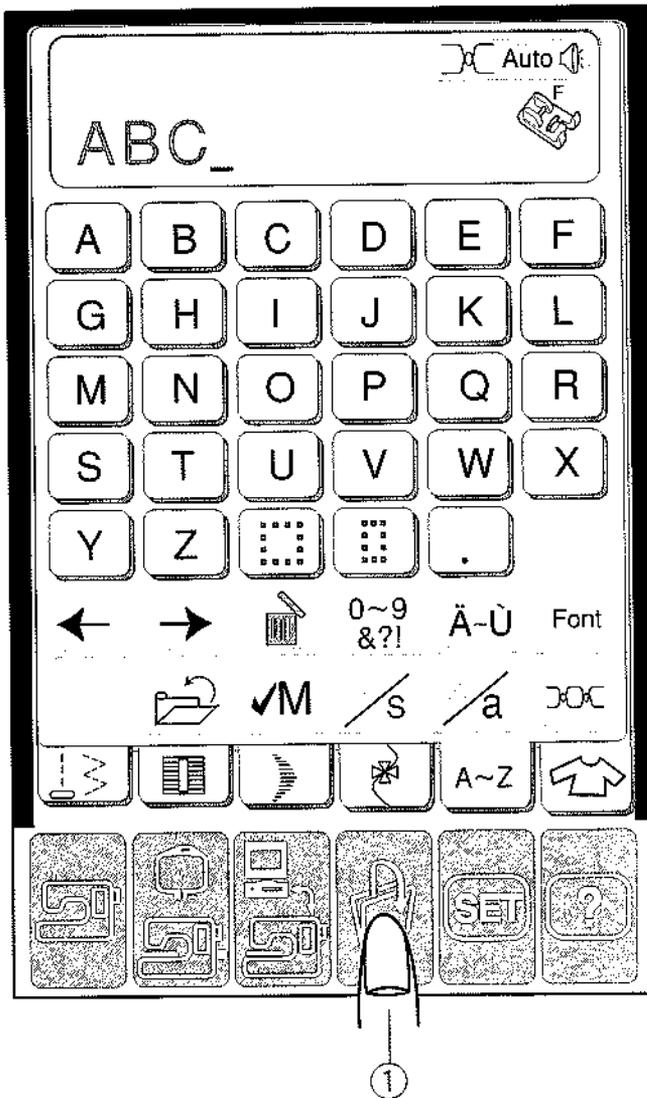
Press the **Cancel** key and the screen will return to the Save File screen.

Enter the file name and press the **OK** key.

The file will be saved with the new name.

Notes:

- Only 8 characters can be entered.
- When you save the program without a name, the file name will be automatically assigned starting from M_001... in order.
- When the memory is full, you are unable to save the file. You should go to the Open File window and delete the file that you do not need.
- When you save the file under the same name, you will be advised by a message, "The Same File Name is Existing, Overwrite it?". If yes, press the **Yes** key. If no, press the **No** key.



Opening a saved file

When you press the Open File key ①, the Open File window will appear. You can open the file to sew the programmed patterns that you have saved.

① Open File Key

Press the key to select the location of the file directory, either in the internal memory of the machine or in the PC Design Card.

Press the keys to select the desired file to open.

Press the key to open the selected file. The pattern combination of the file will be displayed on the screen.

Note:

- When you press the keys, you will be able to see the saved files in the next or previous page.

Deleting a saved file

When you need to delete the saved file, select the file to delete by pressing the keys and press the key.

The confirmation window will appear.

Press key if you are sure to delete it. When you press the key, the file will not be deleted.

The Open File window will close and it will go back to the original screen.



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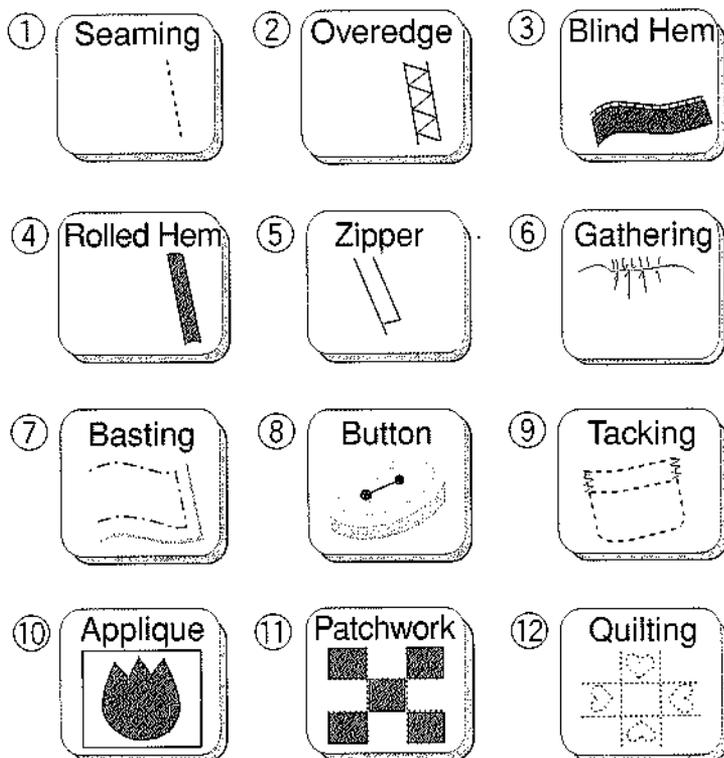
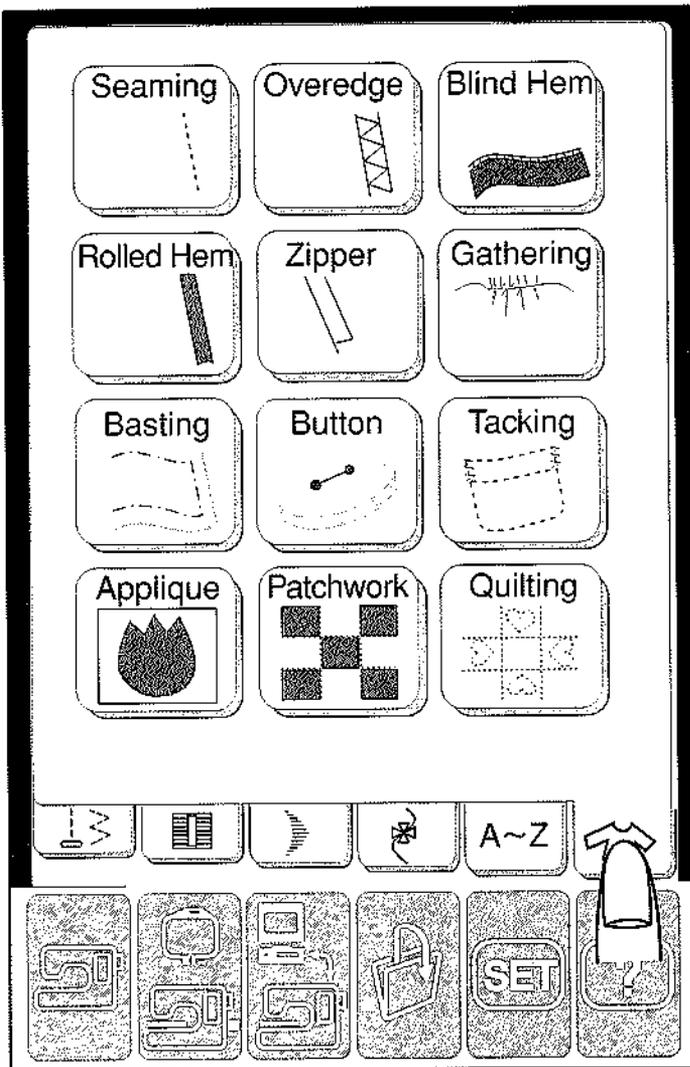
SEWING APPLICATION

SEWING APPLICATION

The Sewing Application is a unique feature that provides you with on-screen guidance for 12 useful sewing applications.

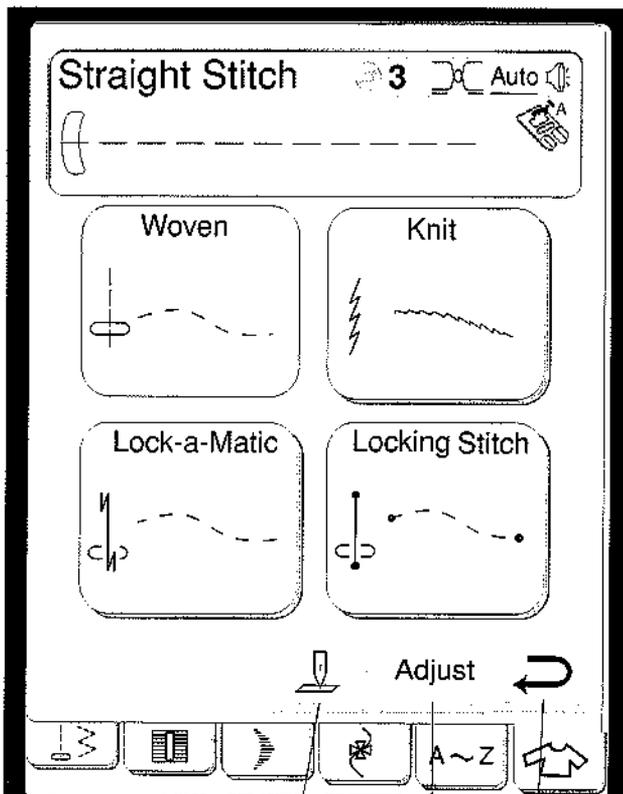
When you press the Sewing Application  key, you will be able to choose the right stitch and its appropriate setting of your sewing application.

The machine automatically set up for the selected project.

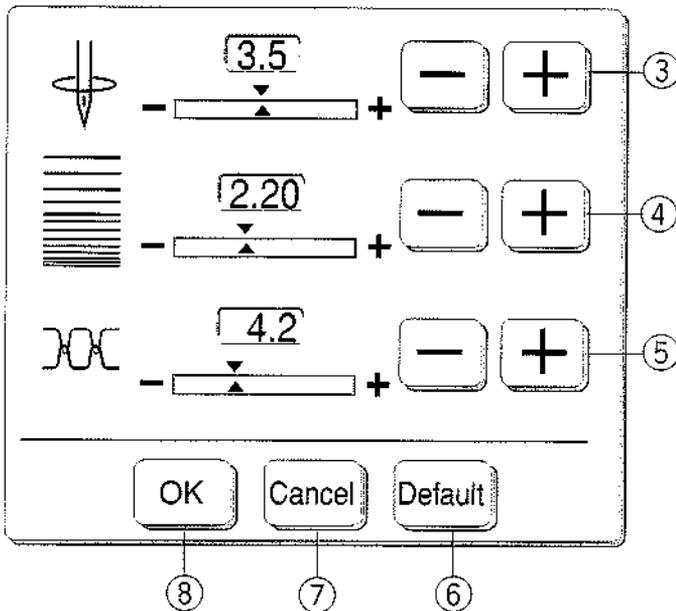


There are 12 applications that you can choose from the menu.

- ① Seaming
- ② Overedge
- ③ Blind Hem
- ④ Rolled Hem
- ⑤ Zipper Sewing
- ⑥ Gathering
- ⑦ Basting
- ⑧ Button Sewing
- ⑨ Tacking
- ⑩ Applique
- ⑪ Patchwork
- ⑫ Quilting



- ① 
- ② Adjust



- ③ 
- ④ 
- ⑤ 
- ⑧ 
- ⑦ 
- ⑥ 
- ⑨ 

Seaming

When you press the Seaming key, the Seaming window will appear.

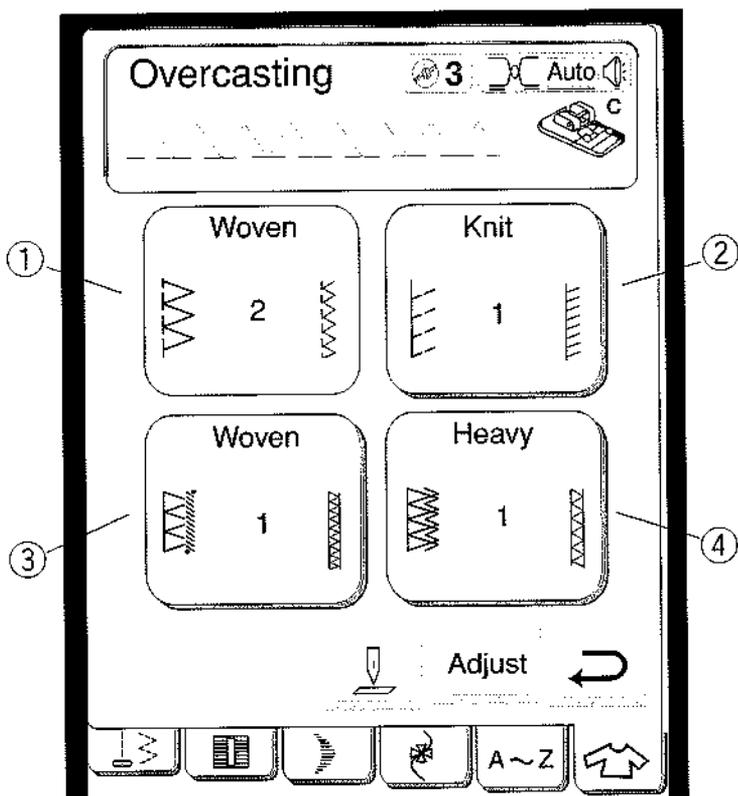
In the Seaming window, the straight stitch of center needle position with the stitch length 2.2mm (3/32") will be automatically selected.

In the Seaming Mode you may select the following stitches:

- (1) Straight Stitch for woven fabrics
- (2) Stretch Stitch for elastic fabrics
- (3) Lock-a-Matic Stitch
- (4) Locking Stitch

Function keys:

- ① **Needle Up/Down Key:** Press the  key to set the needle position up or down when stopping the machine.
- ② **Adjust Key:** Press the  key to open the Manual Setting window.
- ③ **Needle Drop Position:** Press the Needle Drop Position  or  keys to change the needle drop position.
- ④ **Stitch Length:** Press the Stitch Length  or  keys to increase/decrease the stitch length.
- ⑤ **Thread Tension:** Press the Thread Tension  or  keys to increase/decrease the thread tension.
- ⑥ **Default key:** When you press the  key, all function values on the screen will return to the default settings (the same settings as when you purchased the machine).
- ⑦ **Cancel key:** When you press  key, the adjust window will close and the setting remains.
- ⑧ **OK key:** Press  key. The setting is registered and the screen returns to the previous window.
- ⑨ **Return key:** Press this key to return to the initial Sewing Application window.



Overedge Stitches

When you press the Overedge key, the Overedge window will appear.

The standard stitch for Overedge, which is the overedge stitch for the woven fabric, will be chosen and automatically be set.

In Overedge window you may select from the following:

- ① **Overcasting Stitch** for medium to heavy weight woven fabrics.
This stitch is used for seaming two layers and finishing the raw edges at the same time.
- ② **Knit Stitch** for finishing the raw edge of single layer elastic or knit fabrics.
- ③ **Overlock Stitch** for finishing the raw edge of single layer of medium to heavy weight woven fabrics.
- ④ **Double Overedge Stitch** for finishing the raw edge of single layer of heavy weight woven fabrics.

Note:

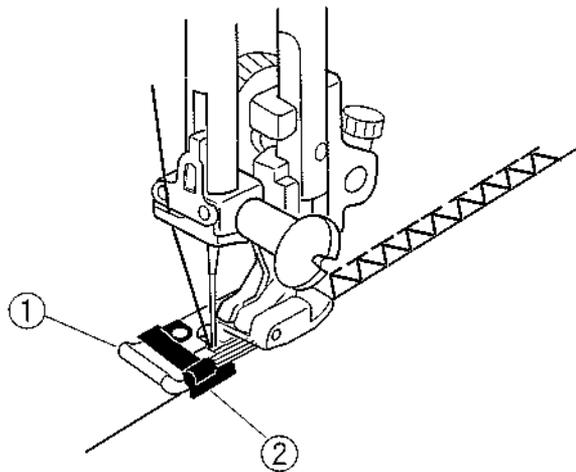
- The figures on the icon of fabrics show a number of fabric layers.

Overedging on 2 layers of woven fabric

Attach the Overedge Foot **C** ①.

Place the fabric with its edge next to the Guide ② on the foot. Lower the foot and start sewing.

- ① Overedge Foot **C**
- ② Guide

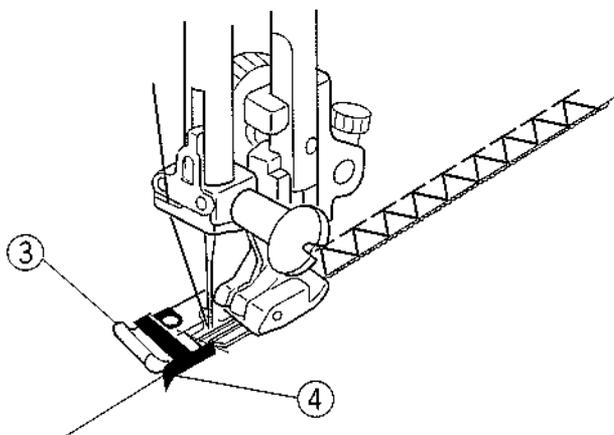


Overedging on a single layer of woven fabric

Attach the Overcasting Foot **M** ③.

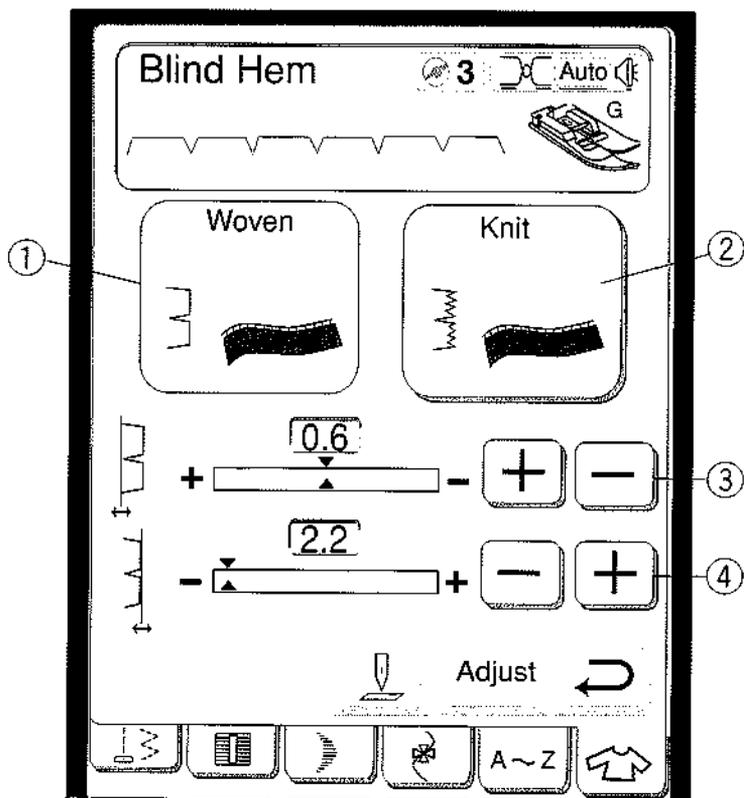
Place the fabric with its edge next to the Guide ④ on the foot. Lower the foot and start sewing.

- ③ Overcasting Foot **M**
- ④ Guide



Note:

- Please see pages 30, 31 for other stitches.



Blind Hem

When you press the Blind Hem key, the Blind Hem window will appear.

The standard pattern for Blind Hem, which is the Woven Blind Hem, will be set automatically.

In the Blind Hemstitch window you may select the following:

- ① Blind Hem Stitch for Woven Fabrics
- ② Blind Hem Stitch for Knit Fabrics

For your convenience, the needle position adjusting keys are displayed on the screen. You can move the left and right needle drop position independently.

- ③ **Left Needle Position Keys:** Press the or key to move the left needle position.
- ④ **Right Needle Position Keys:** Press the or key to move the right needle position.

To sew

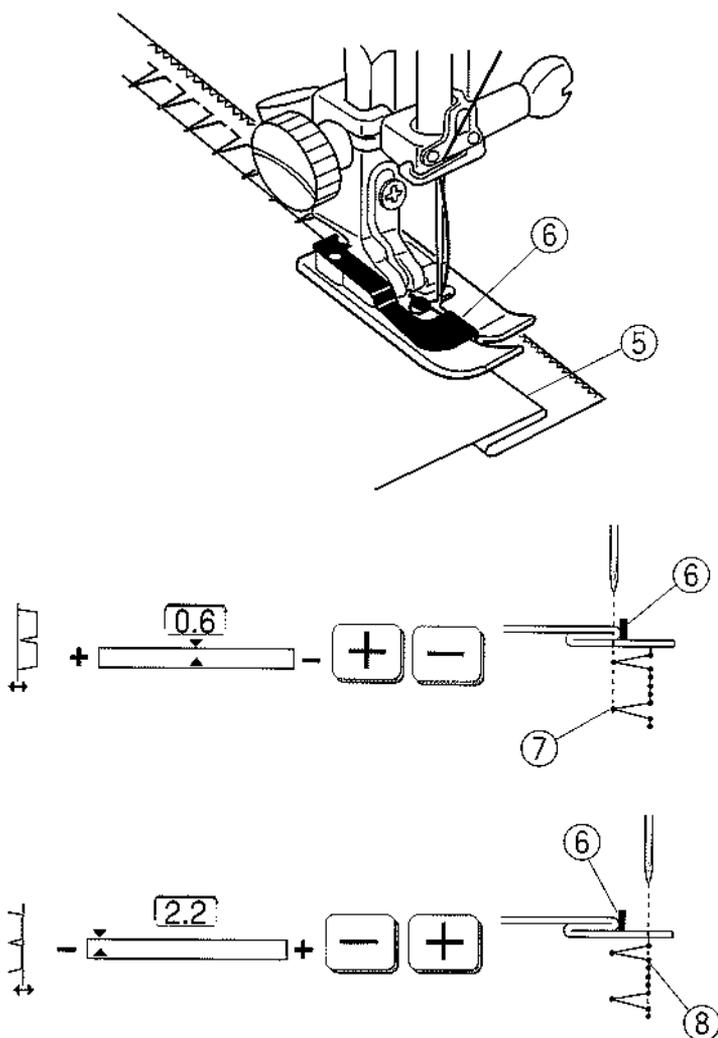
Attach the Blind Hem Foot **G**.

Place the fabric so that the Edge of Fold ⑤ is next to the Guide ⑥ on the foot.

You can adjust the Left Needle Drop Position ⑦ by the or key so the needle would not miss the edge of fold.

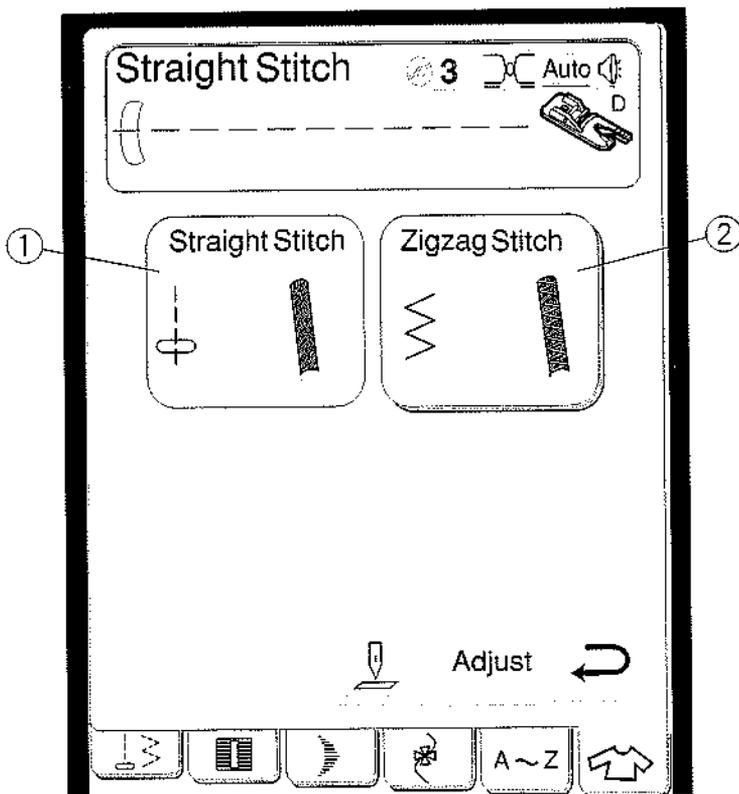
You can also adjust the Right Needle Drop Position ⑧ to change the stitch width.

- ⑤ Edge of Fold
- ⑥ Guide
- ⑦ Left Needle Drop Position
- ⑧ Right Needle Drop Position



Note:

- When you press the key in the Adjusting window, both left and right needle position will return to default setting.



Rolled Hem

When you press the Rolled Hem key the Rolled Hem window will appear.

The standard pattern, which is the Straight Stitch, will be chosen and automatically be set.

In the Rolled Hem mode you may select the following:

- ① Rolled Hem with Straight Stitch
- ② Rolled Hem with Zigzag Stitch

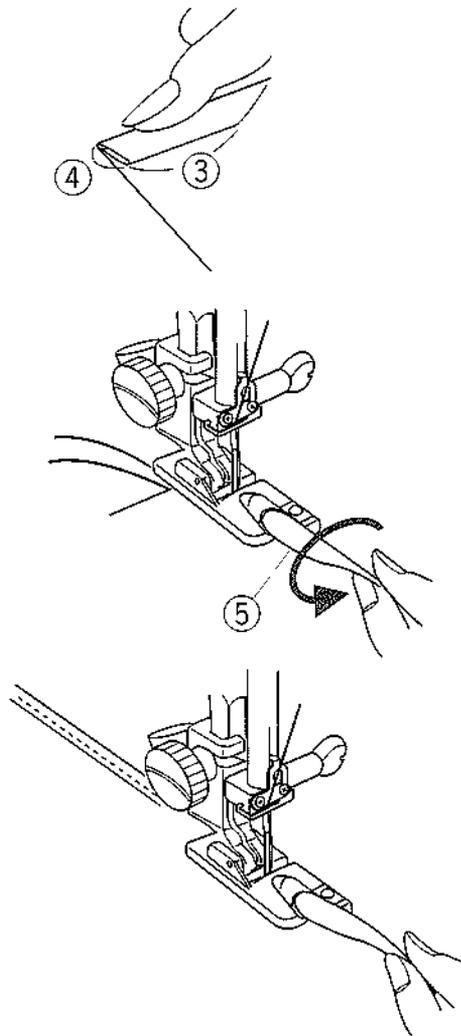
To sew

Fold the edge of the fabric twice, 6cm (2 3/8")

③ in length and 0.3cm (1/8") ④ in width.

③ 6cm (2 3/8")

④ 0.3cm (1/8")



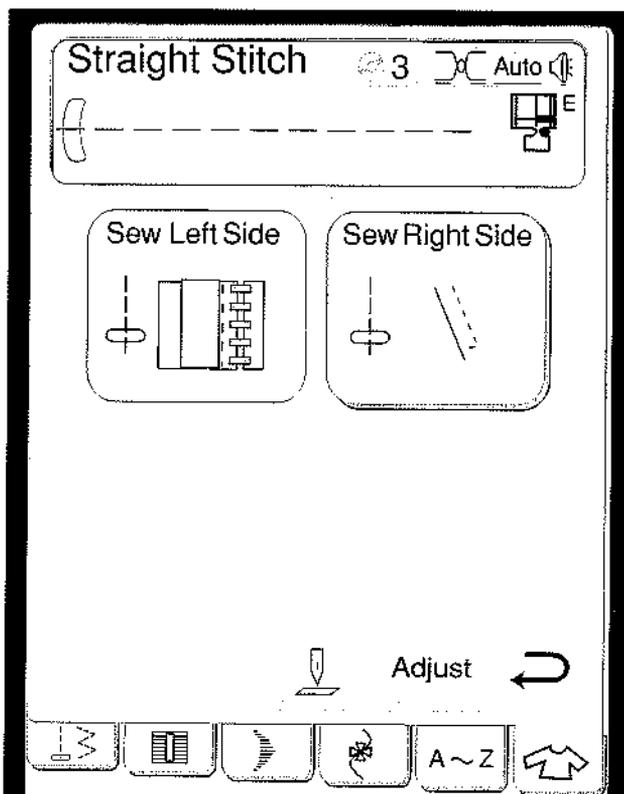
Place the fabric aligning the edge of hem with the guide on the foot.

Lower the foot and sew to 1-2cm (1/2"-1").

Stop the machine and lower the needle into the fabric. Raise the foot and insert the Folded Portion of the Fabric ⑤ into the curl of the foot.

⑤ Folded Portion of the Fabric

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



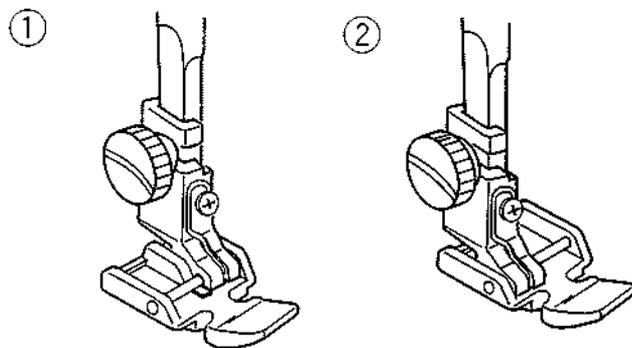
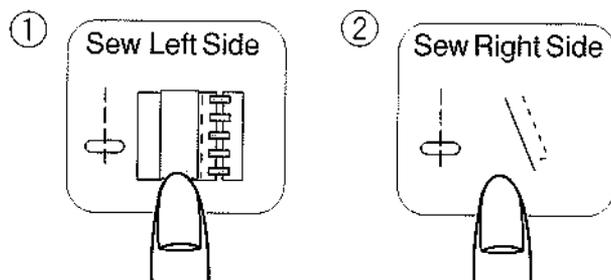
Zipper Sewing

When you press the Zipper Sewing key, the steps for zipper sewing will appear.

For the first step, the screen advises you to attach the Zipper Foot with the pin on the right side to sew the left side of the zipper.

When you finish sewing the left side, press the Sew Right Side key.

The screen display advises you to move the Zipper Foot with the left side pin to the foot holder.

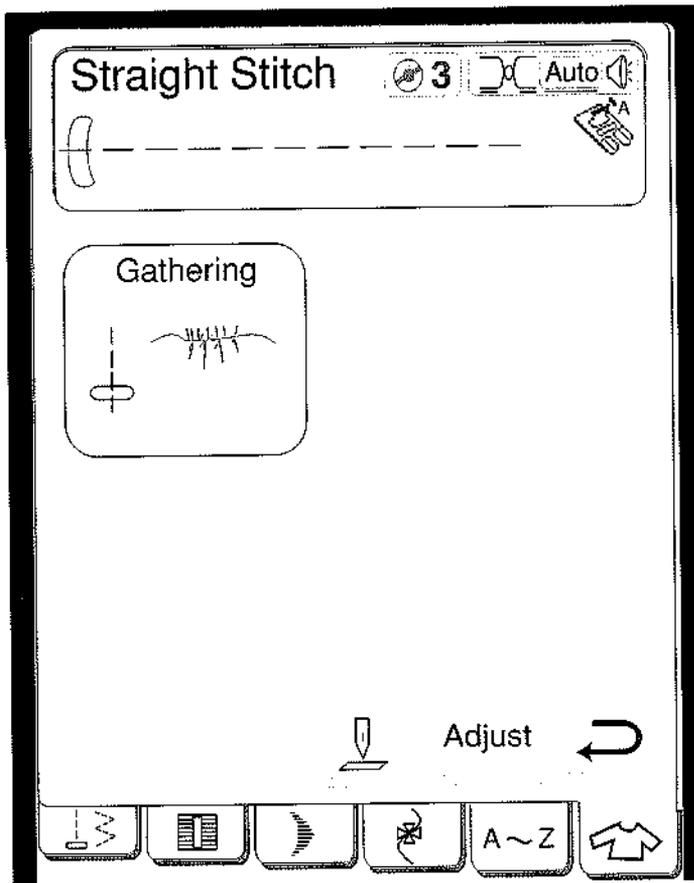


- ① To sew the left side of the zipper:
Press the Sew Left Side key.
The screen shows the attaching position of the foot.
Attach the Zipper Foot with the right pin as shown.

- ② To sew the right side of the zipper:
Press the Sew Right Side key.
The screen shows the attaching position of the foot.
Attach the Zipper Foot with the left pin as shown.

Note:

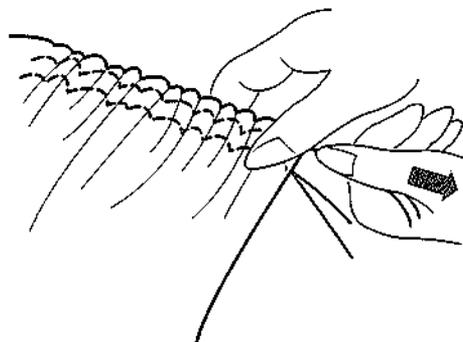
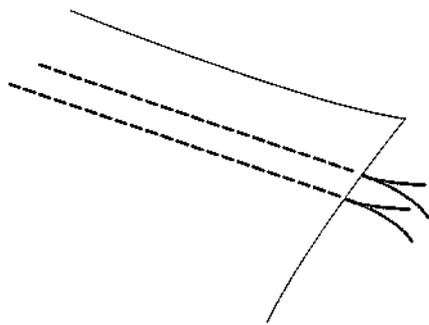
- For sewing instructions in details, please see pages 21-24.



Gathering

When you press the Gathering key, the setting for gathering will appear.

The machine will set to the straight stitch for gathering.

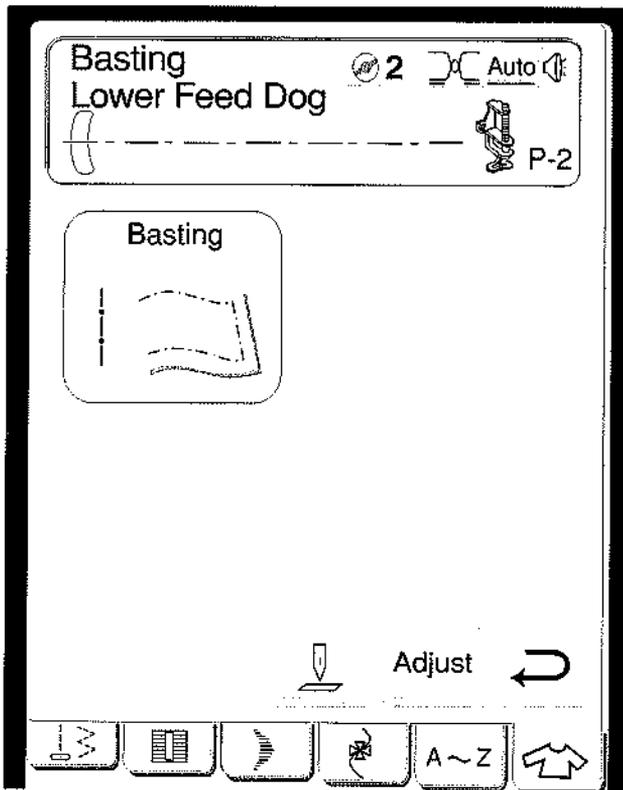


To sew

Sew 2 parallel lines with distance of 0.5cm-0.7cm (3/8"-1/4").

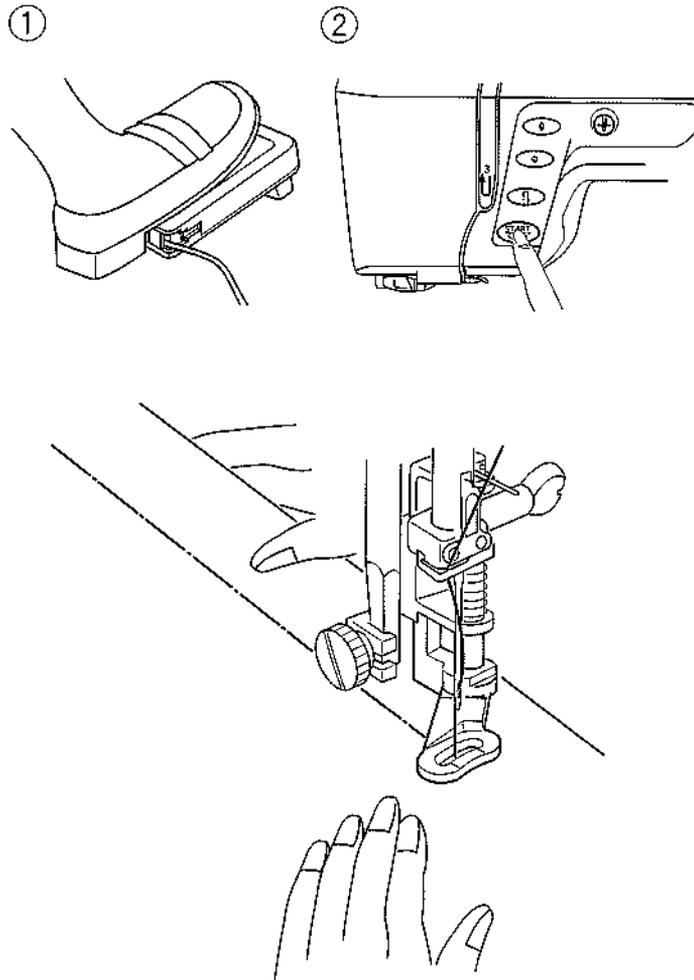
Knot the needle and bobbin threads at one end.

Pull the bobbin threads simultaneously from one end of the fabric to distribute gathers evenly until fabric being gathered to the desired width.



Basting

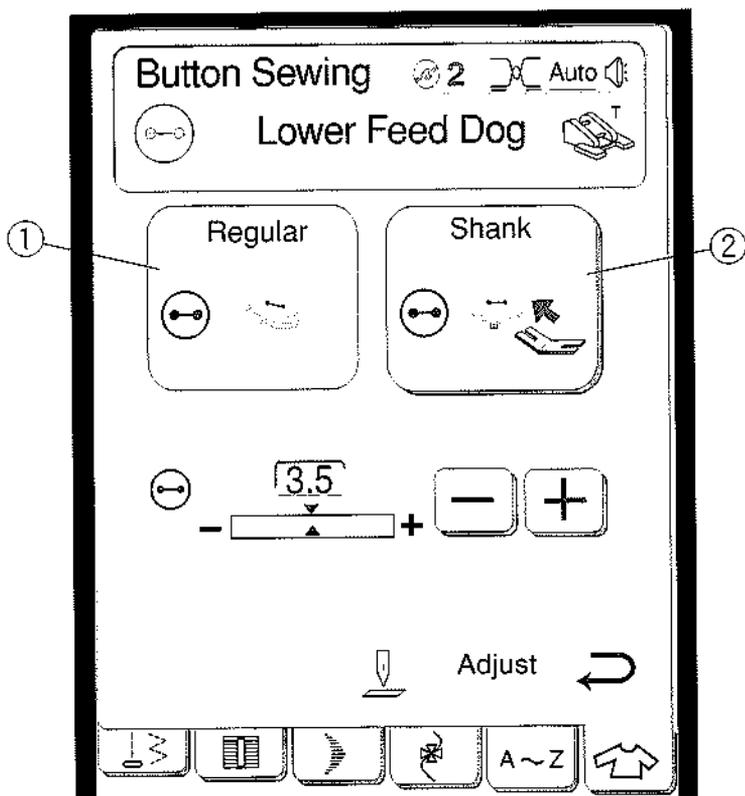
When you press the Basting key, the setting for basting will appear.
 The machine will be set to Basting Stitch and the Feed Dog will automatically drop.
 Remove the foot holder and attach the Basting/Darning Foot P-2.



To sew

Hold the fabric taut and depress the Foot Control ① or press the Start/Stop Button ②. The machine will take one stitch and stop automatically. Slide the fabric to the back for the next stitch.

- ① Foot Control
- ② Start/Stop Button



Button Sewing

When you press the Button Sewing key, the Button Sewing window will show.

The standard stitch for the button sewing, which is the Regular Button Sewing, will be chosen and set automatically.

The Feed Dog will be automatically dropped. In the Button Sewing Mode, you may select the following;

- ① The Regular Button Sewing
- ② Button Sewing with a Shank

For your convenience, stitch width keys are displayed on the screen.

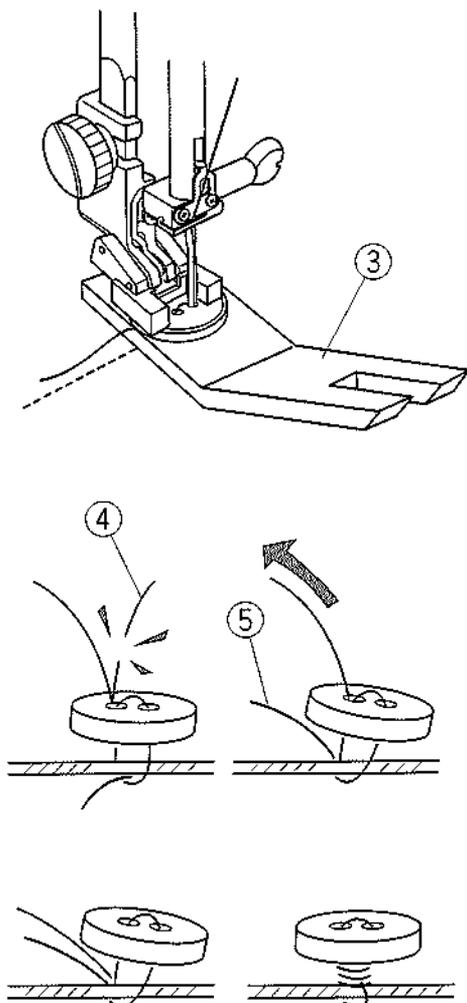
Press the $\left[\begin{array}{|c|} \hline + \\ \hline \end{array} \right]$ key to widen the width.

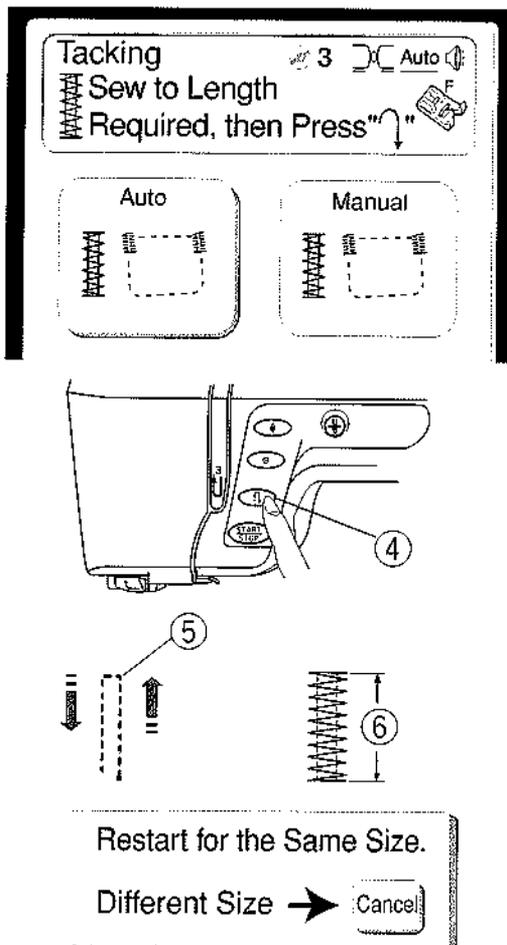
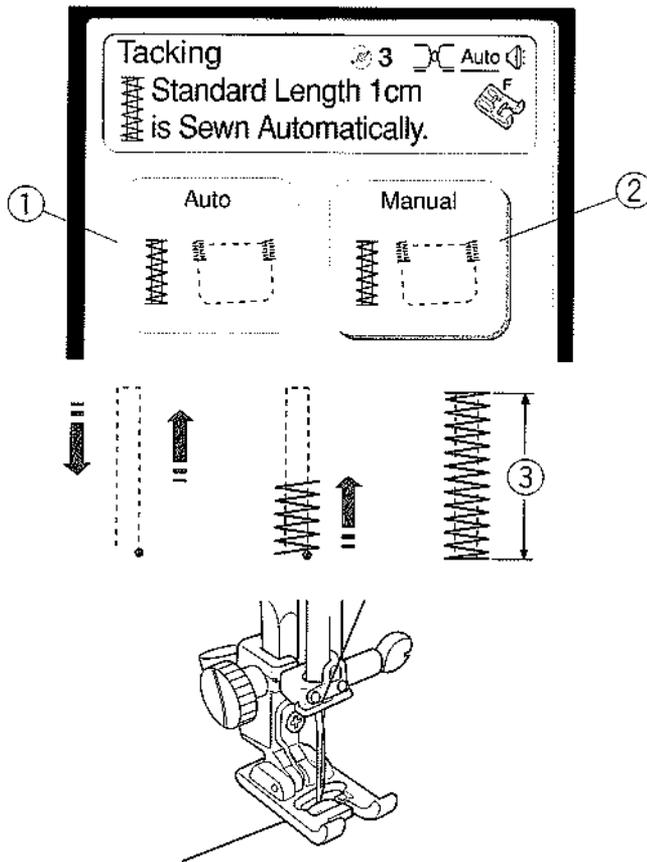
Press the $\left[\begin{array}{|c|} \hline - \\ \hline \end{array} \right]$ key to narrow the width.

Note: Only the right needle drop position will move when pressing $\left[\begin{array}{|c|} \hline + \\ \hline \end{array} \right]$ or $\left[\begin{array}{|c|} \hline - \\ \hline \end{array} \right]$ key.

Button sewing with a shank

1. Place a button on the fabric and lower the needle by turning the handwheel with your hand, so that the needle enters through the left hole on the button.
2. Align the direction of button and lower the Button Sewing Foot T to hold the button in place.
3. Press the Up/Down Needle Button to bring the needle up to the highest position. Adjust the stitch width, so that the zigzag width matches with the distance of holes on the button.
4. Insert the Button Shank Plate ③ under the button. Press the Start/Stop Button to sew and the machine will stop automatically.
 - ③ Button Shank Plate
5. Cut the Needle Thread at the Beginning ④.
 - ④ Needle Thread at the Beginning
6. Pull the needle thread to pick Bobbin Thread ⑤ up between the button and fabric.
 - ⑤ Bobbin Thread
7. Wind the threads in opposite directions around the thread shank a few times and tie them together.





Tacking

When you press the Tacking key, the Tacking window will appear.

The standard tacking length of 1cm (1/4") will be automatically set.

In the Tacking Mode, you may select the following:

- ① Automatic Tacking
- ② Manual Tacking

Automatic tacking

The machine will sew a tack 1cm (1/4") ③ long and stop automatically.

Press the Adjust key if you wish to change the stitch width and length.

- ③ 1cm (1/4")

Manual tacking

You can sew a tack to the required length and memorize its length.

The maximum length of the tack is 1.5cm (5/8").

Sew to your Required Length ④ and press the Reverse Button ⑤, the Tack Length ⑥ is automatically memorized.

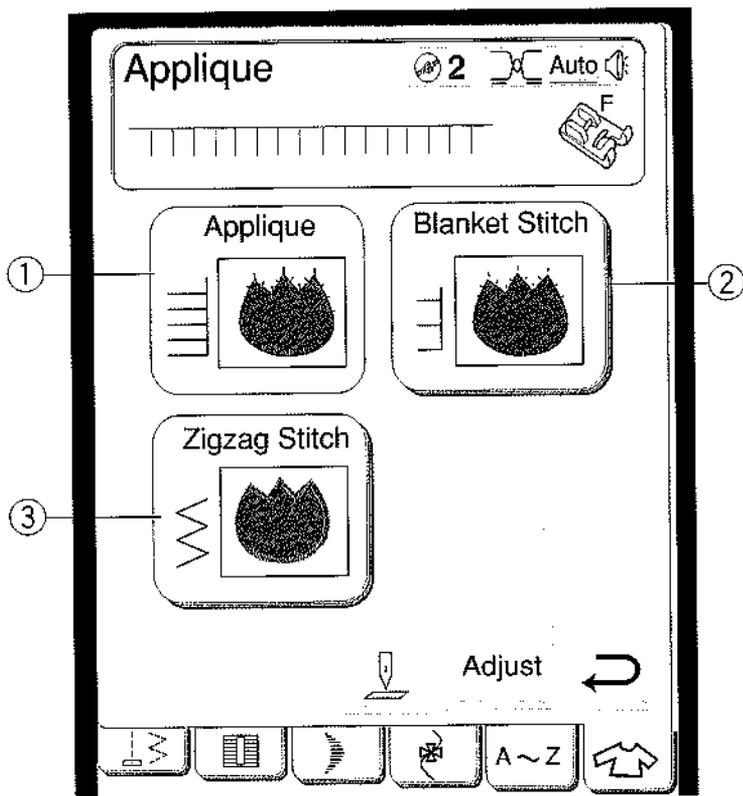
- ④ Required Length
- ⑤ Reverse Button
- ⑥ Tack Length

To sew a tack in the same length

After the machine automatically stops, the prompt window will appear.

Simply restart the machine to sew the tack in the same length.

Press Cancel key to sew a different length tack.

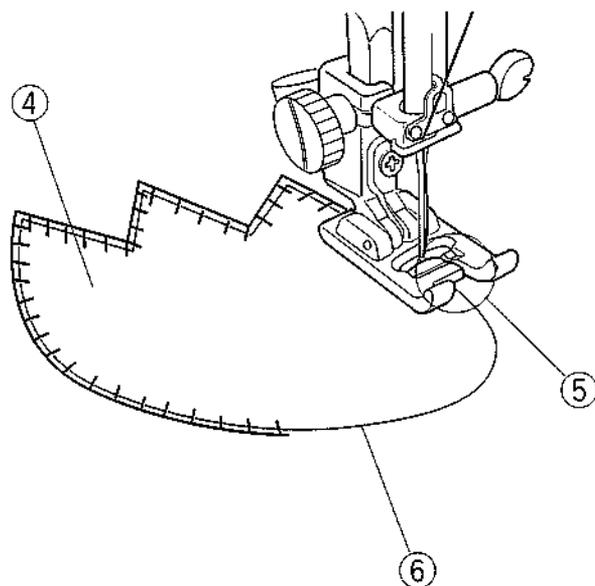


Appliance Sewing

When you press the Appliance key, the Appliance window will appear. The standard applique sewing will be chosen and automatically set.

In the Appliance Mode, you may select the following.

- ① Appliance Stitch
- ② Blanket Stitch
- ③ Zigzag Stitch



Attach the Satin Stitch Foot **F**.

Place the Appliance (4) on the fabric and baste it in place.

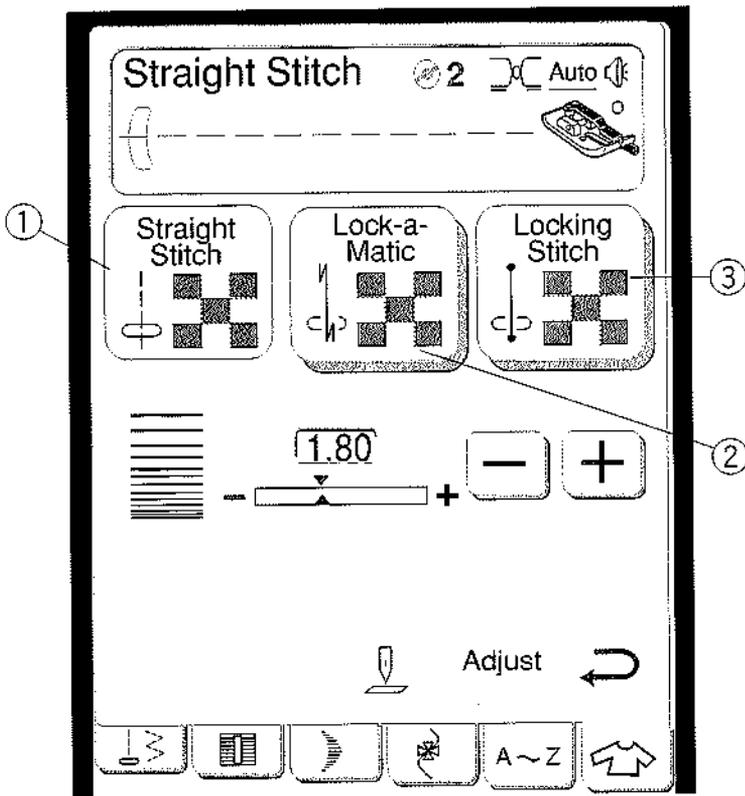
Sew guiding the edge of the applique along the Slit (5) on the foot, so that the needle falls off the Edge of the Appliance (6) when it swings to the right.

- ④ Appliance
- ⑤ Slit
- ⑥ Edge of the Appliance

Note:

- When changing the sewing direction at a corner or curve, lower the needle into the applique at the left swing and turn the fabric to a new direction.

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Patchwork

When you press the Patchwork key, the Patchwork window will appear.

The straight stitch of the center needle position will automatically be selected.

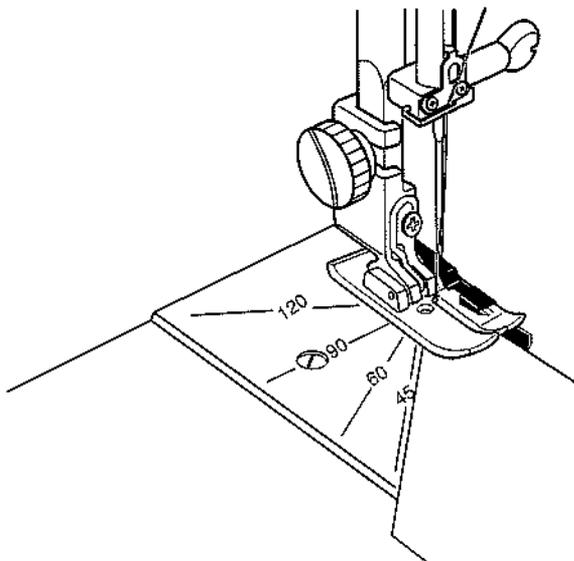
In the patchwork mode, you may select the following.

- ① Straight Stitch
- ② Lock-a-Matic Stitch
- ③ Locking Stitch

You can change the stitch length by pressing key.

Note:

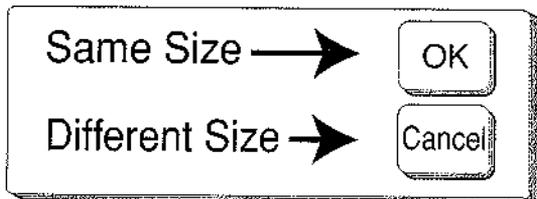
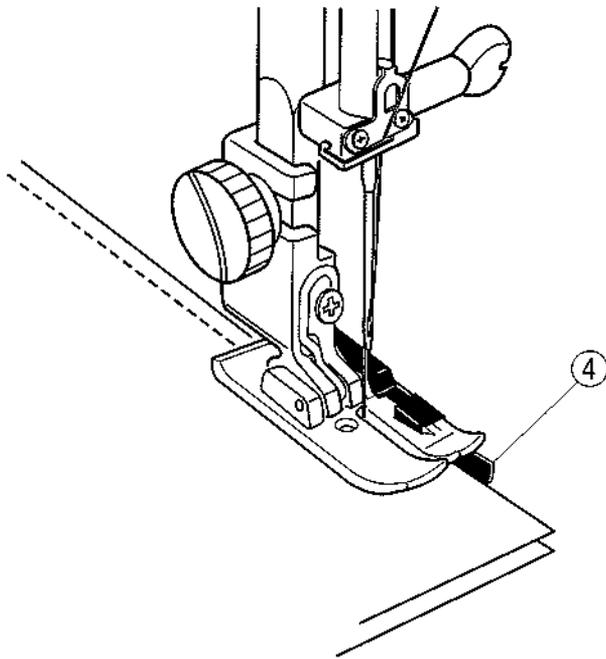
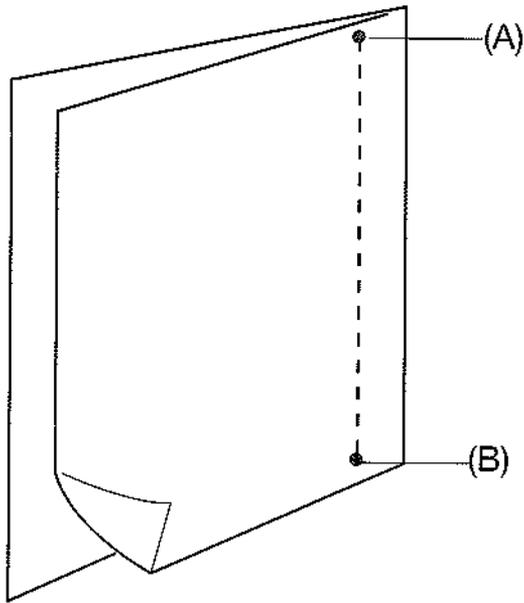
- When pressing the key, the stitch width also returns to default setting.



Angle scale on the needle plate

You can easily sew a Patchwork at the desired angle without marking, by using the unique angle scale on the needle plate.

The angle scale is marked at 45°, 60°, 90° and 120°.



To sew

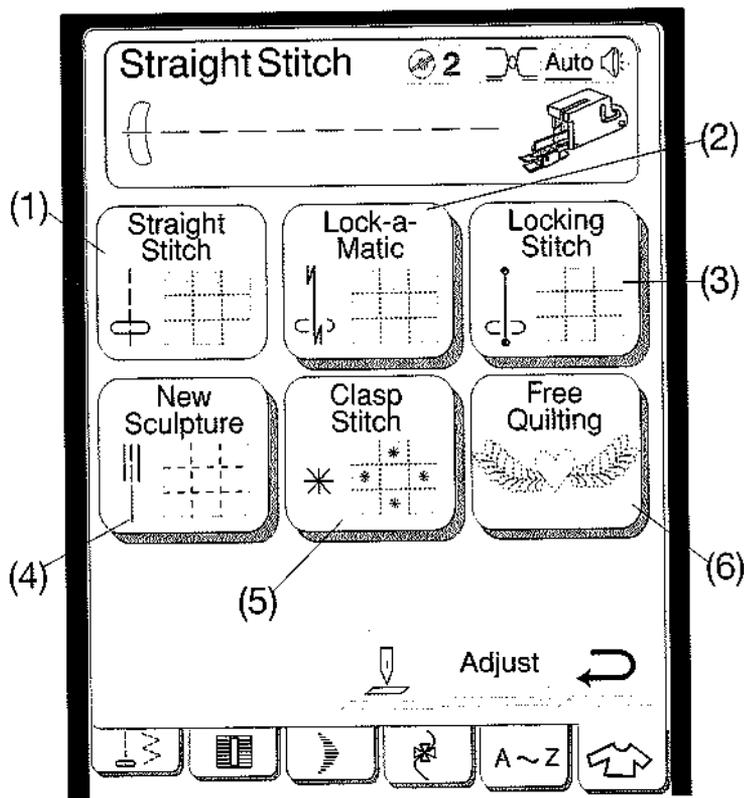
Place the fabrics with right sides together. Attach the 1/4" Seam Foot **O** and sew from starting point (A) to the ending point (B).

Guide the edge of the fabric along the Guide **④** on the foot to keep a precise seam allowance.

④ Guide

Stop the machine at the ending point (B) and the prompt window appears.

Press the **OK** key to sew the same length. Press the **Cancel** key to sew a different length or to select other patterns.



Quilting

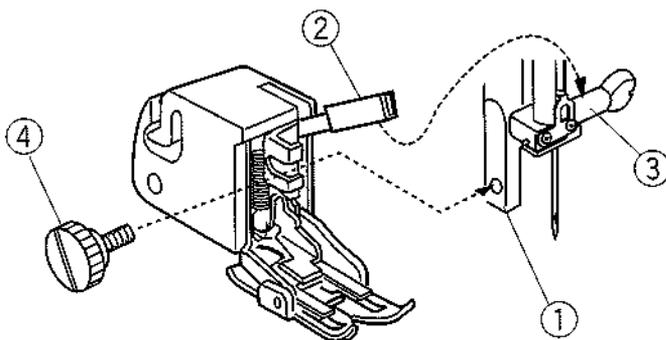
When you press the Quilting key, the Quilting window will appear.

The Straight Stitch of the center needle position will automatically be selected.

In the Quilting Mode, you may select the following.

- (1) Straight Stitch
- (2) Lock-a-Matic Stitch
- (3) Locking Stitch
- (4) New Sculpture Stitch
- (5) Clasp Stitch
- (6) Free Quilting

Use the Walking Foot for sewing patchwork quilt.



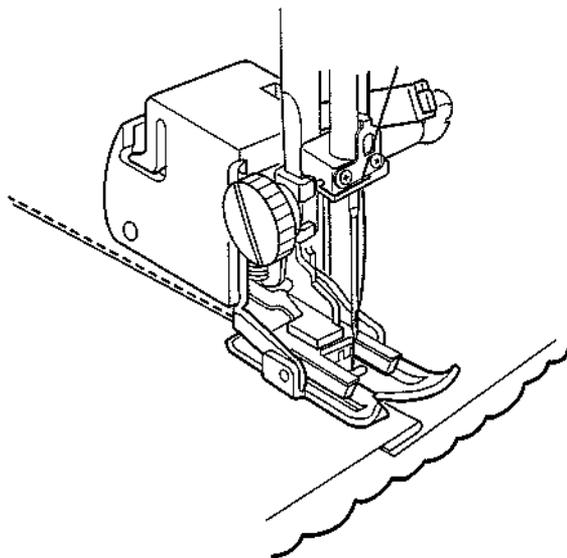
Attaching the Walking Foot

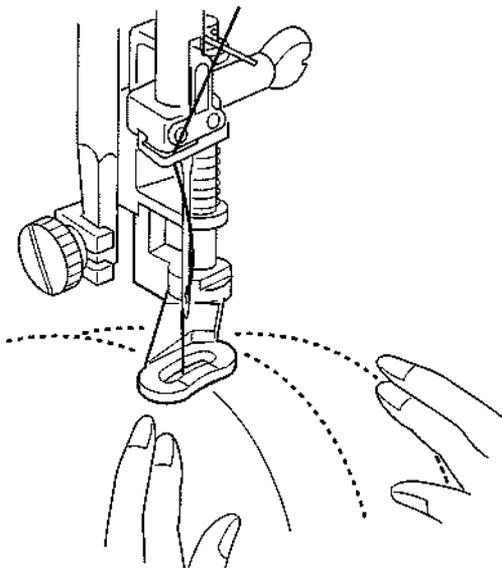
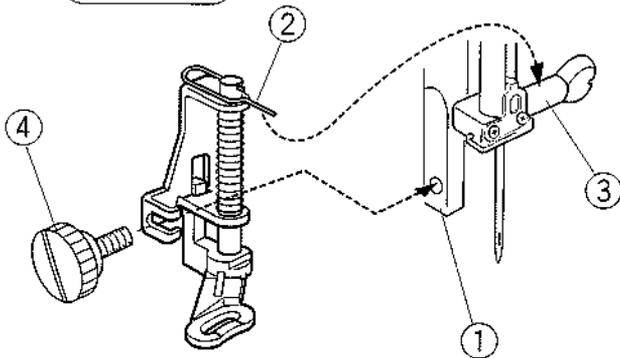
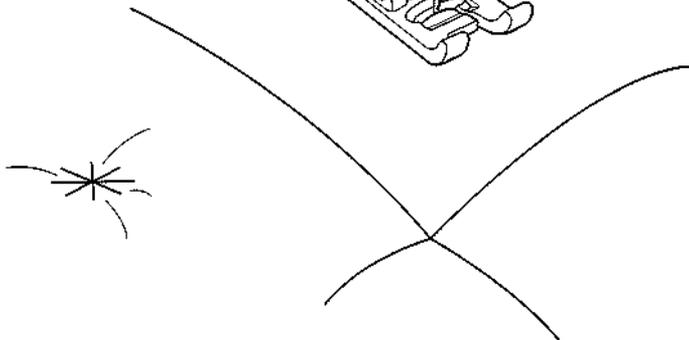
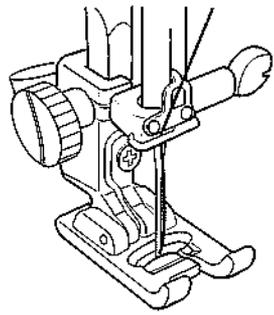
Remove the foot holder. Attach the walking foot to the Presser Bar ① with the Lever ② over the Needle Clamp Screw ③ and secure it with the Thumbscrew ④.

- ① Presser Bar
- ② Lever
- ③ Needle Clamp Screw
- ④ Thumbscrew

To sew

Sew a line of straight stitch along the seamline as shown.





Clasp stitch

You can close the thick quilting fabrics by using the Clasp Stitch.

Attach the Satin Stitch Foot F.

The machine will automatically stop after sewing one cycle of the stitch.

Free quilting

Remove the foot holder. Attach the Basting/Darning Foot P-2 to the Presser Bar ① putting the Pin ② on the Needle Clamp Screw ③. Tighten the Thumbscrew ④ firmly with the screwdriver.

- ① Presser Bar
- ② Pin
- ③ Needle Clamp Screw
- ④ Thumbscrew

To Sew

Lower the foot, then guide the fabric with your hands to stitch along the pattern marked on the fabric.



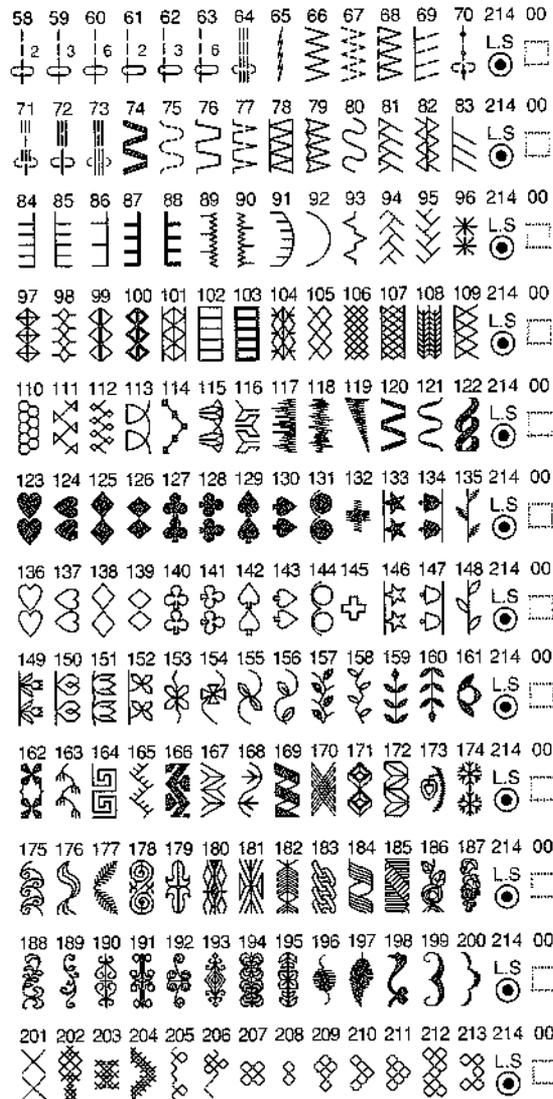
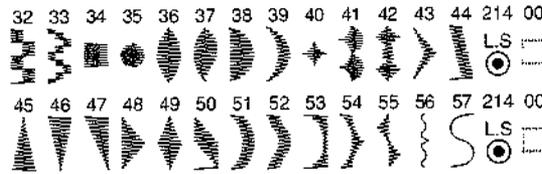
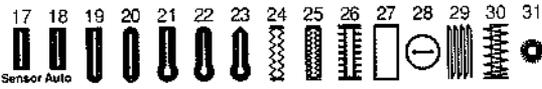
Troubleshooting

Problem	Cause	Reference
The machine is noisy.	<ol style="list-style-type: none"> 1. Threads have been caught in the hook mechanism. 2. The feed dog is packed with lint. 	<p>See Book 1 page 72. See Book 1 page 72.</p>
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 inserted incorrectly. 5. The thread is too heavy for the needle. 6. The needle thread and the bobbin thread are not set properly under (drawn to the rear of) the presser foot when sewing is starting. 	<p>See Book 1 page 18. See page 20. See Book 1 page 16. See Book 1 page 16. See page 25. See Book 1 page 21.</p>
The bobbin thread breaks.	<ol style="list-style-type: none"> 1. The bobbin thread is not threaded properly in the bobbin holder. 2. Lint has collected in the bobbin holder. 3. The bobbin is damaged and doesn't turn smoothly. 	<p>See Book 1 page 14. See Book 1 page 72. Replace the bobbin</p>
The needle breaks.	<ol style="list-style-type: none"> 1. The needle is inserted incorrectly. 2. The needle is bent or blunt. 3. The needle clamp screw is loose. 4. The needle thread tension is too tight. 5. The fabric is not drawn to the rear when sewing to finished. 6. The needle is too fine for the fabric being sewn. 	<p>See Book 1 page 16. See Book 1 page 16. See Book 1 page 16. See page 20. See page 16. See page 25.</p>
Visual Touch Screen is not clear.	<ol style="list-style-type: none"> 1. The contrast of the screen is not adjusted properly. 2. The screen is white out to prevent it from over heating. 	<p>See page 7. Turn the power off and on again.</p>
Skipped stitches	<ol style="list-style-type: none"> 1. The needle is inserted incorrectly. 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 the sewing stretch, very fine and synthetics. 5. The needle thread is not threaded properly. 6. The defective (rusted, burred needle eye) needle is used. 7. The presser foot pressure is weak. 8. The embroidery hoop is not set properly. 	<p>See Book 1 page 16. See Book 1 page 16. See page 25. See page 25. See Book 1 page 18. Change the needle See Book 1 page 26. See Book 1 page 61.</p>
Seam puckering	<ol style="list-style-type: none"> 1. The needle tension is too tight. 2. The needle thread or the bobbin thread is not threaded correctly. 3. The needle is too heavy for the fabric being sewn. 4. The stitch length is too long for the fabric. 5. The presser foot pressure is not adjusted correctly * When sewing extremely lightweight materials place interface underneath the fabric.. 	<p>See page 20. See Book 1 page 18. See page 25. Make stitches denser See Book 1 page 26.</p>

Problem	Cause	Reference
Slipping fabric	<ol style="list-style-type: none"> 1. The presser foot pressure is not adjusted correctly 2. The correct presser foot is not being used. 	See Book 1 page 26. Use the correct foot.
The cloth is not feeding smoothly.	<ol style="list-style-type: none"> 1. The feed dog is packed with lint. 2. The presser foot pressure is too weak. 3. The stitches are too fine. 4. The fabric is not fed when sewing is starting. 5. The feed dog is lowered. 6. The correct presser foot is not used. 	See Book 1 page 72. See Book 1 page 26. Make stitches coarser. See Book 1 page 13. See Book 1 page 26. Use the correct foot.
The machine doesn't run.	<ol style="list-style-type: none"> 1. The machine is not plugged in. 2. A thread is caught in the hook race. 3. The control circuit is not working correctly. 4. The start/stop button is used for ordinary sewing with foot control (sold separately) plugged in. 	See Book 1 page 9. See Book 1 page 72. Turn the switch off and turn it on again. See Book 1 page 10.
Patterns are distorted.	<ol style="list-style-type: none"> 1. The correct presser is not used. 2. The needle thread tension is too light. 3. The stitch length is not suitable for the fabric being sewn. 4. Feed balancing dial is not properly set. 5. Interfacing is not used for sewing stretch and very fine fabrics. 	Use the correct foot. See page 20. See Book 1 page 70. See Book 1 page 70. See page 38.
The automatic buttonhole stitches are not balanced.	<ol style="list-style-type: none"> 1. The stitch length is not suitable for the fabric being sewn. 2. The feed balancing dial is not set properly. 3. Interfacing is not used with stretch fabric. 4. The presser foot is not the correct one. 5. The machine settings (automatic or manual) are incorrect. 	See page 38. See Book 1 page 18. See page 38. Use the correct foot. See pages 38, 44.
Pattern selection keys don't work.	<ol style="list-style-type: none"> 1. The bobbin winder spindle is in the winding position (alarm will go on). 2. The control circuit is not working correctly. 	See Book 1 page 13, 19, 20. Turn the switch off and turn it on again.
Automatic needle threader doesn't work.	<ol style="list-style-type: none"> 1. The needle threader is locked in the lowered position. 	See Book 1 pages 19, 20.

STITCH CHART

ORDINARY SEWING



Block



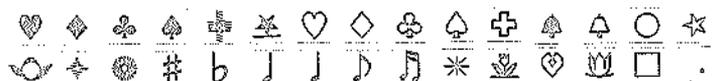
Script



Broadway



Symbol



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