### **Instruction Manual**



### Important safety instructions

Before using this sewing machine, please always read and follow all the basic safety instructions to prevent possible damages.

### **DANGER** - To reduce the risk of electric shock:

- 1. An appliance should never be left unattended when the power is turned on.
- 2. Always switch off this appliance immediately after using or before cleaning.
- 3. The sewing machine is equipped with a LED lamp. If the LED lamp is broken, please consult the manufacturer or an authorized dealer to replace it. Please do not attempt to replace it by yourself to prevent any hurt.

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

- 1. Read the instruction carefully before using the machine
- 2. Keep the instructions at a suitable place close to the machine and hand it over when you give the machine to a third party.
- 3. Do not use outdoors or in humid environments. If your hand is wet, please do not use the machine to prevent electric shock.
- 4. Never leave the machine unattended. Children or elderly people could wrongly operate the machine and get damaged.
- Children aged above 8-year-old, people with reduced physical, sensory or mental capabilities, or beginners should be attended with a capable supervisor to operate this machine. Safety instructions should be followed to prevent any hazards.
- 6. This machine is not a toy. Children shall not play with it unattendedly.
- 7. Cleaning or machine maintenance shall not be made by children without supervision.
- 8. Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- 9. Always use the proper needle plate. The wrong plate can cause the needle to break
- 10. Do not use bent needles.
- 11. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- 12. Always unplug sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual (pull power plug).
- 13. Never drop or insert any object into any opening.
- 14. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.

- 15. If the LED lamp is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person, in order to avoid a hazard.
- 16. Never place anything on the foot controller.
- 17. Never operate the appliance with any air openings blocked. Keep ventilation openings of the sewing machine and foot controller free from accumulation of lint, dust, and loose cloth.
- 18. The machine may only be used with foot controller type C-9000.
- 19. If the supply cord fixed with foot controller is damaged, it must be replaced by the manufacturer or its authorized service agent or a similar qualified person in order to avoid a hazard.
- 20. Do not dispose of electrical appliances as unsorted municipal waste. Please use separate collection facilities or contact your local government for information regarding the available collection systems.

### SAVE THESE INSTRUCTIONS

This sewing machine is intended for household use only.

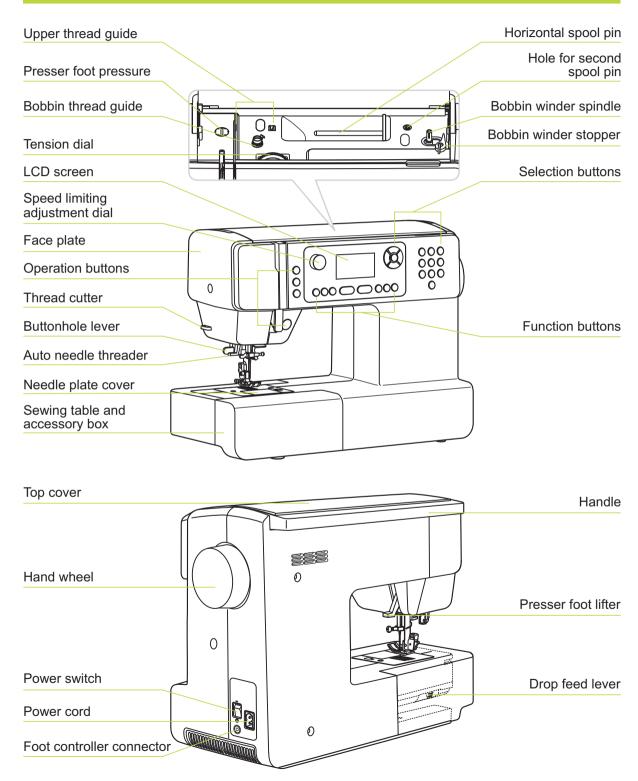


GETTING READY TO SEW	
Principal parts of the machine	
Accessories	7
Connecting the machine	
Winding the bobbin	9-10
Inserting the bobbin	11
Threading the upper thread	12-13
Using the needle threader	14
Adjusting presser foot pressure	15
Replacing the needle	16
Needle, Fabric, Thread Selection Guide	17
Changing the presser foot	18
Type of presser foot chart	19
Two-step presser foot lifter	20
To raise or drop the feed dogs	20
Information on the LCD Display	21-24
Normal mode	21
Memory mode	22
Buttons of the machine	23
Operation buttons	24-26
Function buttons	27-29
SEWING BASICS	
Pattern chart	30-31
Thread tension	
Useful skills	
Reverse	
Free arm	
Sewing corners	
Cutting the thread	
Sewing on the heavy fabric	34
Selecting stitch	35-36
Straight stitches and needle position	37
Zigzag stitches	37
Stretch stitch	38
Overcasting stitches	39
Using the overcasting foot	39
Using the all nurnose foot	30

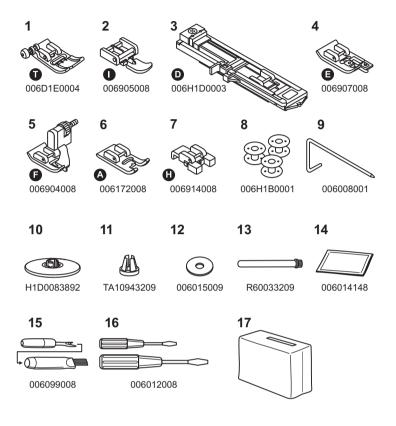
ORDINARY SEWING	
Blind hem/ lingerie stitch	40
Buttonhole stitch	41-44
Making a buttonhole on stretch fabrics	44
Bar tack stitch	45
Eyelet Stitch	46
Button sewing	
Darning stitch	
Zipper insertion	
inserting a centered zipper	50
Inserting a side zipper	51
Narrow hemming	52
Cording	53
Single cording	53
Triple cording	53
Satin stitch sewing	54
Gathering	55
Smocking	56
Free motion darning, embroidery and monogramming	57-58
Darning	57
Embroidery	58
Monogramming	58
Quilting	59-60
Attaching the edge/ quilting guide	59
Joining the pieces of the fabric	
Patchwork stitch	
Fagoting	61
Scallop stitch	62
Scallop hem	
Scallop edging	
Walking foot	63
Mirror	64
Elongation	65
Using the twin needle	66-67
Memory	68-72
Combining patterns	
Editing patterns	70
Clearing patterns	
Adding patterns	
Recalling and sewing the memorized pattern	72

# APPENDIX Warning functions 73-74 Warning message 73 Warning sound 74 Buzzer sound 75 Maintenance 76-77 Cleaning the LCD screen 76 Cleaning the sewing machine surface 76 Cleaning the hook 76 Trouble shooting guide 78-79

### Principal parts of the machine

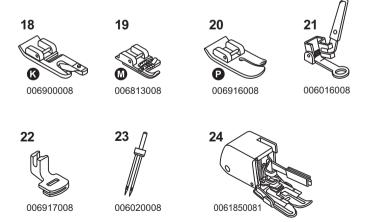


### Accessories



### **Standard**

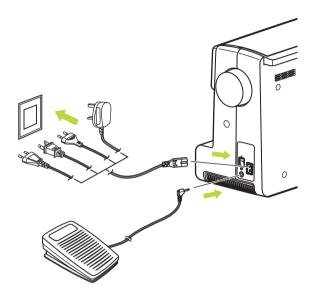
- 1. All purpose foot (T)
- 2. Zipper foot (I)
- 3. Buttonhole foot (D)
- 4. Overcasting foot (E)
- 5. Blind hem foot (F)
- 6. Satin stitch foot (A)
- 7. Button sewing foot (H)
- 8. Bobbin (3x)
- 9. Edge/quilting guide
- 10. Spool holder (Large)
- 11. Spool holder (Small)
- 12. Spool pin felt
- 13. Second spool pin
- 14. Needle (3x)
- 15. Brush/ Seam ripper
- 16. Screwdriver (L & S)
- 17. Soft cover



### **Optional**

- 18. Hemmer foot (K)
- 19. Cording foot (M)
- 20. Quilting foot (P)
- 21. Darning/ Embroidery foot
- 22. Gathering foot
- 23. Twin needle
- 24. Walking foot

### Connecting the machine



Before connecting the power supply, make sure that the voltage and frequency shown on the rating plate is conforming with your mains power.

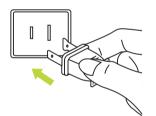
Place the machine on a stable table.

- Connect the power line cord to the machine by inserting the 2-hole plug into the mains plug socket.
- 2. Connect the power line plug to the wall outlet.
- 3. Turn on the power switch.
- 4. The sewing lamp will light up when the switch is turned on.



#### Caution:

Always make sure that the machine is unplugged from power source and the main switch is on ("O") when the machine is not in use and before inserting or removing parts.



### Polarized plug information

This appliance has a polarized plug (one blade wider than the other) to reduce the risk of electrical shock; this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way.



#### **Foot Control**

When the sewing machine is turned off, insert the foot control plug into its connector on the sewing machine.

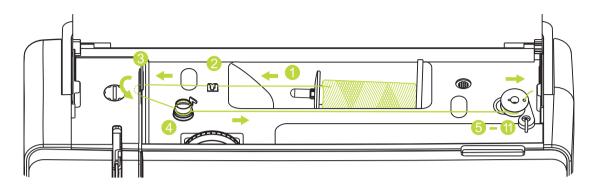
Turn on the sewing machine, and then slowly depress the foot control to start sewing. Release the foot control to stop the sewing machine.

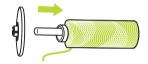


#### Attention:

Consult a qualified electrician for how to connect the machine to the power source. The appliance must be used with the correct foot controller C-9000.

### Winding the bobbin

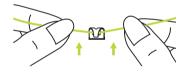




 Place the thread and spool holder onto the spool pin.
 For smaller spools of thread, place spool holder with the small side next to the spool or use the small spool holder.



If using a special thread which winds quickly off the spool, attach a net to the spool before using or use a larger spool holder instead. Reduce the thread tension if necessary.



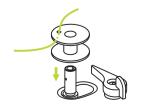
2. Pull the thread from the spool and make sure the thread is properly snapped into the upper thread guide.



3. Guide the thread through the left thread guide then continue to pull the thread until reach the pre-tension spring as illustrated.



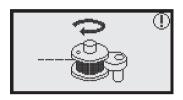
4. Wind the thread clockwise around the bobbin winder tension discs.



Place the thread end through one of the inner holes in the bobbin as illustrated. Then fix this empty bobbin onto the spindle.



6. Push the bobbin to the right side.



7. When the bobbin winder spindle is pushed to the right position, a message icon will be shown on the LCD screen. When this message appears, users can only wind the bobbin thread as described in below sections. Sewing cannot be done while the spindle is set at the right side position.

This message will disappear when the bobbin winder spindle is pushed back to the left side for normal sewing.



8. Hold the thread end securely in one hand.



9. Depress the foot controller or push the Start/Stop button to start winding the bobbin.



10. After the bobbin has wound a few rounds, stop the machine and cut the extra thread. Keep it short and near the hole of the bobbin then continue to fill the bobbin until it is 80~90% full. Once the bobbin is full, release the foot pedal or push the button to stop the machine then push the bobbin winder spindle to left.

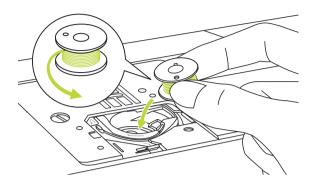


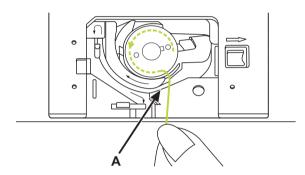
11. Cut the extra thread then remove the bobbin from the spindle.

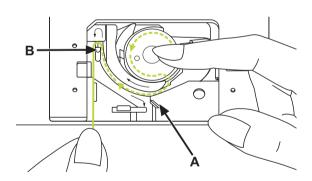


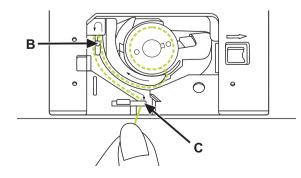
When the bobbin winder spindle is set on the right position, machine cannot perform sewing application and the hand wheel will not turn. To start sewing, please remember to push the bobbin winder spindle to its left position.

### Inserting the bobbin











#### Attention:

Turn power switch to off ("O") before threading or unthreading the machine.

The thread take-up lever must be in the highest position when threading.

To open the bobbin cover, push the latch to the right side.

Then Insert the bobbin in the bobbin holder with the thread in counter-clockwise direction (arrow mark).

Pull the thread through the slit under the finger (A).

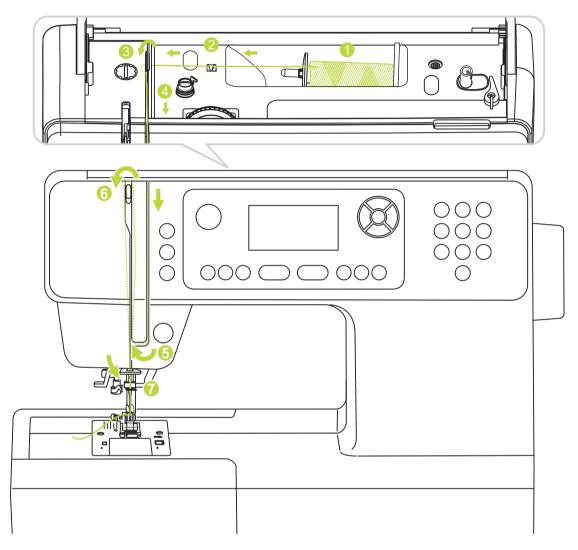
To make sure that the thread is pulled into the tension spring of the bobbin holder, press a finger slightly onto the bobbin while pulling. As a check you must feel a resistance in the thread feed. Follow the arrow marking on the stitch plate and guide the thread from (A) to (B).

Then continue to follow the arrow marking and guide the thread from (B) to (C).

To cut the excess part of the thread, pull the thread back over the blade at point (C).

Close the bobbin cover.

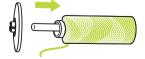
### Threading the upper thread



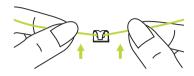
### Please Note:

It is very important to do the threading correctly. Improper threading may result in different sewing problems.

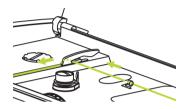
Start by raising the needle to its highest point, and also raise the presser foot to release the tension discs.



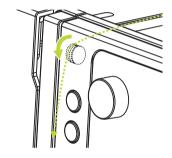
1. Lift up the spool pin. Place the spool of thread on the spool pin so that the thread comes from the front of the spool, then place the spool cap at the end of the spool pin.



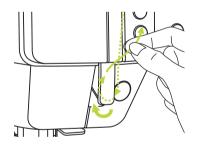
2. Pull the thread from the spool and snap the thread into the upper thread guide.



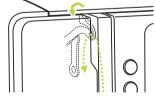
3. Guide the thread around another thread guide. Snap the thread into it then pull the thread through the pre-tension



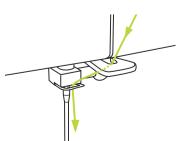
4. Pull the thread forward and down. This operation pulls the thread into the thread tension.



5. Then pull the thread further down and around the bottom part of the take up lever cover.



At the top of this movement, pass the thread from right to the left through the slotted eye of the take-up lever and then downwards again.

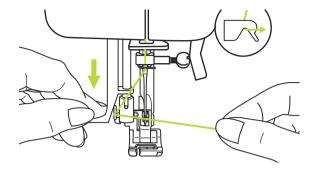


7. Snap the thread into the down thread guide and guide the thread through the wire loop.

Pull the end of the thread through the needle from front to rear, and pull out about 10 cm of thread.

Use the needle threader to thread the needle. (See the next page for instruction.)

### Using the needle threader



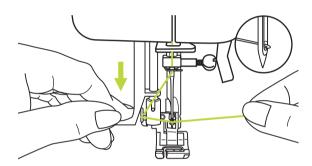
Please raise the needle to its highest position and lower down the presser foot.



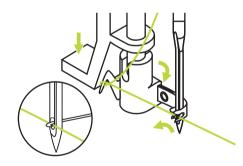
#### Attention:

Turn power switch to the off position ("O").

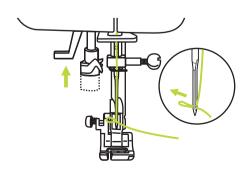
Lower the needle threader lever slowing and pull the thread through the thread guide as illustrated and then to the right.



The needle threader automatically turns to the threading position and the hook pin passes through the needle eye.



Pull the thread to the right, guiding it to the front of the needle.

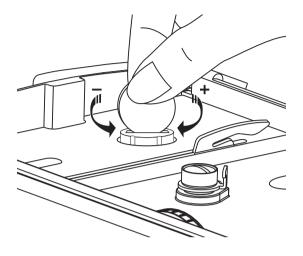


Hold the thread loosely and release the lever slowly.

The hook will turn and pass the thread through the needle eye forming a loop.

Pull the thread through the needle eye.

### Adjusting presser foot pressure



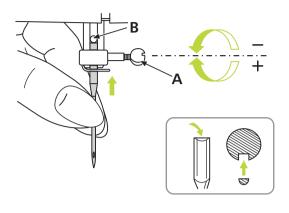
The presser foot pressure of the machine has been pre-set and requires no particular readjustment according to the type of fabric (light-or-heavy weight).

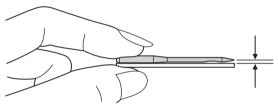
However, if you need to adjust the presser foot pressure, turn the presser adjusting screw with a coin.

For sewing very heavy fabric, loosen the pressure by turning the screw counter-clockwise, and for thin fabric, tighten by turning it clockwise.

To return to machine's default pressure setting, turn the screw to make it flush with the face cover.

### Replacing the needle







#### Attention:

Turn power switch to off ("O") when carrying out the below operation!

Change the needle regularly, especially if it is showing signs of wear and causing problems.

Insert the needle following the illustrated instructions.

- A. Loosen the needle clamp screw and tighten again after inserting the new needle. The flat side of the shaft should be towards the back.
- B. Insert the needle as far up as it will go.

Needles must be in perfect condition.

Problems can occur with:

- Bent needles
- Blunt needles
- Damaged points



### **NEEDLE, FABRIC, THREAD SELECTION GUIDE**

NEEDLE SIZE	FABRICS	THREAD		
9-11 (70-80)	Lightweight fabrics-thin cottons, voile, serge, silk, muslin, Qiana, interlocks, cotton knits, tricot, jerseys, crepes, woven polyester, shirt & blouse fabrics.	Light-duty thread in cotton, nylon, polyester or cotton wrapped polyester.		
11-14 (80-90)	Medium weight fabrics: cotton, satin, kettle cloth, sailcloth, double knits, lightweight woolens.	Most threads sold are medium size and suitable for these fabrics and needle sizes.  Use polyester threads on synthetic materials and cotton on natural woven fabrics for best results.  Always use the same thread on top and bottom.		
14 (90)	Medium weight fabrics-cotton duck, woolen, heavier knits, terrycloth, denims.			
16 (100)	Heavyweight fabrics-canvas, woolens, outdoor tent and quilted fabrics, denims, upholstery material (light to medium).			
18 (110)	Heavy woolens, overcoat fabrics, upholstery fabrics, some leathers and vinyls.	Heavy duty thread, carpet thread.		

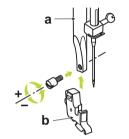
### Please Note:

- In general, fine threads and needles are used for sewing fine fabrics, and thicker threads are used for sewing heavy fabrics.
- Always test thread and needle size on a small piece of fabric which will be used for actual sewing.
- Use the same thread for needle and bobbin.
- Use a backing for fine or stretchy fabrics.



#### Attention:

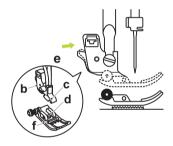
Turn power switch to off ("O") when carrying out any of the below operations!



### Attaching the presser foot holder

Raise the presser foot bar (a).

Attach the presser foot holder (b) as illustrated.

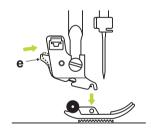


#### Attaching the presser foot

Lower the presser foot holder (b) until the cut-out (c) is directly above the pin (d).

Press the black lever (e).

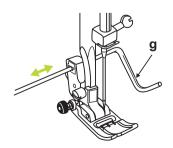
Lower the presser foot holder (b) and the presser foot (f) will engage automatically.



#### Removing the presser foot

Raise the presser foot.

Press the black lever (e) and the foot will disengages.



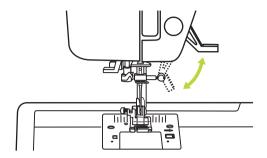
#### Attaching the edge/quilting guide

Attach the edge/quilting guide (g) in the slot as illustrated. Adjust according to need for hems, pleats, etc.

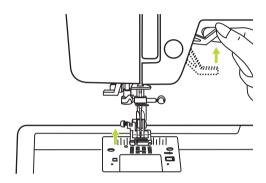
# Type of presser foot chart

PRESSER FOOT	APPLICATION	NEEDLE	PRESSER FOOT	APPLICATION	NEEDLE	
All purpose foot (T)	General sewing, Patchwork stitches, Decorative stitching, Smocking, Fagoting, etc.		Cording foot (M) (Optional)	Cording \$\frac{1}{2}\$		
Zipper foot (I)	Inserting zippers		Hemmer foot (K) (Optional)	Narrow hemming		
Buttonhole foot (D)	Buttonhole sewing, Bar tack stitches, Darning stitches.		Darning/ Embroidery foot (Optional)	Darning Free embroidery Monogramming		
Button sewing foot	Button sewing		Quilting foot (P) (Optional)	Quilting		
Blind hem foot (F)	Blind hem stitching		Gathering foot (Optional)	Gathering		
Overcasting foot (E)	Overcasting			This foot helps to prevent uneven feeding of very difficult fabrics	prevent uneven feeding of very	
Satin stitch foot (A)	Satin stitch sewing		Walking foot (Optional)			

### Two-step presser foot lifter



The presser foot lifter raises and lowers your presser foot.

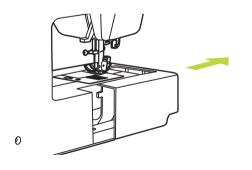


When sewing multi-layers or thick fabrics, the presser foot can be further raised up for easy re-positioning your sewing work.

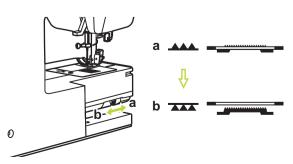


The needle must always be raised at the highest position.

### To raise or drop the feed dogs



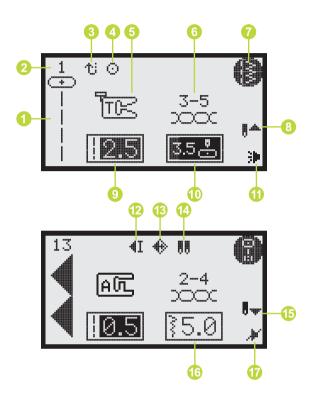
With the sewing table off the machine, the feed dog adjustment lever can be seen on the base in back of the sewing machine.

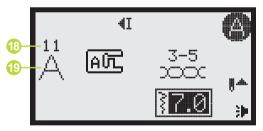


Sliding the lever to the " (b) will lower the feed dog, for example during button sewing. If you wish to continue sewing normally, slide the lever to the " (a) in order to raise the feed dogs.

The feed dog will not rise up if you do not turn the hand wheel, even if the lever is slid to the right. Make a complete turn to raise the feed dogs.

### Information on the LCD Display

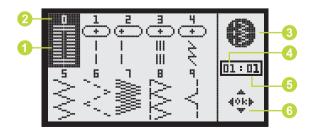




### Mormal mode

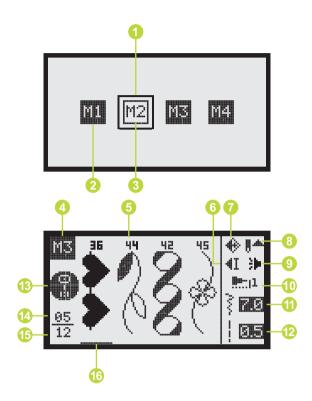
#### Normal mode display

- 1. Pattern
- 2. Pattern number
- 3. Reverse
- 4. Auto-lock
- 5. Suggested presser foot
- 6. Tension
- 7. Pattern group
- 8. Needle up position
- 9. Stitch length
- 10. Needle position
- 11. Sound on
- 12. Auto-stop
- 13. Mirror
- 14 Twin needle
- 15. Needle down position
- 16. Stitch width
- 17. Sound off
- 18. Alphabet number
- 19. Alphabet



### Normal mode display - pattern browser display

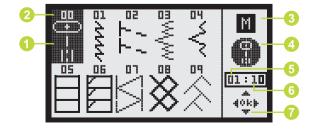
- 1. Pattern
- 2. Pattern number
- Pattern group
- 4. Current page
- 5. Total page
- 6. Operation indication



### Memory mode

#### Memory mode display

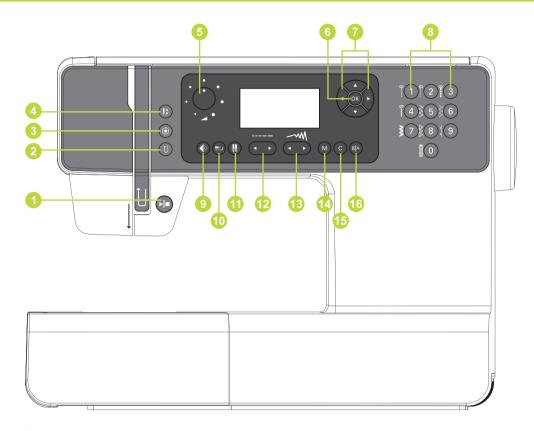
- 1. Selection frame
- 2. Memory module with unit
- 3. Empty memory module
- 4. Current memory module
- 5. Pattern number and pattern
- 6. Auto-stop
- 7. Mirror
- 8. Needle up position
- 9. Sound on
- 10. Elongation
- 11. Stitch width
- 12. Stitch length
- 13. Current pattern group
- 14. Current memory unit
- 15. Total of memory units
- 16. Memory cursor



### Memory mode display - pattern browser display

- 1. Pattern
- 2. Pattern number
- 3. Memory model
- 4. Pattern group
- 5. Current page
- 6. Total page
- 7. Operation indication

### Buttons of the machine



- 1. Start/stop button
- 2. Reverse button
- 3. Auto-lock button
- 4. Needle up/down position button
- 5. Speed limiting adjustment dial
- 6. OK button
- 7. Arrow buttons
- 8. Direct pattern selection and number buttons
- 9. Mirror button
- 10. Elongation button
- 11. Twin needle button
- 12. Stitch length adjustment button
- 13. Stitch width adjustment button
- 14. Memory button
- 15. Clear button
- 16. Pattern group selection button

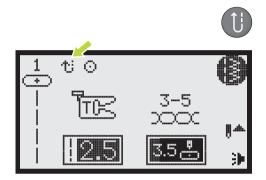
### Operation buttons



### Start/stop button

The machine will start running when Start/stop button is pressed and will stop when pressed the second time.

The machine will rotate slowly at the beginning of the sewing.



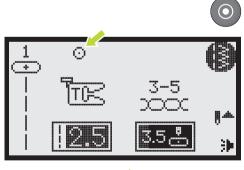
#### **Reverse button**

Keep pressing the button to do reverse sewing. An icon "†: " will appear on the LCD display to indicate reverse sewing.

Release the button: Back to normal forward sewing direction.

Only the Direct Patterns 1-5 and A Group Pattern 00 can be sewn in reverse.

If you press the reverse button before starting to sew, the machine will permanently sew in reverse until you press the button again.





### **Auto-lock button**

If the Direct Patterns 1-4 or A Group Pattern 00 were selected, the machine will immediately sew 3 locking stitches when the Auto-lock button is pressed, then machine will automatically stop.

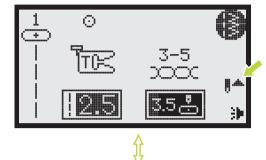
The LCD screen will display the figure "  $\odot$  " until the machine is stopped.

Select the pattern (except Direct Patterns 0-4 and A Group Pattern 00, 86-98), press the Auto-lock button, the machine will sew 3 locking stitches at the end of the current pattern and automatically stop.

The LCD display will display the figure " **4** I " until the machine is stopped.

The function will be cancelled if you press the button once again or select another pattern.







### Needle up/ down position button

Press the button to decide whether the needle should stop at the upper position or stay in the material when you stop sewing.

Press the button so the arrow on the LCD points upward " the needle moves to the highest position and will stop there after sewing.

Press the button so the arrow on the LCD points downwards " the needle moves to the lowest position and will stop there after sewing.

### Please Note:

During sewing, press the needle up/down button will stop the machine automatically.



### Speed adjustment dial

Speed adjustment dial can control the sewing speed.

Turn the dial clockwise to increase the sewing speed. Turn the dial counterclockwise to decrease the sewing speed.



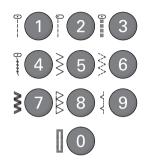
#### **Arrow buttons**

Use the buttons to select desired pattern, function... etc.



#### **OK** button

Press this button to confirm the selection. In the normal/ memory mode, press the button to enter the pattern browser.



### Direct pattern selection and number buttons

### **Direct pattern selection**

Press the buttons to select the utility patterns shown beside the number button when the mode button is set at the Direct mode.







#### **Number buttons**

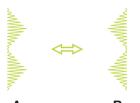
Except the Direct pattern mode, the other mode can be selected by pressing the desired numbers.

Press the number buttons for selecting the pattern needed.

For example: pattern 36

## Function buttons





#### Mirror button

Except the Direct Pattern 0 and the patterns 86-98 from the Group Patterns "A", the other patterns can be mirror imaged by pressing the mirror button.

The machine will continue to sew the reflected pattern until the mirror button is pressed again. The mirror function also will be cancel if the pattern changed.

- A. Normal pattern
- B. Mirror image pattern



### **Elongation button**

A Group Patterns 13-36 can be elongated up to five times than its normal length by pressing the elongation button.

When the width or length or stitch is changed, a greater variety of patterns are available.



### Twin needle button

Except the Direct Pattern 0 and the patterns 86-98 from Group Patterns "A", the other patterns can be sewn in two parallel line of the same stitch with the twin needle.

Press the twin needle button, and the machine automatically reduces the maximum width for the twin needle sewing.

Press the button again to return to single needle sewing.



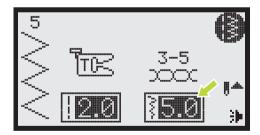


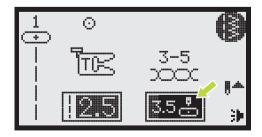
### Stitch length adjustment button

When you select a stitch pattern, the recommended stitch length will be used and its number will be shown on the LCD screen for user's reference.

The stitch length can be further adjusted by pressing the stitch length adjustment button. To shorten the stitch length, press the "—" button (left). For a longer stitch length, press the "+" button (right). The stitch length can be adjusted between "0.0-4.5". Certain stitches will have a limited stitch length.







### Stitch width adjustment button

When you select a stitch pattern, the recommended stitch width will be used and its number will be shown on the LCD screen for user's reference.

The stitch width can be adjusted by pressing the stitch width adjustment button.

For a narrower stitch width, press the left side of the button. For a wider stitch, press the right side of the button.

The stitch width can be adjusted between "0.0-7.0". Certain stitches will have a limited stitch width.

When Direct Patterns 1-4 and A Group Pattern 00 are selected, this button can be used for adjusting the needle position.

Press the left side of the button will move the needle to the left position. Press the right side of the button will move the needle to the right position.

The numbers will be changed from left position "0.0" to extreme right position "7.0". The preset center needle position will be indicated as "3.5".



### **Memory button**

Press the memory button to enter the memory mode. Users can store the various combinations of characters or stitches.

The Direct mode patterns and the patterns 86-98 from Group Patterns "A" cannot be memorized.



### **Clear button**

If an incorrect pattern or memory module is selected, press this button to clear it or return to the previous screen.







### Pattern group selection button

The LCD screen will be set at direct patterns mode when you turn on the machine. Press the pattern group selection button, LCD screen enters the pattern group selection screen automatically. Use the arrow buttons to select the desired group of stitch.



Direct patterns mode.



A Group Patterns mode.



B Group Patterns mode.



Block style alphabet mode.



Script style alphabet mode.

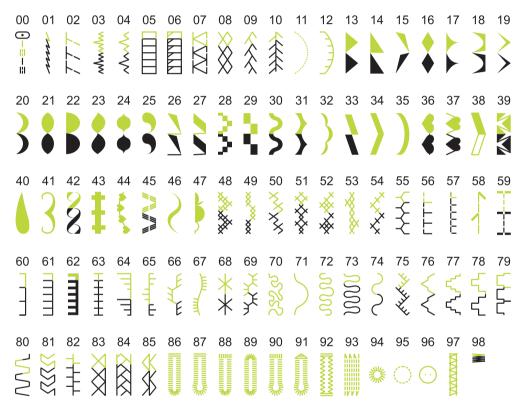
### **Pattern chart**

### ☑ Direct patterns

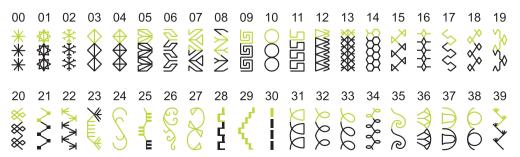


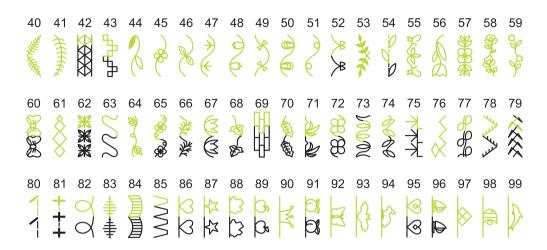


### 🛚 A Group Patterns 📳



### 🗵 B Group Patterns 📳





### 🗵 Alphabet - Block style 📳



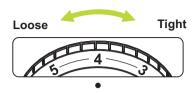
1234567890 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 9 h i J k l m n o P 9 r s t abcdef uvwxyz63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 ÄÅÆÑÖØÇÜäãåæëèéêñöõøìÇüũß& 89 90 91 92 93 94 95 96 97 •

### Alphabet - Script style alphabet

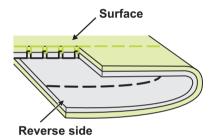


01 02 03 04 05 06 07 08 09 10 1234567890 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 ABCDEFGHIFKLMNOPQRSTUVWXYI 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 abodef 9 hi Fkl mno p9 r sturwx4 z 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 ÄÅÆÑÖØÇÜ äãåæëèéêñöõoìçüũß& 89 90 91 92 93 94 95 96 97

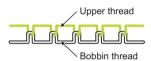
### Thread tension

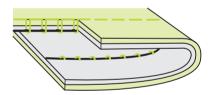


- Default thread tension setting: "4"
- To increase the tension, turn the dial to the next number up. To reduce the tension, turn the dial to the next number down.
- Proper tension setting is important for good sewing quality.
- For all decorative sewing, you will always obtain a nicer stitch and less fabric puckering when the upper thread appears on the bottom side of your fabric.
- There is no single tension setting which is appropriate for all the stitches and fabrics.



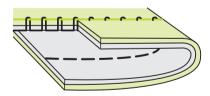
Normal thread tension for straight stitch sewing.





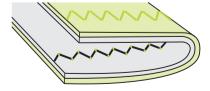
Thread tension is too loose for straight stitch sewing. Turn dial to higher number.





Thread tension is too tight for straight stitch sewing. Turn dial to lower number.



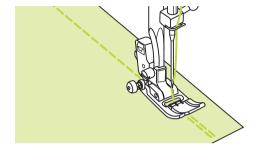


Normal thread tension for zigzag and decorative stitches.



### Useful skills

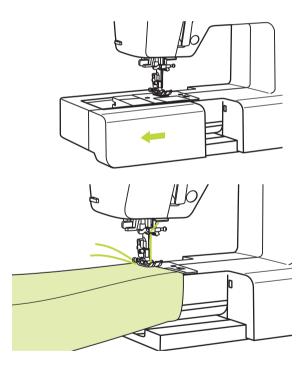




#### **Reverse**

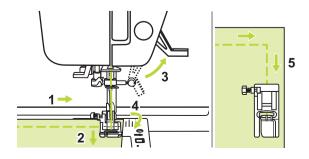
Reverse stitching is used to secure the threads at the beginning and at the end of a seam.

Press the reverse button and sew 4-5 stitches. The machine will sew forward when the button is released.



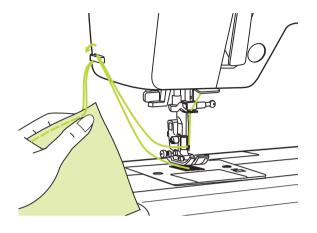
### **Free arm**

Free-arm sewing is convenient for sewing tubular areas such as pant hems and cuffs.



### **M** Sewing corners

- Stop the sewing machine when you reach a corner.
- Lower the needle into the fabric manually or by pressing the needle up/ down button once.
- 3. Raise the presser foot.
- 4. Use the needle as a pivot and turn the fabric.
- 5. Lower the presser foot and resume sewing.



### Cutting the thread

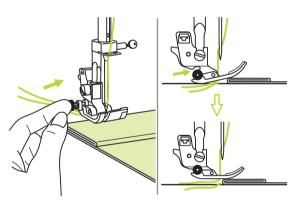
The thread cutter serves two purposes.

- 1. Cut the thread after threading the needle
- 2. Cut the thread after finishing a seam.

To cut the thread after completing your work raise the presser foot.

Remove the fabric, draw the threads to the left side of the face cover and cut using the thread cutter.

The threads are cut at the proper length to start the next seam.

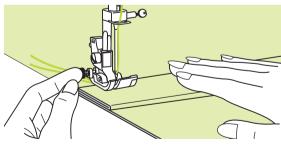


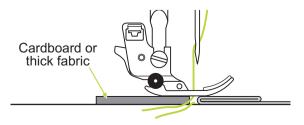
### Sewing on the heavy fabric

The black button on the left side of the presser foot will lock the presser foot in a horizontal position if you push it in before lowering the presser foot. This ensures even feeding at the beginning of a seam and helps when sewing multiple layers of fabric such as sewing over seams when hemming jeans.

When you reach the point of an increased thickness, lower the needle and raise the presser foot. Press the toe of the foot and push in the black button, then lower the foot and continue sewing.

The black button releases automatically after sewing few stitches.



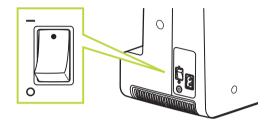


You also can place another piece of fabric with the same thickness at the back of the seam. Or support the presser foot while feeding by hand and sewing toward the folded side.

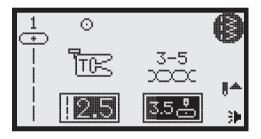
### Selecting stitch

Ten of the most frequently used utility stitches can quickly be selected with the direct pattern selection and number buttons.

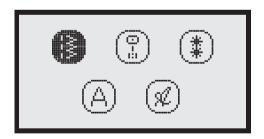
Select the desired stitch from those shown on the top cover.



1. Turn on the sewing machine.



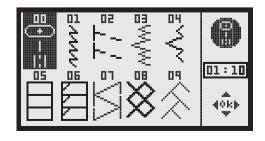
When the sewing machine is turned on, the straight stitch (center needle position) is automatically selected.



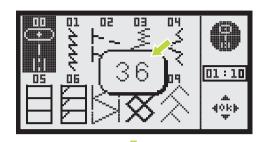
3. Press the pattern group selection button to enter the pattern group selection screen.

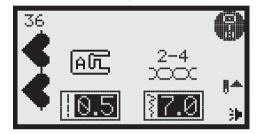
The following 5 category icons show on.

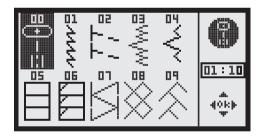


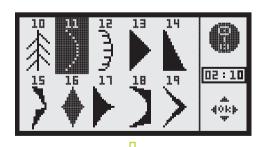


5. Press ok button ok to into pattern browser, the screen containing the various stitches in the selected pattern group appears.











6. Select the desired pattern that you sew.

Use the number buttons 

4

7

Press the number buttons for selecting the pattern needed.

For example: pattern 36

#### Please Note:

Press the OK button or can return to the pattern browser display.

#### 



Press the arrow buttons until the stitch that you wish to use is selected.

To the previous/ next stitch pattern.

To the previous/ next stitch pattern row.

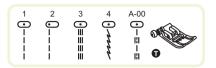
For example: Direct pattern 11, press the arrow button twice, and then press the arrow button once.

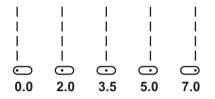
Press the OK button ok, the stitch pattern is selected.

#### Please Note:

Press the OK button ok can return to the pattern browser display.









#### Changing the needle position

These setting apply only to Direct Patterns 1-4 and A Group Pattern 00.

The pre-set position is "3.5", center position. Press the stitch width adjustment button left " ◀ ", the needle position will move to the left.

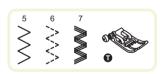
Press the stitch width adjustment button right "▶", the needle position will move to the right.

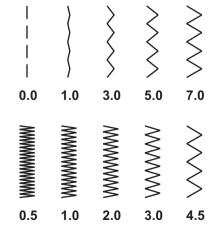
#### Changing the stitch length

To shorten the stitch length, press the stitch length adjustment button left " ◀ ". For a longer stitch length, press the stitch length adjustment button right " ▶ ".

Generally speaking, the thicker the fabric, thread and needle, the longer the stitch should be.

### Zigzag stitches





### Adjusting the stitch width

The width increases as you press the stitch width adjustment button from "0.0-7.0".

The width can be reduced on any patterns.

### Adjusting the stitch length

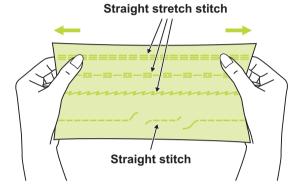
The density of zigzag stitches increase as the setting of stitch length approaches "0.3".

Neat zigzag stitches are usually achieved at "1.0-2.5".

Closed up zigzag stitches (close together) are referred to as a satin stitch.

### Stretch stitch

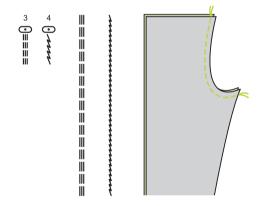




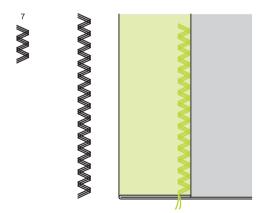
It assures you of a stitch that is strong and flexible and will give with the fabric without breaking.

Good for easy to ravel and knit fabrics. It is good for joining durable fabric such as denims.

These stitches can also be used as a decorative top stitch.



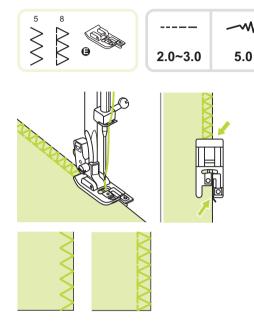
Straight stretch stitch is used to add triple reinforcement to stretch and hardwearing seams.



Triple zigzag stretch stitch is suitable for firm fabrics like denim, poplin, duck, etc.

# Overcasting stitches

Sewing overcasting stitches along the edges of fabric to prevent them from fraying.



#### ■ Using the overcasting foot

Change the presser foot to the overcasting foot (E).

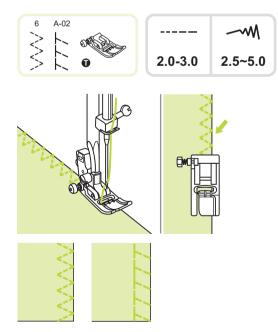
Sew the fabric with the fabric edge against the guide of the overcasting foot.



#### Attention:

The overcasting foot should be used to sew with Direct Patterns 5 and 8 only and do not set the stitch width narrower than "5.0".

It is possible that needle could hit the presser foot and break when sewing other patterns and width.



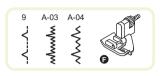
#### ■ Using the all purpose foot

Change the presser foot to the all purpose foot (T).

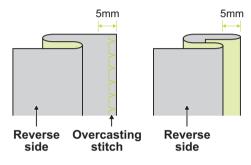
Sewing the overcasting along the edge of the fabric so that the needle drops over the edge of the fabric on the right side.

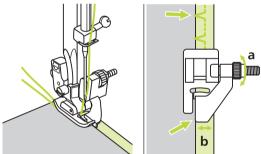
### Blind Hem

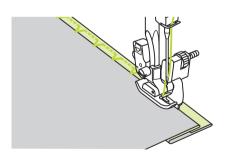
Secure the bottoms of skirts and pants with a blind hem, this stitch will sew without stitches showing on right side of fabric.

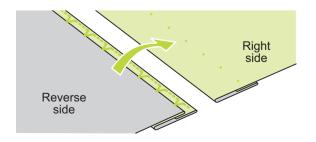












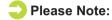
9 : Blind hem/ lingerie for firm fabrics

A-03: Blind hem for stretch fabrics

A-04: Blind hem for stretch fabrics

Fold the fabric as illustrated with the reverse side uppermost.

First carry out an overcasting stitch as shown in left picture.



It takes practice to sew blind hem. Always make a sewing test first.

Place the fabric under the foot. Turn the hand wheel forwards by hand until the needle swings fully to the left. It should just pierce the fold of the fabric. If it does not, adjust the stitch width accordingly.

Adjust the guide (b) by turning the knob (a) so that the guide just rests against the fold.

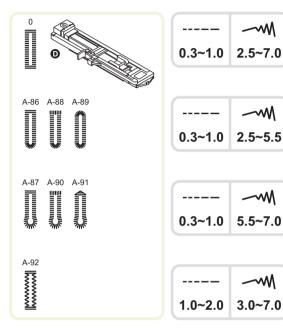
Sew slowly, guiding the fabric carefully along the edge of the guide.

Turn over the fabric.

### Buttonhole stitch

Buttonhole sewing to match the size of the button is possible.

For stretch fabric or thin fabric, it is recommended to use a stabilizer for a better buttonhole finish.



0 : For thin or medium fabric

A-86: For thin or medium fabric

A-88: For horizontal buttonholes on thick fabrics

A-89: For thin or medium fabric

A-87: For suits or overcoats.

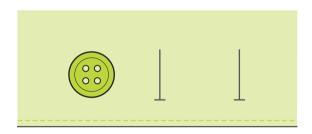
A-90: For thick coats

A-91: For jeans or trousers

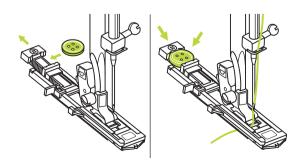
A-92: For jeans or stretch fabric with a coarse

#### Please Note:

Before sewing a buttonhole on your project, practice on a scrap piece of the same type of fabrics.



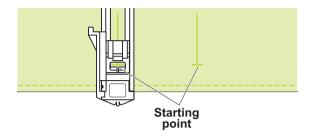
Mark the positions of the buttonhole on the fabric. The maximum buttonhole length is 3cm (1 3/16 inch). (Total of diameter + thickness of button.)



Attach the buttonhole foot, then pull out the button holder plate and insert the button.

The size of the buttonhole is determined by the button inserted in the button plate.

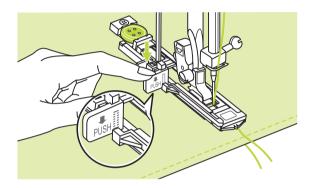
The thread should be passed through the hole in the presser foot, then be placed under the foot.



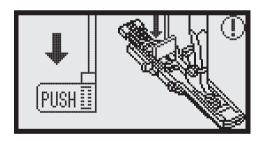
Select the buttonhole stitch.

Adjust the stitch width and the stitch length to the desired width and density.

Position the fabric under the presser foot with the front end of the buttonhole mark aligned with the center line on the buttonhole foot.

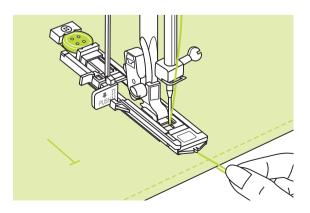


Pull the buttonhole lever all the way down and position it behind the bracket on the buttonhole foot.



#### Please Note:

The buttonhole stitch was selected and the start/stop button was pressed while the buttonhole lever is raised, the LCD will display the warning message to remind you to lower the buttonhole lever.



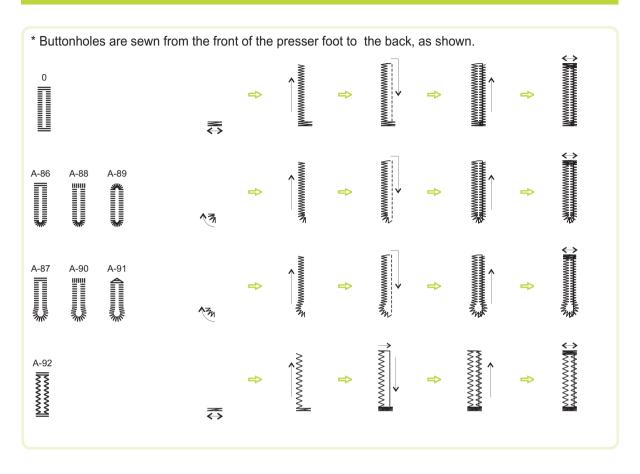
Before sewing, please hold the thread by hand.

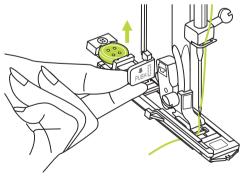


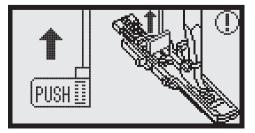
#### Please Note:

Gently feed the fabric by hand.

Before stopping, the machine will automatically sew a reinforcement stitch after the buttonhole is sewn.







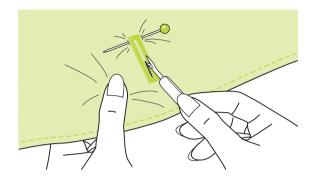
Raise the presser foot and cut thread.

To sew over same buttonhole, raise the presser foot (will return to original position).

After sewing the buttonhole stitch, raise the buttonhole lever until it stops.

#### Please Note:

After finishing, If the stitch other than the buttonhole, bar tack or darning stitch was selected, and the start/stop button was pressed while the buttonhole lever is lowered, the LCD will display a warning message to remind you to raise the buttonhole lever.



Cut the center of the buttonhole : be careful not to cut any stitches on either side. Use a pin as a stopper at the bar tack so you do not cut too much.

#### Please Note:

When cutting the buttonhole with the seam ripper, do not place your hands in the cutting direction, otherwise injuries may occur.

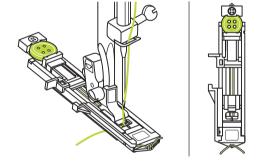


When sewing buttonholes on stretch fabric, hook heavy thread or cord under the buttonhole foot.

Attach the buttonhole foot and hook the gimp thread onto the back of the presser foot.

Bring the two gimp thread ends to the front of the foot and insert them into the grooves, then temporarily tie them there. Lower the presser foot and start sewing.

Set the stitch width to match the diameter of the gimp thread.





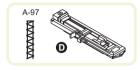
Once sewing is completed, pull the gimp thread gently to remove any slack, then trim off any excess.

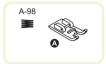
#### Please Note:

It is suggested that you use interfacing on the backside of the fabric.

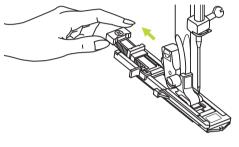
### Bar tack stitch

Bar tack stitch is used to reinforce points subject to strain, such as pocket corners and openings.



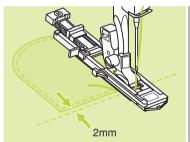


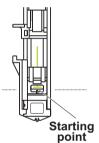




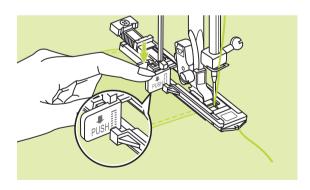
Extend the button holder plate and set to the desire bar tack length.

Adjust the stitch width and stitch length to personalize the stitches.

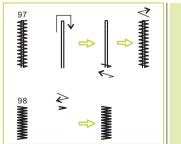




Position the fabric so that the needle is 2mm (1/16 inch) in front of the pocket opening, and then lower the presser foot lever.



Pass the upper thread down through the hole in the presser foot. Pull down the buttonhole lever and position behind the bracket on the buttonhole foot. Gently hold the end of the upper thread in your left hand, and start sewing.





Sewing procedure for bar tack is illustrated. This is an example of sewn bar tacks at pocket corners.

#### **Please Note:**

It is suggested that you use interfacing on the backside of the fabric.



#### Eyelet stitches are used for making belt holes and other similar applications.





A-94: Select for sewing eyelets on belts, etc A-95: Select for sewing eyelets on belts, etc

Press the "-" or "+" stitch width adjustment to

button select the eyelet size.

A. Small: 5.0mm (3/16 inch).

В

C











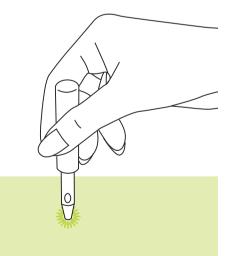


B. Medium: 6.0mm (15/64 inch). C. Large: 7.0mm (1/4 inch).

Size of eyelet.

Lower the needle into the fabric at the beginning of the stitching, and then lower the presser foot lever.

Once sewing is completed, the machine automatically sews reinforcement stitches, then stops.



Make a hole at the center using an eyelet punch.

\* Eyelet punch is not included with the machine.



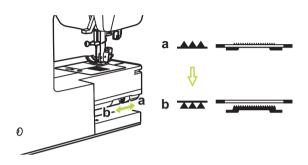
#### **Please Note:**

- When using the eyelet punch, place thick paper or some other protective sheet under the fabric before punching the hole in the fabric.
- If thin thread is used, the stitching may be coarse. If this occurs, sew the eyelet twice one on top of the other.

### Button sewing

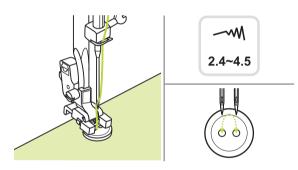






Change the presser foot to the button sewing foot.

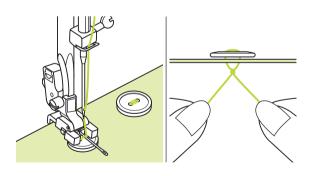
Move the drop feed control to " **TALK** " to lower the feed dogs.



Position the work under the foot. Place the button in the desired position, lower the foot.

Select zigzag pattern. Adjust the stitch width to "2.5-4.5" according to the distance between the two holes of the button.

Turn the hand wheel to check that the needle goes cleanly into the left and right holes of the button.



Before sewing, press the Auto-lock button to sew reinforcement stitches automatically at the beginning and at the end of the stitch.

If a shank is required (ex. sew on coats or jackets), place a darning needle on top of the button and sew.

Pull end of the upper thread to the wrong side of the fabric, then tie it with the bobbin thread.







For buttons with 4 holes, sew through the front two holes first, push work forward and then sew through the back two holes.

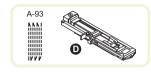


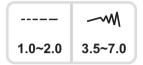
#### Please Note:

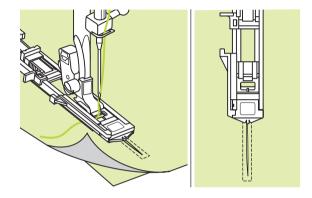
When you finish the work, move the drop feed control to " ••• " to raise the feed dogs.

# Darning stitch

Darning a small hole or a tear before it becomes larger can save a garment. Choose a fine thread in a color as color as close to your garment possible.

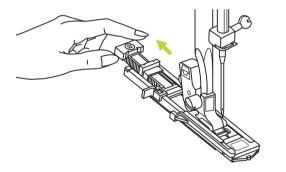






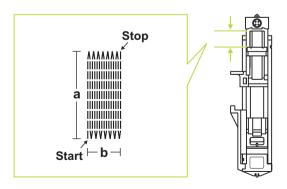
Baste the upper fabric and the under fabric together.

Select the needle position. Lower the presser foot over the center of the tear.



Pull the button holder to rear.

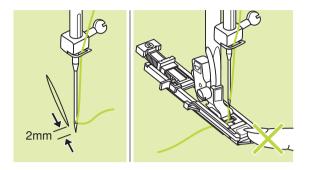
Set the button guide plate on buttonhole foot to the desired length.



The size of one darn cycle is variable.

However, the maximum stitch length is 2.6cm (1 inch) and the maximum stitch width is 7mm (9/32 inch).

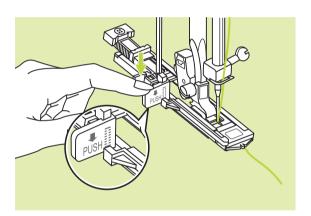
- a. The length of sewing.
- b. The width of sewing.



Position the fabric so that the needle is 2mm (1/16 inch) in front of the area to be darned, and then lower the presser foot lever.

#### Please Note:

When lowering the presser foot, do not push in the front of the presser foot, otherwise the darning will not be sewn with the correct size.



Pass the upper thread down through the hole in the presser foot.

Pull down the buttonhole lever.

The buttonhole lever is positioned behind the bracket on the buttonhole foot.

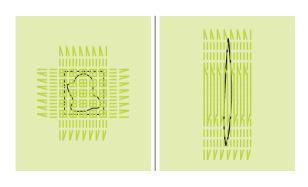
Gently hold the end of the upper thread in your left hand, and then start sewing.



Darning stitches are sewn from the front of the presser foot to the back, as shown.

### Please Note:

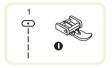
If the fabric does not feed, for example, because it is too thick, increase the stitch length.



If the sewing range is too big to sew, then we suggest you can sew several times (or cross sew) to get better sewing result.

# Zipper Insertion

This foot can be set to sew on each side of the zipper, the edge of the foot guides the zipper to ensure straight placement.



	~M
1.5~3.0	3.5

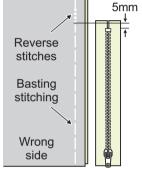
#### A

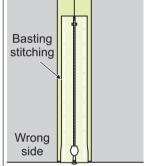
#### Attention:

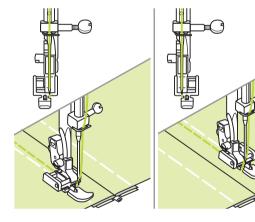
Zipper foot should be used for sewing width center needle position straight stitch only. It is possible that needle could hit the presser foot and break when sewing other patterns.

#### 

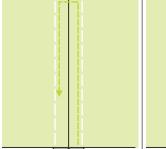
- Baste the zipper opening on the garment.
- Press open the seam allowance.
   Place the zipper face down on the seam allowance with the teeth against the seam line. Baste the zipper tape.

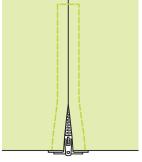






- Attach the zipper foot. Attach the right side of the presser foot pin to the holder when sewing the left side of the zipper.
- Attach the left side of the presser foot pin to the presser foot holder when sewing the right side of the zipper.





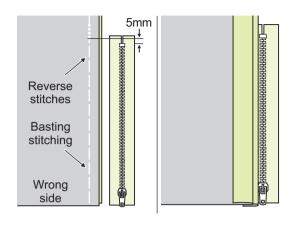
- Stitching around the zipper.

#### Ple

#### Please Note:

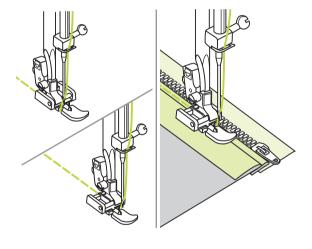
When sewing, be sure that the needle does not touch the zipper, otherwise the needle may bend or break.

- Remove the basting and press.



#### Inserting a side zipper

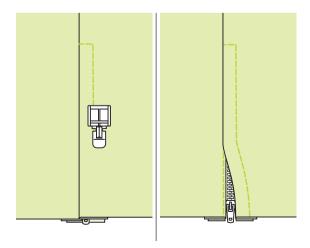
- Baste the zipper opening on the garment.
- Fold back to the left seam allowance.
   Turn under the right seam allowance to form 3mm fold.



 Attach the zipper foot. Attach the right side of the presser foot pin to the holder when sewing the left side of the zipper.
 Attach the left side of the presser foot pin to the presser foot holder when sewing the right

side of the zipper.

- Stitch the left side of zipper from bottom to top.



- Turn the fabric right side out, stitch across the lower end and right side of zipper.
- Stop about 5cm (2 inches) from the top of zipper. Remove the basting and open the zipper. Stitch the remainder of the seam.

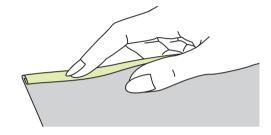
# Narrow hemming

The hemmer foot is used to stitch the narrow rolled hems usually found on shirt tails, table linens and along the edge of frills.

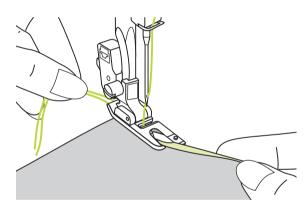




\* The hemmer foot accessory is optional. It is not included with this machine.

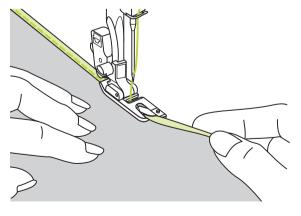


Fold edge of fabric over about 3mm, then fold it over again 3mm for about 5cm along the edge of the fabric.



Insert the needle into the fold by rotating the hand wheel toward you, and lower the presser foot. Sew several stitches and raise the presser foot.

Insert the fabric fold into the spiral opening of hemmer foot. Move fabric back and forth until the fold forms a scroll shape.



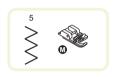
Lower the presser foot and start sewing slowly guiding the raw edge of the fabric in front of the hemmer foot evenly into the scroll of the foot.

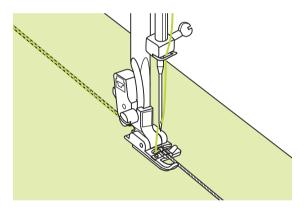


Used for embellishing 1 to 3 cords or decorative threads.

Sew over one strand of cording to create a pretty swirled design on a jacket or vest or 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.

\* The cording foot accessory is optional. It is not included with this machine.



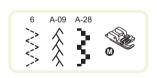


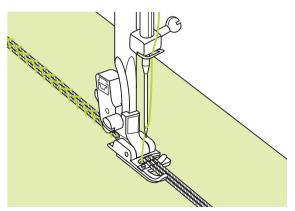
#### Single cording

Mark the design on the fabric. Insert the cord in the center groove of the cording foot from the right side opening. Pull the cord about 5cm (2 inches) behind the foot.

The grooves under the foot will hold the length of the cord in place while the stitches are being form over the cord.

Select the stitch and adjust the stitch width so that the stitches are just covering the cord. Lower the foot and sew slowly, guiding the cord over the design.



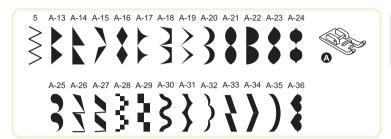


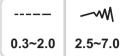
#### **X** Triple cording

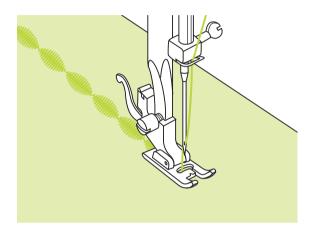
Push the sewing thread to the left and insert three cords into the grooves of the foot and pull about 5cm (2 inches) of the cords behind the foot.

Select the desired pattern and adjust the stitch width so that the stitches are just covering the cords. Lower the foot and sew slowly guiding the cords.

### Satin stitch sewing







Use the satin stitch foot for satin stitching and sewing decorative stitches. This foot has a full indentation on the underside to allowed easy sewing over the thickness of the stitches form by closely spaced zigzag stitches, and even feeding of the fabric.

To tailor the satin or decorative stitch pattern, you may adjust the length and width of the pattern by pressing the stitch length and width adjustment buttons. Experiment with fabric scraps until you get the desired length and width.

### 1

#### Please Note:

When sewing very thin fabrics, it is suggested that you use interfacing on the backside of the fabric.

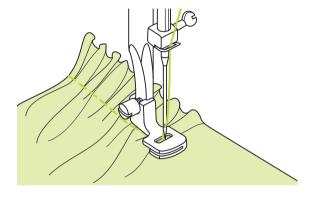


The Gathering Foot is used for gathering fabrics. Ideal for clothing as well as home decor, works best on thin to medium weight fabrics.





\* The Gathering foot accessory is optional. It is not included with this machine.



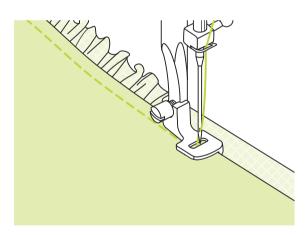
#### **Gathered fabric**

Remove the presser foot holder and attach the gathering foot, lowering the tension setting to below 2.

Place fabric to be gathered under presser foot to the right of the presser foot.

Sew a row of stitching, keeping the raw edge of fabric aligned with the right edge of foot.

The stitches automatically cause the fabric to gather. Suitable for light to medium weight fabrics.

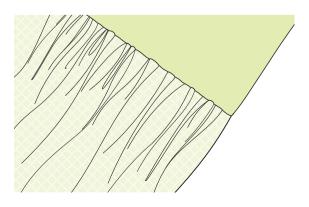


### To gather and attach gathered fabric in one step

Look closely at the gathering foot to see a slot on the bottom.

When using the slot, you can gather the bottom layer of the fabric while attaching it to a flat top layer, such as the waistband on a dress bodice.

- Remove the presser foot holder and attach gathering foot.
- Place the fabric to be gathered with right side up under the foot.
- Place top layer of the fabric right side down in the slot
- Guide the two layers as illustrated.

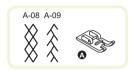


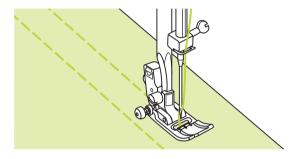
#### Note:

- When testing machine for adjustments to achieve desired fullness, work with 10" increments of the fabric, trims or elastic. This makes it easier to determine the adjustments and how much change is needed for your project. Always test on your project fabric and on the same grainline as will be used in your finished project.
- Sew slow to medium speed for better fabric control.

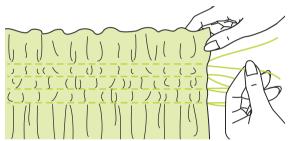
# Smocking

The decorative stitch created by stitching or embroidering over gathers is called "smocking". It is used to decorate the front of blouses or cuffs. The smocking stitch adds texture and elasticity to fabric.



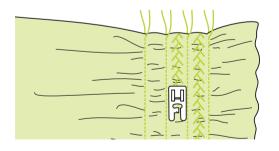


Use the all purpose foot to sew straight lines 1cm (3/8 inch) apart, across the area to be smocked.

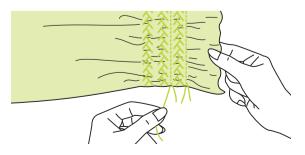


Knot the threads along one edge.

Pull the bobbin threads and distribute the gathers evenly. Secure the threads at the other end.

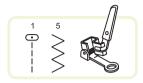


Reduce the tension, if necessary and sew decorative pattern stitches between the straight seams.

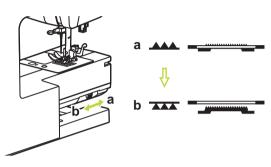


Pull out the gathering stitches.

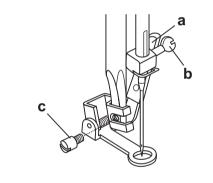
### Free motion darning, embroidery and monogramming



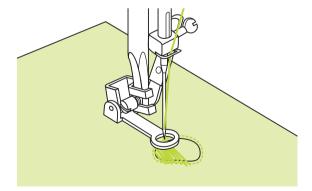




Move the drop feed control to " \*\* " to lower the feed dogs.



Remove the presser foot holder, and attach the embroidery foot to the presser foot holder bar. Press the embroidery foot on firmly from behind with your index finger and tighten the screw.



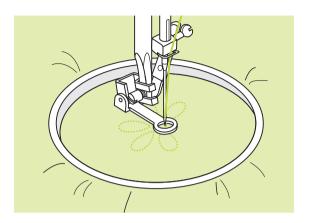
#### **M** Darning

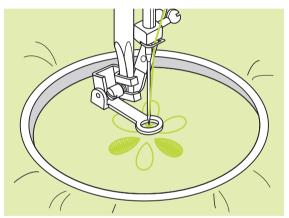
First sew around the edges of the hole (to secure the threads). Working from left to right, sew over the hole in a constant and continuous movement.

Turn the work by 1/4 and sew over the first stitching moving the work slower over the hole to separate the threads and not form big gaps between the threads.

#### Please Note:

Free motion darning is accomplished without the sewing machine internal feed system. Movement of the fabric is controlled by the operator. It is necessary to coordinate sewing speed and movement of fabric.





#### **Embroidery**

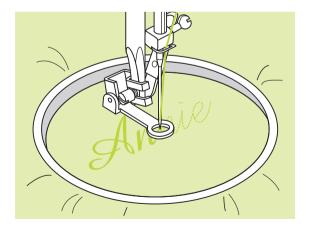
Select zigzag stitch pattern and adjust the stitch width as desired.

Stitch along the outline of the design by moving the embroidery hoop. Make sure to maintain a constant speed.

Fill in the design working from the outline towards the inside. Keep the stitches close together.

You will get longer stitches by moving the hoop faster and shorter stitches by moving the hoop more slowly.

Secure with a reinforcement stitches at the end by press Auto-lock button.



#### Monogramming

Select the zigzag stitch pattern and adjust the stitch width as desired. Sew at a constant speed, moving the hoop slowly along the lettering.

When the letter is finished. Secure with a reinforcement stitches at the end by press Auto-lock button.

Embroider hoop is not included with the machine.

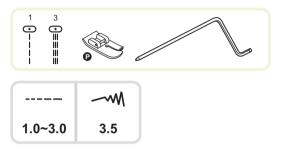


Please Note:

When you finish the work, move the drop feed control to " \_\_\_\_ " to raise the feed dogs.

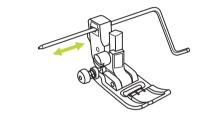


Sandwiching batting between the top and bottom layers of fabric is call "Quilting". The top layer is usually formed by multiple geometrically shaped pieces of materials joined together.

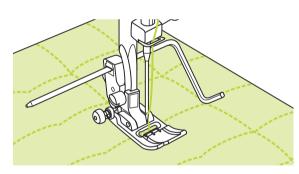


#### Mattaching the edge/ quilting guide

\* The Quilting foot accessory is optional. It is not included with this machine.



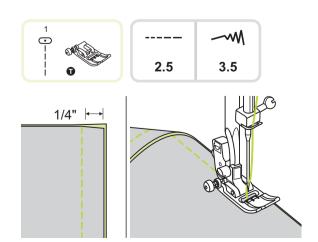
Insert the edge/quilting guide in the presser foot holder as illustrated and set the space as you desire.



Sew the first row and move over the fabric to sew successive rows with the guide riding along the previous row of stitching.

#### Note:

When using the quilting foot, only use center needle position stitches to prevent machine damage.

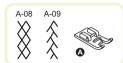


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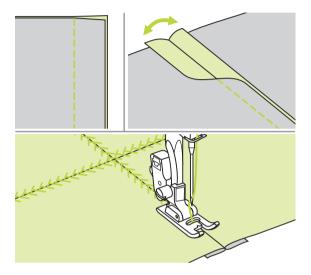
Place the two pieces of fabric with the right side together and sew with the straight stitch. Join the pieces of fabric with a seam allowance of 1/4".

Sew with the side of the presser foot aligned with the edge of the fabric.





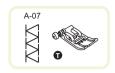
#### M Patchwork stitching



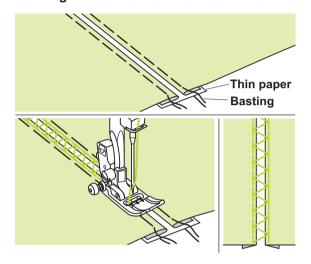
Open the seam allowances and presses it flat.

Place the center of the presser foot on the seam line of the joined pieces of fabric and sew over the seam.





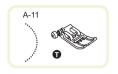
Stitching across an open seam is called "fagoting". It is used on blouses and children's clothing. This stitch is more decorative when thicker thread is used.

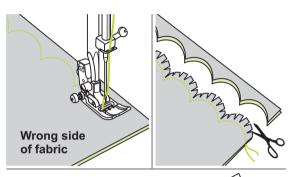


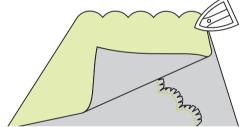
- Separate the folded edges of the fabric pieces with a gap of 4mm (1/8 inch) and baste them onto a piece of thin paper or water-soluble stabilizer sheet.
- Align the center of the presser foot with the center of the two pieces of fabric and begin sewing.
- After sewing, remove the paper.

# Scalloping

The wave-shaped repeating pattern that looks like shells is called "scalloping". It is used on the collars of blouses and to decorate the edges of projects.





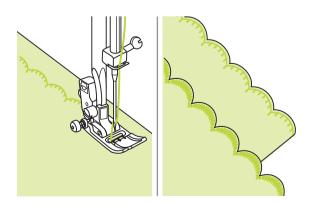


#### 

- Fold the fabric right side together in and sew along the edge.
- Cut the fabric along the seam leaving an allowance of 3mm (1/8 inch) for seaming. Notch the allowance.
- Turn the fabric over and push out the curved seam to the surface and iron it.



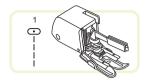




### ■ Scallop edging

- Stitch along the edge of the fabric, marking sure not to sew directly on the edge of the fabric.
  - \* For better results, apply spray starch onto the fabric and press with a hot iron before it is sewn.
- Trim along the stitches.
  - \* Be careful not to cut the stitches.



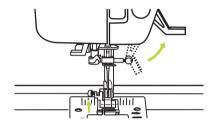


\* The walking foot accessory is optional. It is not included with this machine.

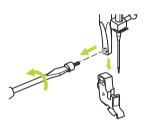
### Always try to sew first without the walking foot accessory which should be used only when necessary.

It is easier to guide the fabric and you have a better view of the seam when using the standard, regular foot on your machine. Your sewing machine offers excellent stitch quality on a wide range of fabrics from delicate chiffons to multiple layers of denim.

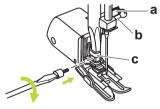
The Walking Foot accessory equalizes the feeding of the upper and lower layers of fabric and improves the matching of plaids, stripes and patterns. It also helps to prevent uneven feeding of very difficult fabrics.



Lift the presser foot lifter to raise the presser foot bar.

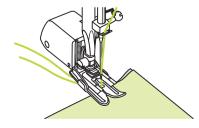


Remove the presser foot holder by unscrewing (counterclockwise) the presser bar attaching screw.



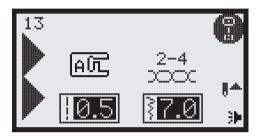
Attach the Walking Foot to the machine as follows:

- The arm (a) should fit into above the needle screw and clamp (b).
- Slide the plastic attaching head (c) from your left to right so that it is fitted into the presser foot bar.
- Lower the presser foot bar.
- Replace and tighten (clockwise) the presser bar attaching screw.
- Make sure both the needle screw and the presser bar attaching screw are tightly secured.



Draw the bobbin thread up and place both the bobbin thread and the needle thread behind the walking foot attachment.





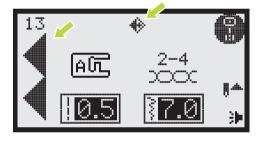


- Direct Patterns 0 and Patterns 86-98 from Group Pattern "A" cannot be mirror imaged.
- Mirror imaged patterns can also be combined with other patterns.

Select the stitch.

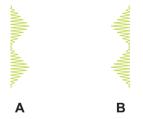
Pressing the mirror button .





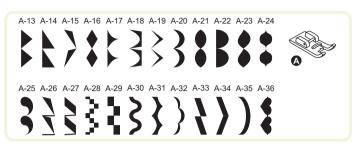
The LCD screen icon for mirror imaging of the pattern appears.

The machine will continue to sew the reflected pattern until the mirror button is pressed again or the pattern is changed.

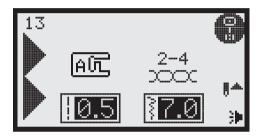


- A. Normal pattern sewing.
- B. Mirror pattern sewing.

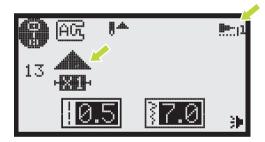
# Elongation







The stitch can be elongated up to five times its normal length by pressing the elongation button .



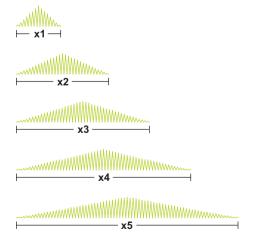
Press the elongation button.

The symbol for elongation appears on the LCD display.

Press the elongation button several times to adjust the elongation as desired.

The machine will continue to sew the displayed pattern until the elongation button is pressed again or the pattern is changed.

When the width or length or stitch is changed, a greater variety of patterns are available.



#### Please Note:

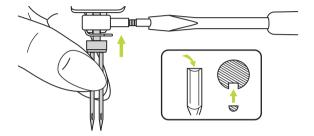
A Group Patterns 13-36 can be elongated and mirrored simultaneously.

### Using the twin needle





\* The twin needle is optional. It is not include with the accessories.



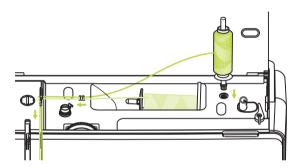
Insert the twin needle.



#### Attention:

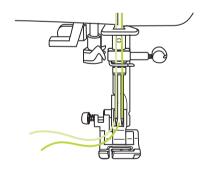
When using twin needles, use the all purpose foot (T) regardless of what kind of sewing foot will be carried out.

Use only twin needle assemblies with max. 2mm needle distance.



Follow the instructions for single-needle threading using the horizontal spool pin. Thread through the left needle.

Set the second spool pin into the hole on the top of the machine. Thread through remaining points, making certain to omit the thread guide above the needle and pass thread through the right needle.

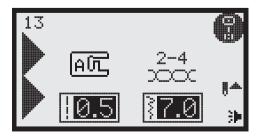


Thread each needle separately.



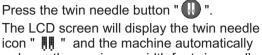
#### Please Note:

Make sure that the two threads used to thread the twin needle are of the same weight. You can use one or two colors.



Select a stitch pattern. (e.g. A group pattern 13) Except the Direct Pattern 0 and Patterns 86-98 from Group Pattern "A", the other patterns can be used.





icon " ## " and the machine automatically reduces the maximum width for twin needle sewing by 2mm.

Two lines of stitching are sewn parallel to each other.

#### Please Note:

- When sewing with twin needle, always proceed slowly, and make sure to maintain a low speed to insure quality stitching.
- When double needle sewing has been selected, it will remain active even the stitch pattern is changed. To deactivate double needle sewing press the double needle button again.



Combined patterns can be stored for later use. Since stored patterns are not lost after the sewing machine is turned off, they can be recalled at any time. This is convenient for patterns, such as names, that will be used often.

#### Please Note:

- Multiple patterns selecting from pattern groups ( ) , ( ) , ( ) can be combined together.
- Direct Patterns 0 and Patterns 86-98 from Group Pattern "A" cannot be entered into memory.
- This machine has 4 modules of program memory and each module can retain 20 units of stitches.
- All the units in the memory can be edited to set its function such as Stitch length, Stitch width, Elongation, Mirror, and Auto-lock.

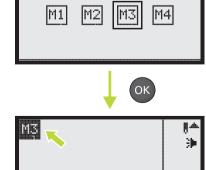
# 

#### Combining patterns

To store the combination of characters or decorative stitches.

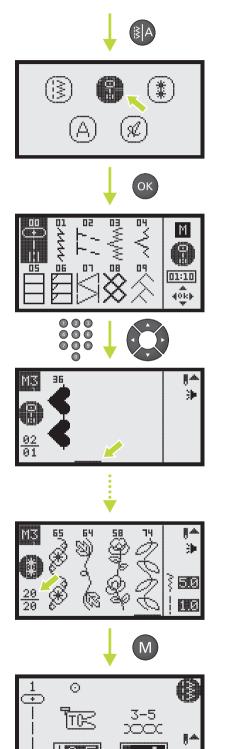
 Press the memory button to enter the memory mode.
 If you want to leave the memory module screen, press the clear/ return button to return the normal screen.

2. Use the arrow buttons to select the number of the memory module. (For example: M3)



3. Press the OK button, The memory screen is entered automatically and the flashing cursor is in position for the first pattern to be entered.

Upper left corner of LCD screen shows the number of the memory module.



4. Press the pattern group selection button to enter the pattern group selection display.

Select the desired pattern group.

(E.g. For pattern group "A")

5. Press the OK button to into pattern browser, the display containing the various stitches in the selected pattern group appears.

6. Press the desired pattern number or the arrow buttons to select desired pattern. (For example: A group pattern 36) The selected pattern displays on the LCD display and the cursor moves to the next position.

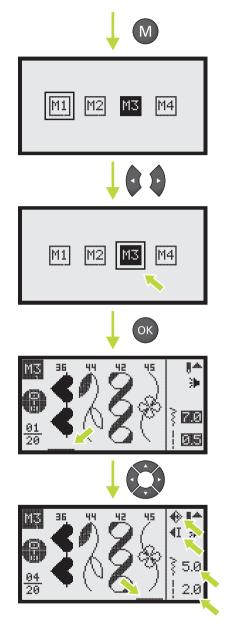
7. Repeat step 4~6 for more patterns to be stored in the memory. When 20 patterns have been selected, the memory will be full. If another pattern is selected after the memory is full the machine will beep to prompt it.

8. Press the memory button to leave the memory mode and return to the normal mode.



#### Attention:

The selected pattern will be cleared from the memory module after closing the machine if you do not press the memory button again when you have completed your selection.



### 

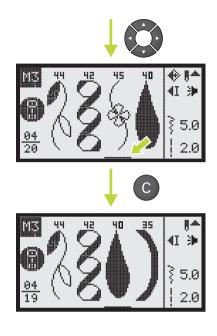
1. Press the memory button to enter the memory mode.

2. Use the arrow buttons to select the number of the memory module. (For example: M3)

3. Press the OK button, the LCD screen containing the various types of stitches will open and the cursor stay in 1st position.

4. Use the arrow buttons to select the pattern that you wish to edit while in the memory mode.

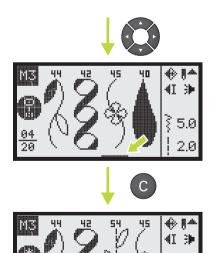
The stitch length, stitch width, Elongation, Mirror imaging and Auto-lock of the patterns can be adjusted.



#### **K** Clearing patterns

1. Use the arrow buttons to move the cursor to the pattern that you want to delete.

2. Press the clear/ return button to delete the selected pattern and all patterns in the back will be moved one memory position forward.

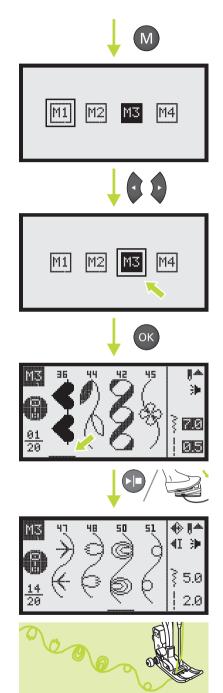


5.0

#### Madding patterns

1. Use the arrow buttons to move the cursor to the pattern that you want to delete.

 Press the desired pattern number or the arrow buttons to select desired pattern. (E.g. B group pattern 54)
 All patterns in the back will be moved one memory position backward.



#### ☑ Recalling and sewing the memorized pattern

1. Press the memory button to enter the memory mode.

2. Use the arrow buttons to select the number of the memory module. (For example: M3)

3. Press the OK button, the LCD screen containing the various types of stitches will open.

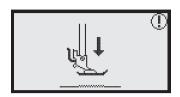
4. Press the start/stop button or step on the foot controller to start the sewing.

The cursor on the LCD screen will move along with the sequential pattern while sewing.

#### Please Note:

- If the cursor stays in a vacant position in the end, the machine will start sewing from the first pattern.
- If the cursor stays under a specific pattern, the machine will start sewing from that pattern.
- 5. Press the memory button to leave the memory mode and return to the normal mode.

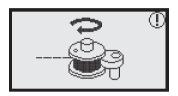
# Warning functions



#### Warning message

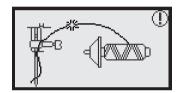
#### Presser foot is not ready for sewing

This message is displayed when the Start/stop button or the needle up/down position button is pressed while the presser foot is raised.



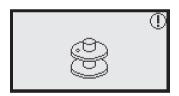
#### **Bobbin winding**

This message is displayed when the bobbin winder is winding the bobbin.



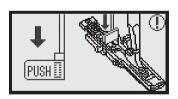
#### The upper thread is broken

This message is displayed when the upper thread is broken. Please check and rethread the upper thread.



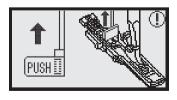
#### Bobbin thread is low

This message is displayed when the bobbin thread is running out.



#### BH lever is not lowered

This message is displayed when the buttonhole or darning stitch was selected and the start/stop button was pressed while the buttonhole lever is raised.



#### BH lever is not lifted

This message is displayed when the stitch other than the buttonhole or darning stitch was selected and the start/stop button was pressed while the buttonhole lever is down.



#### The sewing machine is in trouble

The animation message means that the thread is twisted or jammed and the hand wheel axle cannot move.

Please look through the "Trouble shooting guide" to find the solution. After the problem has been solved, the machine will continue to sew.



#### **Warning sound**

- When operating correctly: 1 beep
- When the memory is full with 20 units of pattern: 3-short beeps
- When operating incorrectly: 3-short beeps
- When the sewing machine is in trouble and can't sew: 3-short beeps

It means that the thread is twisted or jammed and the hand wheel axle can't move. Please look through the "Trouble shooting guide" to find the solution. After the problem has been solved, the machine will continue to sew.



#### Please Note:

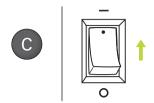
If the problem is still not solved, please contact your local dealer.



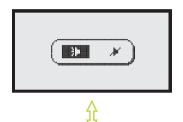
#### Attention:

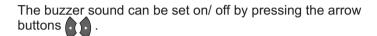
During the sewing, if the thread get jammed inside the hook stopping the needle from moving and you continue pressing the foot control, the security switch will stop the machine completely. In order to restart the sewing machine, you will have to turn the on/off switch to the OFF position and then ON again.

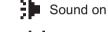




Hold on the C button and turn on the power switch.

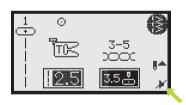












Pressing the OK button OK.

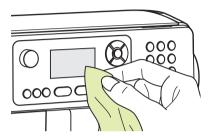
The Buzzer sound setting mark will appear on the LCD screen when you have set it.





#### Attention:

Disconnect the power cord from the wall socket before cleaning the screen and sewing machine surface, otherwise injury or electrical shock may result.



#### Cleaning the screen

If the front panel is dirty, wipe it gently with a soft, dry cloth. Do not use any organic solvents or detergents.

#### **☒** Cleaning the sewing machine surface

If the surface of the sewing machine is dirty, lightly soak a cloth in mild detergent, squeeze it out firmly and then wipe the surface. After cleaning it once in this way, wipe the surface again with a dry cloth.



#### Attention:

This machine is equipped with a 100mW LED lamp. If lamp replacement is needed, please contact nearest authorized retailer.

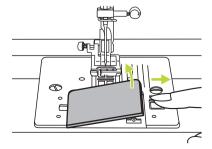
#### 

If lint and bits of thread accumulate in the hook, this will interfere with the smooth operation of the machine. Check regularly and clean the stitching mechanism when necessary.

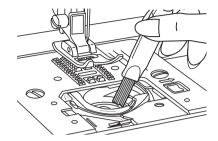


#### Attention:

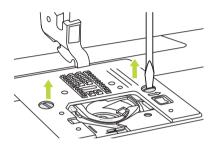
Disconnect the machine from the wall outlet before carrying out any maintenance.



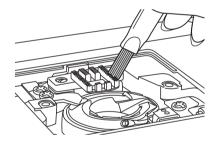
Remove the needle plate cover and bobbin.



Clean the bobbin holder with a brush.



Remove the needle, presser foot and presser foot holder. Remove the screw holding the needle plate and remove the needle plate.



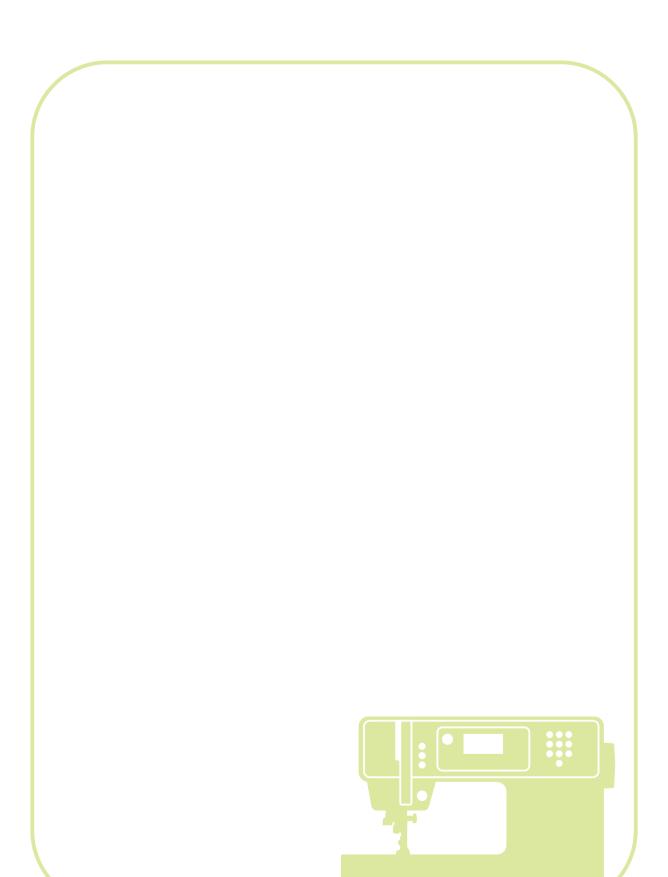
Clean the feed dog and bobbin case with a brush. Also clean them, using a soft, dry cloth.

### Trouble shooting guide

Before calling for service, check the following items. If the problem still persists, contact the place of purchase or your nearest authorized dealer.

Problem	Cause	Correction	Reference
Upper thread breaks	1. The machine is not threaded correctly.	1. Rethread the machine.	12
	2. The thread tension is too tight.	2. Reduce the thread tension (lower number).	32
	3. The thread is too thick for the needle.	3. Select a larger needle.	17
	4. The needle is not inserted correctly.	Remove and reinsert the needle (flat side towards the back).	16
	5. The thread is wound around the spool holder pin.	5. Remove the reel and wind thread onto reel.	12
	6. The needle is damaged.	6. Replace the needle.	16
Lower thread breaks	1. The bobbin case is not inserted correctly.	Remove and reinsert the bobbin case and pull on the thread. The thread should pull easily.	11
	2. The bobbin case is threaded wrong.	2. Check both bobbin and bobbin case.	11
Skipped	1. The needle is not inserted correctly.	Remove and reinsert needle (flat side towards the back).	16
	2. The needle is damaged.	2. Insert a new needle.	16
stitches	3. The wrong size needle has been used.	3. Choose a needle to suit the thread.	17
	4. The foot is not attached correctly.	4. Check and attach correctly.	-
	5. The machine is not threaded correctly.	5. Rethread the machine.	12
	1. The needle is damaged.	1. Insert a new needle.	16
	2. The needle is not correctly inserted.	Insert the needle correctly (flat side towards the back).	16
	3. Wrong needle size for the fabric.	3. Choose a needle to suit the thread and fabric.	17
Needle	4. The wrong foot is attached.	4. Select the correct foot.	-
breaks	5. The needle clamp screw is loose.	5. Use the screwdriver to firmly tighten the screw.	16
	6. The presser foot that is used is not appropriate for the type of stitch that you wish to sew.	6. Attach the presser foot that is appropriate for the type of stitch that you wish to sew.	-
	7. The upper thread tension is too tight.	7. Loosen the upper thread tension.	32
Loose stitches	1. The machine is not correctly threaded.	1. Check the threading.	12
	2. The bobbin case is not correctly	2. Thread the bobbin case as illustrated.	11
	Needle/ fabric/ thread combination is wrong.	3. The needle size must suit the fabric and thread.	17
	4. Thread tension is wrong.	4. Correct the thread tension.	32

Problem	Cause	Correction	Reference
Seam gather or pucker	1. The needle is too thick for the fabric.	1. Select a finer needle.	17
	2. The stitch length is adjusted wrong.	2. Readjust the stitch length.	28
	3. The thread tension is too tight.	3. Loosen the thread tension.	32
Seam puckering	1. The needle thread tension is too tight.	1. Lossen the thread tension.	32
	The needle thread is not threaded correctly.	2. Rethread the machine.	12
	3. The needle is too heavy for the fabric being sewn.	3. Choose a needle to suit the thread and fabric.	17
	4. The stitch length is too long for the fabric.	4. Make stitch dense.	30
	5. If you are sewing thin fabric.	5. Sew with stabiliser material under the fabric.	17
Patterns are distorted	1. The correct presser foot is not used.	1. Select the correct foot.	-
	2. The needle thread tension is too tight.	2. Loosen the thread tension .	32
The	1. Thread is caught in the hook.	Remove the upper thread and bobbin case, turn the hand wheel backwards and forwards by hand and remove the thread remands.	76
machine jams	2. The feed dogs are packed with lint.		76
	Fluff or oil have collected on the hook or needle bar.	1. Clean the hook and feed dog as described.	76
The	2. The needle is damaged.	2. Replace the needle.	16
machine is noisy	Slight humming sound coming from internal motor.	3. Normal.	-
	4. Thread is caught in the hook.	Remove the upper thread and bobbin case, turn the hand wheel backwards and forwards by hand and remove the thread remands.	76
	5. The feed dogs are packed with lint.		
	1. Poor quality thread.	Select a better quality thread.	17
Uneven stitches, uneven feed	2. The bobbin case is threaded wrong.	Remove the bobbin case, the thread and reinsert correctly.	11
	3. Fabric has been pulled.	Do not pull on the fabric while sewing, let it be taken up by the machine.	9
The sowing	1. The machine is not turned on.	1. Turn on the machine.	8
The sewing machine doesn't operate	2. The presser foot lifter is raised.	2. Lower the presser foot lifter.	20
	3. The machine is not plugged in.	Connect the power line plug to the electric outlet.	8





Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new once, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.