## User's Guide

Rose 605



This houshold sewing machine is designed to comply with IEC/EN 60335-2-28 and UL1594

# MPORTANT SAFETY INSTRUCTIONS

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

Read all instructions before using this household sewing machine

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

- A sewing machine should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before

# Always unplug before relamping. Replace bulb with same type rated 5 Watt. YARNING - To reduce the risk of burns, fire, electric

## shock, or injury to persons:

- Do not allow to be used as a toy. Close attention is necessary when this sewing machine is used by or near children or infirm persons.
- only attachments recommended by the manufacturer as contained in this manual. Use this sewing machine only for its intended use as described in this manual. Use
- Never operate this sewing machine if it has a damaged cord or plug, if it is not examination, repair, electrical or mechanical adjustment. the sewing machine to the nearest authorised dealer or service center for working properly, if it has been dropped or damaged, or dropped into water. Return
- Never operate the sewing machine with any air openings blocked. Keep ventilation lint, dust, and loose cloth. openings of the Sewing machine and foot controller free from the accumulation of
- Keep fingers away from all moving parts. Special care is required around the Sewing machine needle
- Always use the proper needle plate. The wrong plate can cause the needle to break
- Do not use bent needles.
- Do not pull or push fabric while stitching. It may deflect the needle causing it to break
- Switch the sewing machine off ("0") when making any adjustment in the needle presser foot, etc. area, such as threading needle, changing needle, threading bobbin, or changing
- Always unplug the sewing machine from the electrical outlet when removing covers, instruction manual. lubricating, or when making any other user servicing adjustments mentioned in the
- Never drop or insert any object into any opening
- Do not use outdoors.
- being administrated. Do not operate where aerosol (spray) products are being used or where oxygen is
- To disconnect, turn all controls to the off ("0") position, then remove plug from outlet
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord
- Hold plug when rewinding into cord reel. Do not allow plug to whip when rewinding.

# **AVETHESE INSTRUCTIONS**

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#### Summary



- Door
- Thread take-up lever
- Presser foot pressure dial
- Thread guide
- Buttonhole sensor socket
- 0. Light
- Needle bar
- 9. Free arm Presser foot
- 10. Bobbin cover
- 11. Base plate
- 12. Drop feed dial
- 13. Needle plate
- Presser bar and Presser foot ankle
- 15. Needle clamp screw
- 16. Thread tension discs
- Thread tension dial
- Thread guide for bobbin winding

- 19. Spool pin
- 20. Spool holders
- 21. Recess for additional spool pin
- 22. Quick-info
- 23. Thread cutter for bobbin winding
- 24. Handwheel
- 25. Bobbin spindle, Bobbin stop
- 26. Infodisplay
- 27. Function selectors
- 28. Function selectors Embroidery
- 29. Stitch selectors
- 30. Embroidery card socket
- Main power switch,

Connection to power supply

#### Summary

Machine parts



- 32. Handle
- 33. Presser foot lever
- 34. Thread cutter
- 35. Embroidery unit socket

- 36. Embroidery arm37. Embroidery Hoop attachment
- 38. Embroidery unit socket
- 39. Release button



#### Unpacking

- **1.** Place the machine on the table or cabinet, remove the packaging and lift off the cover.
- 2. Remove the side parts of the packing material, the extension table, the foot control and finally the protection cover.
- 3. The machine is delivered with an accessory bag, a main cord and a foot control cord.
- 4. Wipe the machine, particularly around the needle and needle plate to remove any soil before sewing.



## Packing away after sewing

- **1.** Unplug the cords from the wall socket and the machine.
- 2. Wind the cords around your hand and place the foot control cord in the foot control storage space and the main cord in the pocket of the cover. There is also space provided for the operating manual. Remove the embroidery card and the embroidery unit. Replace the cover protecting the socket on the machine.
- 3. Check to ensure that all accessories are in the accessory tray. Slide it onto the machine behind the free arm.
- **4.** Lower the presser foot.
- 5. Place the foot control, underside toward you, on the accessory tray at the back of the machine, where also the extension table is placed.



Make sure the extension table is fitted into the right part of the accessory tray and fold the table toward the machine. Fold down the handle and replace the cover.

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## Connecting the foot control

Among the accessories you will find the foot control cord and the main cord.

- Place the foot control on its narrow side. Fit the plug into the socket inside the foot control compartment.
- 2. Push it firmly to make sure it is properly connected. This operation is only necessary the very first time you are going to use the machine.
- **3.** To correctly turn away the cord, place it into the slot, see picture

Note: Before plugging in, check to ensure that the foot control is of "type FR2/FR4".





# Connecting to the power supply

the machine. machine to ensure that this agrees with the main supply before you connect supply (V) and the frequency (Hz). Check the power supply setting in the On the underside of the machine you will find information about the power

- **1.** Connect the foot control cord to the first socket on the bottom right side of the machine.
- **2.** Connect the main cord to the back socket on the bottom right side of the machine.
- 3. When you press the power switch, both the machine and the light are switched on.



### For the USA and Canada

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

Instruction book Rose

#### Accessory box

- **1.** Open the Accessory box by placing your finger in the space on the top and lift upward.
- 2. In the Accessory box there is a special tray for presser feet and bobbins plus space for other accessories.
- **3.** Store the presser feet and the bobbins in the tray from the beginning so they are always easily accessible (refer to the figure).



## **Extended sewing surface**

- **1.** Keep the Accessory Tray on the machine to provide a larger flat work surface.
- **2.** Slide the Accessory Tray to the left when you wish to remove it and use the free arm.
- **3.** To facilitate sewing trouser legs and sleeve hems use the free arm.
- **4.** To replace the Accessory Tray, slide it tight onto the machine.



- 5. The extension table provides an even larger work surface. To attach the extension table, place the rear, right corner to the Accessory Tray and the front, right hook onto the recess on the free arm.
- **6.** To remove it, push slightly in the direction of the arrow at the front right corner, then lift the hook out of the free arm.



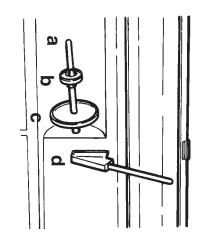
 $\infty$ 

#### Spool pin

The machine has spool pins suitable for all types of thread. The main spool pin (a) is horizontal - the thread reels off the stationary spool. Place the spool so that the thread reels counter-clockwise.

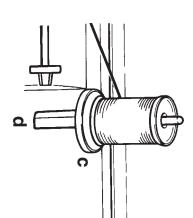
There are two spool holders on the spool pin. With narrow thread spools, the small holder (b) is placed in front of the thread. If you use large thread spools, the large holder (c) is placed in front of the thread.

Slide the correct size spool holder in place so the flat side is pressed firmly against the spool. No space between spool holder and spool.



There is also a separate spool pin (d) to be attached onto the machine. The fingers on the extra spool pin fit into the two holes to the right of the fixed spool pin. Push downward to snap in place.

The large spool holder (c) is placed under the thread. This spool pin is used when winding a bobbin from a second spool of thread or for a second spool when sewing with a twin needle.



## Threading the upper thread

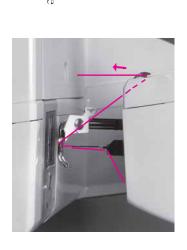
Switch off the main switch.

Make sure the presser foot is raised and the needle is in the up position

- Place the thread on the spool pin and the spool holder on the spool pin as described. Push the spool pin as
- 2. Bring the thread in the direction of the arrow under the thread guide (a) and over the thread guide (b).

back in.

- **3.** Bring the thread down between the thread tension discs.
- **4.** Continue threading by drawing the thread from the right into the slot on the take-up lever.
- 5. Thread last guide just above needle.
- **6.** The needle is threaded from front to back. The white on the presser foot ankle makes it easy to see the eye of the needle.



7. Place thread under the presser foot and into the thread knife where it is cut.

#### **Upper thread warning**

If the upper thread breaks or if thread spool runs out, the machine stops and gives a signal. The symbol

If thread breaks: Re-thread the machine. The symbol goes out. If thread spool runs out: Remove your work and the bobbin. Re-thread the machine. Replace the bobbin and restart.

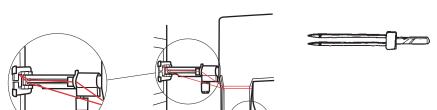
## Threading for twin needle



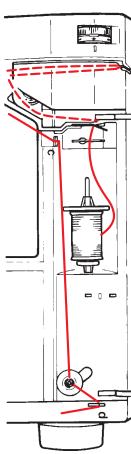
Switch off the main switch.

- 1. Insert a twin needle.
- 2. Wind a bobbin with the thread you are going to use as the second upper thread
- 3. Thread the machine as described and check to ensure that the thread lies between the inner thread tension discs, outside the lowest thread guide. Thread left needle.
- **4.** Attach the extra spool pin onto the machine. Place a spool holder under the thread.
- Place the bobbin with the second thread on the spool pin.
   Thread the machine as before but this thread should lie between the outer thread tension discs, outside the lowest thread guide. Thread

right needle.



# **B**obbin winding with the machine threaded



Make sure that the presser foot is up and the needle is in the highest position.

## Note! Do not use a plastic presser foot when bobbin winding.

- 1. Place your empty bobbin with the small mark (a) outwards on the bobbin spindle on the front of the machine.
- 2. Pull the thread from the needle under the presser foot and to the right over the thread guide (c).
- **3.** Start from above and wind a few turns of thread around the bobbin. Cut off the thread on the thread knife (d).

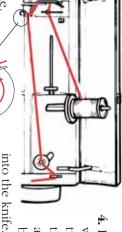
4. Bring the bobbin spindle down. Press the foot control. When the bobbin winding is finished, the bobbin will stop automatically. Remove the bobbin, cut off the thread and bring the bobbin spindle up.

Note! We do not recommend winding specialty threads such as clear nylon or other stretchy threads through the needle. Instead see "Bobbin winding - vertical spool pin" below.

# Bobbin winding - vertical spool pin

- empty bobbin with the mark on the bobbin spindle on the
- front of the machine.

  2. Place the large spool holder under the thread on the spool pin.
- **3.** Bring the thread under the thread guide (a) and over thread guide (b),then **around** thread guide (c) as illustrated.

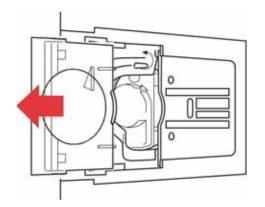


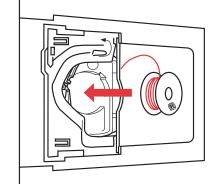
4. From above wind a few turns of thread around the bobbin and

**5.** Bring the bobbin spindle down. Press the foot control. When the bobbin winding is finished, the bobbin will stop omatically. Remove the bob-

automatically. Remove the bobbin, cut off the thread and bring the bobbin spindle up.

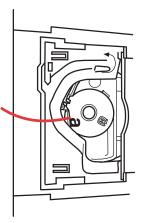
# Placing the bobbin in the machine



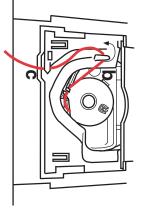


- Switch off the main switch.
- **1.** Open the cover by slightly pulling it towards you and take it away.

2. Place the bobbin in the bobbin case with the mark facing upward and the thread to the left of the bobbin. The bobbin will then rotate counter clockwise while drawing out the thread.



**3.** Hold the bobbin and draw the thread to the right passing (a).



4. Hold the thread tight and draw it to the left so that the thread falls correctly into the tension spring. Continue threading around (b) and to the right of the thread knife (c).

Replace the cover and slide it into position. Then pull the thread to the left to cut it.

#### Thread tension

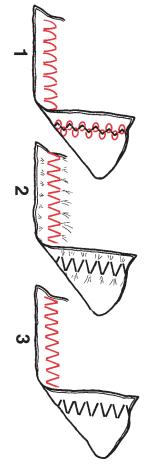
sion is reduced decorative stitches the thread ten-When selecting buttonholes and Normal thread tension is 4. until the machine is turned off. affects all stitches and will remain increase the tension. The adjustment and using the button (+) you button (-) you decrease the tension tension by pressing the buttons indicator being reset. shown by the thread tension stitch or an embroidery. This is automatically when you select a You can also adjust the thread The thread tension is adjusted



When topstitching with a coarse thread in thick fabric, increase the tension to 7-9.

When the machine is turned on, the tension is set to normal automatically.

# Correct and incorrect thread tension



To understand the correct thread tension, sew a few sample stitches at different settings.

- 1. Begin with a tension that is too loose, i.e. set at "1". The lower thread will lie straight and the upper thread will be drawn down on the underside.
- **2.** If you set the tension at the highest number, the opposite will occur, and the seam may pucker.
- 3. The correct thread tension is provided when the threads interlock in the middle of both layers of material or, in the case of decorative stitches, on the underside.

Make a few tests on a scrap piece of the material you are going to sew and check the tension.

## Presser foot pressure

The presser foot pressure is adjusted with the dial on the front of the machine. Normal setting is 4. The higher the number the more pressure on the fabric. Knit and Soft fabrics should be sewn at low pressure.



### **Presser foot lever**

The presser foot is raised and lowered with the presser foot lever. The presser foot must be lowered when sewing. The machine will not start if the presser foot is in the raised position.

By raising the presser foot lever as far as it goes and holding it there, the lift height of the presser foot can be increased by several millimeters.

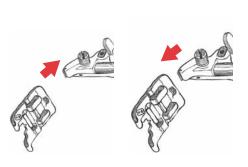


## Changing the presser foot



Switch off the main switch.

- 1. Make sure that the needle is in the highest position. Pull the presser foot down and towards you.
- 2. Line up the cross pin on the foot between the spring and the presser foot ankle. Press back until the foot snaps into place.



## Changing the needle



Switch off the main switch.

- **1.** Loosen the screw in the needle clamp.
- **2.** Remove the needle.
- **3.** Push up the new needle with the flat side away from you until it will go no further.
- Always use needles of system 130/705H.

4. Tighten the screw properly.



## Lowering the feed teeth

The feed teeth are lowered when you turn the dial to the left to \_\_\_\_\_.

Turn the dial to the right to \_\_\_\_ if you wish to raise the feed teeth. The feed teeth will not come up until you begin to sew.

The feed teeth are lowered when sewing buttons and for free-hand work.

By lowering the feed teeth it is easier to get thick garments under the presser foot. Do not forget to raise the feed teeth before starting to sew.

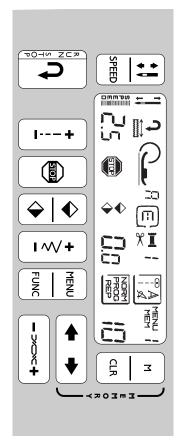


**Note:** The feed teeth are lowered automatically when the embroidery unit is put in place.

When removing the embroidery

When removing the embroidery unit, the feed teeth will raise as you start to sew.

## Functions / Infodisplay



#### Needle stop

downward, the machine will stop up position. When you touch the upwards - the needle will stop in the stopping, lightly tap the foot control stop position with the foot control. button so that the arrow points stop sewing. Point the arrow To raise or lower the needle after You can also regulate the needle with the needle in the material. your foot from the foot control and used. only the up position can be When sewing embroideries the material when you lift needle stops up or down in This button sets whether the

#### Sewing speed

Use the **SPEED** button to set speeds the three different maximum speeds. The machine will sew at different maximum speeds when the foot control is fully depressed. For slower speeds within the range simply press the foot control less.

When Embroidery position is set, only the slowest speed can be selected.

All stitches in the machine have a pre-set maximum speed at which they can be sewn. When you select a stitch the machine automatically sets the correct maximum speed.

#### High speed Reduced speed Slow speed

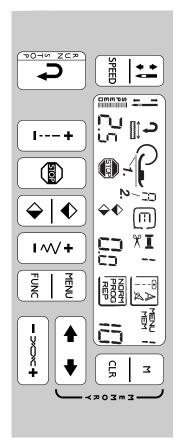
#### Reverse

Your machine sews backwards when this button is pressed.
The machine sews forward when the button is released.
The longest stitch length when

reverse feeding is 3 mm. For permanent reverse, press the button twice in quick succession before starting to sew. An arrow to the top left on the display indicates reverse sewing. To sew forward again, press the button once more.

The reverse button is also used when starting and stopping the Embroidery unit, (the foot control can also be used)

## Functions / Infodisplay



#### Stitch length

When you select a stitch, the machine will automatically set the best stitch length which will be indicated by numbers on the Infodisplay. You can

change the stitch length by pressing either the (+) or (-) button. Certain stitches have a limited stitch length. Not active in **REP** position.

When sewing embroideries the length can be set between 2 and 6 to change size of embroidery.

#### STOP

The **STOP** button is used to finish a stitch. i.e. the machine fastens the thread and stops automatically when the stitch has been completed. The

symbol on the display indicates that **STOP** is selected. **STOP** is cancelled when you press the button again or by selecting a new stitch. The button has the same function both in **NORM** and **REP** position

(See "Satin taper...", page 25, **STOP,** page 24.

Embroidery sewing without thread color change, see page 32.

#### Mirror image

You can mirror a stitch by using the buttons  $\diamondsuit$ , mirror image side to side and  $\diamondsuit$ , mirror image end to end . The symbols will be displayed.

When sewing embroideries only mirror image side to side can be used.

#### Stitch width

When you select a stitch, the machine automatically sets the best stitch width which is displayed with numbers on the Infodisplay. You can change the stitch width by pressing the (+) or (-) button. The width can be adjusted between 0 and 6 mm. Not active in **REP** position.

When sewing embroideries the width can be set between 2 and 6, to change size of embroidery.

## Functions / Infodisplay

## MENU - Selected group of stitches

Your machine has three menus - one for stitches, two for letters.

Your choice is displayed when you have pressed the **MENU** button to select stitches  $\P$ , outline block letters

A or script letters  $\mathscr{A}$ . The stitch number or the selected letter will also be displayed.

When sewing embroideries the

menu number will be displayed to the upper right.

## **FUNC - Selected function**

When you turn on the machine, the selected function displays **NORM**. Touch the

**FUNC** button to **PROG** for programming. If you touch the button again, **REP** = repeat will be displayed to sew your programmed stitches. After a third touch, **NORM** is displayed again.

Not used when sewing embroideries.

#### **Memory - position**

These buttons are used to advance or return within a memory, when entering or checking stitches. See page 21.

## Thread tension - adjustment

Use these buttons to adjust the thread tension manually. The adjustment affects all stitches and will remain until the machine is turned off.

#### **CLR** - Deleting stitches

This button is used while in QLR | **PROG** if you wish to delete what you have programmed. See page 25.

After finishing your embroidery sewing, touch the **CLR** button.

The embroidery arm returns to ready position.

#### Memory - number

The machine has 4 different program memories. Each memory will hold up to 55 stitches or letters. The button is used to advance to the memory required in **PROG** or **REP**. The number is shown on the display to the upper right. See page 21.

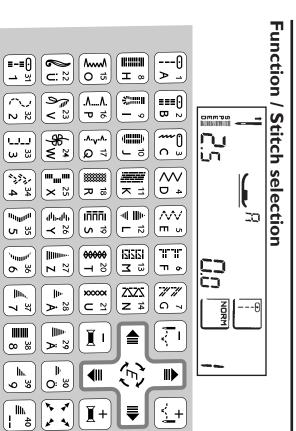
Not used when sewing embroideries.

## **Buttonhole sensor foot (I)**

When you plug the buttonhole sensor foot into the machine and place the white field of the measurement wheel against the white mark, the symbol will show brightly on the display. See page 37.

## Recommended presser foot (2)

The letter shows which presser foot is correct for the stitch you have selected. The corresponding letter is on the presser foot.



When you turn on the machine without having the embroidery unit connected, it always selects straight stitch and the number 1 as well as is displayed. The machine has one menu of stitches shown on the selection buttons with white symbols and two menus of letters shown in black symbols.

With the MENU button you select which menu you wish to sew.

The selected menu will be displayed, for stitches, A or of for letters.

To the very right on the Infodisplay the number of the selected stitch or the selected letter is displayed.

When the embroidery unit is

connected only the numbers of the selection buttons are used. In the Embroidery booklet each embroidery has a number.

## 123456789 RSTUUVWXYZA A'O

## **Embroidery functions**



directions.

#### Positioning

These buttons allow embroidery in four you to move the

quarter of a turn. button once and your embroidery will rotate a Rotation Touch this



#### Stitch advance

stitch forward (+) or backward (-) within your embroidery. These buttons allow you to step stitch by

#### MEMORY

wish with the exception of stitches combine any stitches/letters you up to 55 stitches or letters. You can gram memories. Each memory holds The machine has 4 different pro-

memory,  $\blacksquare$  to the right and  $\blacksquare$ memory you last used will be to start sewing a few stitches into what is programmed or if you wish and in REP if you wish to check **PROG** position when programming to the left. These buttons are used in to advance or return within the med even when it is switched off. remember what you have programdisplayed. Your machine will the program. Use the buttons marked with arrows When selecting **PROG** or **REP**, the

#### Check size



embroidery. step from one corner to This button allow you to another within your

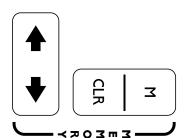


Color advance Many of the

color change. (-) to the beginning of each thread you to step forward (+) or backward several colors. These buttons allows embroideries include

now be removed and stored in the position. The embroidery unit can embroidery arm returns to ready l is finished, touch **CLR.** The | When your embroidery sewing

on page 26-35. Read more about embroidery sewing



#### **Programming**

Touch **FUNC** so that **PROG** is shown on the display. If you already have a program in the memory this will now be shown.

- 1. Touch **CLR** to empty the memory. See page 25.
- 2. Touch **MENU** to select the desired menu for your new program (stitch, or your choice of lettering style).

In this way you can combine different stitches according to your own taste and imagination. With the button  $\P$  you can go backwards to see what you have programmed.

To sew your program, touch **FUNC** to the **REP** position. The machine will be positioned at the first programmed stitch.

#### Example

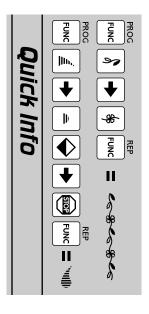
Select a stitch e.g.

Touch the button → The stitch is now entered in the memory.

Select another stitch e.g.

Touch the button  $\blacksquare$ .

Also see "Quick info" on the machine.



13

# Programming stitches from different menus

Example:

stitch menu. Select **PROG** function. Select the

Change menu to block letters Select a stitch  $\P$ , touch  $\blacksquare$ .

WA.W

Select a letter  $\mathbb{R}$ , touch  $\blacktriangleright$ .

Select another letter Al., touch

Change to stitch menu.

Select a stitch ( ψ, touch

Touch **REP** to sew. Touch STOP.

# Programming with stitch changes

stitches. Certain stitches, however, stitch length and width or mirror have a limited stitch length. In **PROG** position you can change

- 1. Select desired stitch.
- Use the stitch length and the change the setting before entering stitch width buttons (+) or (-) or with the  $\rightarrow$  button. the mirroring buttons  $\diamondsuit$ ,



#### Corrections

gram: letter to another one in your pro-If you wish to change a stitch or a

1. Touch FUNC to PROG

- number or the letter is displayed. arrows  $\blacktriangleright$  or  $\spadesuit$  until the stitch 2. Use the buttons marked with
- **3.** Select the new stitch or letter

#### Mirror images

Mirror image side to side Ŷ

to change the straight the width when you wish REP. You can also mirror program is mirrored in mirrored. The entire the stitch selected is In **NORM** and **PROG** only



stitch needle position, e.g. from left lin,

shown on the Infodisplay. selected the symbol  $\diamondsuit$  will be When mirror image side to side is to right.

#### Mirror image end to end In NORM and PROG only

REP. program is mirrored in mirrored. The entire the stitch selected is



بطا ♦ البير

end is selected the symbol When mirror image end to

the STOP will be placed at the mirror the entire program in length, the end of your program and then If you have programmed STOP at advance to the next stitch to avoid beginning. Use the button ▶ and will be shown on the Infodisplay

## Programming STOP

press the foot control again and the end of the stitch combination. Just have programmed STOP and at the thread in every position where you stops automatically and fastens the Then, when sewing, the machine REP position the is displayed. even after having pressed STOP. In the very right. pleted. The symbol | is displayed to stitch or letter combination is comtically when the sewing of your fastens the thread and stops automade a stitch program, i.e. the machine The **STOP** button is used to conclumachine will sew the rest of what You can continue your programming

> the Infodisplay. The symbol will disappear from

advance to the next stitch to avoid the **STOP** will be placed at the mirror the entire program in length, the end of your program and then select another function or stitch.) tion. The STOP will remain until you use the STOP button in REP posiwhile in **PROG** it is also possible to (If you should forget to enter **STOP** STOP beginning. Use the button ightharpoonup and If you have programmed STOP at

change thread color. the machine will sew the entire when sewing embroideries If you use the **STOP** button embroidery without stopping to



position.

machine stop, press the **STOP** combination without having the If you wish to repeat your stitch

button to cancel the **STOP** in **REP** 

you have programmed.

program of stitches in the

selected menu.

## Look through the program

If you have programmed several of the memories you can press **FUNC** for **PROG** or **REP**. Use the **M** button to select the following memory and then advance with the buttons

on the display when you select

The memory last used will appear

**♦** 

## CLR - Deleting stitches

If you wish to delete a certain stitch within the program:

- 1. In the **PROG** position, use one of the buttons ♠ ▶ until the actual stitch number is displayed.
- 2. Touch **CLR**. Now the stitch and everything to the right of it will be deleted.
- 3. If you wish to delete the whole program, touch the **FUNC** button to return to **PROG.** The machine will be positioned at the first programmed stitch.

PROG or REP.

4. Touch CLR. CLR deletes the

If you by mistake touch **CLR**, simply touch **CLR** again to bring back the balance of your program as long as you have not used another button. When the program memory is empty the stitch length and width is shown as 0.0/0.0 on the display.

Letters are deleted in the same way.

# Darning and taper satin stitches

The stitches 11-12 can only be selected in **NORM** position. They can not be programmed or combined but are set individually and automatically. For stitches 11 and 12 there are stitch memories where the number of stitches, length or width changes are stored.

- **1.** Sew until the stitch has reached the desired length.
- Touch the button. The machine now completes the stitch.
   When you have the result you

wish, touch STOP.

4. The stitch will now repeat in succession and the machine will stop automatically when the stitch is completed





If you wish to sew another stitch and then return to your stitch, you only select this stitch and touch **STOP.** 

The repeated stitch is retained even if you switch off the machine.

If you attempt to program these stitches in the **PROG** position, **PROG** is flashing to indicate that this is not possible.

#### **Embroidery**

The box contains Embroidery unit, embroidery hoop, embroidery booklet, embroidery template, template pencil, embroidery card, a pair of scissors, two thread nets and a test kit.

To prevent misplacing your embroidery accessories, store them in the box after sewing.



# Connecting the Embroidery unit

Nwitch off the main switch.

Make sure the machine is turned off while connecting the embroidery unit.

- 1. Slide off the accessory box.
- 2. There is a covered socket at the back of the machine. The embroidery unit plugs into this socket. To remove the cover, carefully pry it off with the accessory screwdriver.
- 3. Slide the arm of the embroidery unit to the right of the needle and the presser bar and push the unit to the right until it plugs into the socket.

The embroidery unit is now connected for sewing embroideries. The feed teeth will be lowered automatically.

To remove, turn the machine off, push in the button at the center of the left side on the underside of the unit and slide





off. Remove the embroidery card. Replace the cover protecting the socket on the

machine.

# Changing to the embroidery presser foot



Switch off the main switch.

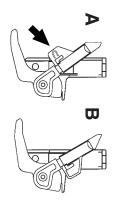
- 1. Raise the presser foot lever.
- 2. Unscrew the presser foot ankle
- **3.** Place the presser foot U from behind onto the presser bar. The arm of the presser foot should be behind the needle clamp screw.
- **4.** Push the presser foot upward make sure the holes match each other.
- **5.** Insert the screw and tighten the embroidery presser foot.



Normal embroidery: The lever on the arm of the presser foot should be turned downward (A). The mark U on the lever corresponds to the symbol won the display.

## symbol won the display. Quilting or sewing terry cloth:

When selecting a quilt stitch the symbol  $\square$  appears on the display Turn the lever upward (B). Also when sewing terry cloth or other thick fabrics, use setting (B).



#### **Thread**

Use rayon embroidery thread 40 wt. When reducing the size of the embroidery we recommend a finer thread, 60 wt. When enlarging, we recommend a thicker thread, 30 wt.

Place the net over the thread spool, especially when using rayon thread.

Use a very fine thread as bobbin thread. There is a special bobbin thread called darning cotton or basting thread available for this kind of embroideries.

Note: When bobbin winding you can use the habutton to start and stop. See page 12 "Bobbin winding - vertical spool pin".

#### Get started

1. Insert the embroidery card into the slot on the right side of the machine. To remove the card, pull it straight out.



I

NORM

- presser foot is in lower position the symbol \_\_\_ is flashing on the display. When raising the presser foot, the machine carries out a self test. If the needle is in its down position it will automatically go to up position. The embroidery unit will take its ready position.
- 3. When you have finished your embroidery work, touch **CLR**. The arm returns to ready position. Turn off the machine. To remove the Embroidery unit push in the button on the left center underside of the unit and slide it off. Take out the Embroidery card. Replace the cover protecting the socket and slide on the accessory box.

## Embroidery booklet

In the Embroidery booklet you will find all the embroideries actual size. Each embroidery is placed in a square where the center of each side is marked and a cross marks the center point.



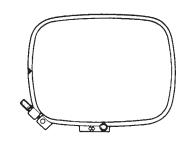
You will also see how each embroidery is placed related to the center point of your sewing space.

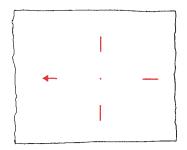
The row of thread spools next to the embroideries shows the number of thread color changes and the order of changes.

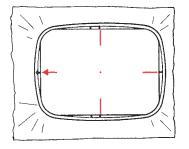
The sewing time - excluding thread color changing, is also given.

### Embroidery hoop

- 1. Loosen the screw on the outer hoop, place the outer hoop so that the screw is down to the right.
- **2.** At the front edge of the hoop there is an arrow.
- **3.** A corresponding arrow is located on the inner hoop as well as center marks in the two directions. You should take notice of the back marks.
- **4.** Place the embroidery template on your fabric. Use the Pictogram<sup>™</sup> pen to mark within the grooves and in the center.
- st. Place the inner hoop, the marks matching the ones on the fabric. Side marks should line up with the top marks on the sides of the hoop. We recommend using a tear-away stabilizer in the hoop under the fabric. Press hoop and fabric down, stabilize fabric as needed, into the outer hoop and tighten the screw. The arrows of the outer and the inner hoops should both be at the bottom.
- 6. Slide the hoop under the presser foot raise up the presser foot lever to take advantage of the extra lift of the presser foot. Slide hoop from the front onto the embroidery arm.
- **Note:** Always sew a sample Embroidery on a scrap of the same fabric you will embroider
- 7. Raise the presser foot before removing the embroidery hoop from the machine. Press the button located to the right on the hoop and pull the hoop towards you.



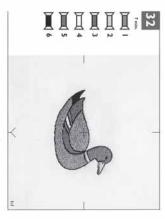




Note: Always touch CLR before you turn off the machine.
Otherwise the embroidery arm will not come to the correct position to remove the unit from the machine.

## Sewing embroideries

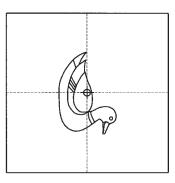
- **1.** Put on embroidery presser foot U, see page 27.
- 2. Place the enclosed net over the thread spool. Thread the machine with embroidery thread as upper thread. In this case you need not place thread under the presser foot. Use a fine thread as bobbin thread.
- 3. Thread the bobbin thread according to "Threading" on page 13 and check to be sure the thread lies under the tension springs. Cut the thread in the thread cutter. **Hint:** Slide bobbin cover on, then cut thread. Always check there is enough bobbin thread before starting a new embroidery.
- 4. Insert the embroidery card. The symbol 4. If ashing on the display indicates if the embroidery card is not inserted or not inserted fully.
- **5.** Select desired embroidery motif from the Embroidery booklet. Each embroidery has a number. The buttons 1-35 are used to select embroideries.



Select the number of the desired embroidery on the stitch panel.

**6.** Start sewing by touching the button [h] or by pressing the foot control. Hold the thread tails when starting.

The machine always starts from the center of the embroidery area, sews a starting stitch up to the beginning of the embroidery, sews a few stitches more, gives a "beep" and stops. A pair of scissors & flashing on the display indicates that you can cut the starting thread tail.



7. Touch the button and the machine sews the rest of the embroidery or up to next thread color change.

**Note:** Be careful when working within the needle and presser foot area to avoid touching the start/stop button or the foot control by mistake.

## Sewing embroideries

**8.** The machine stops automatically when it is time to change thread color. The display indicates which thread color change you have reached by a flashing number next to the thread spool **III**.

A flashing number indicates the first stitch of the "new" thread color. The number stops flashing when you begin to sew.

9. Once thread is changed, start sewing again. The machine stops for cutting the thread tail and at next thread color change etc., until the embroidery is completed.



During the sewing the embroidery hoop moves to different places within the embroidery, where jump stitches are sewn. Cut off these stitches as you sew, i.e. when the machine stops for thread color change.

In most cases the embroidery is sewn over the jump stitches, but in some cases a part of the thread can be visible and difficult to cut off afterwards.

If the upper thread breaks while sewing, the machine stops and gives a signal. The symbol **III** is flashing on the display. Rethread the machine.

Go back a few stitches using the L-button and restart. The symbol goes out.

The machine stops also when the thread spool runs out. When this occurs, remove the work and the bobbin. Re-thread the machine, replace the bobbin. Go back a few stitches past the point where the bobbin thread run out, using the button. Re-start and the embroidery will be completed.

If the bobbin thread runs out, remove the work and the bobbin.

Wind and replace the bobbin.

Replace the work, pull the upper thread back. Go back a few stitches using the J. button. Re-start and the embroidery will be completed.

To check how much bobbin thread is left, touch **CLR**. The embroidery arm returns into ready position.

Touch **CLR** to move the embroidery arm back to stitch position and pull the upper thread back.

## After finishing the embroidery sewing:

- 1. Remove the embroidery hoop by pressing the button to the right on the hoop. Pull the hoop toward you.
- 2. Touch **CLR** and the embroidery arm returns to ready position. In this position you may remove the embroidery unit from the machine (by pushing the button on the center left underside), after turning the machine off.

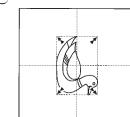
## Function buttons - embroidery

The check size button allows you to step from one corner to another within your

Touch the button twice and

embroidery, so that you will know the size of the embroidery and where on your fabric it will be placed.

All embroideries begin from the center.
The sewing space within the embroidery hoop is 100 mm x 100 mm



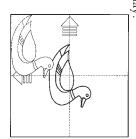


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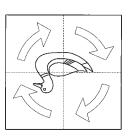
allow you to move the

embroidery in four

directions. The limit in each direction is indicated by a "beep" and the symbol (E) flashing on the display.



Touch this button once and your embroidery will rotate a quarter of a



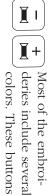
your embroidery will be sewn upside-down.
Watch the display to see how the symbol has been rotated

These buttons allow you to step *stitch* by stitch through your

touch on the button.

after each

stitch through your embroidery, e.g. if thread has run out or broken, you can step back a few stitches.



allow you to step *forward* (+) or *backward* (-) to the beginning of each thread color change. On the display the number next to the thread spool will flash to indicate the starting stitch at each thread color change.

### One color embroidery

If you have selected an embroidery including several colors and you wish to sew this only in one color: Touch **STOP** and all stops for thread color change will be cancelled. The machine sews the entire embroidery without stop.

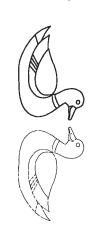
#### Embroideries using several menus

If you have an embroidery card including 2 or 3 menus you can change menu by touching the **MENU** button or button 35.

## Mirror image embroideries

You can mirror image the embroidery side to side  $\diamondsuit$ . The symbol  $\diamondsuit$  is shown on the display.

Read more about Mirror image on page 24.



### Color information

a + above the letters indicates light or dark shade of the color. See page 35 color will replace the stitch number on the display for a few seconds. A - or sing one of the buttons for information on how to set the language desired and a table including the The thread color for each part of the embroidery can be checked by prescolors represented. → . Two letters (or numbers) representing the

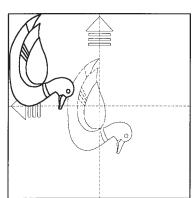
# **Enlarging and reducing embroideries**

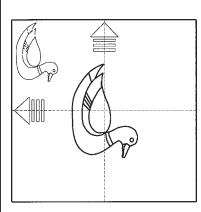
You can make the embroidery motifs larger and smaller with the stitch length and stitch width buttons between 2 and 6 maximum. The size changes are individually limited for each embroidery motif.

When enlarging or reducing the embroidery we recommend changing the thread thickness for the best result, see "Thread", page 27.

A "beep" indicates when a limit is reached. You can change stitch width and stitch length independently.

Change the size before moving from the center position. If the embroidery is moved first the size change may be limited by the motif reaching the edge of the 100x 100 mm area.





## Use the embroidery template

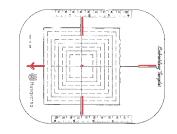
the embroideries pictured actual size. the embroidery is to be sewn. In the Embroidery Booklet you will find all garment, you can take advantage of the embroidery template to mark where When you wish to sew the embroidery at a specific place on your fabric or

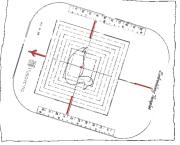
- 1. Place the template with the arrow pointing downward and matching the other marks. Draw the outer lines of your selected embroidery on the template using the template pencil. The markings can later be removed with an eraser.
- **2.** Place the template on your fabric where you wish to sew the embroidery.

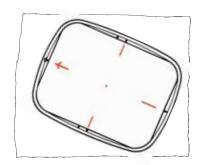
**3.** Draw marks on the fabric in the four grooves and in the center with your Pictogram<sup>TM</sup> pen.

4. Place the embroidery hoop matching the arrow pointing downward to the arrow mark on the fabric. Insert the fabric into the hoop, see "Embroidery hoop", page 28.

Make final adjustments using the positioning buttons of until the needle will start at the center..







# Color information / Language setting

#### Color information

above the letters indicates light or dark shade of the color. by pressing one of the buttons  $\spadesuit$ will replace the stitch number on the display for a few seconds. A - or a + The suggested thread color for each part of the embroidery can be checked When delivered, the machine is normally set at language code 0 . Two letters representing the color

Language Code	Language
0	(numerical)
1	Swedish
6	Danish
11	Finnish
21	Norwegian
26	English
31	French
36	Dutch
41	Italian
46	Spanish
51	German
60	Portuguese
81	Croatian
82	Polish
90	Czeck

White	Brown	Pink	Orange	Grey	Yellow	Violet	Red	Green	Blue	Black	Color
WH	BR	PI	OR	GY	YE	VT	RD	GN	BL	ВК	Numerical indication 26 (Eng.) 0 (num.)
10	09	08	07	06	9	04	03	02	01	00	indication 0 (num.)

#### Language setting

the machine again. for numerical color representation, see table. When set, switch off and on language code is now flashing on the display in place of the stitch number language press and hold the CLR button while switching on the machine. A To have the thread color information for embroideries adopted to your own Use the  $\spadesuit$   $\Rightarrow$  buttons to select the desired language, 26 for English or 0

#### **Buttonholes**

You can select different buttonhole

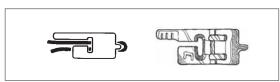
heavy fabrics. buttonhole, used for medium and Buttonhole the bartack

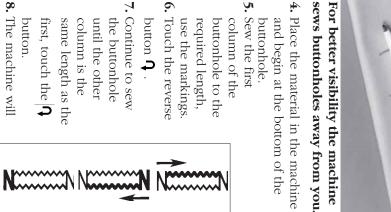
for tailored garments Buttonhole 🜷 keyhole buttonhole hole, for light fabrics. Buttonhole around end button-

- 1. Select a buttonhole.
- buttonhole sensor foot. Use the presser foot C or the
- Mark the buttonhole location on your fabric.

fusible stabilizer or a cord. When sewing stretch fabrics, use a

There is a small reaches this mark. buttonhole column until the first button. You will sew corresponds to the on the foot to see which mark and you will be able against the needle the presser foot Place the button on cm buttoning edge. foot C gives a 1.5 buttonhole length. has guide lines to The middle mark on determine The buttonhole feet





- and begin at the bottom of the buttonhole.
- Ÿ required length, column of the
- Touch the reverse button 🐧
- 7. Continue to sew first, touch the 1 same length as the column is the until the other the buttonhole button.
- end, a few tie off bartack the other
- same manner. Sew the next buttonhole in the stitches in the first column of the buttonhole and will then stop.

buttonholes on the garment. fabric to check size before sewing buttonhole on scraps of the garment **NOTE:** Always stitch a sample

the finger as illustrated.

buttonhole, loop your cord around the presser foot. For a corded finger at the back of

### Buttonhole sensor foot

- 1. Snap on the buttonhole sensor foot. Make sure that the cable is firmly plugged into the yellow socket (see picture). The symbol will flash until a buttonhole is selected.
- 2. Select a buttonhole on the stitch panel. The buttonhole will be preset for a 16 mm button when the machine is turned on. The number 16 is therefore shown on the display in place of the stitch length together with the symbol
- 3. If you are using a different size button, measure the button on the buttonhole rule below and set the correct size with the stitch length buttons (+) or (-). The size will change by 2 mm at a time.
- that the white area is lined up with the white mark. When the measurement wheel is correctly set, the circle in the symbol will stop flashing.

  If the circle or the whole symbol c is flashing the machine can not be started.

#### **Buttonhole size**

**5.** The machine will sew the correct size buttonhole for the **button size** you have selected.

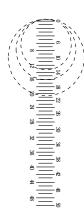
The buttonhole will be sewn in one step, and when the buttonhole is completed the machine

will stop automatically.



### Changing the density/stitch length

To change the stitch density of the buttonhole columns, adjust the length setting of the stitch. Unplug the buttonhole sensor. The stitch length will then be shown on the Infodisplay again and you will be able to adjust the density of the buttonhole. When you plug in the buttonhole sensor foot, the display goes back to showing the size of the buttonhole, but remembers the new stitch length setting.



Place the button as shown on the circles on the picture and you can easily see the size needed for your buttonhole.

### **Buttonhole knife**

The knife is used to cut buttonholes. It is also useful for removing stitches sewn in error.

### Sewing buttons

- **1.** Mark the fabric where the button is to be located.
- 2. Touch **FUNC** to **NORM** and select

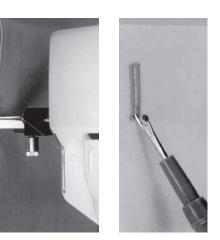


- 3. Lower the feed teeth with the dial. See page 16.
- 4. Snap off the presser foot.
- **5.** Place the material under the presser foot ankle.
- 6. Place the button on marking and lower the presser bar so that the presser foot ankle is between the holes of the button (see picture).
- 7. Hold the thread ends to one side. Turn the handwheel and check to be sure that the needle goes into the left hole of the button.
- 8. Touch the mirroring button ♦ to check that the needle also goes into the right hole.
- **9.** Sew as many stitches as you consider necessary.

### Button with a shank

Use the clearance plate for this purpose. Use the thin end when sewing buttons on light fabrics, the thick end for heavier fabrics. Push in the plate between the button and the fabric. Lower the presser bar and sew on the button. Pull the threads between the button and the fabric.

Wind the threads a few times around the shank and tie the ends.



- **10.** Touch **STOP**. The machine will then tie off in one of the holes and stop.
- **11.**Touch **STOP** to cancel it. Move to the next pair of holes or the next button.

If you have a button with a different hole spacing, you can adjust this by presssing one of the stitch width buttons (+) or (-).



#### Straight stitch

to great strain. seams which will not be subjected fabric which does not stretch and for Straight stitching is used to join

average stitch length. machine will automatically set the When you select straight stitch the

will be doing. exact setting for the actual work you Experiment until you arrive at the

### 25 Needle Positions

mirror imaged  $\Phi$  is right needle stitch and reinforced straight stitch, between 0-6 for additional positions and step back to 0. Adjust the width tion, use the stitch width button (-) position. To return to center posiis left needle position, width 6 (+), 0 is the center position, width 6 in steps. Use the stitch width button the needle position can be adjusted When topstitching using straight

advantage of the possibility to set the needle to the left or the right To edge stitch, you should take

snap on presser foot A when sewing other fabrics. light fabrics and presser foot D for To sew about 2 mm from the edge,

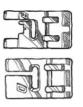
of the left edge of the presser foot the presser foot D or the first mark edge follows the inside right edge of presser foot A and set the needle to the edge or sew a narrow hem, use If you wish to sew about 5 mm from Place the fabric and sew so that the



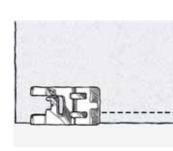




when basting and when topstitching Example: Increase the stitch length







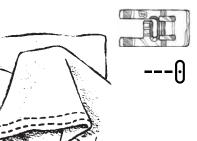
follows the outside right edge of the Place the edge of the fabric so that it presser foot and sew the hem

the right position.

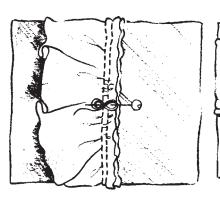
# Gathering with straight stitch

Use a slightly longer stitch than normal straight stitch, 3.5-5.0. Always sew two gathering threads next to each other.

1. Pin the gathered part to the corresponding garment section. Make sure that the marks and the seams correspond to each other, or match notches.



2. Pull both bobbin threads from the same direction and distribute the gathering evenly. When half the distance is gathered, wind the threads around a pin. Then gather the other half from the other direction. Distribute the gathering evenly.



3. Join the pieces with straight stitch, the gathered material facing up. Sew between the straight gathering rows. Hold the gathering with your fingers on both sides of the needle to avoid folds. Remove any gathering thread that is visible.

### Sewing zippers

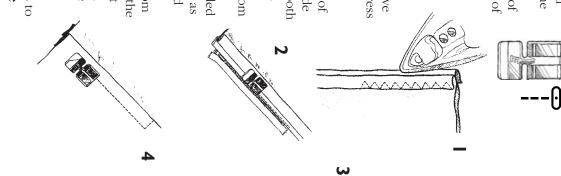
The zipper foot E can be snapped on so that it is located either to the right or to the left of the needle, making it easy to sew both sides of the zipper. To sew the other side of the zipper, reposition the zipper foot.

### Lapped zipper

- 1. Sew the seam together to the bottom of the zipper placket.

  Baste the rest of the seam. Leave about 2 cm open at the top. Press seam open. Set the needle to the right position.
- 2. Place presser foot E to the left of the needle. From the wrong side fold the fabric to one side so both seam allowances are free. Fold and press the left allowance under approximately 0.5 cm from the basted seam.
- 3. Place the zipper under the folded seam allowance with the teeth as near to the fold as possible and stitch zipper to fabric close to fold. Begin sewing at the bottom of the zipper. Before reaching the zipper pull, lift the presser foot and slide the zipper pull down past the zipper foot. Lower the foot and sew to the top of the zipper.
- 4. Snap on the zipper foot so it is to the right of the needle. Set the needle to the left position.

  Turn the garment to the right side. It is important that the seam on the right side is sewn straight. Before you begin to sew, mark the seam line. Sew the other side of the zipper.



Begin stitching across the bottom and continue upwards. Remove the basting.

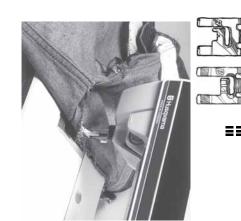
If you want to sew a "gentleman's zipper", follow the instructions but insert in the other direction.

topstitching in light stretch fabrics.

## Reinforced straight stitch

elastic stitch. due to the fact that it is a triple and stronger than ordinary straight stitch. The reinforced straight stitch is

topstitching in heavy fabrics. considerable strain and for crotch seams which are subject to used for heavy stretch fabrics, for The reinforced straight stitch can be



#### Stretch stitch

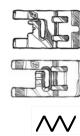
stretch fabric. for sewing together pieces of light pliable, stretchy seam that is suitable The stretch stitch The stretch stitch is ideal for makes a





length 2 and width 3. machine will automatically set stitch When you select the zigzag the appliqués. on lace, bound edging and The zigzag is utilized for sewing

setting for your actual work. on the width and/or length. pressing either the (+) or (-) button Experiment until you reach the best You can change this setting by





#### Lace edging

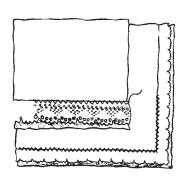




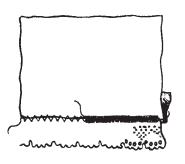




1. Place wrong side of lace to right side of fabric matching edges. width 1.5. zigzag,  $\gtrsim$  stitch length 1.5, stitch Sew along inner edge of lace with

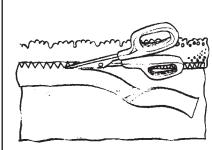


2. Press seam allowance towards stitch width 2.0, on the right side over the zigzag seam. fabric. Sew with satin stitch  $\blacksquare$ ,



Sewing

3. Cut off the seam allowance up to the stitching on the wrong side.



### Three-step zigzag

#### **Overcasting**

Three-step zigzag  $\geq$  is suitable for overcasting most fabrics. Trim the edges of the fabric before overcasting.

Make sure that the needle sews over the edge of the fabric. Place the fabric according to the presser foot (see picture).

### Sewing terry cloth

Terry cloth is a rather loosely woven fabric in which seams easily break. Sew the garment together with straight stitch. Trim the seams and press the seam allowance flat and sew the edges down against the garment on the wrong side with three-step zig-zag.

Even though the stitching goes right through to the "right" side of the

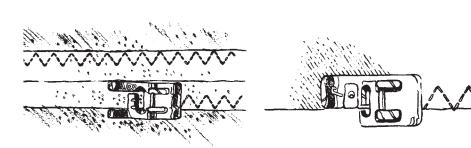
garment, it is nearly invisible and even the wrong side looks neat. The stitching will also be considerably stronger.

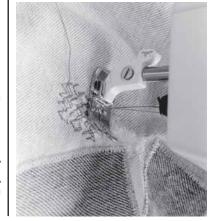
Necklines and armholes are finished in a similar way.

### Mending and darning

Three-step zig-zag \( \), can be utilized for mending and darning. A threadbare spot is mended by sewing back and forth with three-step zig-zag.

Use the reverse feed button  $\mathbf{q}$ . For every row of stitching, guide the fabric slightly to the side. If the fabric is very worn, a piece of fabric or lining may be attached to the reverse side of the material as reinforcement.





#### **Flatlock**

The flatlock (3, is suitable for sewing overlapped seams and decorative hems. Loosen the presser foot pressure to 2 when sewing stretch fabric.





You can produce a decorative hem by folding a single hem to the wrong side and sewing the flatlock from the right side.

Trim excess hem to stitching from the wrong side.



Sewing

To sew an overlapped seam, lap one piece of fabric over the other piece and sew flatlock stitch over the fabric edge on the right side.

Trim from the wrong side or sew another seam from the right side.



### Narrow belts and bands

Fold the fabric in thirds and sew in the center. Trim excess material from underneath.



#### Blind hem

blind hem 💈 is used for knit fabrics hem. As a general rule the elastic Snap on presser foot D for blind

and the woven blind hem 🗧 for

woven fabrics.

compare with the illustrations using a scrap of material and side of the presser foot. Practice rides in the groove under the right sure that the fold line of the fabric Fold the material as shown. Make







If the stitch does not increase the stitch catch the folded edge, width (+).



2. If the stitch catches too width (-). decrease the stitch much of the fold,



ÿ folded edge. single thread of the the needle catches a For an invisible hem



### **Bridging stitch**

The bridging stitch is is suitable for joining two pieces of fabric with folded edges.

Leather and vinyl are joined by butting the edges close to each othe

Leather and vinyl are joined by butting the edges close to each other using the bridging stitch. Also use to join lace and ribbon.

#### Elastic shirring

The bridging stitch is also useful for gathered elastic shirring. Use the buttonhole foot C, tighten the upper thread tension.

On the wrong side of your fabric draw lines to sew the stitched rows straight.

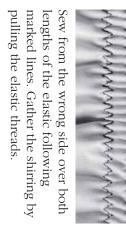
Remember that the elastic will always be stitched double, so take this into account when calculating how much you will need. Place the shirring elastic (elastic thread) around the finger of the presser foot C.











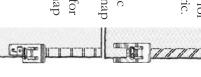
### Seam and overcast

right "toe" of the presser foot follows the edge of the fabric. where a 5 mm  $(1/4^n)$  seam is allowed. Place the fabric so that the inside Some stitches can be used for seaming and overcasting directly on the edge

Overlock is chiefly used for sewing heavy stretch fabric. Snap on presser foot B.

Overcast stitch, may be used to sew light and medium non-stretch fabric and light stretch fabric. Snap on presser foot J.

Overlock stitch is used for medium stretch fabric. Snap on preser foot B.



Presser foot J is also used to overlock and overcast many different fabrics with the exception of heavy, firm fabrics. The pin on the presser foot should follow the edge of the fabric and will prevent the fabric from puckering. Stitch width 5-6 mm. When using stitch width 4.5 or lower, use presser foot A.

#### Darning stitch

is a perfect stitch for mending and darning. Use presser foot A.

- 1. Select **NORM**, sew the first row of stitches as long as you need to cover your tear or worn spot.
- 2. Touch the reverse button  $\P$  and the machine continues sewing the remaining stitches at the same length and fastens the thread.
- 3. Touch **STOP**. Move the fabric so that the needle is right over the last stitch. Repeat as many times as you need to cover the hole. See "Satin taper and darning stitches" page 25.

### Automatic taper stitch

The tapered satin stitch \( \bigcip \), is a tapered zigzag which makes it suitable for sewing monograms and other embellishments. Use presser foot B.

- and sew over the lines.
- Touch FUNC to NORM position and select .
- **3.** Sew until the desired length is reached.
- 4. Touch the reverse button  $| \mathbf{q} |$  to taper the end. See "Satin taper and darning stitches" page 25.

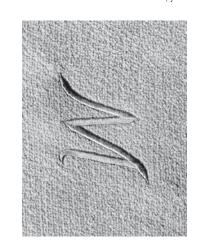








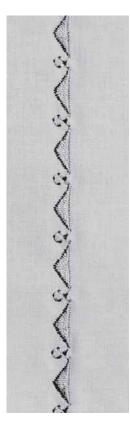




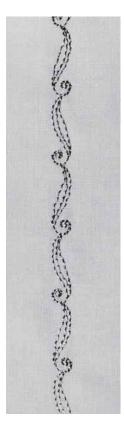
### **Decorative stitches**

These stitches are mainly used as decorative stitches.

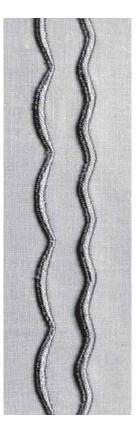
#### Examples:



Stitch 39, 39 �, stitch 18 ◆. You can combine and program different patterns one after another



time. Stitch 22, 22 You can program stitches and sew the original way and mirrored every other



Upper, stitch 35, lower, stitch 36. edge and trim close to the stitching. An effective edging can be produced with these stitches. Sew a bit from the

#### Quilting

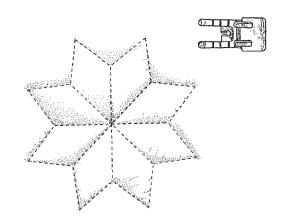
The "hand" look quilting stitch No

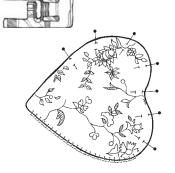
- 31 in, is a perfect stitch for relief stitching. Use presser foot P.
- **1**. Mark the design on the top of the fabric you are going to quilt.
- Place the fabric you are going to use as quilt backing, wrong side up.
   Place a layer of batting on wrong side. Finally place the top right
- side up with the marking. **4.** Pin all the pieces together.
- 5. Use transparent nylon thread as upper thread and a synthetic thread or embroidery thread as bobbin thread.
- **6.** Test sew. On the top side of your work the triple stitch should be filled with the bobbin thread and the single stitch will not be visible thanks to the transparent upper thread.
- 7. Sew along the marked quilt design.

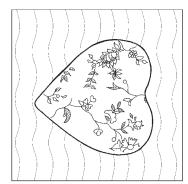
#### **Applique**

Use presser foot B.

- 1. Sew the heirloom applique stitch number 33 \_\_, around a binding at the edge, or for hand look applique.
- 2. The satin stitch number 38 ■, set to stitch width 2 mm sews beautiful appliques. Fuse or pin applique in place and satin stitch around the outside edges.
- 3. Use stitch number 32  $\geq$  to quilt. Sew the stitches with a few cm in between.







#### **Pictogram**

Read about Programming on page 22. Use presser foot B.

**1.** Program the leaf in an empty memory.

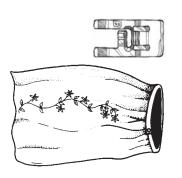


- 2. Select **NORM** and reinforced straight stitch ...
- **3.** Sew the stem down to the first pair of leaves.
- **4.** Select **REP** and sew a leaf from the stem to the top.
- 5. Select straight stitch, stitch length 1,5. Sew from the top of the leaf and back to the stem.
- **6.** Sew the other leaf in the same way.
- 7. Select reinforced straight stitch and continue sew the stem down to the flower stem.
- **8.** Then sew the stem as far as to the flower.
- **9.** Program the ball in an empty memory.



- **10.** Select **REP** and sew the ball.
- containing the programmed leaf.
- petal from ball to top. Stop with the needle in the material.
- **13.** Change to straight stitch, stitch length 1,5.
- **14.** Sew back close to the petal.
- **15.** Sew the rest of the petals in the same way.

Also: Consult **Quick info** for Pictogram steps.



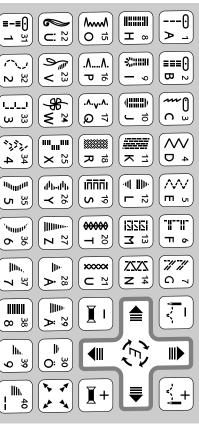






see page 42-43

#### Stitch table



1 Straight stitch

see page 39

For all kind of sewing in woven fabrics, 25 different needle positions

**2 Reinforced straight stitch** see page 42

and working clothes. 25 needle positions

For seams in tricot and stretch farbrics

strain, i.e. to reinforce and topstitch sportswear

For seams which are subject to considerable

3 Stretch stitch see page 42
4 Zigzag

For lace edging and sewing on bands

5 Three-step zigzag

For overcasting, mending, sewing on patches and elastics

see page 44 **6 Overcast stitch** 

see page 47

Seam and overcast in one step along the edge or trim later. For light stretch and non-stretch fabrics.

**7 Overlock** see page 47

Seam and overcast in one step along the edge or trim later For medium and heavy stretch fabrics.

**8 Bartack Buttonhole** see page 36

Suitable in medium and heavy fabrics.

**9 Keyhole buttonhole** see page 36

For tailored garments suitable in compact woollen cloth

**10 Round End buttonhole** see page 36

Suitable in light fabrics.

#### Stitch table

11 Darning stitch

see page 48

12 Tapered satin stitch

see page 48

13 Overlock stitch

see page 47

14 Flatlock see page 45

**15 Elastic blind hem** see page 46

16 Woven blind hem

see page 46

17 Bridging stitch

see page 47

**18-20 Hemstitches**Point de Paris 19

Entredeux 20

21 Cross stitch

22-26 Decorative stitches

see page 49

**27-30, 37-40 Pictograms** see page 51

31-32 Quilting stitches

see page 50

33 Heirloom Appliqué

see page 50

34 Feather stitch

**35-36 Decorative edging** see page 49

**38 Satin stitch** see page 43

Instruction book Rose

Darn and mend work clothes, jeans, tablecloths and linen towels.

cloths and linen towels.

Automatic tapering for sewing monograms and other decorations

Seam and overcast in one step along the edge or trim later. For medium stretch fabrics.

Decorative hems and overlapped seams, belts and bands.

Invisible hems in stretch medium and heavy fabrics.

Invisible hems in woven fabrics

For joining two pieces of fabric with finished edges and for elastic shirring

For hemstitching, use a wing needle(optional)

For decorating clothes, tablecloths and curtains

For decorating clothes, tablecloths and curtains

Programmable satin elements which can be mirrored and combined with each other, creating beautiful satin embroideries

Outline quilting through batting and backing

Hand look appliqué stitching stitch

Decorative stitching and for quilting

For decorative edges. Sew 15 mm from the edge and trim close to the stitching

For appliqués, rounded edge, sewing on laces and bands

#### Sewing hints

#### Free arm

To facilitate sewing trouser legs and sleeve hems use the free arm.

The free arm also allows you to darn socks (darning foot is an optional accessory).



#### "Jeans hem"

The clearance plate is used when sewing over thick seams.



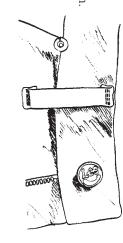
One side of the plate is thicker than the other. Use the side that suits the thickness of the seam best.



### Sewing on belt loops

Use presser foot B and lower the feed teeth. Fold in about 1 cm on the short ends. Place the belt loop on the garment and under the presser foot. Set a wide zigzag stitch.

Sew a bartack from the outer edge to the center of the loop, move the material and sew a new bartack. Continue to sew along the entire length of the loop's short side.



#### **Maintenance**

### Changing the light bulb

Switch off the main switch.he light bulb is placed to the left of the needle. Place the rubber sheath found in the accessory box with its deep hole around the bulb. Do not turn the bulb, just pull it down to remove the bulb.

When inserting, place the rubber sheath with its shallow hole around the new bulb, insert the bulb by pushing it up.

Use light bulb designed as indicated on the front of the machine.

### Care of the machine

To keep your sewing machine operating satisfactorily, it requires, like other precision machines, regular cleaning. No lubrication (oiling) is needed.

### Removing the stitch plate

Switch off the main switch.

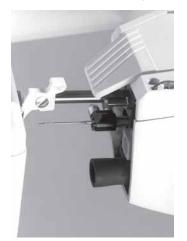
Remove the presser foot and the bobbin cover. Lower the feed teeth Place the stitch plate opener on the brush. There is a recess at the rear of the stitch plate. Insert the stitch plate opener at the recess and turn.

#### Cleaning

When necessary, the feed teeth and the bottom of the bobbin area must be cleaned with the brush, which you will find with the accessories

### Replacing the stitch plate

Replace the stitch plate about 5 mm in front of the rear edge and push it backward. Replace the bobbin cover.









#### Fault-finding

### Always start by checking the needle

Always start with a new needle as soon as you discover that a stitch is not what you expected. Test sew on a scrap of the fabric you are sewing Check that you have chosen the correct needle and see that it is correctly inserted. See page 16.

### Unattractive stitches

The thread tension is not correct. See page14. Make sure that the thread is not catching. Certain thread spools are unsuitable for spooling from the horizontal spool pin. Try instead with the vertical spool pin. The machine may be incorrectly threaded. Be sure to place spool holders correctly.

The correct threading is shown on page 10.

Wrong bobbin thread. It should be of the same thickness as the upper thread except when sewing embroidery.

#### The needle breaks

The needle can strike against stitch plate and break. Change the needle See page 16.

### The upper thread breaks

check the thread spool to see that it has not caught in any way.

The needle eye may have sharp edges which cut the thread. If so, change the needle. See page 16.

The upper thread is incorrectly threaded. See page 10.

The upper thread may have too much tension. Refer to page 14.

The hole in the stitch plate may be chipped and have sharp edges. We recommend that you replace it.

### The bobbin thread breaks

The bobbin thread may be incorrectly threaded. See page 13. The stitch plate hole is damaged. See "Upper thread breaks".

### Irregular thread tension

This may be due to poor quality thread. When sewing with cotton thread, increase the thread tension

### Irregular bobbin winding

The machine is not correctly threaded for bobbin winding. See page 12.

#### The fabric puckers

The upper thread tension is too tight. See page 14 for correct thread tension.

Use the correct presser foot as recommended by the display.

### The machine does not feed the fabric

The stitch length is too short. Increase stitch length.

The feed teeth may be lowered. Raise them by turning the dial to

See page 16.

The feed teeth are full of dust and dirt. Clean with the brush. See page 55.

#### Fault-finding

#### layers not held together The stitch is too loose - fabric

thread tension. Page 14 shows how to adjust the The thread tension is far too loose

#### Incorrect stitch

again. If the fault remains, contact switch, wait a few seconds and try your dealer. cal disturbance. Shut off the main haps by a short power cut or electristitch indicated by the display, it is If the machine does not sew the been disturbed in some way, perpossible that the electronics have

### Machine runs sluggishly

and in the bottom area. See page 55 brush clean between the feed teeth stitch plate. Loosen the plate and Dirt or lint has built up under the

the sitch length indication. The stitch, the display goes back to show the density of the right column, shown. When you wish to increase machine always retains the last touch. When you select another play will change in steps fo each balance can be set between -5 to +5. you wish to decrease the density, press stitch length button (-). When indication a balance indication is play. In place of the stitch length are flashing to the left on the dis-The balance indication on the dispress stitch length button (+). The hole is selected. Press the buttons Balance can only be set if a button-**Balance setting for buttonhole** and **→** until the letters **BAL** 

### Main motor does not work

Then switch on the machine main switch, wait about a minute. may have switched off. Shut off the The electronic overload protector

#### machine screen does not respond to touch The sewing and embroidery

off and back on again. If this respond to touch, turn the machine the sewing machine screen does not embroidery unit is not connected. If static electricity when the is connected can be sensitive to machine where the embroidery unit The socket on the back of the Husqvarna Viking retailer persists, contact your authorized

#### Expert assistance

intend to use. fabric and with the thread you along with you, preferably of the possible as when you used it. under as similar conditions as great help if it can be test sewn machine is being checked, it is a you bought the machine. When the you should contact the dealer where still do not get satisfactory results, followed the preceding points and regularly by your dealer. If you have Remember to take a sewing sample Have your machine "tuned up"

much better information than words A sewing sample will often give

#### Non-original Parts and Accessories

defect or damage caused by use of The warranty does not cover any non-original accessories or parts.

made balance setting.

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 $8^{\circ}$ 

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We reserve the right to change the machine equipment and the assortment of accessories without prior notice, or make modifications to the performance or design.

Such modifications, however, will always be to the benefit of the user and the product.

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Purchase your top-of-the-line from your local authorized Husqvarna Viking Dealership:		First Sensor Foot Lift First Sensor Foot Pressure First Selective Thread Cutters First Color Touch Screen First Built-in Disk Drive	First embroidery software for home computers	First LCD Infodisplay® – A built-in instruction book First LCD Programdisplay® – See before you sew First truly automatic self-adjusting tension	First thinking and writing sewing machine	First Sewing Advisor® – A thinking sewing machine	First with dual lights	First programmable lettering – A writing sewing machine First programmable stitching	First to eliminate the need for oiling	First snap-on presser foot system	First color-coded stitch selection	First floating jam-proof hook
of-the-line from your local authorized Husqvarna Viking Dealership:	440	ssure d Cutters reen ive	oidery software for home computers	Infodisplay® – A built-in instruction book Programdisplay® – See before you sew automatic self-adjusting tension	ing and writing sewing machine	- 1	dual lights	1	minate the need for oiling	on presser foot system	coded stitch selection	





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