

# Sewing mode



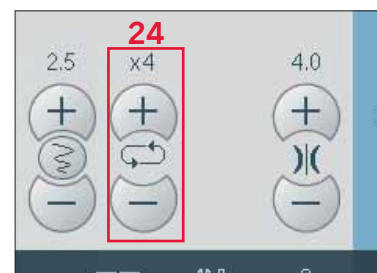
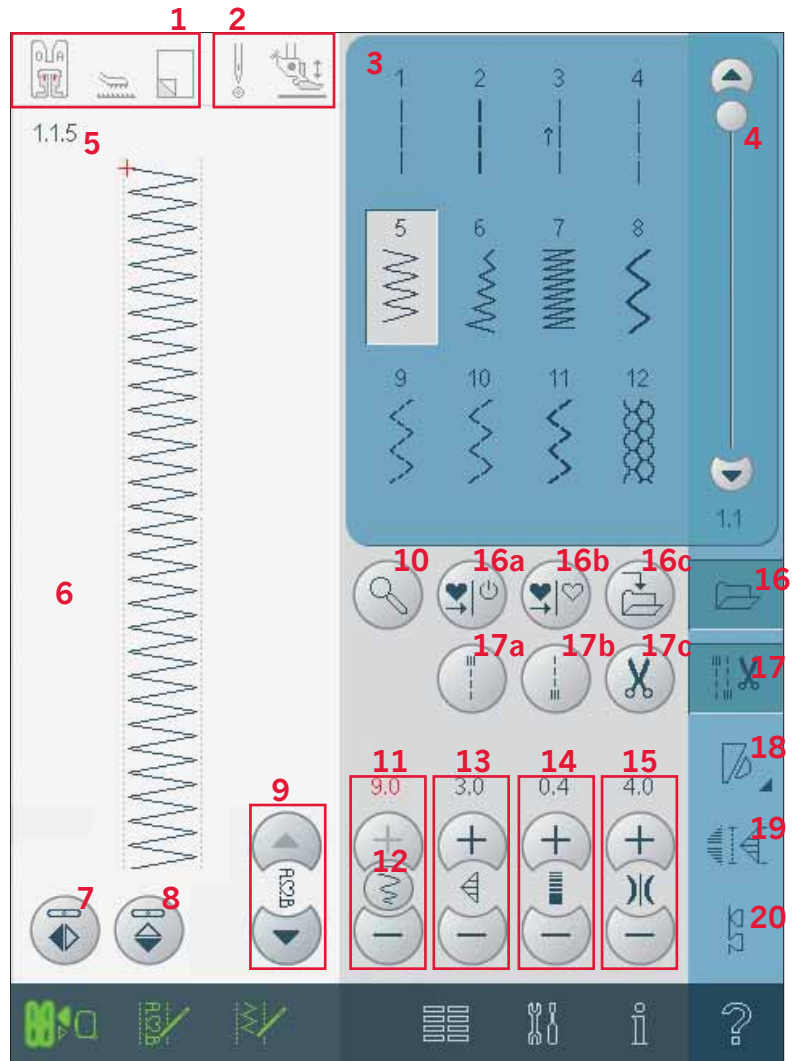
# Sewing mode

In sewing mode view you can select stitches, adjust and sew them. You can also go to Stitch Creator and to sequencing to create your own stitches and sequences. Your selected stitch will be shown in full scale in the stitch field. The recommendations and machine settings will be shown at the top.

## Sewing mode - overview

1. Sewing recommendations
2. Machine settings
3. Stitch selection area
4. Scroll bar (Scroll through stitch categories)
5. Selected stitch number
6. Stitch field
7. Mirroring side to side
8. Mirroring end to end
9. Sequence start position
10. Zoom to all
11. Stitch width
12. Width/position toggle
13. Stitch length
14. Stitch density
15. Needle thread tension
16. Save options
  - a) Save personal default stitch
  - b) Save to Personal menu
  - c) Save to Personal file
17. Tie-off options
  - a) Tie-off beginning
  - b) Tie-off end
  - c) Thread snips
18. Speed control
19. Sewing programs
20. Balance
21. Repeat buttonhole
22. Stitch positioning
23. Buttonhole slit length
24. Button stitch repetition

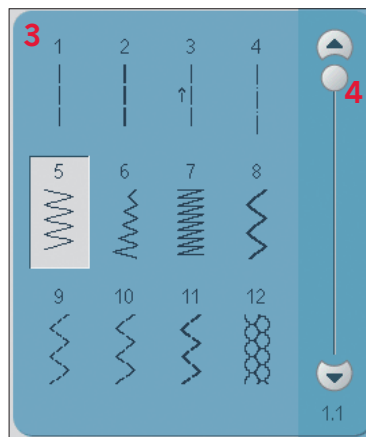
*Note: All symbols and options will not be shown at the same time.*



## Select a stitch

To select a stitch, touch the actual stitch in the stitch selection area (3). You can scroll through the list of stitches, using the scroll bar on the right hand side. The number of the actual subcategory is shown below the scroll bar (4).

You can also select a stitch from the selection menu.



## Sewing recommendations (1)

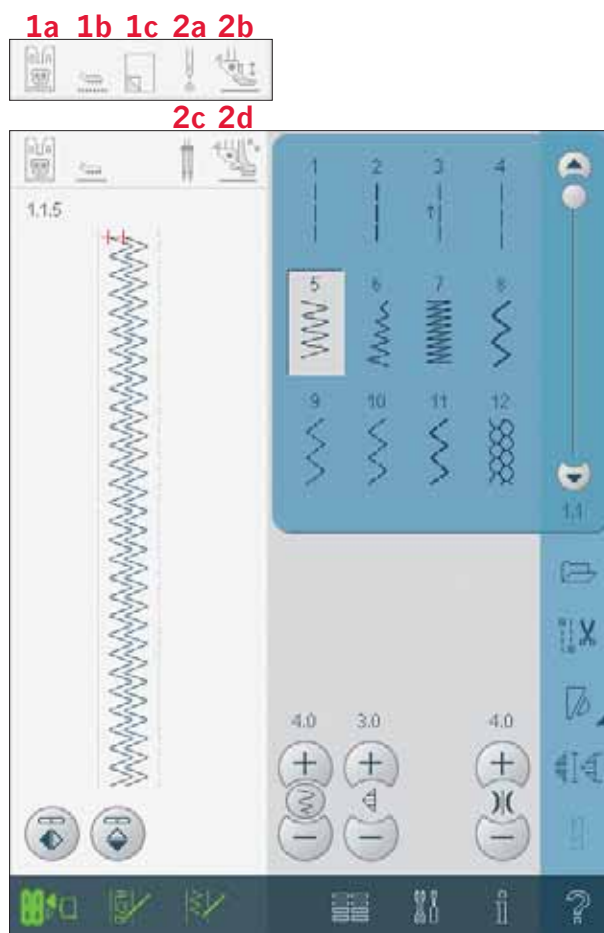
Shows recommendations for the actual selected stitch.

- a) Presser foot recommendation
- b) IDT recommended
- c) Stabilizer recommended

## Machine settings (2)

Shows your settings for different modes.

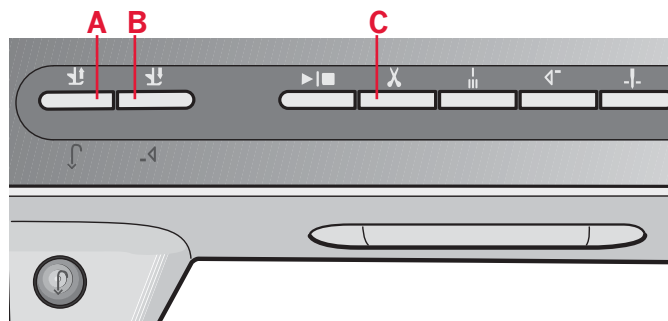
- a) Set for stitch width safety
- b) Set for sensormatic free-motion
- c) Set for twin needle
- d) Set for spring foot free-motion



## Raise and lower the presser foot

Your machine features the automatic presser foot up and extra lift button and the presser foot down and pivot button.

To lower the presser foot, place the fabric under the presser foot and press the presser foot down button (B) or step on the foot control. To raise the presser foot, press the presser foot up button (A) or press the thread snips button (C) to cut needle and bobbin thread and raise the foot. When the needle stops in the down position, the presser foot raises to pivot height.



## Option bar

### Save options (16)

Select where to save your stitch, open the different save options under save (16).

### Save personal default stitch (16a)

Select your stitch and then touch this icon (16a) to confirm your default stitch. This stitch will now be selected when you turn on your machine.

### Save to Personal menu (16b)

To save a stitch into your Personal menu, touch the save options icon (16) and select save to Personal menu (16b). A new window will open. Choose which subcategory you want to save your stitch in (A). All your previously saved stitches will be shown in the Personal menu.

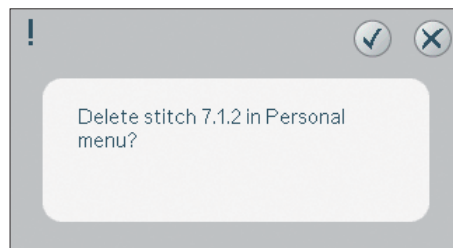
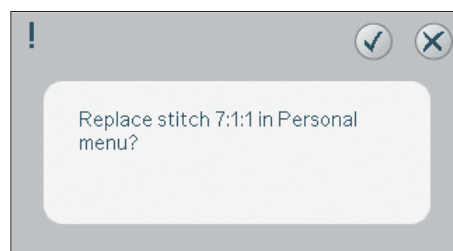
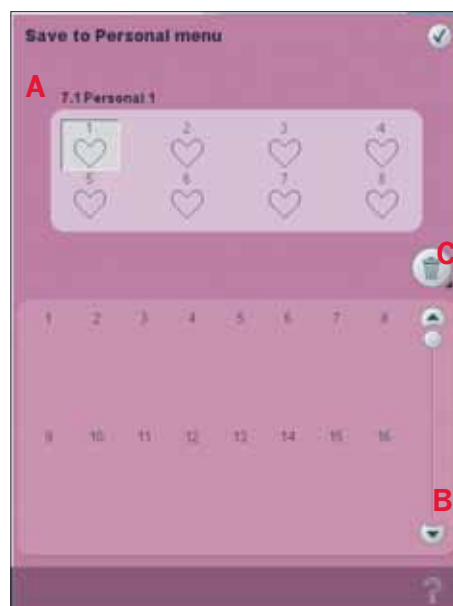
You can scroll through the list to find a free position, using the arrows (B). Any box without a stitch is a free position and can be used to save your new stitch. Simply touch the position and your stitch is saved.

Any box with a stitch is an occupied position. You can overwrite a previously stored stitch. Simply touch the stitch to overwrite. A pop-up will ask you to confirm that you want to overwrite the previously stored stitch. Cancel the saving process by touching the cancel icon. The saving window will close and you return to the previous screen.

To delete a saved stitch or sequence, touch the delete icon (C). The delete icon will be active until a stitch is selected and deleted or until the delete icon is touched again. A pop-up will ask you to confirm the deletion.

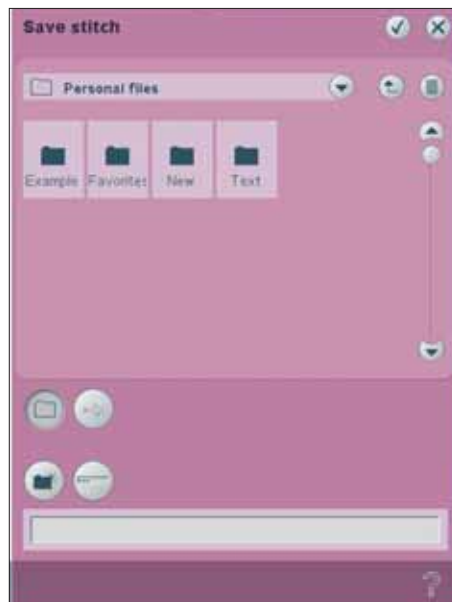
Long touch the delete icon to delete all stitches saved in the current subcategory at one time.

*Note: If using the long touch function, even the stitches in the actual subcategory not visible on screen, will be deleted.*



## Save to Personal files (16c)

To save a stitch into your Personal files, touch the save icon (16) and select save to Personal files (16c). The icon will open a new window where you can select where to save your stitch. You can save either to a folder in your Personal files or to an approved external device.



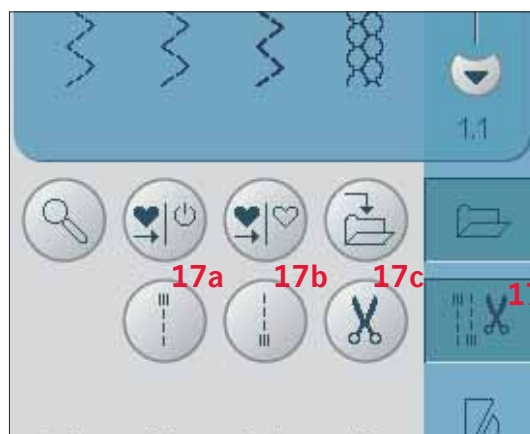
## Tie-off options (17)

These options let you program tie-offs both at the beginning and the end, and thread snips at the end of the stitch.

When touching the tie-off icon, three options open to let you select different functions; tie-off beginning (17a), tie-off end (17b) and thread snips (17c).

When you have activated your settings, you can hide the three icons by touching the tie-off icon on the option bar again. The tie-off icon will show your settings by changing the color of the chosen function. The settings will remain active until you switch them off.

*Note: For immediate tie-off, use the tie-off button, found on the front of the machine.*



## Sewing with tie-off options selected

1. The tie-off beginning (17a) will be performed as soon as you start to sew.
2. Press the reverse button to perform tie-off end (17b). The action indicator will be lit. The machine will finish the stitch and do a tie-off. When a thread snip (17c) is programmed, the machine will automatically cut the threads after performing the tie-off end. The needle and presser foot will raise.

*Note: Stop sewing and press the reverse button twice to activate reverse sewing. The reverse indicator will be lit. No tie-off will be performed.*

*Press the reverse button when sewing in reverse to activate tie-off end. Both the reverse indicator and the action indicator will be lit.*

*To go back to sewing forward, stop sewing in reverse and press the reverse button. No indicators will be lit and no tie-off will be performed.*

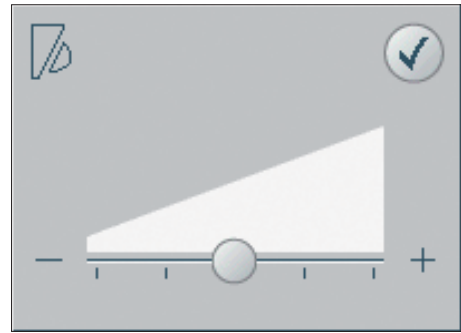
## Speed control (18)

This function enables you to easily reduce the maximum sewing speed. Just touch the speed control icon to reduce the speed. To return to normal speed, deselect the icon.

You can change the set speed limit. Long touch the speed control icon to get a pop-up. Set the speed limit you would like by sliding the button right or left and then close the pop-up. The next time you touch the speed control icon, the speed will be reduced to the limit you have chosen.

You can sew without closing the pop-up.

*Note: If selecting the highest speed in the slider, it is like choosing no speed limit at all. The icon in the option bar will then be deselected and the speed limit will be set to default.*

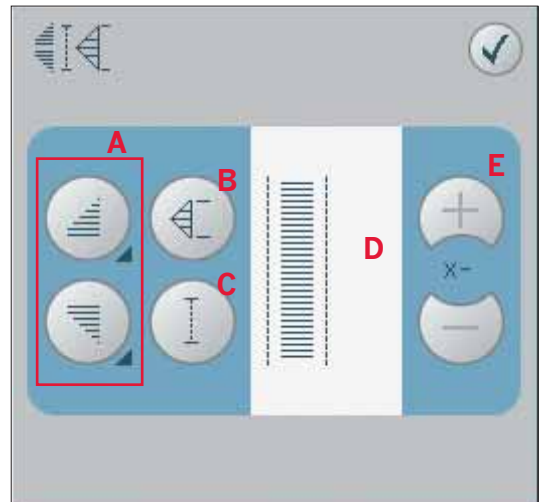
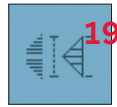


## Sewing programs (19)

### Sewing programs - overview

- A Tapering program
- B Single stitch program
- C Patchwork program
- D Preview field
- E Set number of stitch repetitions in single stitch program

*Note: Not all programs can be used at the same time. You can sew without closing this pop-up.*



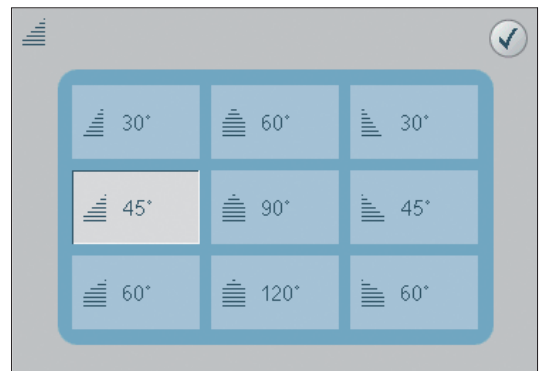
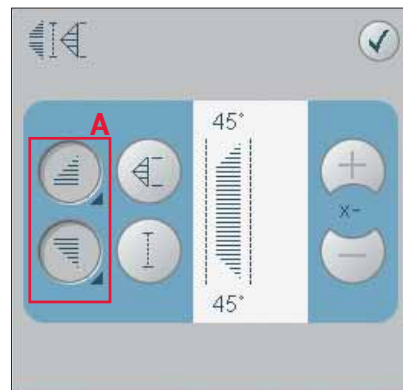
### Tapering program (A)

Tapering increases or decreases the width of the stitch during sewing to create symmetrical or asymmetrical tapers.

Activate tapering by selecting any of the tapering icons (A). The default angle is 45 degrees. Long touch the tapering icon to open a window with different angle choices. Touch the angle you want for your taper.

If tapering is deactivated and then activated again, the angle will be set to the previously selected angle.

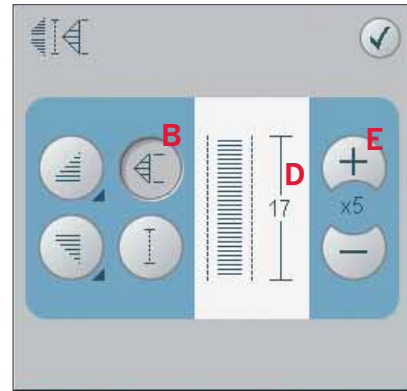
When tapering is activated at both the beginning and at the end and you start to sew, the stitch width will start at 0mm. It becomes wider until the selected stitch width is reached. Sew your desired length and press the reverse button. The width is reduced until the width is 0mm and the action indicator on the machine will be lit until the taper is finished.



### Single stitch program (B)

Activate the single stitch program by touching the icon (B). When selecting the single stitch program, you decide how many repetitions of the stitch you want to sew.

Set the number of repetitions using the icons on the right (E). The number of repetitions chosen are shown between the + and - icons. The estimated length of the repetitions is shown in the preview field (D). The machine will stop automatically when the repetitions are sewn.

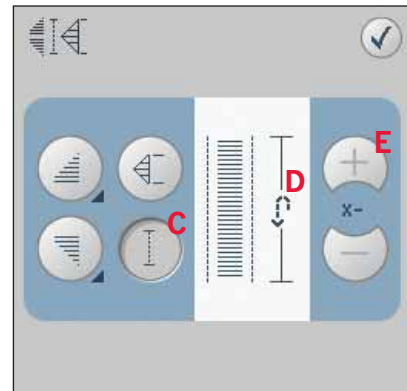


### Patchwork program (C)

The patchwork program makes it possible for you to program an exact repeatable seam length. This is very useful when quilting.

To program a seam length, activate the patchwork program (C). Sew your desired seam length and press the reverse button. The action indicator on the machine will be lit until the last repetition of the stitch is finished. This will set the length of the seam. The length of the patchwork sequence is shown in millimeters in the preview field (D).

After you have programmed the patchwork sequence, the patchwork program icon is inactive. The single stitch program is now activated instead. The programmed length of your patchwork can be adjusted using the single stitch adjustment icons (E).



### Combining Tapering and Patchwork or Single stitch programs

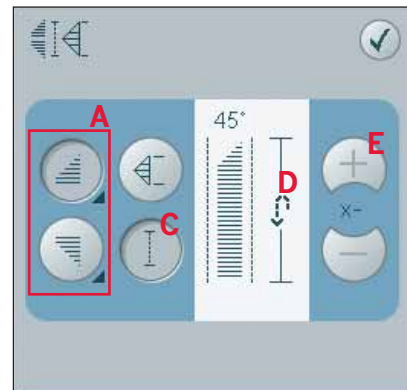
Combining Tapering and Patchwork or Single stitch programs makes it possible to repeat a tapered seam with the same length.

Activate tapering by selecting any of the tapering icons (A) then activate Patchwork by touching the icon (C). Follow the instructions for tapering on the previous page. When the reverse button is pressed the action indicator will be lit until the taper and last repetition of the stitch is finished.

The seam is now programmed and the single stitch program is activated. When you start sewing again the seam will automatically be repeated with the same length.

The length of the seam is shown in millimeters in the preview field (D). Between the + and - icons (E) the number of repetitions in the program is shown. Use the + and - icons to adjust the length of the seam.

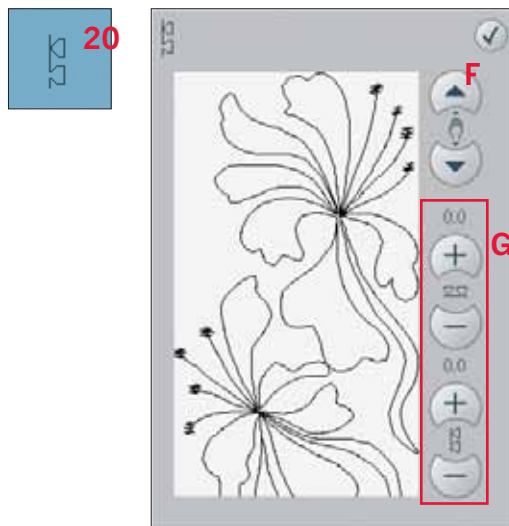
*Note: The tapering is included in the repetitions shown on the screen.*



## Balance (20)

When sewing on special fabrics or doing a special technique, the balance may need to be adjusted. Start by sewing a stitch on a piece of scrap fabric. Touch the balance icon on the option bar to open the balance window. Balance the stitch, using the + and - icons (G). Use the pan icons (F) to see the whole stitch. Change the picture on the screen to match your sewn sample. When you sew again, the balance will be corrected.

Buttonholes can also be balanced.



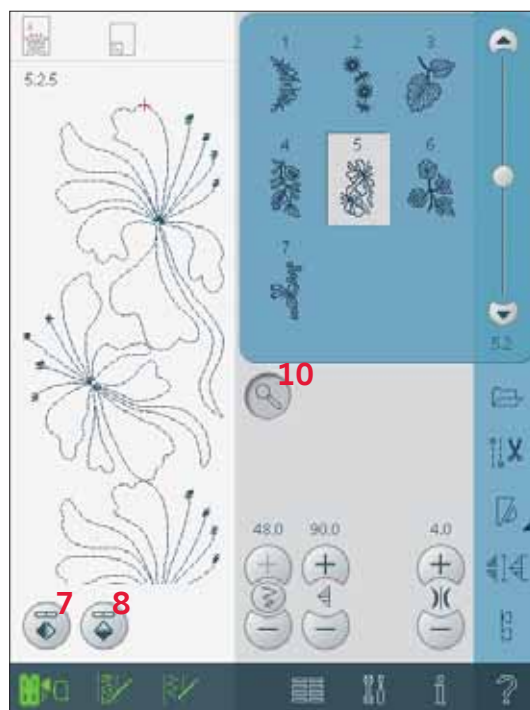
## Mirroring (7 and 8)

To mirror stitches or sequences side to side touch icon (7). For mirroring end to end touch icon (8).

## Zoom to all (10)

If the stitch or sequence is wider than what can be shown on the screen, you may use the zoom to all icon to see the whole width of the sequence.

*Note: Zoom to all is only visible if the stitch or sequence is wider than the stitch field.*



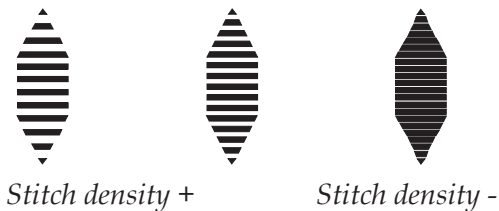


## Stitch density (14)

The stitch density control adjusts the density (the closeness of the satin stitches that make up the entire stitch). The density does not affect the actual length of the entire stitch.

Touch + to decrease the density. Touch - to increase the density.

*Note: This is often used with specialty threads and when a less dense satin stitch is desired.*



## Thread tension (15)

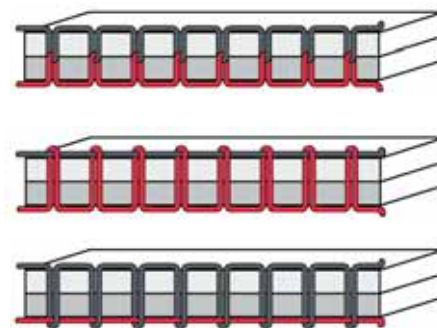
Touch + to increase, and - to decrease the needle thread tension.

For the best stitch appearance and durability make sure the needle thread tension is correctly adjusted, i.e. for general sewing, the threads evenly meet between the two fabric layers.

If the bobbin thread is visible on the top side of the fabric, the needle thread tension is too tight. Reduce the needle thread tension.

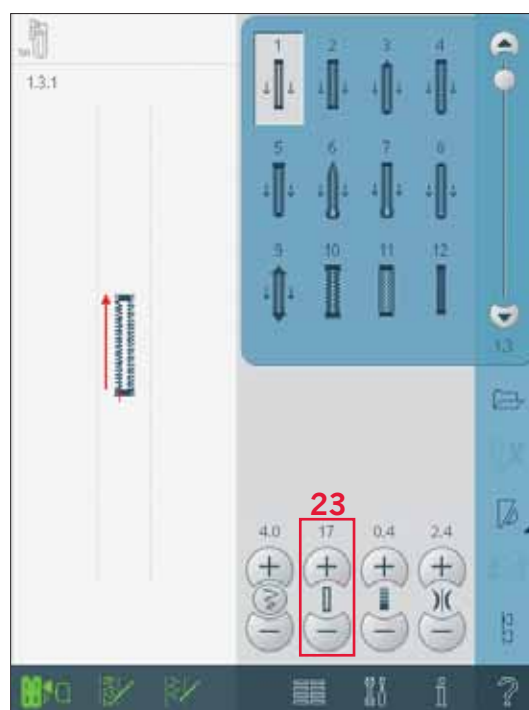
If top thread is visible on the underside of the fabric, the needle thread tension is too loose. Increase the needle thread tension.

For decorative stitches and buttonholes the top thread should be visible on the underside of the fabric.



## Buttonhole slit length (23)

Set the buttonhole slit length by using + to increase and - to decrease when sewing a buttonhole with the Sensormatic buttonhole foot.



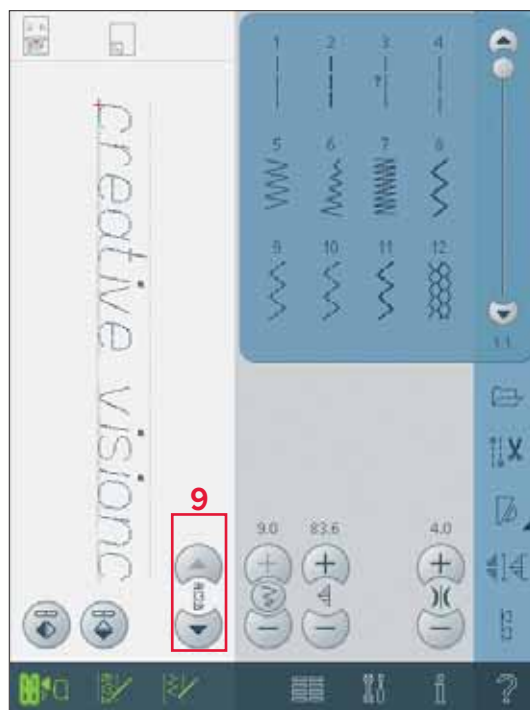
## Button stitch repetition (24)

Touch + to increase and - to decrease the number of stitch repetitions to be sewn, when sewing on a button.



## Sequence start position (9)

When sewing a sequence it is possible to start sewing anywhere in the sequence. Use the arrows (9) to step through the sequence.



## Sewing techniques

These techniques may require some special presser feet and accessories.

### Three-step zigzag stitch

Stich number 1.1.9 can be used to overcast raw edges. Make sure the needle pierces the fabric on the left side and overcasts the edge on the right side.

Stich number 1.1.9 can also be used as an elastic stitch to add elastic to pajamas, skirts and sportswear.



### Buttonholes

Buttonholes are found in category 1, subcategory 1.3 in the selection menu. You can also scroll through the list in sewing mode to find the buttonhole subcategory.

*Note: Buttonholes up to 50 mm can be sewn using the Sensormatic buttonhole foot. Both sides of the Sensormatic buttonhole are sewn in the same direction for a more even result.*

*Buttonholes over 50 mm are sewn manually in four steps with presser foot 5M.*

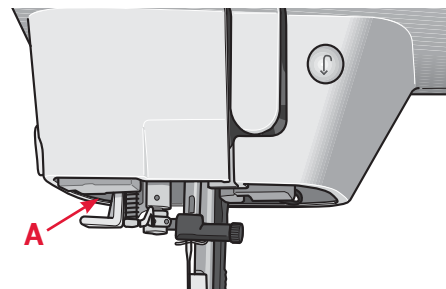
The direction of the stitches being sewn will be indicated on the screen by an arrow next to the buttonhole.

To sew a buttonhole, first attach the correct foot, then select your buttonhole. To ensure a good result, start with sewing a test sample on the fabric and stabilizer you will use.

*Note: Make sure that the IDT is disengaged.*

### Attaching the Sensormatic buttonhole foot

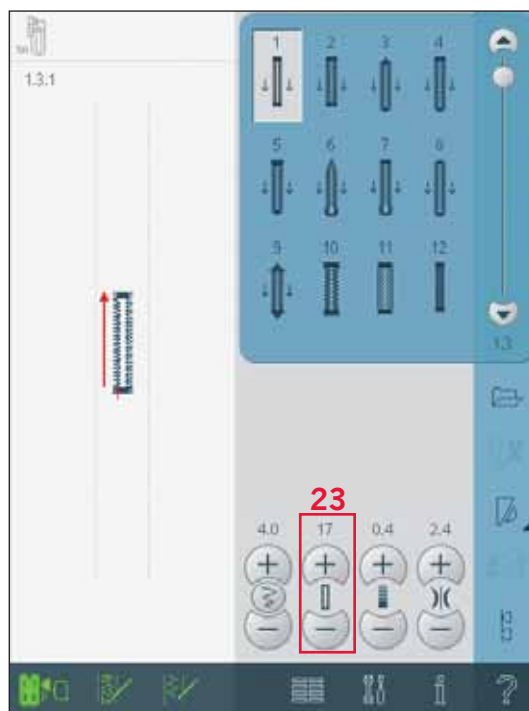
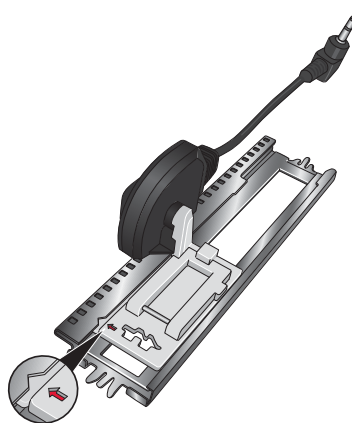
1. Snap on the Sensormatic buttonhole foot.
2. Plug the cord into the socket found to the left underside between the two LED lights (A).



## Sensormatic buttonhole

When you sew a buttonhole with the Sensormatic buttonhole foot, adjust the slit length (23) so that it is slightly larger than the size of the button. You can measure your button using the button ruler on the lid.

Set the slit length and make sure that the red arrow line up with the marking on the foot. Start sewing by pressing the foot control or start/stop button. The buttonhole will be completed automatically and the threads are cut. You can repeat the buttonhole as many times as you wish.



## Manual buttonhole

To sew a manual buttonhole, use presser foot 5M. Sew the first column as long as you want the buttonhole. Touch the reverse button. The machine sews the bartack and the second column. When the columns are aligned, press the reverse button to sew the second bartack.

## Repeat a manual buttonhole (21)

When you have adjusted your buttonhole, use the repeat buttonhole function (21), to sew identical copies. As long as that icon is selected, the machine will repeat the buttonhole over and over again. Repeat buttonhole is only visible when sewing a buttonhole manually.

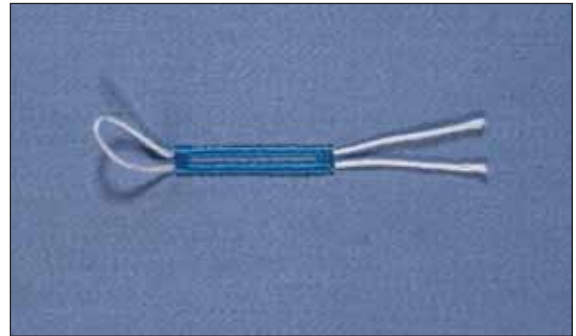
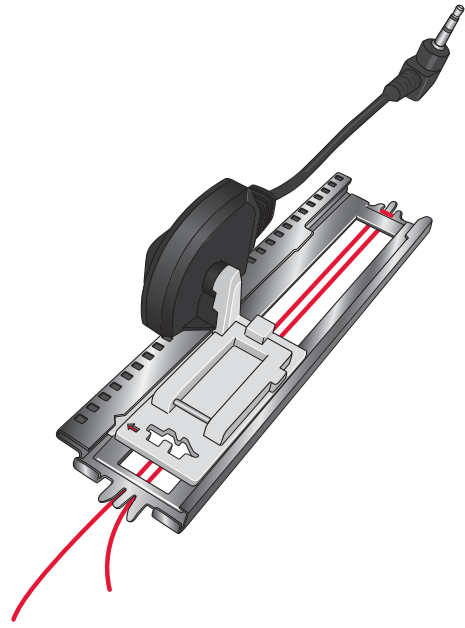
To cancel the function, just deselect the icon. The repeat function will also be cancelled if any adjustments are made.



## Corded buttonhole

Corded buttonholes that are sewn with gimp threads are more stable, durable and have a professional appearance. Use pearl cotton or a regular gimp thread.

1. Place the center of a length of gimp thread over the metal bar extending from the center back of the sensormatic buttonhole foot 5A. Pass the thread ends under the foot and pull up into the right and left guides on the front of the presser foot.
2. Snap on the sensormatic buttonhole foot 5A. Before starting to sew, make sure that the red arrow lines up with the marking on the foot.
3. After completing the buttonhole, pull the ends of the gimp thread until the loop of thread is hidden below the buttonhole bartack.
4. Thread the gimp threads into a needle and pull them to the wrong side of the garment. Tie the gimp threads and cut off the excess thread.

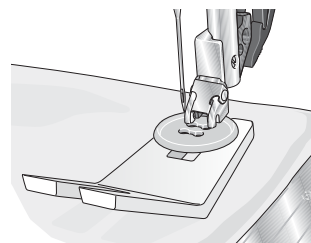
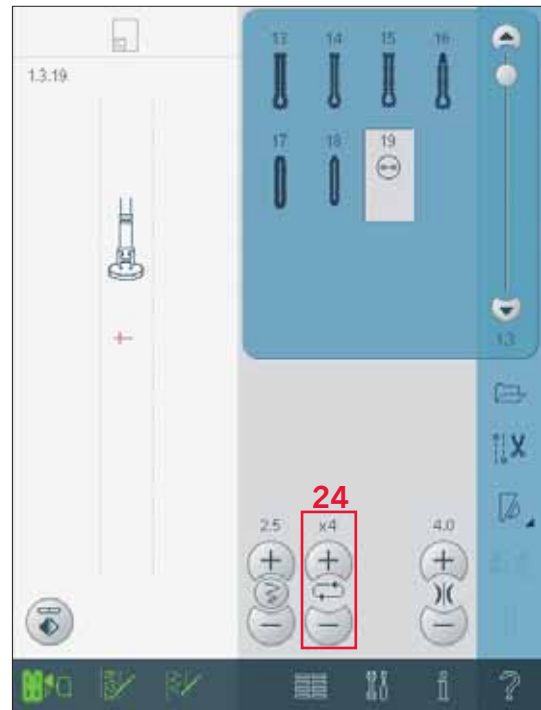


## Sew on a button

To sew on a button, remove the presser foot and select the sew on button program. The feed dogs will automatically be lowered.

Place the button under the presser foot holder. Use the mirroring icon to make sure the holes in the button are aligned with the swing of the needle and the width is appropriate for the actual button. If needed change the width between holes with the width icons.

If needed, increase or decrease the number of stitches that will fasten the button on the fabric, using the button stitch repetition icons (24). Start to sew. The machine will sew the program for you.

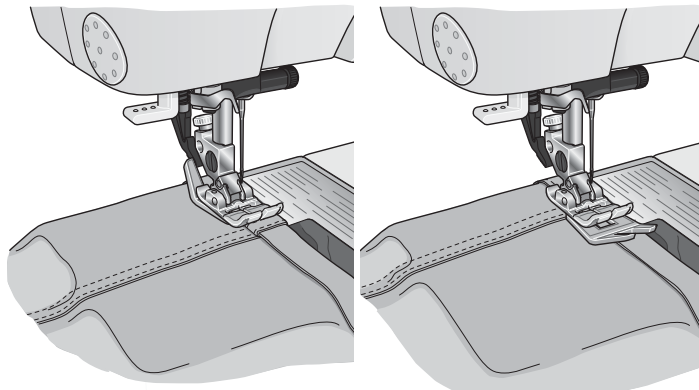


*Note: Use the multi-purpose tool to create a thread shank for your button. You can also use a sew on button foot, available as an optional accessory at your local authorized PFAFF® dealer.*

## Sewing hems in heavy fabric

When sewing over seams in extra heavy fabric or a blue jeans hem, the presser foot can tip as the machine climbs over the seam. Use the multi purpose tool to balance the height of the presser foot as you sew.

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



## Handlook quilting

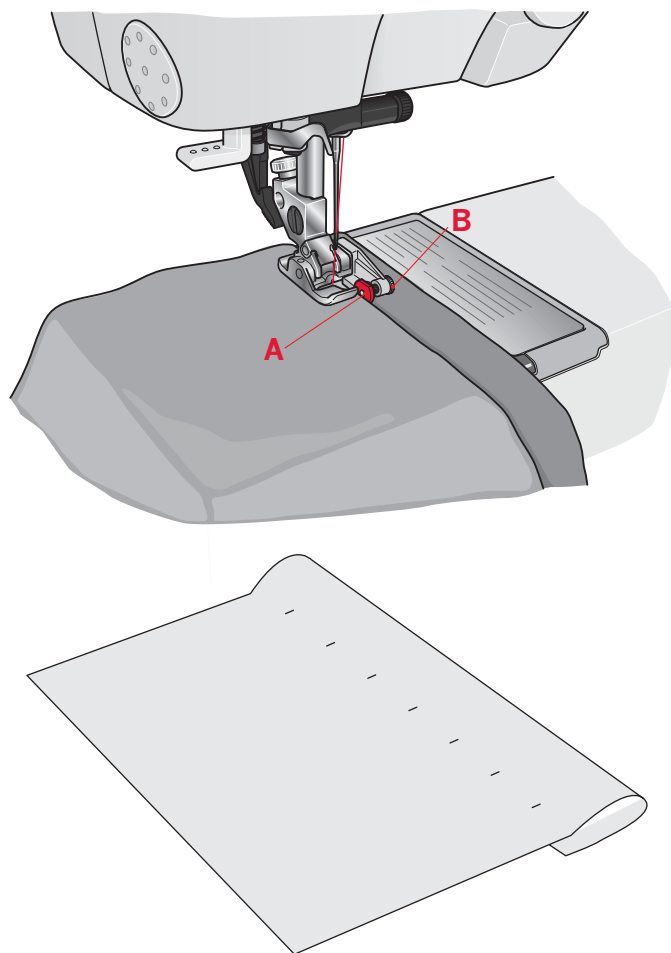
A quilt usually consists of three layers, two layers of fabric with a layer of batting sandwiched between.

1. Baste the completed quilt top to the batting and backing.
2. Thread the needle with an invisible (monofilament) thread. Use contrasting or matching rayon or cotton thread in the bobbin.
3. Snap on the recommended foot shown in the sewing recommendations view.
4. Engage the IDT.
5. When you sew the stitch you should only see your bobbin thread. Increase the needle tension as needed to produce the desired effect.

## Blindhem stitch

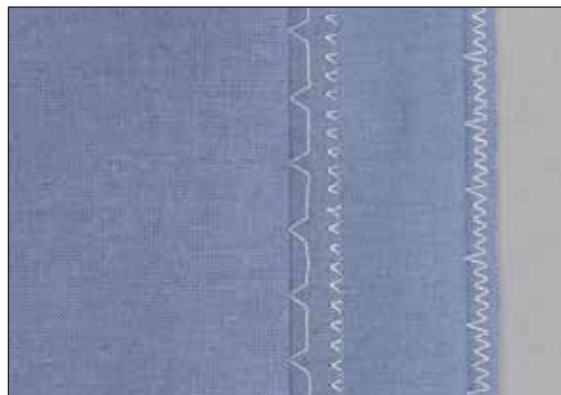
The blindhem stitch number 1.1.16 is used to make invisible hems on skirts, trousers and home decorating. Use foot number 3 with IDT.

- Finish the edge of the hem.
- Fold and press the hem allowance to the wrong side.
- Fold the hem back on itself so approximately 3/8" (1 cm) of the finished edge extends beyond the fold. The wrong side of your project should now be facing up.
- Place the fabric under the presser foot so that the fold runs along edge guide A.
- When the needle swings into the fold it should catch a small amount of fabric. If the stitches are visible on the right side, adjust edge guide A by turning adjusting screw B until the stitch that catches the hem just barely shows.



## Elastic blindhem stitch

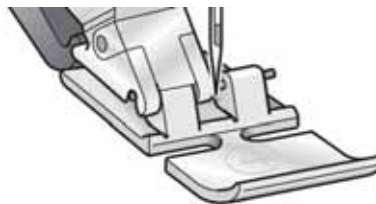
The elastic blind stitch number 1.1.17 is especially suitable for stretchy fabrics, because the zigzag in the stitch lets the stitch stretch. The hem is finished and sewn at the same time. There is no need to finish the raw edge first on most knits.



## Sewing in zippers

There are different ways to sew in zippers. Follow the directions included with your pattern for best results.

For all types of zippers it is important to sew close to the teeth of the zipper. The zipper foot 4 can be snapped to the presser foot bar on the left or right, depending on how you will insert your zipper. Then set the stitch position so that it enters close to the edge of the zipper teeth by using one of the 37 needle positions available for the straight stitch. If the presser foot is attached on the right side, the needle must only be moved to the right. If the foot is attached on the left, the needle must only be moved to the left.

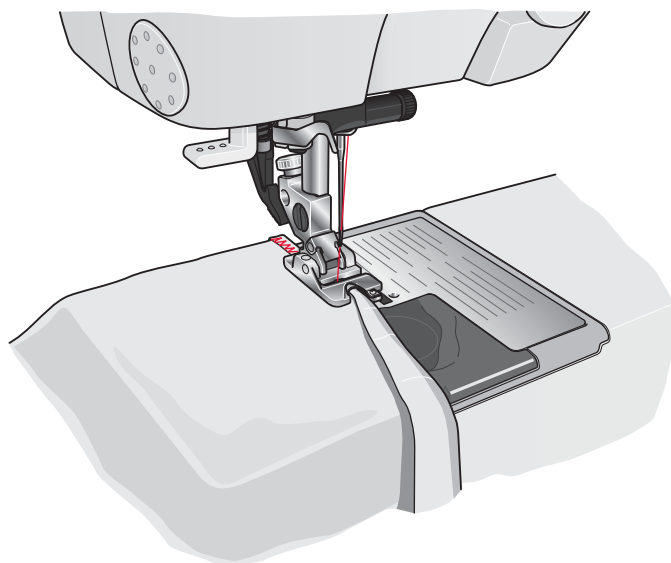


## Rolled hem

Use the rolled hem foot 7 to finish the edges of blouses, scarves, or ruffles without having to iron the edges beforehand. Hemming prevents the edges from fraying and produces a neat and durable edge finish.

- Double-fold the fabric edge (about 1/8" - 2 mm - per fold).
- Place the folded fabric edge under the rolled hem foot and sew a few stitches to secure.
- Turn the handwheel towards you until the needle is at its lowest point. Raise the presser foot and slide the fabric into the scroll of the foot.
- Lower the presser foot and while sewing, guide the fabric edge evenly into the foot. When roll-hemming, make sure the raw edge of the fabric butts against the left edge of the rolled hem foot opening. Ensure the fabric does not run underneath the right side of the presser foot.

*Note: A narrow zigzag stitch also makes a nice rolled hem on lighter stretch fabrics such as lingerie nylon.*



## Special sewing techniques

The 6th stitch category includes special sewing technique stitches like candlewicking, pearl stitches, edge stitches and four direction sewing. These techniques may require some special presser feet and accessories. This is indicated by the optional presser foot icon (A).

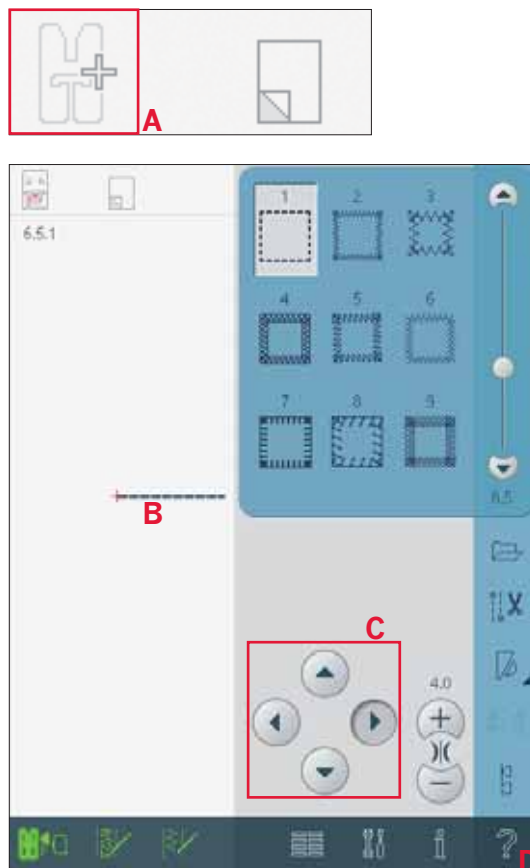
*Note: Touch Quick help (D) and then touch the presser foot icon (A) to find out which special presser foot is required for the selected stitch.*

### Four direction sewing

Some stitches in category 6 can be sewn in four directions. Use them for sewing on patches without having to turn your fabric and for decorative stitch designs. When selecting a stitch in this subcategory, the four direction icons will be shown (C).

The starting point is marked in the stitch field (B), and the actual sewing direction is indicated with an arrow. The selected direction icon is also showing the actual sewing direction. To change the direction, use the four direction sewing icons (C).

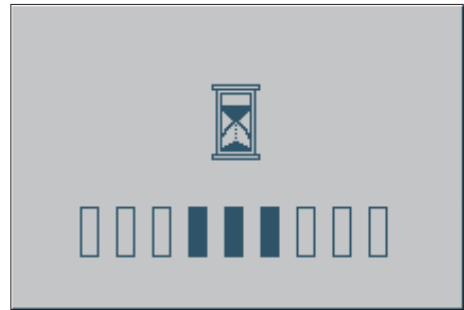
When the desired length is sewn in one direction, select the new direction by touching one of the four direction icons.



## Common sewing pop-ups

### System busy

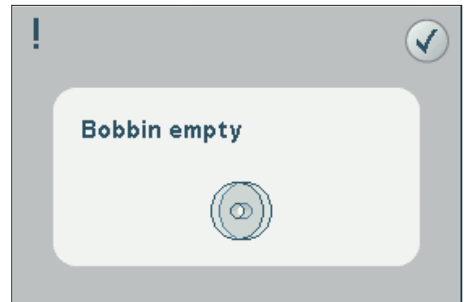
When the machine is loading, saving, moving files or anything that takes time, an hour glass is shown.



### Bobbin empty

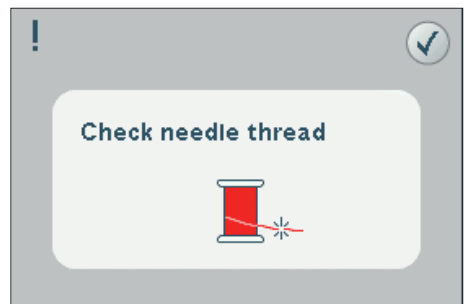
When the bobbin is almost empty, the machine stops automatically and a pop-up appears on the screen. Replace the empty bobbin with a full one.

*Note: It is possible to sew until the thread has run out. Just continue sewing without closing the pop-up.*



### Check needle thread

The machine stops automatically if the needle thread runs out or breaks. Re-thread the needle thread, close the pop-up and start sewing again.



### Remove Sensormatic buttonhole foot

The Sensormatic buttonhole foot needs to be removed before doing any of the following:

- Sewing a stitch that is not a buttonhole.
- Sewing a buttonhole that can not be sewn with the Sensormatic buttonhole foot.
- Sewing an adjusted buttonhole saved without the Sensormatic buttonhole foot in your Personal menu.

