

Embroidery mode - edit

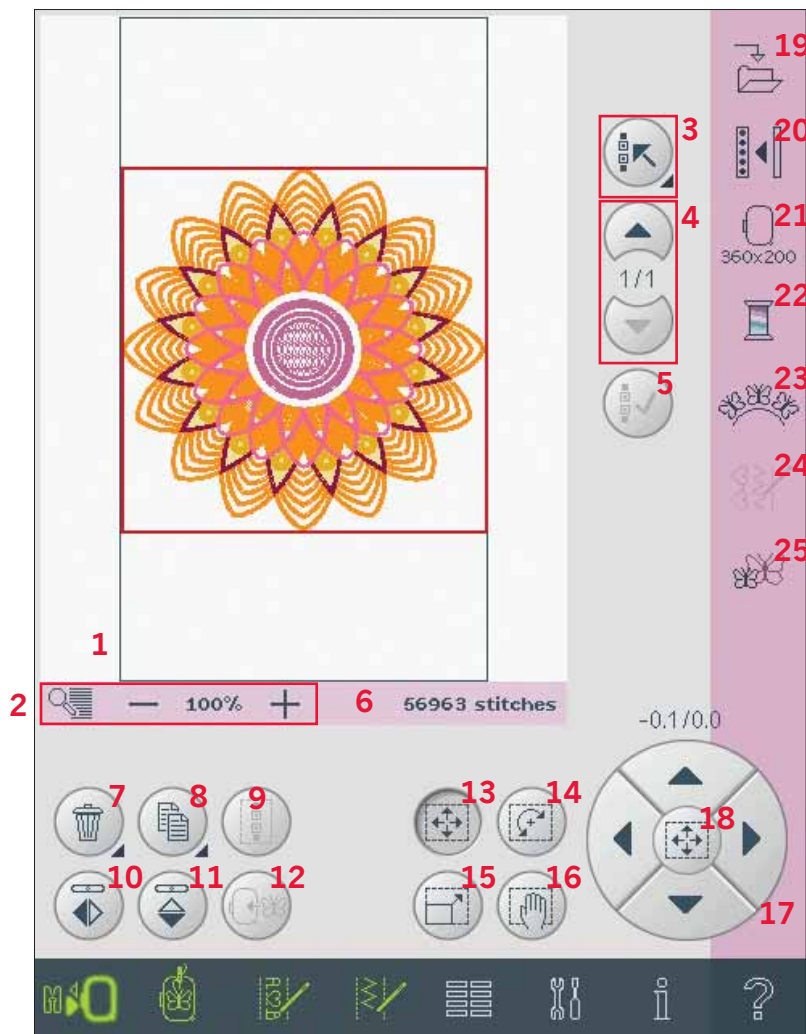


Embroidery edit

In embroidery edit you can adjust, combine, save, delete and restore designs. You do not need to have the embroidery unit connected to your machine to edit your designs. The loaded design(s) are shown in the embroidery field (1).

Embroidery edit - overview

1. Embroidery field
2. Zoom
3. Multi-select
4. Arrows
5. Select/deselect design
6. Total number of stitches
7. Delete
8. Duplicate
9. Group
10. Mirroring side to side
11. Mirroring end to end
12. Move design into hoop
13. Touch function - move
14. Touch function - rotate
15. Touch function - scale
16. Touch function - pan
17. Wheel
18. Wheel center icon
19. Save design
20. More options
21. Select hoop
22. Thread color edit
23. Shaping
24. Embroidery stitch editor
25. Resize



Load a design

To load a design, open the selection menu. Select designs (A) from the selection bar. Your personal designs will be shown in the menu. To load a design, just touch it on the screen and it will be loaded into embroidery edit.



A

Load a font

Text can be created both with embroidery fonts and stitch fonts. Load a font by selecting fonts (B) from the selection bar and touch your desired font on the screen.

Embroidery fonts are indicated by a pink background. The font will be loaded into embroidery text editor.

Stitch fonts are indicated by a grey background. The font will be loaded to sequencing. The text created will then be loaded into embroidery edit.



B

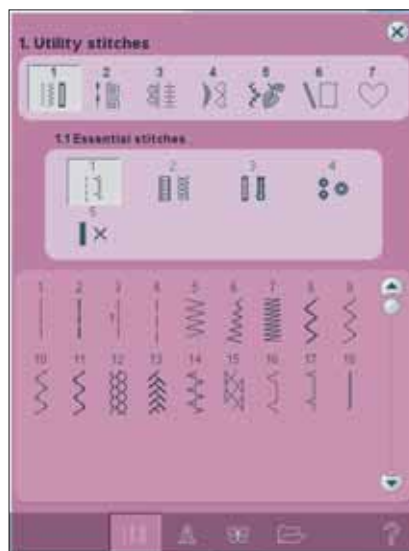
Load a stitch

To load a stitch, select stitches (C) from the selection bar. Select a category and then a subcategory. Touch your desired stitch on the screen to load to embroidery edit.

Note: You can also load designs, fonts and stitches from Files & Folders.

It is possible to load previously stored patchwork, single stitch and tapering programs into embroidery edit to stitch-out in the hoop.

If the stitch contains tapering, the stitch combination will be converted to an embroidery design.



C

Zoom

Use the + and - icons to zoom in or out in the embroidery field. Touch the zoom icon (A) to open a list of zoom options.

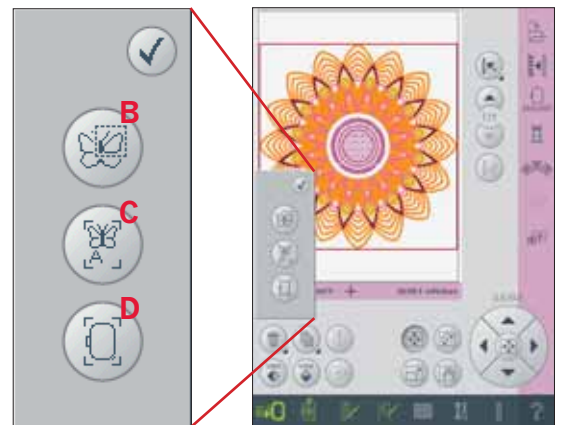
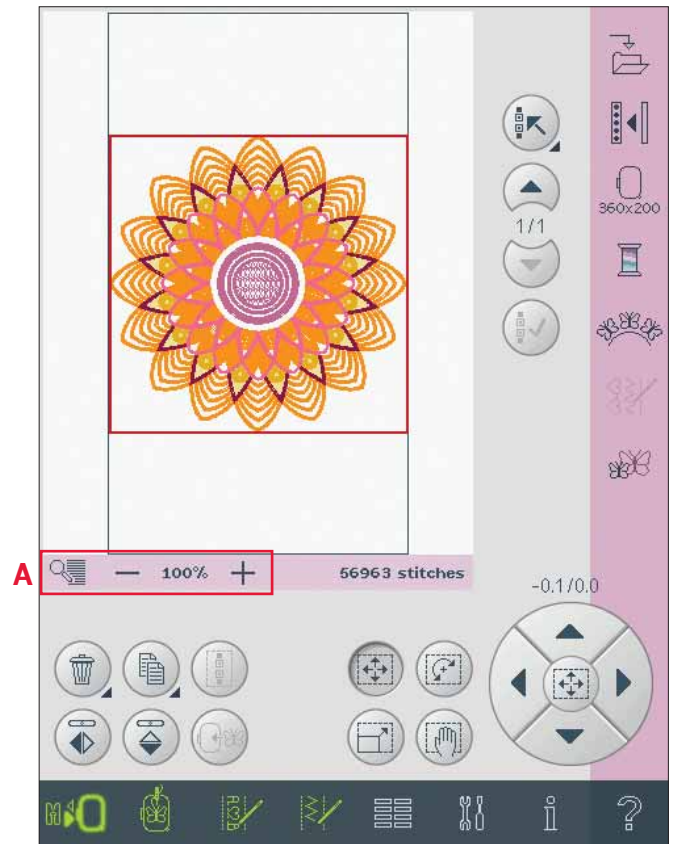
Zoom to box (B) lets you decide how much and where to zoom in the embroidery area. First, select zoom to box in the pop-up. The zoom icon starts flashing, indicating that zoom to box is active. In the embroidery field on the PFAFF® HD screen, touch and drag with your stylus to define the area to be zoomed. Zoom to box will then be deactivated.

Note: While zoom to box is active the touch functions are disabled. To deactivate zoom to box without making any selection, touch any of the touch function icons.

How much you can zoom in depends on the selected hoop.

Zoom to all (C) will show all the designs in the embroidery combination in the largest view possible.

Zoom to hoop (D) will adjust the view to show the selected hoop.



Select design(s)

When loading designs into embroidery edit, the last loaded design is selected by default.

There are two ways to select another design. Either touch it on the screen or step through the designs using the arrows (4). The selected design is outlined in red.

Multi-select (3)

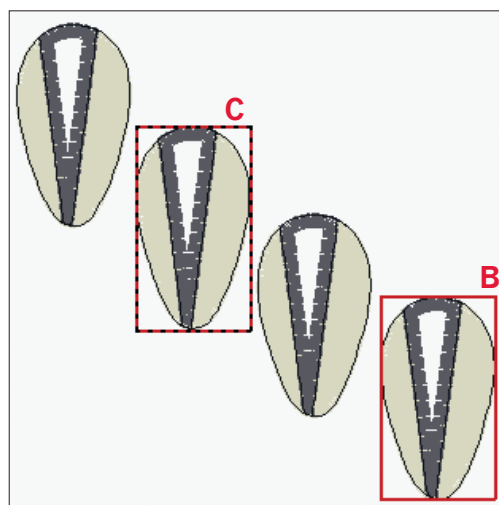
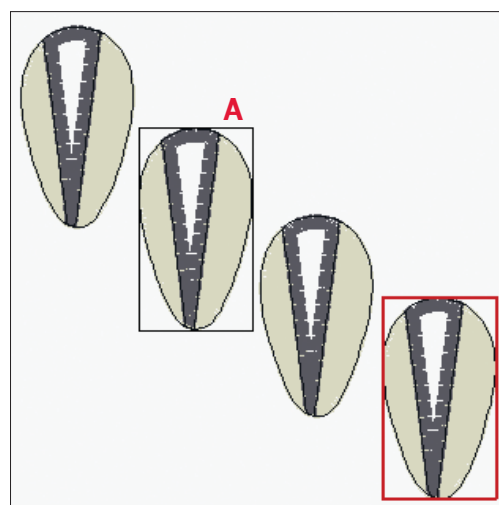
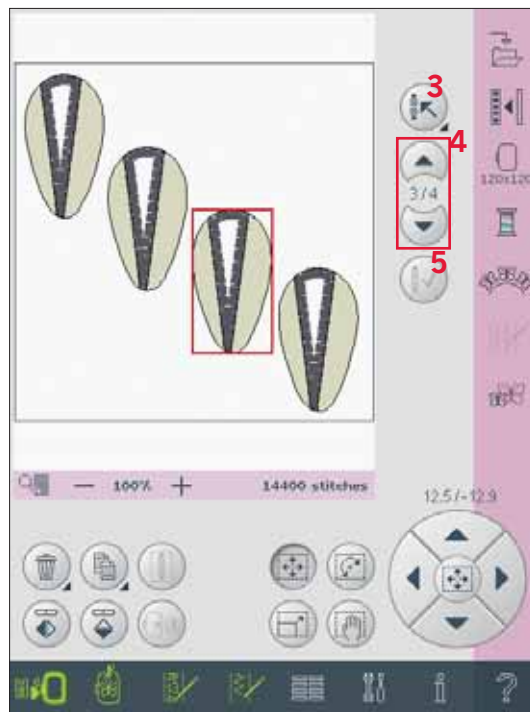
If you have loaded several designs and want to make adjustments to some of them, you can use multi-select. The multi-select function allows you to easily select some or all of your loaded designs. Start by touching the multi-select icon (3). A grey marking frame appears that is used as a cursor to highlight, i.e. mark, current design (A). Touch a design with the stylus once to mark it or step through the designs using the arrows (4) to change currently marked design. Touch the design once again or touch the select/deselect icon (5) to select it.

To add a design to the group of selected designs to work with, mark another design and then touch it with the stylus or touch the select/deselect design icon (5) to select.

A long touch on the multi-select icon will select all designs in the embroidery field. To remove a design from the group of selected designs, mark the design according to above and touch it with the stylus or press the select/deselect design icon (5) to deselect currently marked design.

Note: Currently marked design is shown by a grey frame (A). A selected design is shown by a red frame (B). If currently marked design is selected, it is shown by a combination of a red and grey frame around the design (C). Only selected designs will be affected by adjustments. The currently marked design will remain unchanged unless it is selected.

When several designs are loaded at the same time, the multi-select function is automatically activated and all of the loaded designs will be selected.



Adjustments

Delete (7)

When touching the delete icon, the selected design(s) will be deleted from the embroidery field. If more than one design is selected, a pop-up window will ask you to confirm the deletion.

Long touch the delete icon to delete all. A pop-up window for confirmation will appear.

Duplicate (8)

Touch the duplicate icon to make a copy of the selected design(s).

If you want more than one copy, long touch the icon and a pop-up will open where you can enter the desired number of copies.

Group (9)

When the group icon is touched, the selected designs on the screen will be grouped together. Adjustments made will affect all designs in the group. The order of the designs might be changed when grouping.

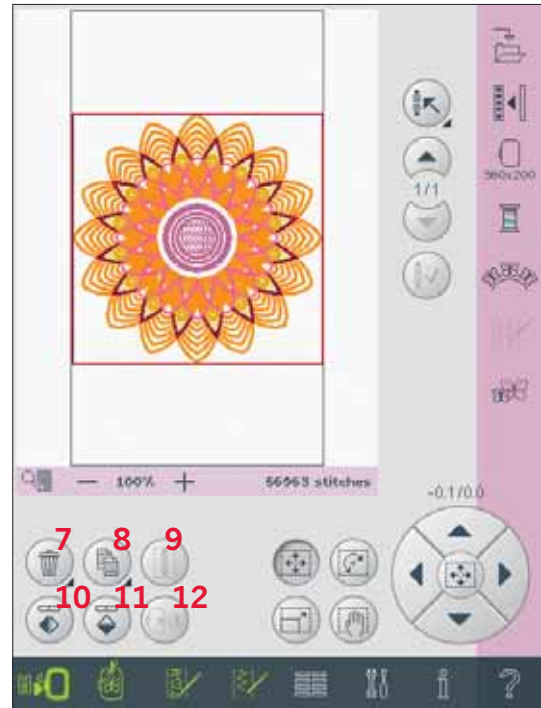
To ungroup, just deselect the icon.

Mirroring (10 and 11)

To mirror a design side to side, touch icon (10) and for mirroring end to end, touch icon (11).

Move design into hoop (12)

This is used to move any design that is outside the hoop area into the hoop area. The design will be placed as close to the previous position as possible.



Touch functions

You can use your stylus to make adjustments directly on screen, by touching and dragging in the embroidery field. You can pan, move, rotate and scale, depending on which touch function is active. You can also use the arrows in the wheel (17) to fine tune.

Move (13)

When move is active, you can move the design(s) anywhere in the embroidery field. The numbers above the wheel show in millimeters how far the design has been moved from the center of the hoop, both horizontally and vertically.

Touch the wheel center icon (18) and the design(s) will be moved to the center of the hoop.

Rotate (14)

When rotate is active, the selected design(s) will be rotated around the center point of the selected design(s).

Use the arrows in the wheel to rotate the design(s) in one degree steps. Each touch of the wheel center icon (18) will rotate the design(s) 90 degrees clockwise.

Above the wheel you can see how many degrees the design(s) has rotated from its original position.

Scale (15)

When scale is active, you can increase or decrease the design or a group of designs up to 20%.

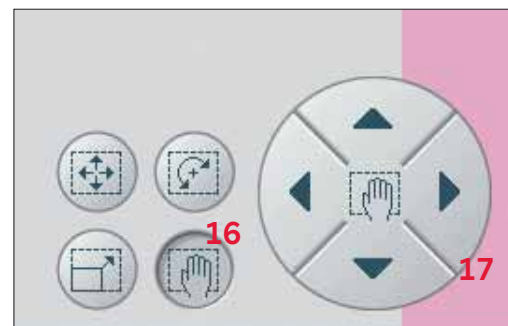
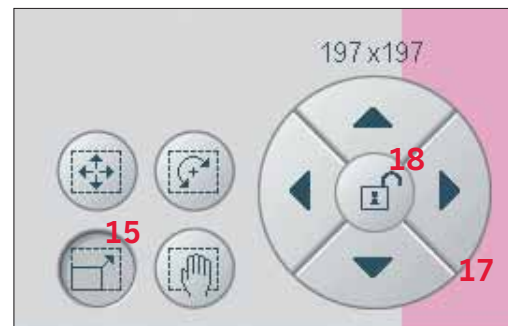
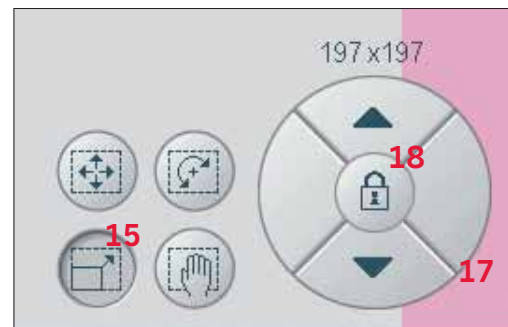
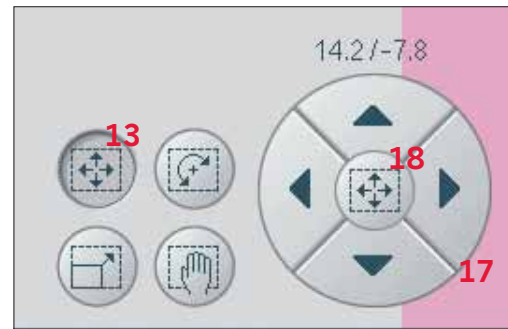
By default, the proportions are locked. This is shown with the closed padlock in the wheel center icon (18). To unlock, just touch the padlock. Height and width can now be changed individually.

If you move the stylus on the screen towards the center of the selected design(s), the size will decrease. If you move the stylus from the center of the selected design(s), the size will increase. Use the wheel to fine tune.

Note: To increase or decrease a design more than 20%, use the resize function.

Pan (16)

When pan is active, you can pan the embroidery field in the zoomed view.



Option bar

Save design (19)

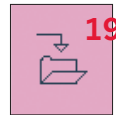
Touch the save design icon (19) to save the design you are working with. A new window will appear where you can choose to save your design in either your personal files (A) or personal designs (B) for quick and easy access. You can also save to a connected external device (C). Touch the icons (A, B, or C) to select where to save. Touch the list view icon (D) to show the files in the current folder listed in alphabetical order.

Design combinations can also be saved exactly the same way. When the combination is reloaded again, each combined part can still be edited separately.

File name

The default name will be the same as first design that was loaded. If an embroidery text or a stitch is saved, the default name will be NewDesign1.vp3, the next NewDesign2.vp3, etc. To change the name of the file, touch the re-name icon (E) and enter the name in the pop-up that will be opened.

Touch OK to confirm the save. If you want to abort the save, touch cancel and you will return to embroidery edit.



More options (20)

Grid (A)

Touch the grid icon (A) to activate/deactivate a grid on the embroidery field. The grid is used as a guide when combining or placing designs. The distance between the grid lines equals 20mm. As you zoom in on the embroidery field, the distance between these lines reduces to 10mm and 5mm, indicated with lighter lines.

Background color (B)

Touch the background color icon (B) to change the active background color in the embroidery field. A window will appear where you can select from 64 different colors.

Background fabric (C)

Touch the background fabric icon (C) to activate/deactivate the background fabric. When activated a fabric texture will be shown in the embroidery field. To change the color of the fabric use the background color icon (B).

3-dimensional view (D)

Touch the 3-dimensional view icon (D) to turn on or off a 3-dimensional view of the designs in the embroidery field.

By default, the designs are displayed in 2-dimensional view in the embroidery field. In 2-dimensional view, the designs load faster on the screen and it is easier to see the color blocks in the design. The view setting remains as selected even when you turn your machine off.

Move to park position (E)

Touch the park position icon (E) to move the embroidery arm to park position for storing the embroidery unit.

The hoop must be removed first, to avoid damage.

Restore current state (F)

Touch restore current state (F) to automatically move from embroidery edit to embroidery stitch-out. When the design is reloaded, you will start to embroider where you stopped.

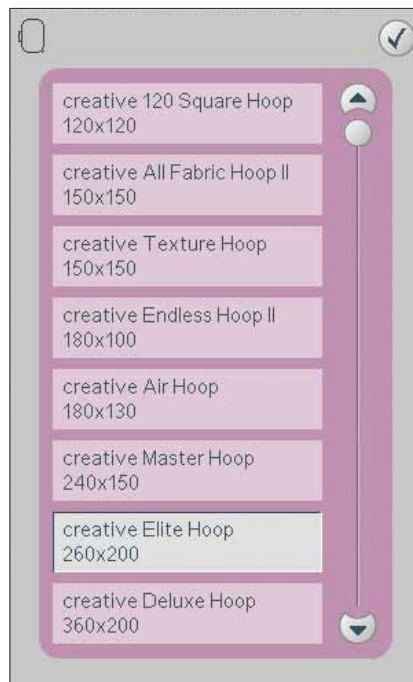
If any design is loaded to embroidery edit when you restore current state, it will be deleted.



Select hoop (21)

To select the correct hoop size, touch the hoop selection icon (21). A pop-up will appear with the hoop choices, including hoops that are available to purchase from your authorized PFAFF® dealer. After selecting your hoop size, the pop-up will close automatically.

Note: Hoops that can only be used with the 350x360 size embroidery unit are indicated with a darker background.



Thread color edit (22)

In thread color edit you can edit the colors in your design. Touch the thread color edit icon (22) to open.

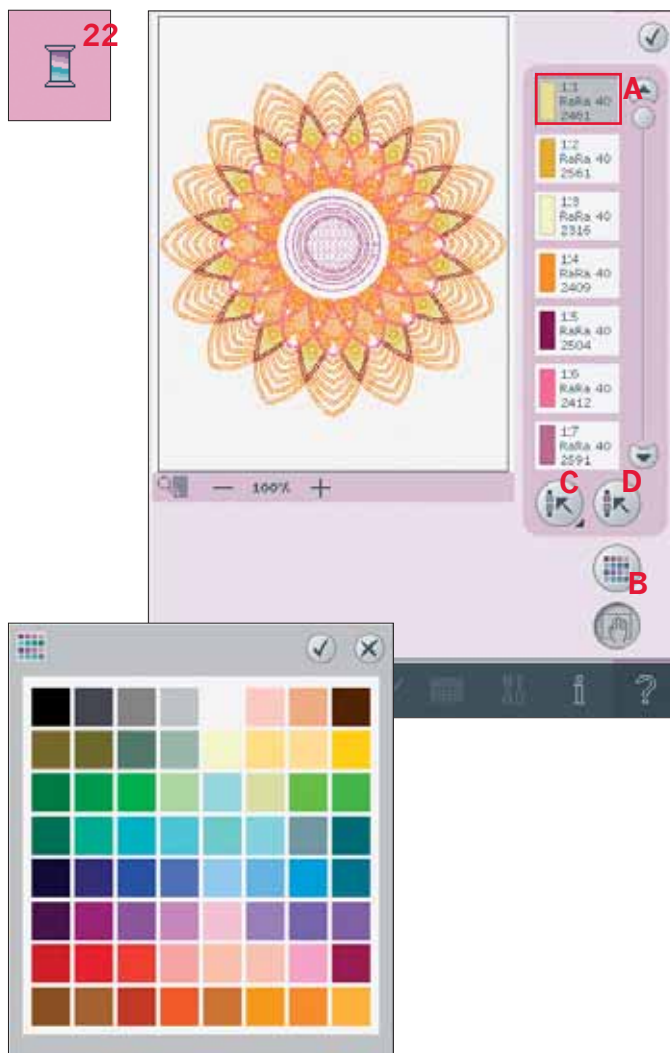
Example (A): 1:2, RaRa 40, 2561 means the second thread color in the first loaded design is RobisonAnton 40 weight, thread number 2561.

Touch the color you want to replace in the color list. Then touch the quick color change icon (B) to open a window with 64 different color choices. Select your new color by touching it and touch OK. The window will close and your new color will be shown in the color list.

Multi-select (C) and select equal (D)

If you want to change more than one color block at a time, use the multi-select icon (C). Touch the multi-select icon to activate the function, then touch the color blocks you want to select. Long touch the multi-select icon (C) to select all color blocks in the color list. To deselect a color block, touch it in the list. Touch the multi-select icon again to deactivate the multi-select function. Use the select equal icon (D) to automatically select all color blocks with the identical thread color(s) and the currently selected color block(s). When the select equal icon is used and more than one color block is selected, multi-select is automatically activated.

The selected color block(s) will be highlighted in the embroidery field.



Shaping (23)

Shaping is a unique way to use your beautiful 9mm stitches, sequences or even embroidery designs to form new shapes.

Shaping overview

- A Select shape
- B Zoom
- C Delete/Duplicate last object
- D Select control points
- E Select spacing
- F Select line positioning
- G Select side positioning
- H Select design angle
- I Control points
- J Baseline

Note: Duplicate and delete icons are not visible when shaping an embroidery text. If shaping text, you can use embroidery text editor to adjust your text while shaping. Read more on page 8:20.

Select shape (A)

Select a shape by touching it in the list (A).

The stitches or designs will be placed along the baseline in the order that they were loaded into embroidery edit. The stitches or designs will follow the line in the direction indicated by a small arrow in the icons in the select shape list.

Note: When selecting a new shape, all your custom adjustments to the shape will be set to default.

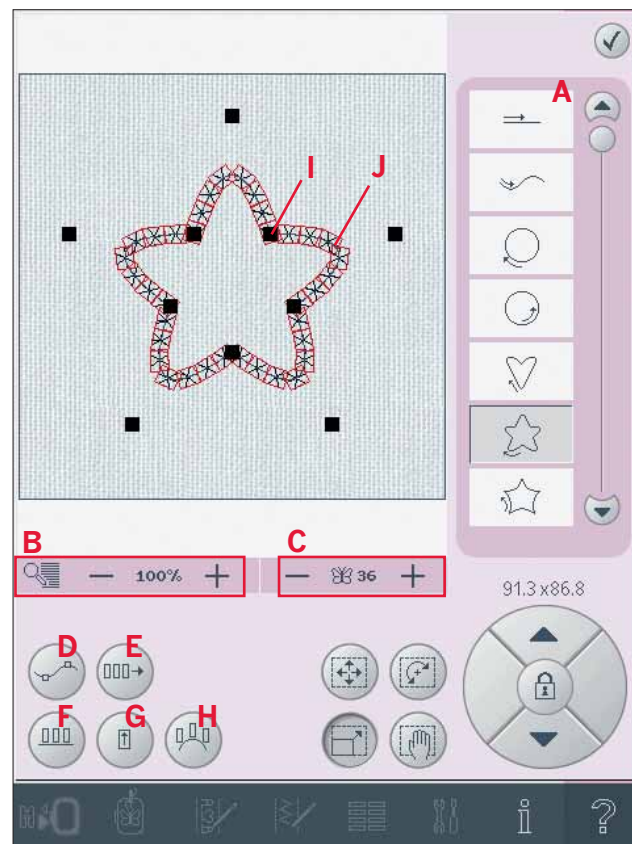
Delete/Duplicate last object (C)

If you want to delete the last object in the shape, touch the - icon. Only the last object in the shape will be deleted.

If you want to add a copy of the last object, use the + icon. The last object in the shape will be duplicated and the copy will be added after the last object on the baseline.

Note: If several designs are grouped before opening Shaping, the whole group will be duplicated or deleted.

If there are too many objects in the shape, the baseline will be red. Enlarge the shape or delete some objects until the objects fit in the shape. The baseline will change to normal color again.

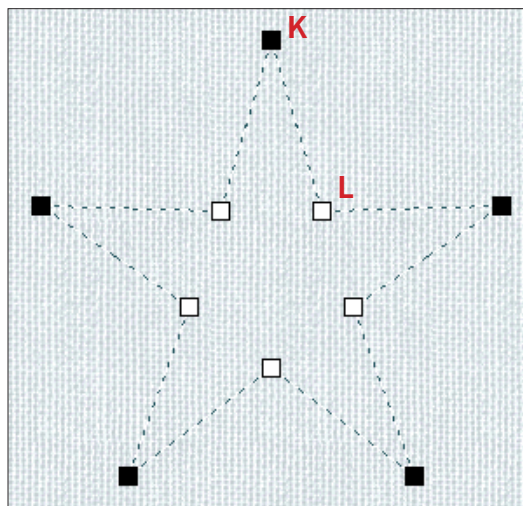


Definition of a control point

A control point is a point affecting the selected shape. Each shape is built by several control points. Together they define what the shape will look like.

A selected control point is marked with a filled square (K). An unselected control point is marked with an outlined square (L). All control points are visible when you are editing the points.

By adjusting the control points, the selected shape can be changed with unlimited possibilities.

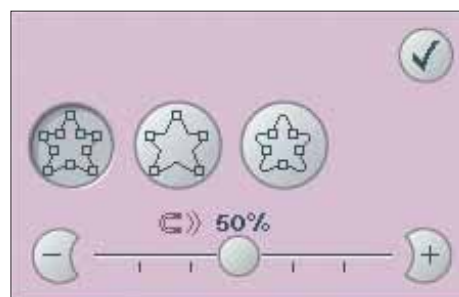
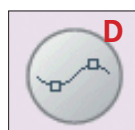


Select control points (D)

Touch the select control points icon (D) to open a pop-up. For each shape, there are pre-defined sets of control points. Select all or some of the control points.

When you have selected a set of control points, you can make adjustments to the shape. Use the touch functions or your stylus to move, rotate and scale your selected control points. The adjustments made will only affect the selected control points.

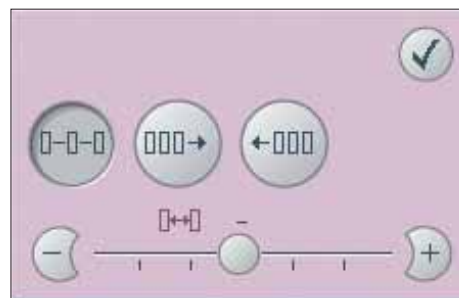
Use the slider to increase or decrease the attraction percentage of the selected control points. The higher the attraction percentage, the closer the baseline will be to the selected control points.



Select spacing (E)

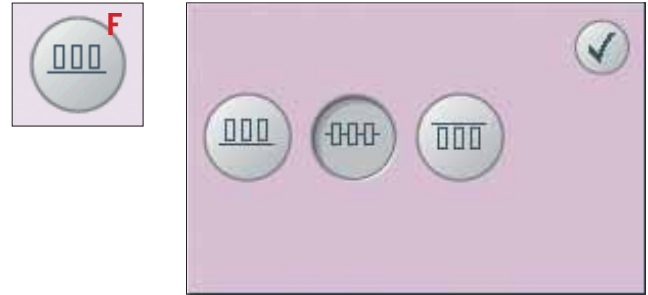
Touch the select spacing icon (E) to open a pop-up. The default setting spaces the objects evenly along the baseline (placing the same distance between each).

You can choose left or right justification on the baseline. The gap between the objects can be increased or decreased by using the slider. The actual gap is shown above the slider in the pop-up.



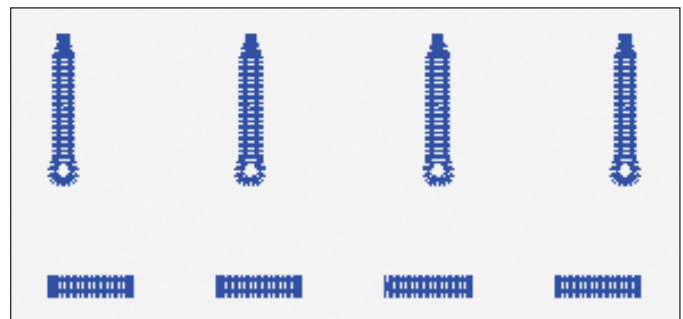
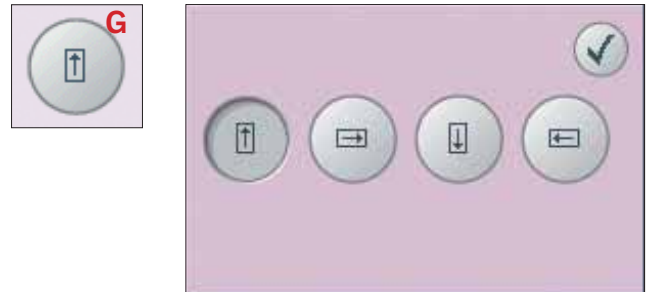
Select line positioning (F)

Touch the select shape line positioning icon (F) to open a pop-up. You can choose to place the objects on the top of the baseline, or on the baseline or under the baseline. The selected positioning will affect all objects on the shape.



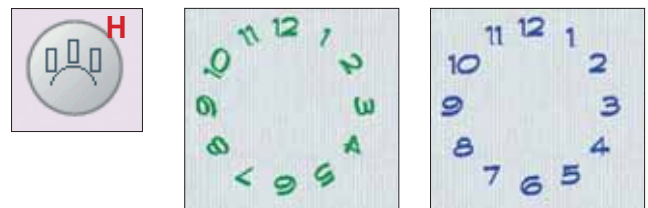
Select side positioning (G)

Select which side of the objects that shall be positioned on the baseline. Touch the select side positioning icon (G) to open a pop-up. You can choose to place the bottom, top, right or left side of the objects along the baseline. The selected setting will affect all objects on the actual shape.



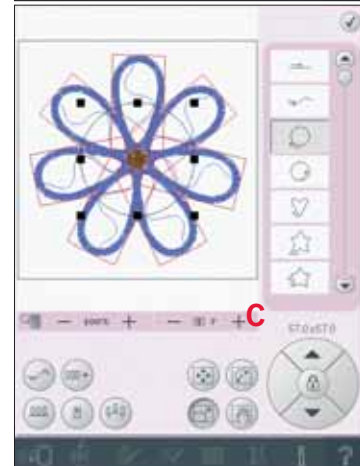
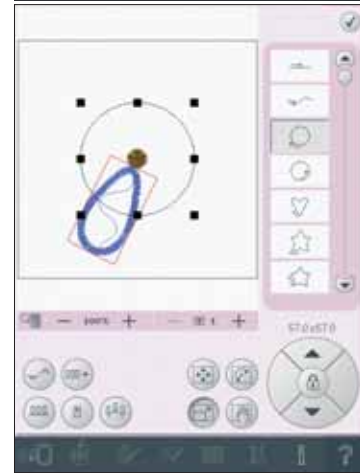
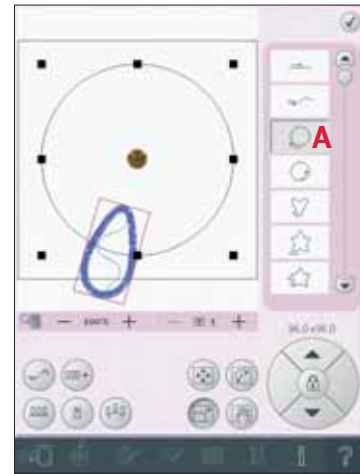
Select design angle (H)

Decide how to align the objects on the baseline. Touch the select design angle icon (H) to toggle between objects placed parallel to the baseline or to keep the current angle. The setting affects all objects on the shape.



Shaping - example

1. In embroidery mode, open the selection menu and select design 052.vp3 to load to embroidery edit. Open the selection menu again and load 056.vp3. Center 056.vp3 by touching the wheel center icon when the touch function - move is active.
2. Select 052.vp3. Open Shaping.
3. Select the clockwise circle in the list (A).
4. Select the touch function - scale. Either touch and drag on the screen, or use the arrows in the wheel to decrease the size to 57x57mm. The size is indicated just above the wheel.
5. Add six copies by touching the duplicate last (+) icon (C).
6. Close Shaping. Switch to embroidery stitch-out by touching the embroidery toggle icon. Start to embroider.



Automatic stitch building - example

1. In embroidery mode, go to sequencing and then open the selection menu. Select the decorative stitch 4.5.21.
2. Duplicate the stitch and mirror the copy side to side. Close sequencing to load to embroidery edit. Set hoop size to 360x200.

3. Open Shaping.
4. Select the line shape in the list (A).

5. Select the touch function - rotate. Touch the wheel center icon once to turn 90 degrees.
6. Add two copies by touching the duplicate last (+) icon (C).
7. Open the select spacing pop-up (E) and select left justification. This will place the objects close together. Close the pop-up.

8. Select the touch function - scale. Adjust the length of the sequence to 240mm.
9. Close Shaping. Switch to embroidery stitch-out by touching the embroidery toggle icon. Start to embroider.



Embroidery stitch editor (24)

Sequences and stitches can be adjusted in Embroidery stitch editor. You can also adjust your own created sequence or stitch, loaded to embroidery edit (see chapter 5 and 6).

Note: When a stitch or a sequence is loaded into embroidery edit, tie-offs are automatically inserted at the beginning and at the end. The tie-offs are only visible when you open the stitch or sequence in sequencing.

You can activate the grid in embroidery edit to be able to join the stitches with precision. Enter embroidery stitch editor to adjust your sequence or stitch.

Adjust stitches

Open Embroidery stitch editor to adjust the stitches. The adjustments will affect the stitch just like they do in sewing mode. If more than one sequence is inserted, you can toggle between them using the arrows (A).

Use the + and - icons to increase or decrease the stitch width (C) and stitch length (D).

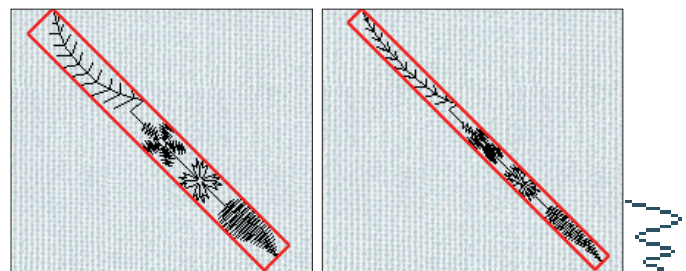
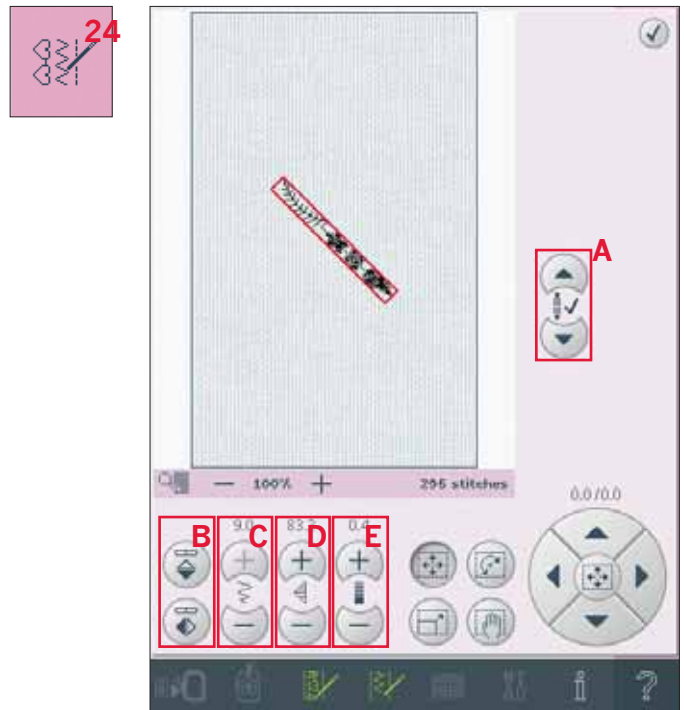
Density (E) can be changed if satin stitches are inserted.

When mirroring (B), the stitch will be mirrored within its own area. It will not affect the position of the stitch like when mirroring is used in embroidery edit.

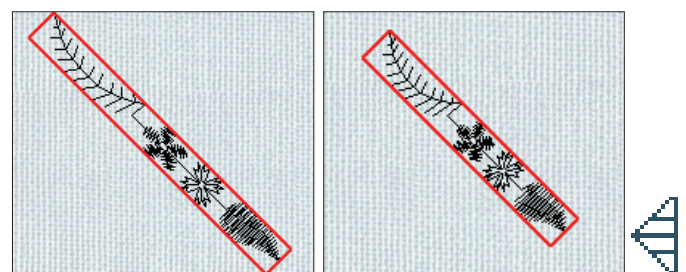
You can also use the touch functions to make adjustments. The selected stitch will be affected as if it was a design.

Note: If you make adjustments to a sequence or stitch in Embroidery stitch editor, you can still use sequencing or Stitch Creator to modify it.

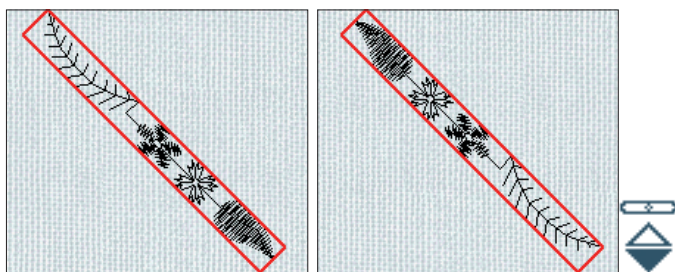
When returning to embroidery edit, the sequence or stitch will be replaced by the adjusted one.



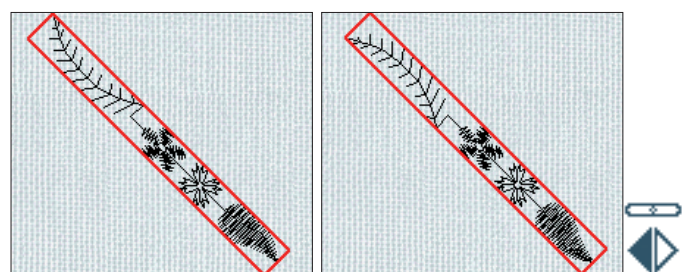
Decrease width of the selected stitch



Decrease length of the selected stitch



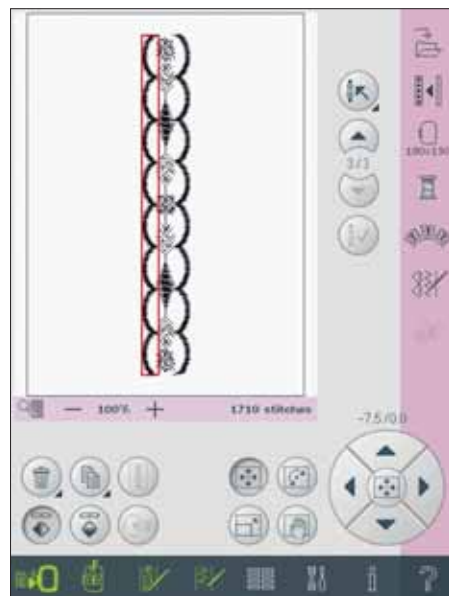
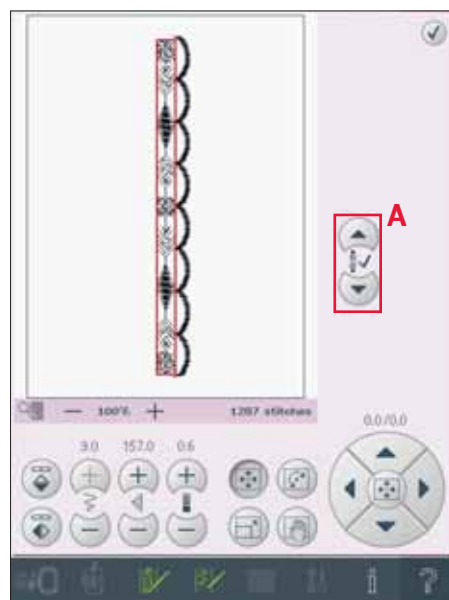
Mirroring the selected stitch end to end



Mirroring the selected stitch side to side

Embroidery stitch editor - example

1. Enter embroidery edit.
2. To create a sequence, open sequencing by touching the icon on the task bar (F). Select stitch number 4.3.30, then 4.3.17, 4.2.2, 4.3.17. Mirror the last inserted stitch end to end. Insert stitch 4.3.26, 4.3.17, 4.2.2, 4.3.17. Mirror the last inserted stitch and finally add stitch 4.3.30.
3. Close sequencing by touching the icon on the task bar. The sequence is loaded to embroidery edit.
4. Deselect the sequence by touching outside the design on the screen, or step by using the arrows.
5. Open sequencing once again. Select stitch number 4.1.2.
6. Long touch the duplicate icon. In the pop-up that appears, enter 7 and touch ok for a total of eight copies.
7. Close sequencing to load the second sequence to embroidery edit.
8. Touch the wheel center icon when move is selected, to move the new sequence to the center of the hoop. Move 7.5mm to the right.
9. Open Embroidery stitch editor (24).
10. Decrease the width of the second sequence to 8mm.
11. Toggle to the first sequence, using the arrows (A). Increase the length of the sequence to fit the second sequence, 157.0mm. Increase the density to 0.6.
12. Close Embroidery stitch editor. Select the second sequence and duplicate. Mirror side to side. Center the copy and move 7.5mm to the left of the first sequence.



Resize (25)

Resize can reduce an embroidery design up to five times smaller than the original design or increase it up to eight times larger than the original design. The machine recalculates the number of stitches in the design so that the original stitch density remains.

Note: To reduce or increase the size less than 20%, use scale touch function.

Resize adjustments

Select the design you want to resize. Open the resize window (25).

Adjust the design size by touching and dragging on the screen or by using the wheel. The size of the design is shown in millimeters above the wheel. To return to the original size, touch the wheel center icon (18).

Adjust the placement of the design in the hoop, using move (13) and rotate (14).

Retain fill type (A)

All fill areas in an embroidery design are made in a specific type to get the best effect. When enlarging or reducing a design the stitches in the fill area will be affected.

There are two ways to handle the fill type and style in the design to be resized. The default setting will not retain fill type. This is the fastest way to resize a design, however the fill areas in the design may look different than the original.

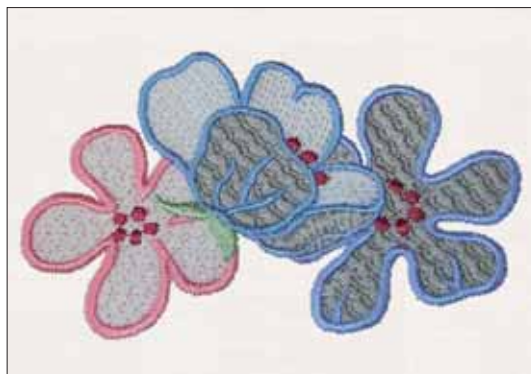
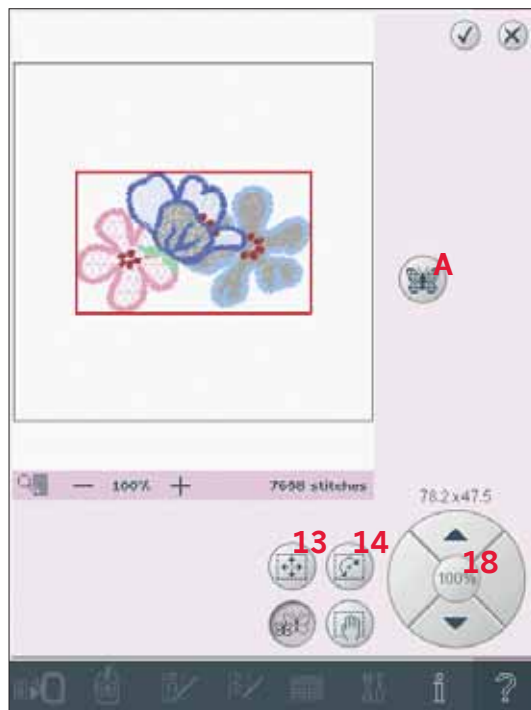
When retain fill type is selected, it will take longer to resize but the process will retain the fill types and styles within the design areas as is best for the design. If greatly enlarging a design, retain fill type is recommended for best results.

To start resizing

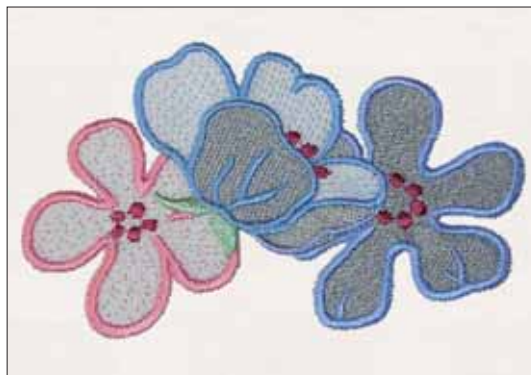
When you are satisfied with the design size and placement, touch OK to close the window and start resizing. An hourglass on the screen during resizing shows that it is working. When finished the resize window will close.

Touch cancel to return to embroidery edit. The resizing process will stop.

Note: Stitches and sequences cannot be resized.



Retain fill type



Do not retain fill type

Important resize information

Since designs are digitized for a specific design size, it is important to consider the following information about resize. Always embroider a test sample of your resized design before embroidering on a project.

- Resize is always proportional. If you reduce a design 30%, it will be 30% smaller in both length and width. If the design has a lot of details some of it may be lost or distorted, and/or it can be very dense. Some designs should not be reduced more than 25% if they have too many details.
- Designs can be increased larger than the hoop, so ensure that the design fits in the hoop. If the design is larger than hoop size, the machine will not be able to embroider it.
- If you are enlarging a design too much, you may see stitch irregularities. Start over and resize to a smaller percentage for a better result. Depending on the memory left in the machine, you may find some designs too complex to resize in the machine. Please use 4D™ software to resize very large and complex designs. It is available to purchase from your local authorized PFAFF® dealer.
- When repeating resize on a design that has been resized but that has not yet been saved, it will always go back to the original design for a new resizing. This is to ensure the best possible stitch quality. If a resized design is saved, and then resized again, it can cause stitch irregularities. For the best resize result, always start with a design in original size.
- Depending on how much you resize a design and on how many stitches it contains, the resize process will take a longer or shorter time. Resizing a very large or complex design may take a few minutes. Once you touch OK, you cannot cancel and you need to wait for the process to be finished.
- It does not matter in which order you adjust the size, rotation, mirroring etc. When you touch OK, your machine always resizes first and then adds the rotation, mirroring etc.
- It is recommended that you scale instead of resize for changing a design less than 20% and also for designs digitized with single or triple stitches, such as cross stitch embroideries. In this case, you do not want to add stitches to the design, you only want to make the design larger or smaller by making each original stitch larger or smaller.

Embroidery text editor

To open embroidery text editor

Embroidery text editor opens automatically when you are selecting an embroidery font in the selection menu.

You can also open embroidery text editor by adjusting an existing text already in embroidery edit. Just select the text and touch the sequencing icon (A) on the task bar.

Note: If the text is created of stitch fonts, sequencing will be opened instead of embroidery text editor.

To use embroidery text editor

Use the stylus and touch the letters you want to add to the text. The text is shown in the text area (B) with the cursor at the active letter. Use the arrows (C) to step forward and backward.

You can change the font and the size of the text by touching the change font icon (E). A preview and the name of the selected font is shown in the preview area (F).

Add a letter into a text

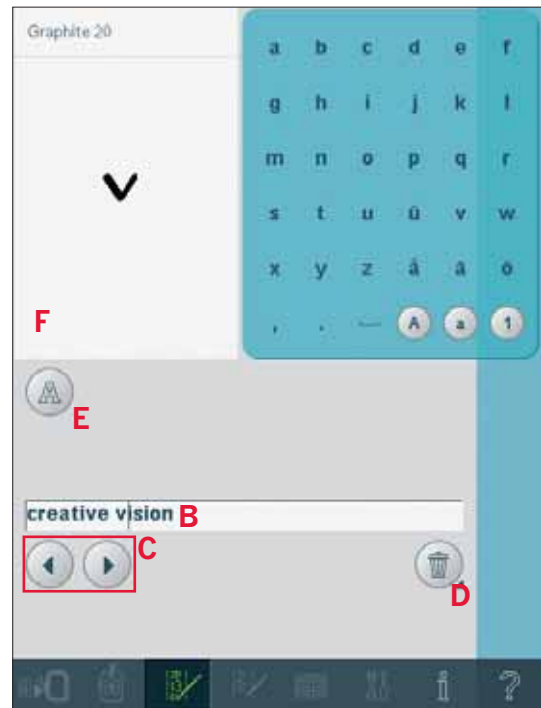
Use the arrows (C) to move the cursor to where you want to add a letter. Touch the letter and it will be inserted at the cursor position.

Delete a letter

To delete one letter, place the cursor after the letter to be deleted. Touch the delete icon (D). If you want to delete all the text you have written, long touch the delete icon. A pop-up will ask you to confirm the deletion.



A



F

E

B

C

D

Change font

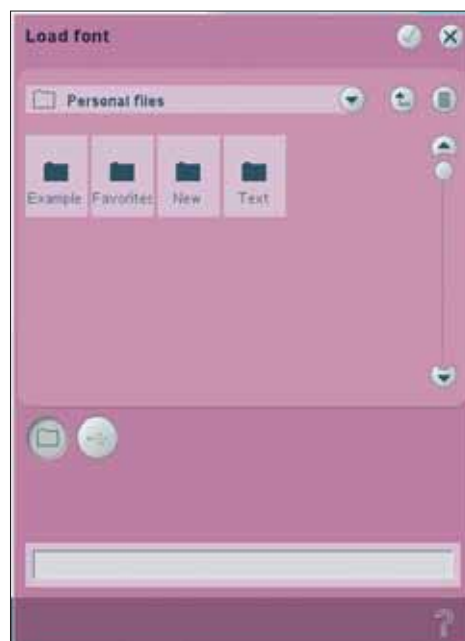
You can change the font and size of the text by touching the change font icon (E). The change font pop-up will show all available embroidery fonts. You can select different sizes for each font.

When changing the font, all inserted letters in the embroidery font editor window will change to the new font.



Load a font from another location

To load a font from personal fonts or an external device, touch the load font icon (G) at the bottom in the change font pop-up. A load dialog window will be opened for you to find the new font.



Load text to embroidery edit

Return to embroidery edit by deselecting sequencing on the task bar. Embroidery text editor will close and the text will be loaded into embroidery edit. If the text was an existing text, it will be placed and rotated in the same way as it was before the adjustment.

Text spacing

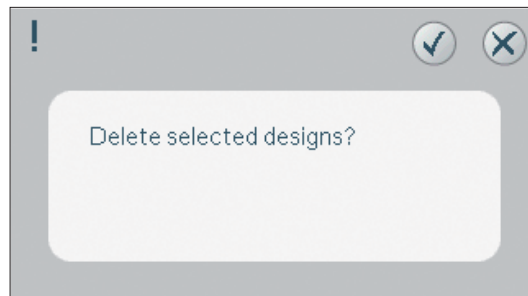
You can adjust the gap between the letters in the embroidery text when using shaping. Select the line shape and use the select spacing pop-up to adjust the gaps.



Embroidery edit pop-ups

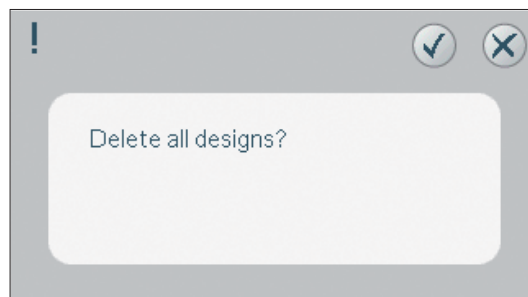
Delete selected designs?

Your machine will ask you to confirm when you have selected to delete more than one design.



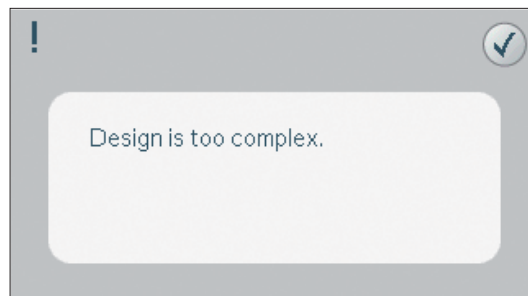
Delete all designs?

Your machine will ask you to confirm when you have selected to delete all designs or when using delete long touch.



Design is too complex

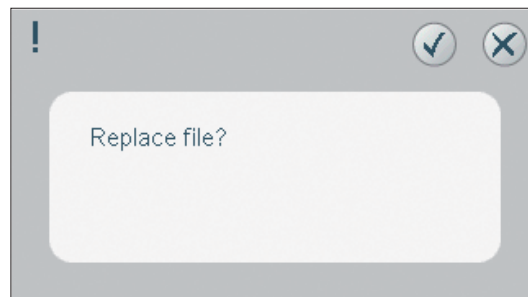
If the design is too complex, the resize process will not start when you touch OK to close the resize window. Reduce the size and try again, or use the 4D™ software. It is available to purchase from your local authorized PFAFF® dealer.



Replace file?

The first time you try to save a design with the same name as a design file that already exists, your machine will ask you to confirm this.

If you keep working on the same design and save again, your machine will not ask again.



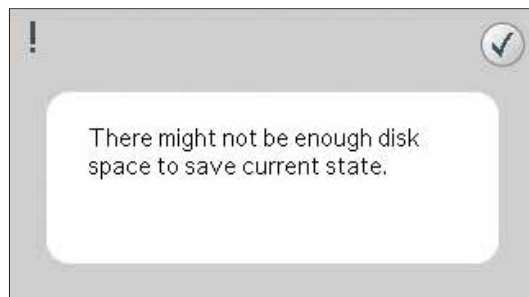
Remove hoop

This pop-up will appear when a function has been chosen that forces the embroidery unit to move outside the limits for the attached hoop. In order for the embroidery arm to move freely, remove the hoop and then touch OK. To abort the function touch Cancel.



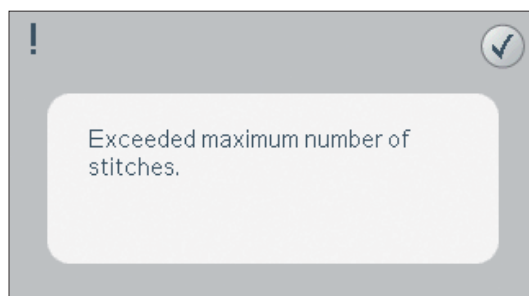
There might not be enough disk space to save current state

If the available memory of the machine is low you might not be able to save current state while embroidering. Touch OK to continue to Embroidery Stitch-out or touch Cancel to go back to Embroidery Edit and clear some memory in Files & Folders before starting to embroider.



Exceeded maximum number of stitches

The design combination you are trying to make contains too many stitches. Your design combination can have up to approximately 500,000 stitches.



Embroidery combination is too complex

This pop-up message appears for one of the following reasons:

- The design combination contains too many color blocks.
- There are too many designs in the combination.
- One or more designs have been grouped and re-grouped too many times.

