

# Embroidery mode - stitch-out



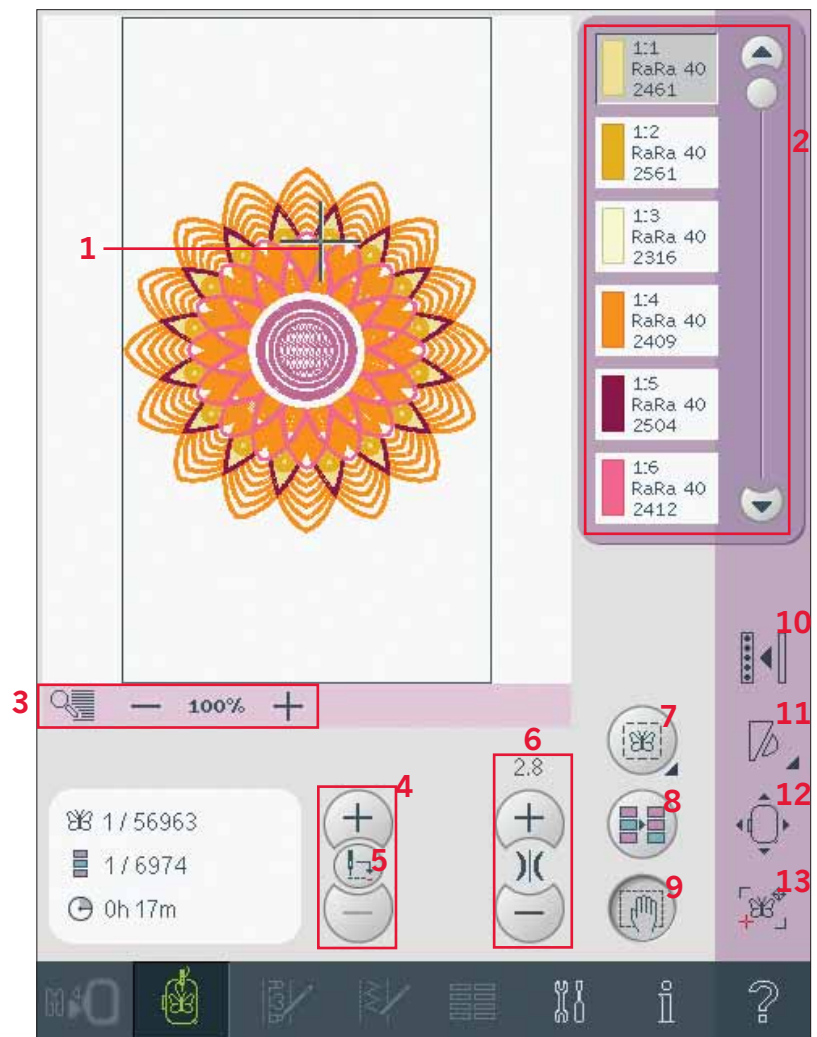
## To enter embroidery stitch-out

To embroider your design(s), enter embroidery stitch-out by touching the embroidery toggle icon (A) on the task bar. The embroidery unit needs to be connected and the machine enters embroidery stitch-out. Functions used when embroidering a design are now shown.



## Embroidery stitch-out - overview

1. Crosshair
2. Color list and scroll bar
3. Zoom
4. Current stitch
5. Go to stitch
6. Thread tension
7. Basting
8. Color block sort
9. Touch function - pan (always active)
10. More options
11. Speed control
12. Hoop position
13. Precise Positioning



## Crosshair (1)

When embroidering, a crosshair indicates current needle position on the screen.

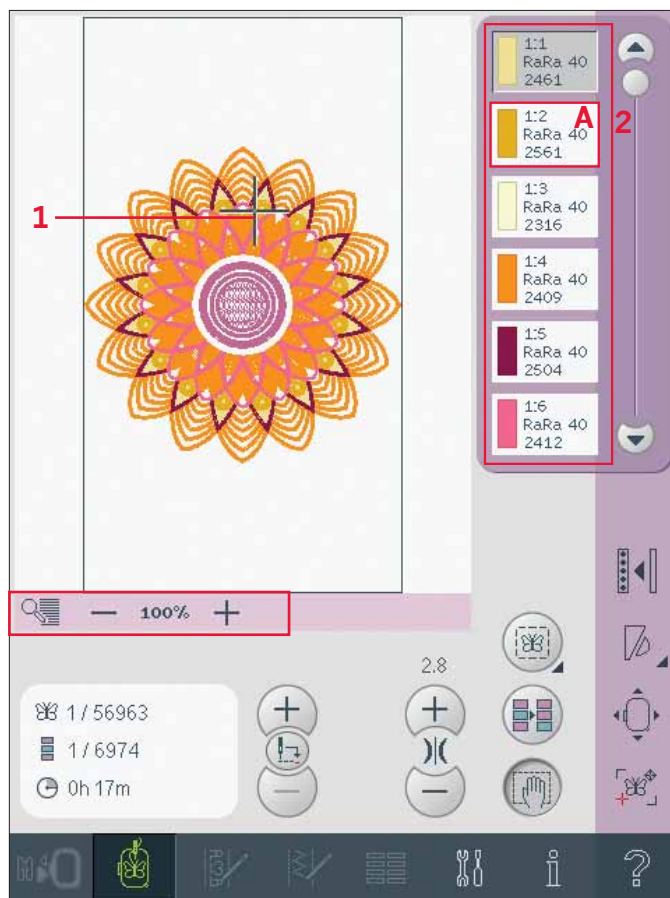
## Color list (2)

All colors in the loaded design(s) are shown in the order they will be embroidered. Each listed color shows color order and number. Also shown are the thread manufacturer, thread weight and color number. Use the scroll bar to see all of the colors in the list. To go to the next color block, just touch it in the color list.

Thread manufacturer and thread number are displayed for designs in .VP3 and .VIP-format. If changing color, some information might be lost.

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

To make changes to the color list, return to embroidery edit.



## Zoom (3)

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.

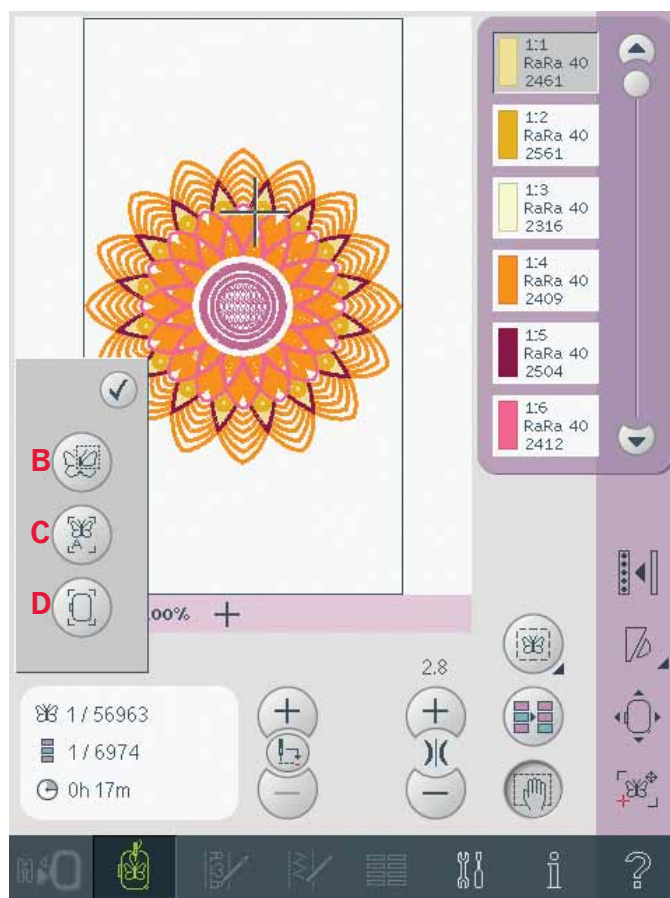
Zoom to box (B) lets you decide how much and where to zoom in the embroidery area. First, select zoom to box in the pop-up. The zoom icon starts flashing, indicating that zoom to box is active. In the embroidery field on the PFAFF® HD screen, touch and drag with your stylus to define the area to be zoomed.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



## Embroidery information (E, F, G)

The current stitch in the design or combination is shown next to the picture (E). The number after the slash shows the total number of stitches in the design or combination.

The current stitch in the current color block is shown next to the picture (F). The number after the slash shows the total number of stitches in the current color block.

An estimation of the embroidery time for the current color block is shown next to the picture (G).

## Current stitch (4)

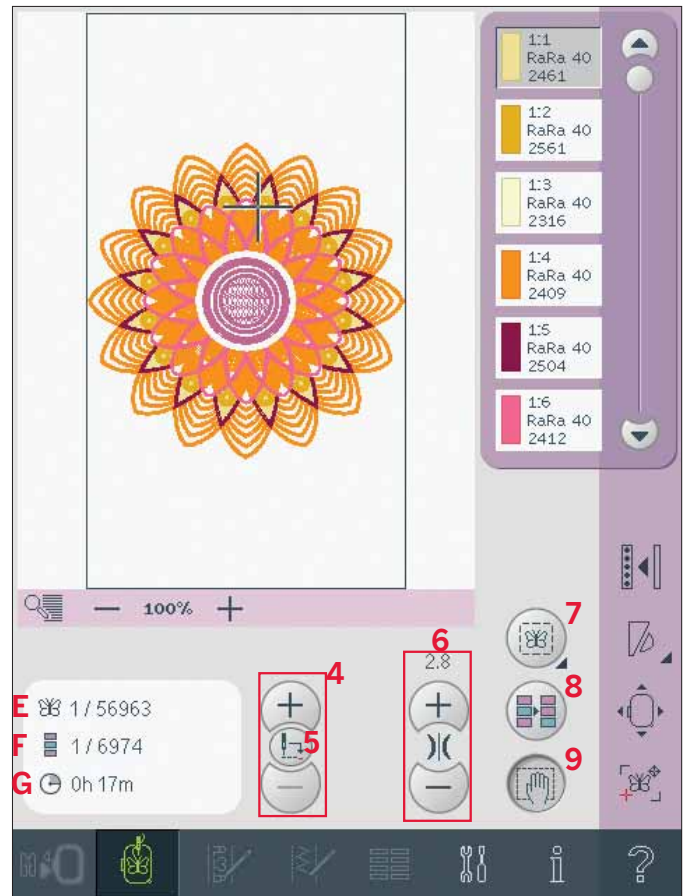
Touch + to step forward and - to step backwards stitch by stitch. Use the - icon to move backwards a few steps if the needle thread breaks or runs out. Touch and hold to move through the stitches quickly. The crosshair will follow the stitches in the embroidery field.

## Go to stitch (5)

To move to a particular stitch in the design touch the go to stitch icon. A pop-up will appear, where you can enter the desired stitch number. Current stitch will then move to that stitch number. If the number entered is too large, current stitch will move to the last stitch in the design(s).

## Thread tension (6)

When embroidering with specialty thread or fabric you may need to adjust the thread tension to achieve the best result. Thread tension can be adjusted up or down using the + and the -.



## Basting (7)

Basting enables you to secure your fabric to a stabilizer placed under it. It is especially useful when the fabric to be embroidered cannot be hooped. Basting provides support for stretchy fabrics.

Touch the basting icon (A) to activate basting.

Long touch the icon to open a window to select to add the basting stitch around the design area and/or around the hoop area.

Select baste around design and the machine will add a basting stitch around the design area, outlining the area where the design will be placed on the fabric. Select baste around hoop area to add a basting stitch close to the inner edge of the hoop. The baste stitches will be added as the first separate color block(s) at the beginning of the in the color list (B). You can step stitch by stitch and step in and out of the baste color block(s).

*Note: Basting can only be enabled while on the first stitch in the embroidery.*

## Color block sort (8)

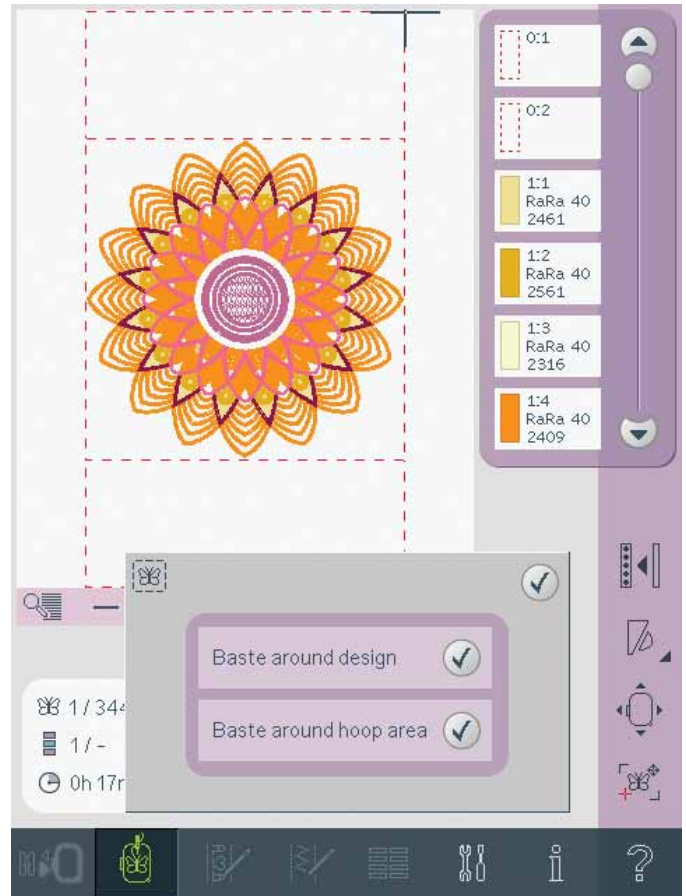
To sort the color blocks before embroidering, just touch the color block sort icon. The color block sort will reduce the number of thread color changes. If any color overlaps, the color order will remain the same, even after sorting. The function will also recognize if a turnable hoop is used. The two sides will be sorted individually.

The number of color blocks will not change, i.e. the blocks with the same color will not be merged to one block. To merge the color blocks and sew without stopping between the blocks, use the color merge function, found in more options.

*Note: The color block sort icon is disabled when you start to embroider.*

## Pan (9)

In embroidery stitch-out, the pan function is always active. Use the stylus to pan on screen.



## Option bar

### More options (10)

#### Background color (A)

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

#### Background fabric (B)

Touch the background fabric icon (B) 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 (A).

#### Monochrome (C)

Touch the icon to activate monochrome embroidery. All designs are shown in a grey color and the machine does not stop for color block changes. To deactivate monochrome embroidery, touch the icon again.

#### Color merge (D)

If you want the machine to ignore the stop between identical thread colors, e.g. after having used color block sort, touch the color merge icon.

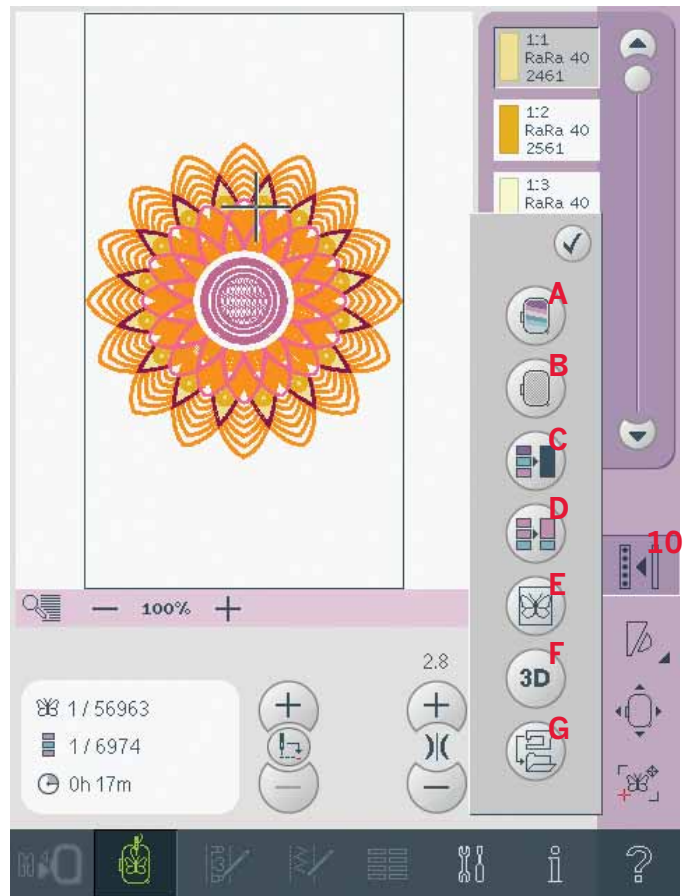
#### Full screen (E)

To see your design as large as possible, use the full screen function. The embroidery will fill the whole screen. To close, touch the screen once.

#### 3-dimensional view (F)

Touch the 3-dimensional view icon (F) 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.



#### Save current state (G)

If you want to stop embroidering and save your current position, touch Start/Stop to stop the embroidery. Then touch the save current state icon to save the current position. You can now turn the machine off.

When saving current state, all your adjustments are stored and you can continue to embroidery later. A current state is saved until you replace it.

*Note: If you have chosen AutoSave current state in the Settings menu, this icon will be disabled, and current state is stored periodically.*

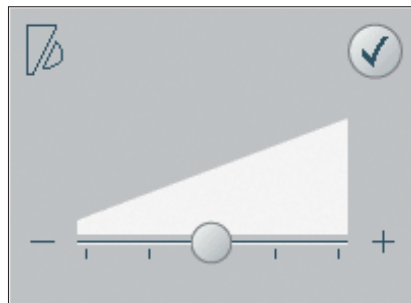
## Speed control (11)

This function enables you to easily reduce the maximum embroidery 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 embroider 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.*



## Hoop position (12)

Use the hoop position functions to move the hoop to different positions.

### Current position

When you want to return to the current stitch and start embroidering again where the embroidery was interrupted, touch the current position icon. You can also press the start/stop button once to return to the current stitch and start to embroider.

### Park position

When you have finished your embroidery, remove the hoop and select park position. The embroidery arm will be placed in a position that will allow easy storage.

Use the park position when you need to have a free sewing space with the embroidery arm out of the way.

*Note: It is very important that the hoop is removed, otherwise it may be damaged.*

### Bobbin position

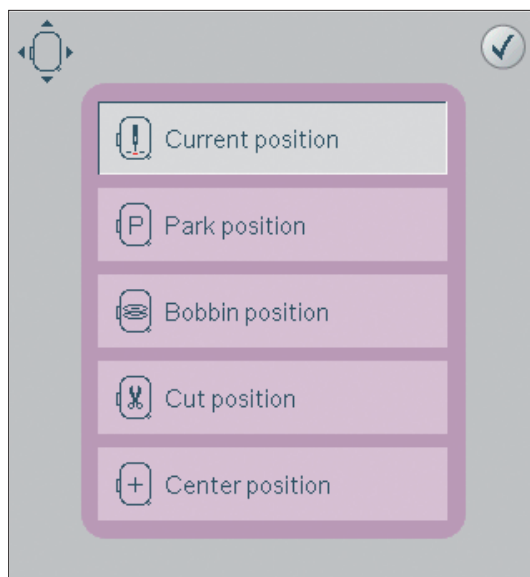
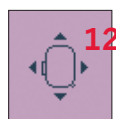
To make it easier to change the bobbin, touch bobbin position. The hoop will move backwards, allowing you to open the bobbin cover and replace the bobbin.

### Cut position

Cut position will move the hoop towards you making it easier to cut jump stitches and trim fabric when embroidering an appliqué.

### Center position

Use the center position if you want to check where the center position of the hoop will be placed on the fabric.



## Precise positioning (13)

Precise positioning allows you to place a design on an exact spot on your fabric. It is also used when you want to embroider a design next to a previously embroidered design.

Use zoom and pan to be sure that you are placing the design exactly where you want it. Fine tune with the wheel.

### Precise positioning - overview

- A Locking point
- B Position hoop
- C Matching point
- D Rotate design
- E Touch function - move
- F Touch function - rotate
- G Touch function - pan
- H Wheel
- I Orbiting - to check corners
- J Zoom to needle

#### To select locking point and position hoop

Select locking point (A). Place the red crosshair where you would like the locking point to be in your embroidery.

Next activate (B), position hoop. The red crosshair will be locked on the screen, changing color from red to blue with a ring around the center of the locking point. Now you can place the design exactly where you want it on the fabric by using the stylus or the wheel. Use the arrows to get the design placed precisely where you want it.

The position of the needle will show where the locking point will be placed on the fabric.

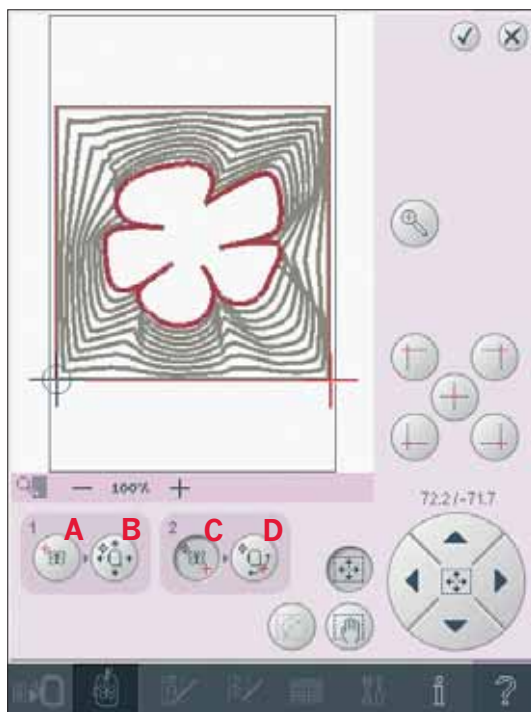
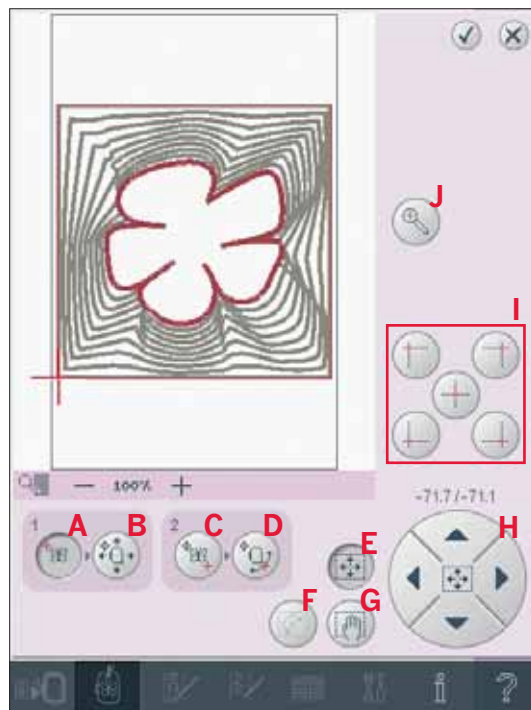
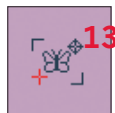
#### To select matching point and rotate design

You have the ability to check a second position within the design to make sure your design is lined up properly and make further adjustments if necessary. Activate (C), matching point.

A second crosshair will appear, the matching point. Place it at the point where you would like another part of the design to connect. The hoop will move, following the matching point.

To line up the design where you want it, activate (D), rotate design. To move the matching point to the right place on the fabric, the rotate function will automatically be selected.

Use the stylus or wheel to rotate the design on the screen around the locking point, kept in position. The rotated design will connect with the previously embroidered design.



### Orbiting - to check corners

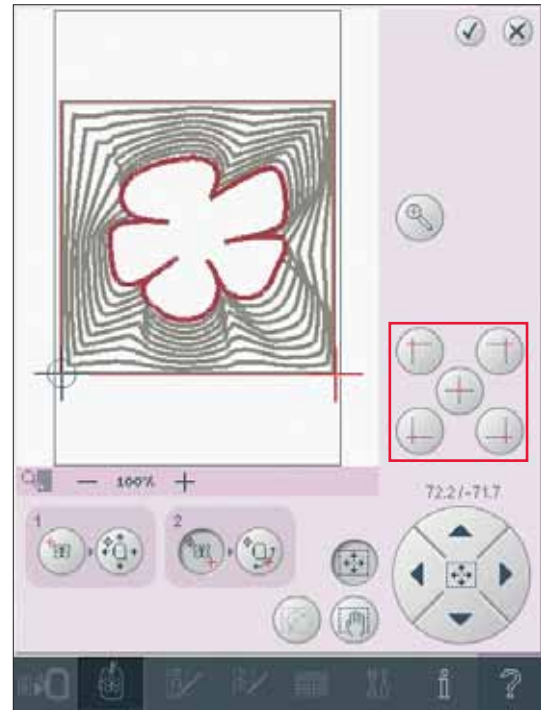
Orbiting can be used to trace the design field by touching each of the four corner icons. You can find the center of the design again by touching the centering icon.

The orbit function will also swiftly move the crosshair to the selected position when doing precise positioning.

Use the corner icons to set the connecting point for precise positioning in a corner of the design. This is the easiest and most precise way since the connecting point will be automatically placed exactly in the corner. This is useful when positioning a design on a patterned fabric.

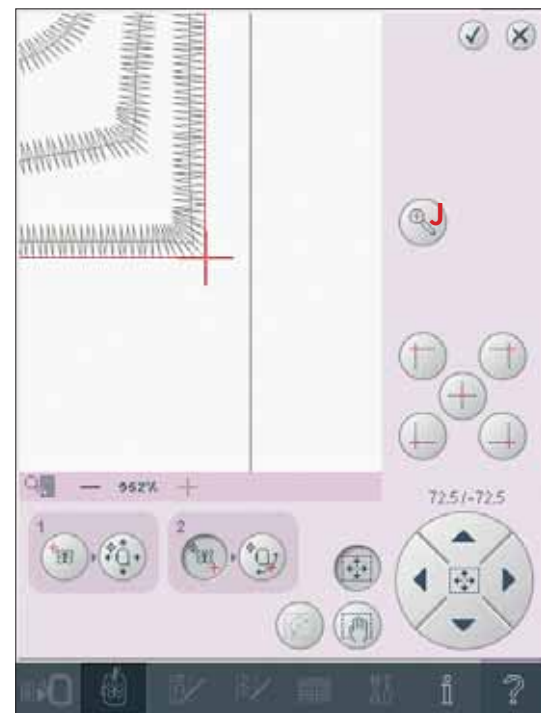
The orbiting icons may be used when either locking point or matching point is selected. When touching an orbiting icon, the selected point will automatically be set to the corresponding orbiting position, i.e. at a corner or at the center of the embroidery.

E.g. when choosing the upper left orbiting icon, the connecting point will be set at the upper left corner in the outer line of the designs. After this, you can continue and make your own adjustments on the connecting point.



### Zoom to needle (J)

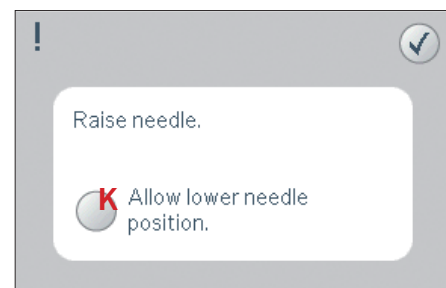
Precise positioning is easy to use with the new zoom to needle option. Touch the zoom to needle icon (J) to pan to the current needle position and zoom in as much as possible on the screen. You can position the locking and matching point exactly where you want them.



### Disable needle warning (K)

Check allow lower needle icon (K) to temporarily allow the needle to be in a lower position while moving the hoop. The needle can then remain close to the fabric when using precise positioning. Just make sure the needle is above the fabric to prevent damage to the needle and fabric.

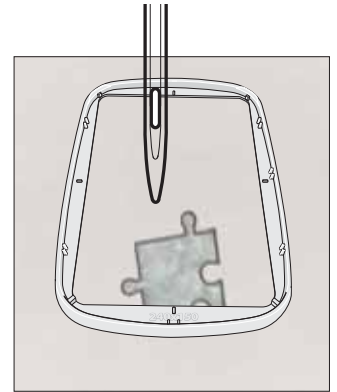
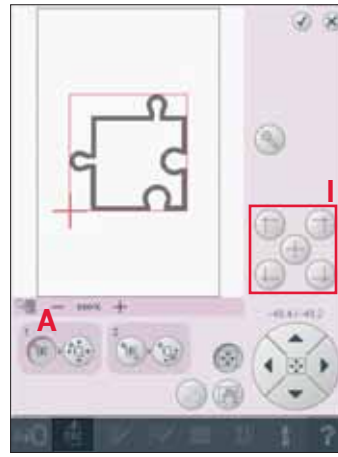
*Note: The warning cannot be disabled when the needle is below the stitch plate.*



## Precise positioning - example

When adding one design to one previously embroidered, precise positioning is very useful.

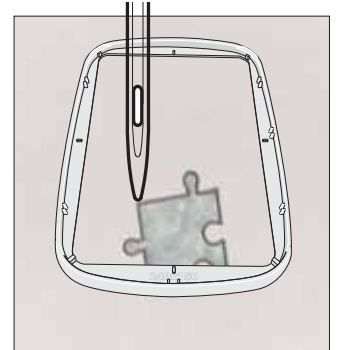
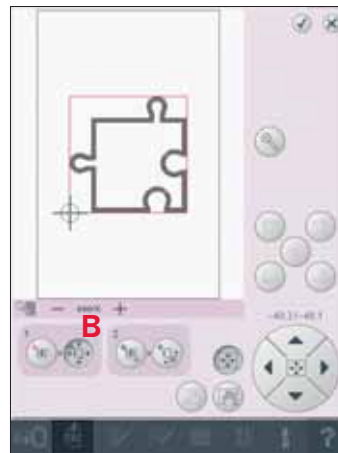
1. Choose one of the corners to be the locking point (A). Either move the locking point using touch function - move on the screen or the wheel.



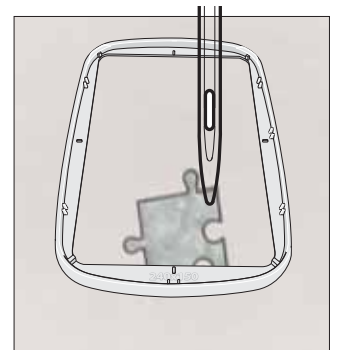
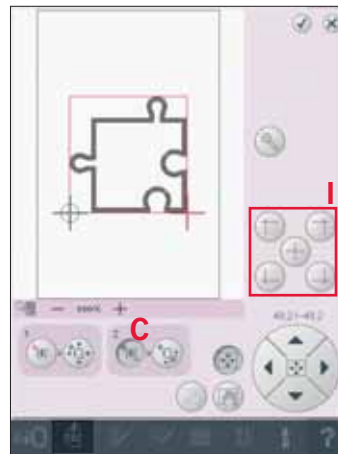
2. Select the next function, position hoop (B), to move the locking point to the right position in the hoop.

Move the locking point to the upper left corner of the embroidered design. Use the touch function - move. Check that the needle is at the exact position.

If satisfied, close precise positioning and start embroidering.



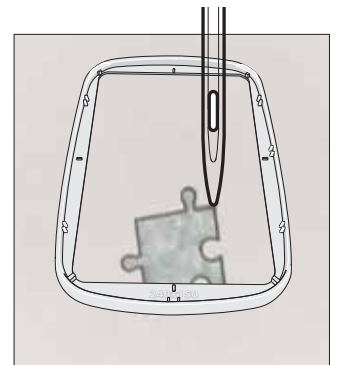
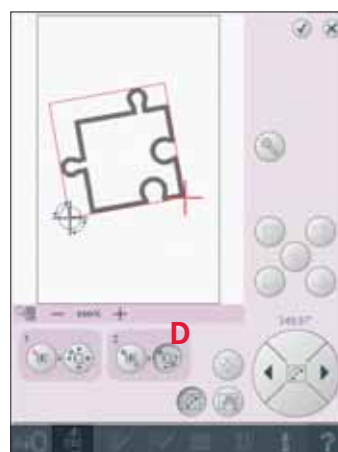
3. To line up the design on the screen with the previously embroidered, select matching point (C) to be the corner. Use the touch function - move or the orbiting icons.



4. Select the next function, rotate design (D) to move the matching point to the right position in the hoop.

Use the touch function - rotate to line up the designs. Check that the needle is at the exact position.

5. Close precise positioning and start embroidering.

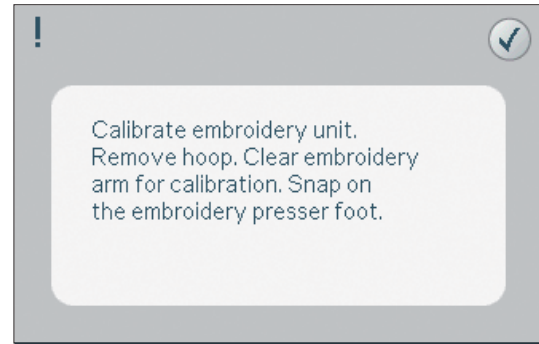


## Common embroidery stitch-out pop-ups

### Embroidery unit calibration

When the embroidery unit is attached, a pop-up asks you to slide off the hoop and clear the machine area for calibrating the embroidery arm. You will also be reminded to snap on the embroidery presser foot 6A.

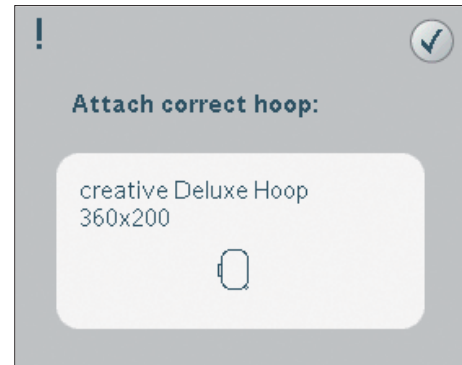
*Note: It is very important to remove the hoop, otherwise the hoop or the embroidery unit may be damaged while calibrating.*



### Attach correct hoop

If the size of the hoop attached to the machine does not match the size displayed on screen, the machine will not embroider. You must change the hoop to the displayed size or change the hoop setting to the hoop size attached.

To change hoop settings, re-enter embroidery edit and go to select hoop.



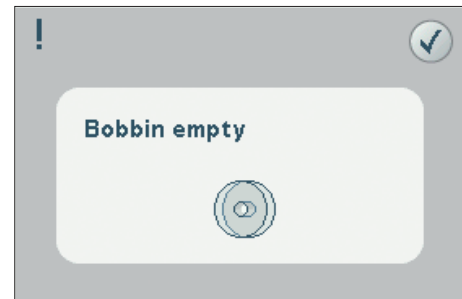
### Bobbin empty

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

*Note: It is possible to embroider until the thread has completely run out. Press the start/stop button to continue embroidering without closing the bobbin empty pop-up.*

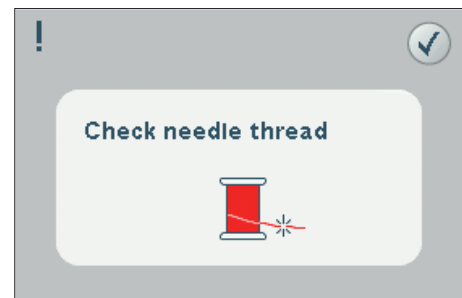
Close the pop-up. Replace the empty bobbin with a full one. Pull back excess needle thread and move a few stitches backwards using the current stitch icons (3). Start embroidering again by pressing the start/stop button or the foot control.

*Note: Use the bobbin position to get easier access to the bobbin. When the bobbin is replaced, touch current position to move the hoop back to where the embroidery stopped.*



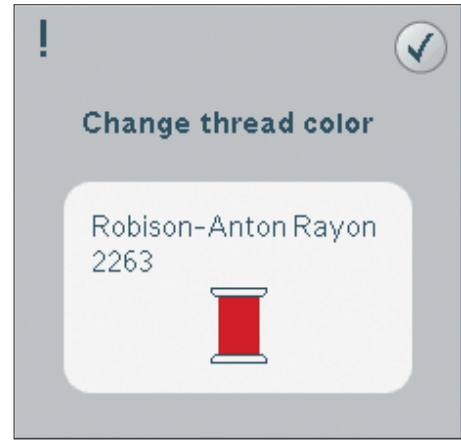
### Check needle thread

The machine stops automatically if the needle thread runs out or breaks. Re-thread the needle thread, close the pop-up, step back a few stitches and start embroidering again.



### Change thread color

When it is time to change the needle thread, the machine stops and the upper thread is cut. Change the spool and re-thread the machine. The next recommended color is shown in the pop-up.



### Cut thread end

After changing the thread, the machine will sew a few stitches and then stop so you can cut the thread end.



### Embroidery is finished - clear screen

When the embroidery is finished, the machine will ask you if you want to clear the screen. If you touch OK, the designs will be deleted. Touch cancel to get back to your design.

