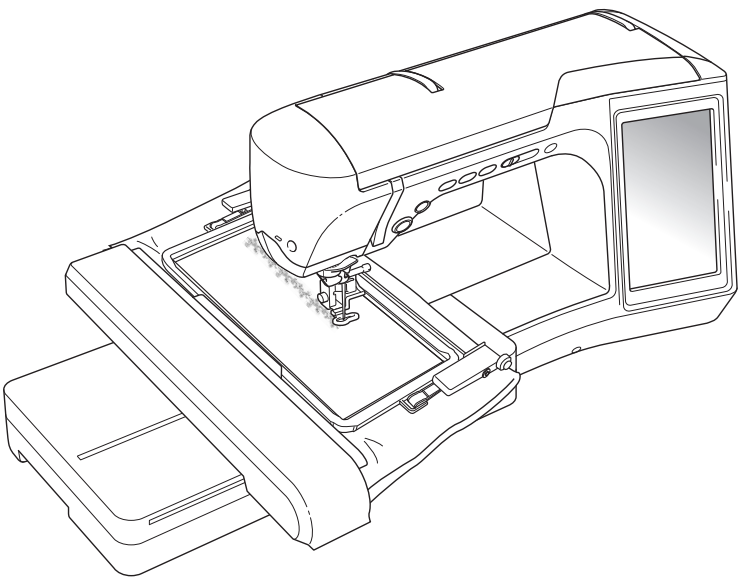
brother

Upgrade KIT III
Operation Manual



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BEFORE YOU START

It is important to perform the upgrade according to the procedure described in the Installation Guide. The machine can then be used as described in the Operation Manual. The border embroidery frame (30 cm × 10 cm (approx. 11-3/4 inches × 4 inches)) will show on the LCD screen of the machine and the frame will be recognized when attached to the embroidery frame holder. New machine features and benefits are described in this guide.

Note

- Screen illustrations may vary due to model of machine.
- Make sure that “Version 2” in the Settings screen has changed to “3.1” or later. If the machine is installed with a lower version, it must be upgraded. For details, refer to the Installation Guide.

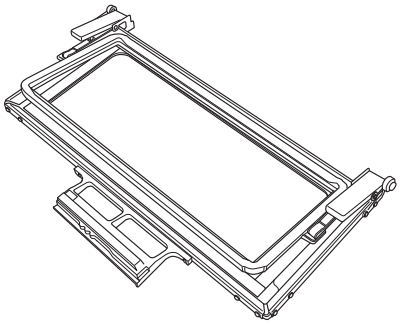
NEW FEATURES

- A border embroidery frame (30 cm × 10 cm (approx. 11-3/4 inches × 4 inches)) is included, allowing the fabric to easily be rehooped when embroidering repeated patterns.
- Instead of using a thread mark, the built-in camera can be used to connect embroidery patterns. (Embroidery Edit)
- Ten embroidery designs created to show the convenience and potential of the border embroidery frame are available on the included CD. To view a list of the patterns, refer to page 34.

EMBROIDERING WITH THE BORDER EMBROIDERY FRAME (30 cm × 10 cm (approx. 11-3/4 inches × 4 inches))

About the Border Embroidery Frame

Since the fabric can easily be repositioned and rehooped when the border embroidery frame is used, this frame is useful for embroidering repeated patterns while sliding the fabric. An added feature of this frame is that the pressure applied by the upper and lower frames will not leave an indentation in the fabric. An area of 30 cm × 10 cm (approx. 11-3/4 inches × 4 inches) can be embroidered.



⚠ CAUTION

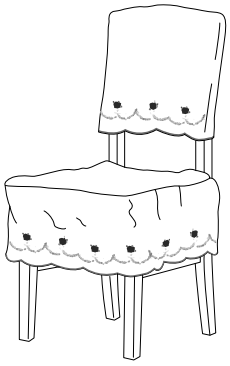
- **Do not leave the border embroidery frame within the reach of children, otherwise injuries may result.**

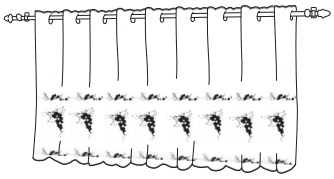
Note

- When the border embroidery frame is not being used, unlock it before storing it.
- Due to its construction, the border embroidery frame does not hold fabric as tightly as other frames. Since fabric shrinkage may occur, depending on the fabric and pattern used, be sure to sew trial embroidery on a piece of scrap fabric before sewing your project.

Sample Projects Using the Border Embroidery Frame

We recommend using the border embroidery frame when repeated patterns are embroidered at the edges of items such as curtains, chair covers, bed covers, tablecloths and blankets.



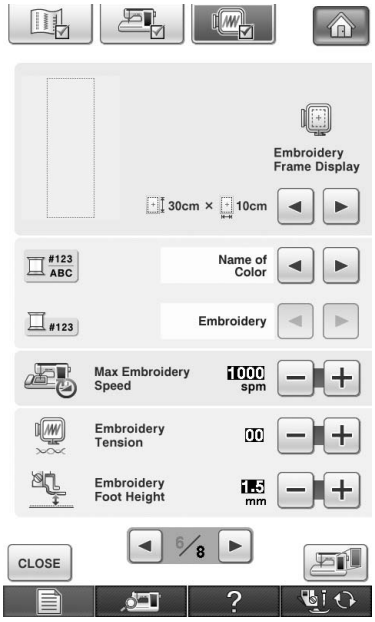


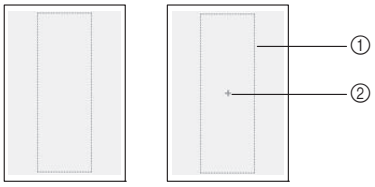
Selecting a Pattern

1. **Press [ ].**

2. **On page 6/8 for the embroidery frame display settings, select one of the embroidery frame displays for the border embroidery frame (30 cm × 10 cm (approx. 11-3/4 inches × 4 inches)). Press [CLOSE] to return to the previous screen.**

* Of the 16 settings available, there are 2 for border embroidery frames (30 cm × 10 cm (approx. 11-3/4 inches × 4 inches)).

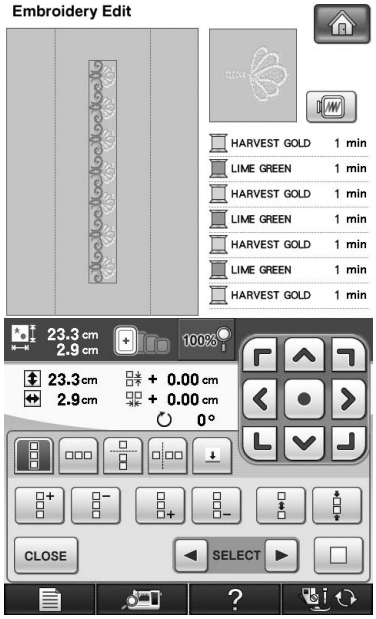




① Border embroidery frame embroidering area (30 cm × 10 cm (approx. 11-3/4 inches × 4 inches))
② Center mark

3. **Press [ ] / [ ] and select a pattern, and then press [SET].**

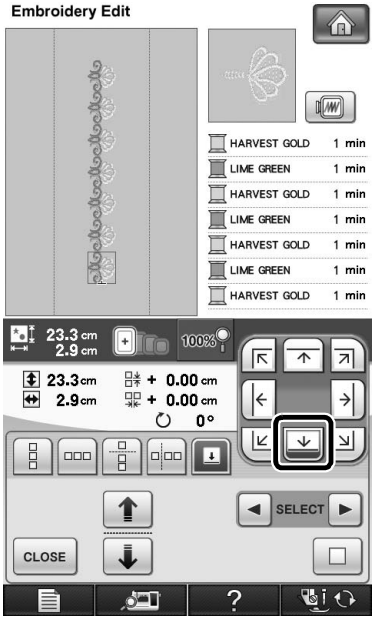
4. **Use the border function to repeat the pattern.**



Memo

- For details for the border function, refer to "Designing Repeated Patterns" in chapter 6 of the Operation Manual for the sewing machine.

5 **If necessary, assign thread marks. Since the pattern will be repeatedly embroidered from the top to the bottom, add the thread mark to the lower center of the bottom pattern. When you are finished, press** CLOSE **.**



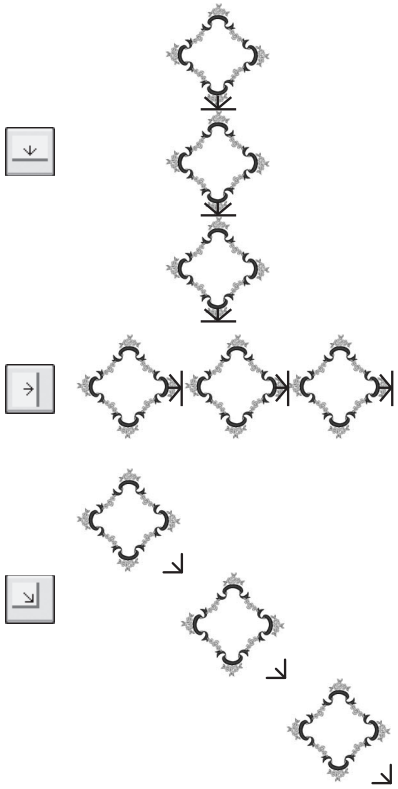
→ Touch ▲ and ▼, or ◄ and ► to highlight the design for inserting thread marks.

Note

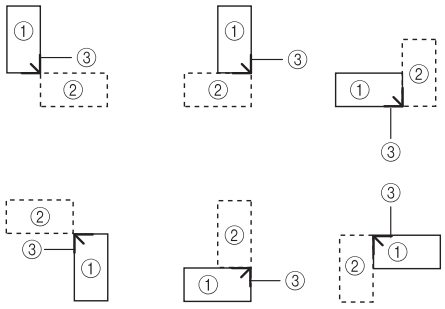
- Do not add thread marks to character patterns.
- Add thread marks to patterns that do not have a point of alignment, such as rotated patterns or patterns that are spaced apart. Patterns that can be aligned visually can be embroidered cleanly without the thread mark.

Memo

- Select the location where the thread mark is to be added according to the direction that the embroidery is repeated.

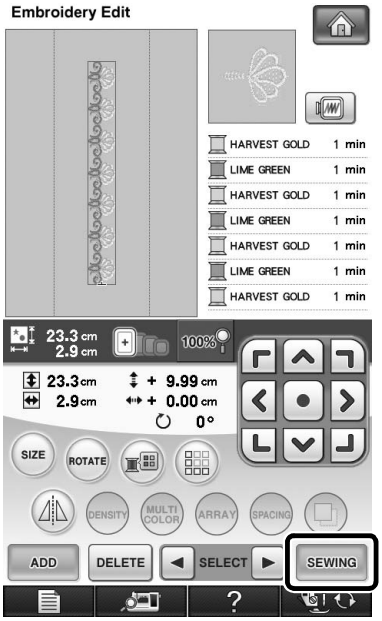


If the design direction is rotated, use the following suggestions.



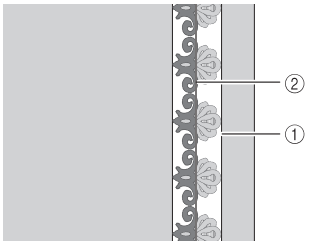
① First Pattern
② Second Pattern
③ Thread mark

6 **Press SEWING.**



Hooping the Fabric in the Border Embroidery Frame

1 **With a chalk pen, mark the fabric with a line drawn down the center of the area to be embroidered.**

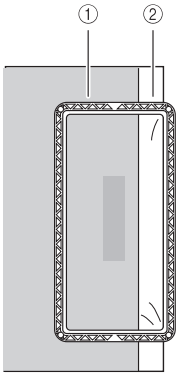


① Pattern
② Center mark (line)

2 **Affix stabilizer material to the fabric to be embroidered.**

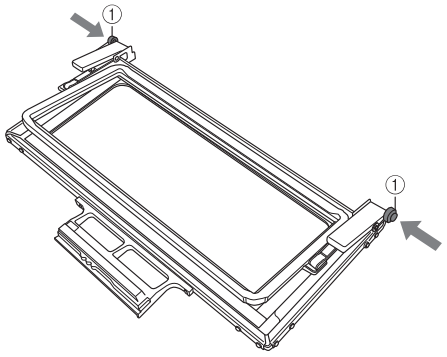
Note

- When embroidering the edges of the fabric, affix stabilizer material larger than the fabric, and then firmly secure the fabric and excess part of the stabilizer material within the border embroidery frame (in the same way as when the normal embroidery frame is used). Otherwise, misaligned patterns may result.



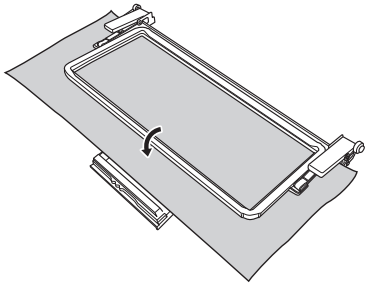
① Fabric
② Stabilizer

3 **If the upper frame is locked down against the lower frame, press the left and right lock release buttons to unlock the upper frame.**

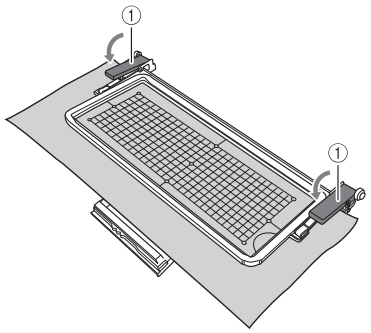


① Lock release buttons

4 **Lay the fabric between the upper and lower frames.**



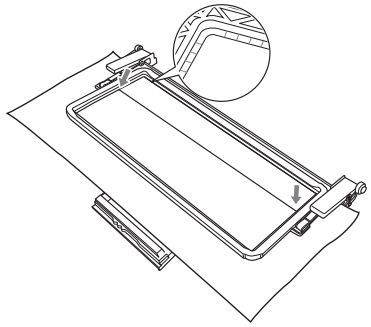
5 **Place the embroidery sheet in the upper frame, align the center mark (line) on the fabric with the guide line on the embroidery sheet, and then press down on the left and right locking levers until they click into place.**



① Locking levers

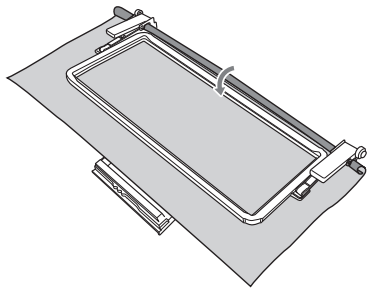
Memo

- The fabric can also be positioned in the border embroidery frame by aligning the edge of the fabric with the inner markings on the upper frame.



Note

- If there is excess fabric after the center of the embroidering area is aligned with the center of the border embroidery frame, fold over the excess fabric, place it on top of the upper frame, and then press down on the levers. Be careful that the folded excess fabric is not caught in the embroidering area.



6 **Remove the embroidery sheet, and then gently pull the four sides of the fabric to remove any excess slack. Be careful so that fabric is not stretched out of shape. Finally, check that the fabric is firmly within the hoop.**

Attaching the Border Embroidery Frame to the Embroidery Unit

⚠ CAUTION

- **After firmly hooping the fabric in the border embroidery frame, attach the frame to the embroidery unit. Otherwise, the needle may break and cause injuries.**
- **Before attaching the border embroidery frame to the embroidery unit, make sure that the needle and presser foot have been raised. Otherwise, the needle may break and cause injuries.**

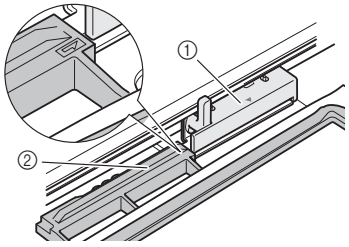
Note

- Before attaching the border embroidery frame, wind the bobbin with thread and install it.

1 **Make sure that the needle and presser foot have been raised. If the needle has not been raised, press the "Needle Position" button to raise it. If the presser foot has not been raised, press the "Presser Foot Lifter" button to raise it.**

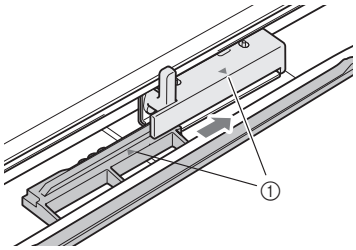
2 **Make sure that the embroidery unit carriage has moved to its initial position.**

3 **Align the guide on the border embroidery frame with the right edge of the embroidery frame holder.**



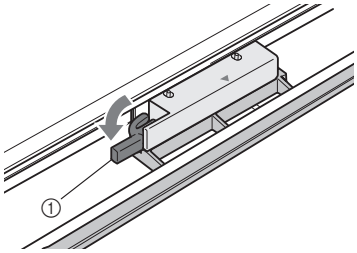
① Embroidery frame holder
② Guide on border embroidery frame

4 **Slide the border embroidery frame into the embroidery frame holder, making sure to align the border embroidery frame's arrow mark (△) with the embroidery frame holder's arrow mark (△).**



① Arrow marks

5 **Lower the frame-securing lever so that it is level with the border embroidery frame to secure the border embroidery frame to the embroidery frame holder.**



① Frame-securing lever

⚠ CAUTION

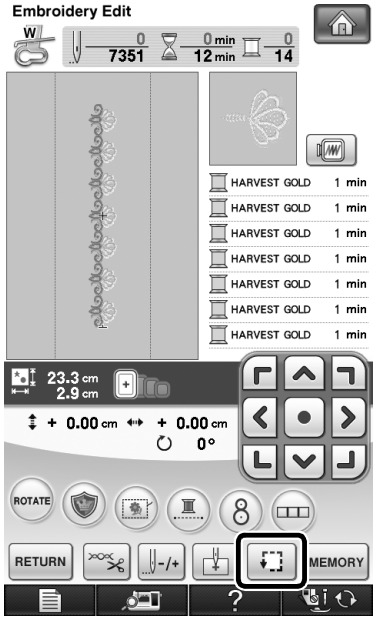
- **If the frame-securing lever is not lowered, the pattern may not embroider correctly or the presser foot may strike the border embroidery frame and cause injuries.**

Embroidering the First Pattern

Note

- When the border embroidery frame is used, the embroidering time may vary slightly than the time that appears in the screen, depending on the type of fabric and pattern that is used.

1 **To check the embroidering area, press [⬚].**

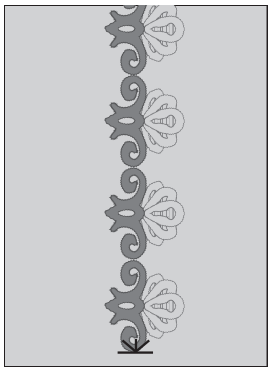


2 **Thread the machine, and then start embroidering.**

⚠ CAUTION

- **Do not touch the border embroidery frame while embroidering.**

→ When embroidering is finished, the thread mark is sewn with the last thread color.

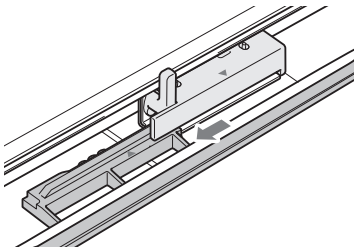


Removing the Border Embroidery Frame

Note

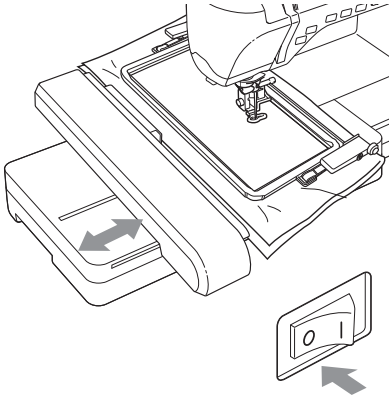
- Before removing the border embroidery frame from the embroidery unit, make sure that the embroidery unit carriage has moved to its initial position.

1 **Raise the frame-securing lever and pull the border embroidery frame toward you.**



CAUTION

- **If the thread has become tangled and the embroidery unit carriage does not move to its initial position, even after the thread is cut, turn off the machine, manually gently move the carriage, and then remove the border embroidery frame.**
- **Only move the embroidery unit carriage when the machine is turned off.**

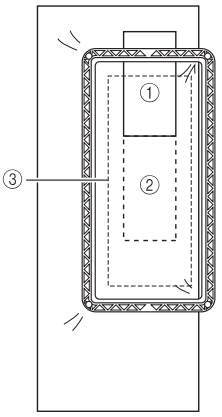


Embroidering the Next Pattern

1 **Press both lock release buttons and slide the fabric to align the embroidering area of the next pattern, and rehoop the fabric in the border embroidery frame.**

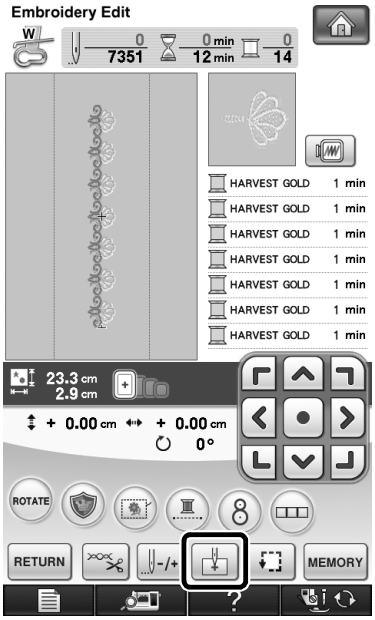
Note

- Adjust the position of the fabric so that the embroidering area for the next pattern is within the embroidering area of the embroidery sheet.

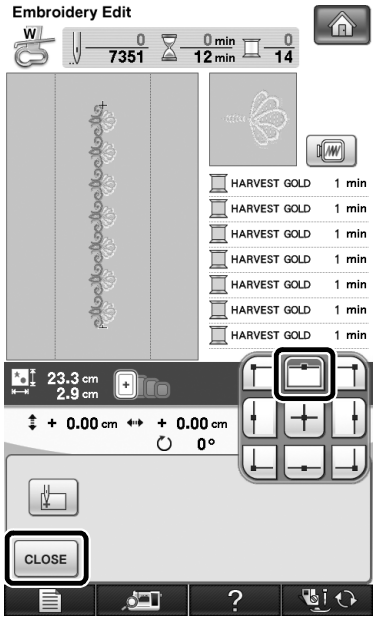


① Pattern embroidered first
② Position of pattern to be embroidered next
③ Embroidering area of embroidery sheet

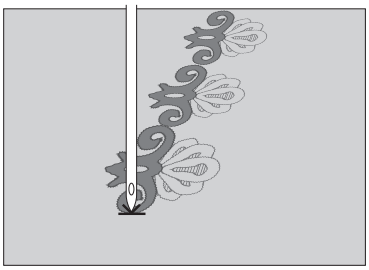
2 **Attach the border embroidery frame to the embroidery unit, and then press .**

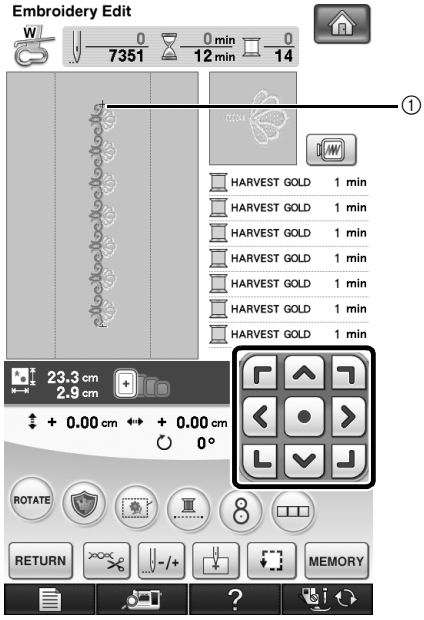


3 **Use to select the needle position that will align with the thread mark at the end of previous embroidery. For this example, align the needle position with the upper center of the next pattern. When you are finished, press CLOSE.**



4 **Use to align the needle position with the point of the thread mark.**





① Needle position

Note

- After turning the handwheel to check the needle position, press the “Needle Position” button to raise the needle.

5 **After aligning the needle position for the beginning of embroidering, remove the thread mark.**

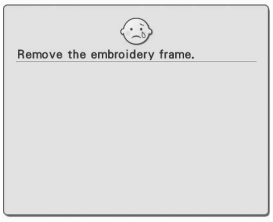
Note

- Remove the thread mark before starting to embroider. Otherwise, the thread mark stitching may be combined with the pattern stitching and become difficult to remove.

6 **Embroider the next pattern. To continue embroidering a repeating pattern, repeat the procedure starting with "Removing the Border Embroidery Frame".**

⚠ CAUTION

- **If the sewing machine is turned off, then turned on again with the border embroidery frame attached or if you try to select a stitch from the Utility Stitch screen or the Character/Decorative Stitch screen while the border embroidery frame is attached, the following message appears. If the border embroidery frame is not fully removed from the embroidery unit at this time, the border embroidery frame may be hit by the presser foot when the carriage of the embroidery unit is moved. When the following message appears, fully remove the border embroidery frame.**



USING THE CAMERA TO CONNECT PATTERNS

Instead of using thread marks, the camera can be used to connect patterns in the Embroidery Edit screen. An area of 27 cm × 17 cm (10-1/2 inches × 6-1/2 inches) can be embroidered when the camera is used to connect patterns. Select the appropriate frame depending on the size of the embroidery. We recommend using the large embroidery frame (30 cm × 20 cm (12 inches × 8 inches)) when using the camera to connect patterns. The small embroidery frame (2 cm × 6 cm (1 inch × 2-1/2 inches)) cannot be used with the camera function.

Note

- Split (Large-size) embroidery patterns cannot be used with this function.

Examples of Connected Patterns

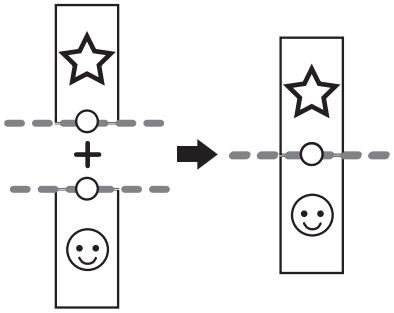
Two patterns can be connected by selecting the reference point and reference edge of each pattern so that they can be aligned using the camera. When connecting patterns, the reference edge of each pattern will be along a single straight line.

(Example)

: Reference edge

: Reference point

①



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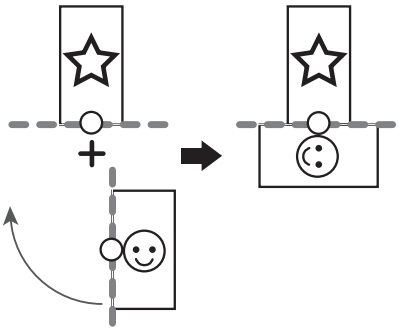

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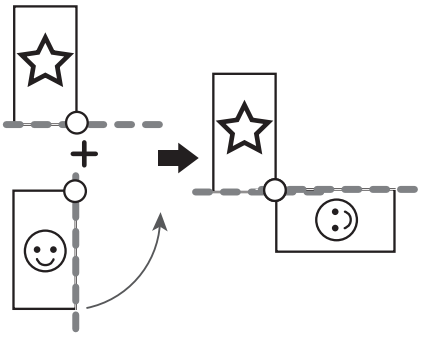

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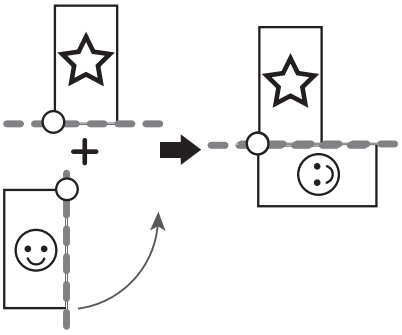
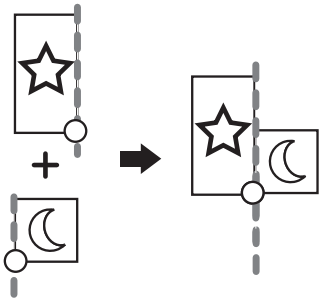


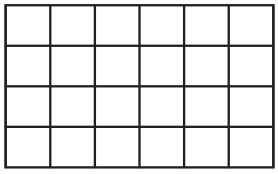
⑤



In order to understand how to connect patterns, first try following the procedure outlined in “Practice (Connecting Three Patterns)” on page 14.

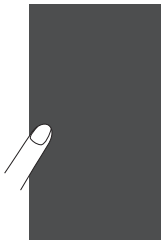
Preparation (Camera Needle Position Setting)

When connecting patterns by using the camera, set the camera needle position. This operation is essential when you use this function for the first time. It is not necessary to perform this operation each time, but we recommend performing it when the needle is changed. Use the white stickers (solid) included with this Kit.



1 Prepare the needle to be used to connect patterns.

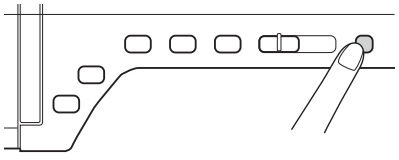
2 Hold your finger firmly on the LCD screen, and then turn on the machine.



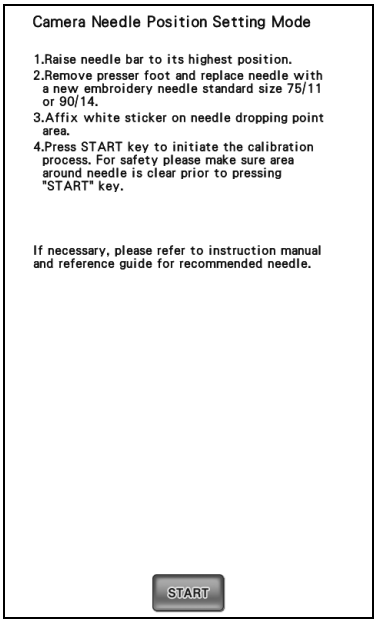
Note

- Be careful not to touch the LCD screen prior to Step 3 below.
- This function can be performed with or without embroidery unit attached to machine. If attached, message screens will appear regarding movement of embroidery unit.

3 Press the "Automatic Threading" button.



→ Camera needle position setting screen appears.



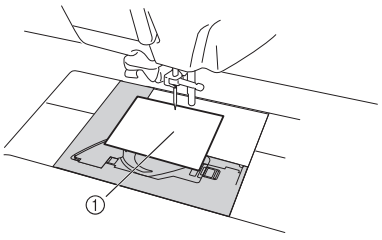
4 Follow the on-screen instructions to complete the procedure.

1. Raise needle bar to its highest position.

Note

- The "Needle Position" button cannot be used while setting the camera needle position. Turn the handwheel counterclockwise to move the needle bar.

2. Remove presser foot and replace needle with a new embroidery needle standard size 75/11 or 90/14.
3. Affix white sticker on needle dropping point area.



① White sticker

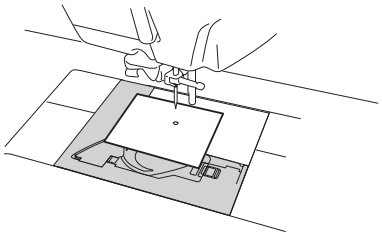
Note

- Use a new sticker. The camera needle position cannot be set correctly if there is a hole in sticker or if it is dirty. If you have no new stickers, contact your nearest Brother dealer.

4. Press START to initiate the calibration process. For safety please make sure area around needle is clear prior to pressing START.

→ Setting the needle drop point begins.

5 The operation is finished when "OK" appears. If "NG" appears, remove the sticker, and then follow the on-screen instructions to repeat steps 3 and 4 of Step 4. If multiple attempts to set the position are not successful, contact your nearest Brother dealer.



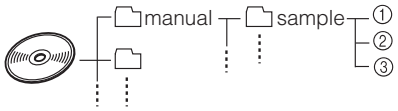
6 Remove the sticker, and then turn off the machine.

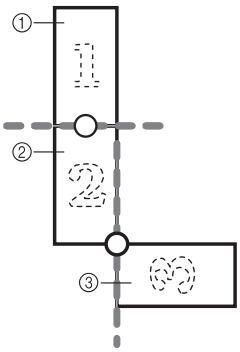
Note

- When using the camera to connect patterns, use the needle that was installed when the camera needle position was set.

Practice (Connecting Three Patterns)

In order to practice aligning pattern edges by using the camera, we will connect three patterns as shown below. These 3 patterns for practicing are available on the included CD.



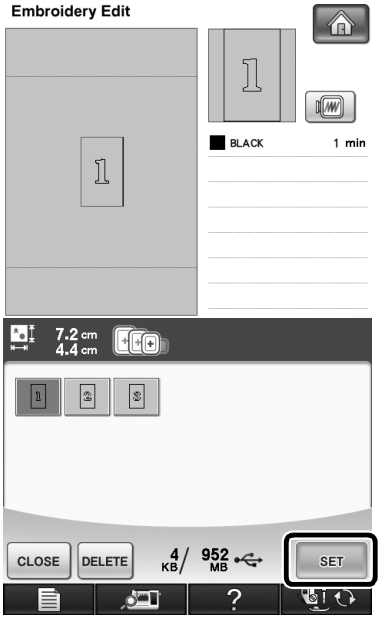


① Pattern1X.pes
② Pattern2X.pes
③ Pattern3X.pes

Note

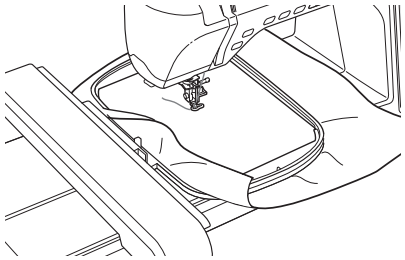
- Use USB media or a computer to access the pattern files.

1 Select the first pattern (1) for practicing, and then press SET.



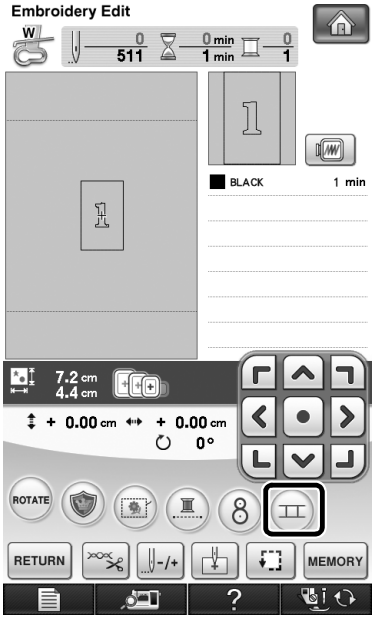
2 Thread the machine with the upper thread and the bobbin thread.

3 **Hoop fabric in the 20 cm × 20 cm (8 inches × 8 inches) embroidery frame, and then attach the frame to the embroidery machine.**



4 **Press** SEWING **to display the sewing screen.**

5 **Press** **in the sewing screen.**



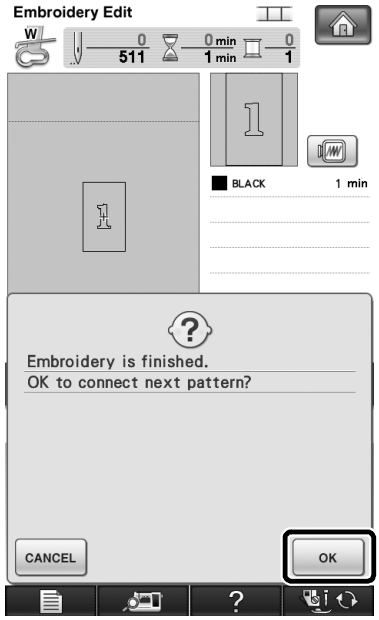
→ appears at the top right side of the screen, and then changes to .

Memo

- can be pressed while embroidering.
- A pattern cannot be saved in the machine's memory while patterns are being connected.

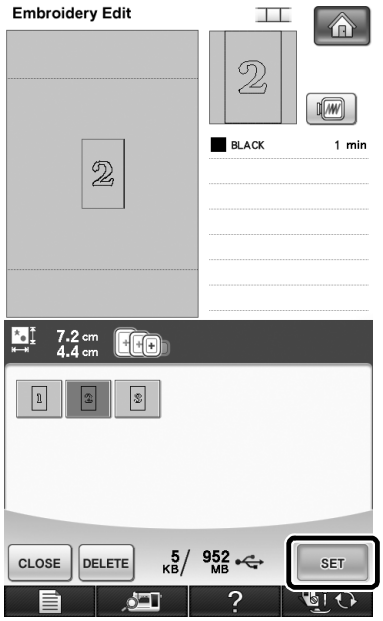
6 **Lower the presser foot, and then embroider the first pattern.**

7 **After embroidering of the first pattern is finished, the following message appears. Press** OK **.**

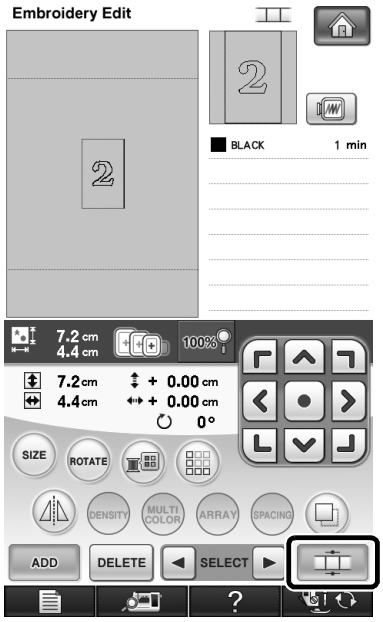


8 **When the following message appears, press** OK **.**

9 **Select the second pattern (2) for practicing, and then press SET.**

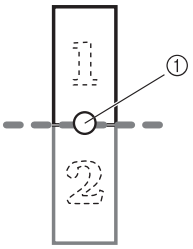


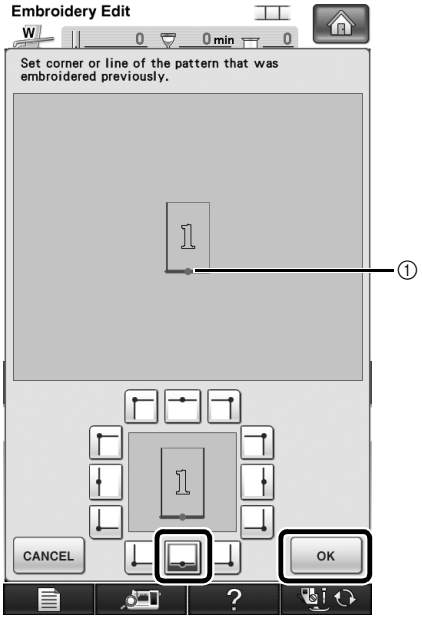
10 **Press , and then select how the patterns will be connected.**



→ The pattern connection setting screen appears.

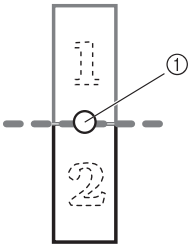
11 **When the pattern connection setting screen appears, select the reference edge and reference point of the first pattern for connecting the next pattern. Since, in this example, we will connect the center point of the bottom edge for the first pattern with the center point of the top edge for the next pattern, select the center point of the bottom edge, and then press OK.**

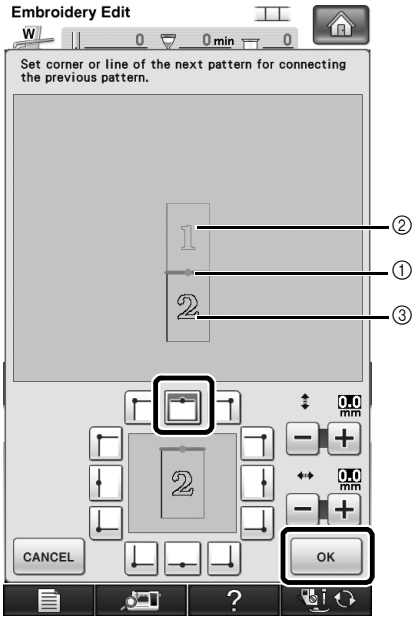




① Reference edge and reference point

12 **Select the connecting position for the second pattern, and then press OK. In this example, select the center point of the top edge.**





① Reference edge and reference point
② First pattern (1)
③ Second pattern (2)

→ Message appears on screen and carriage will move after pressing OK.

Note

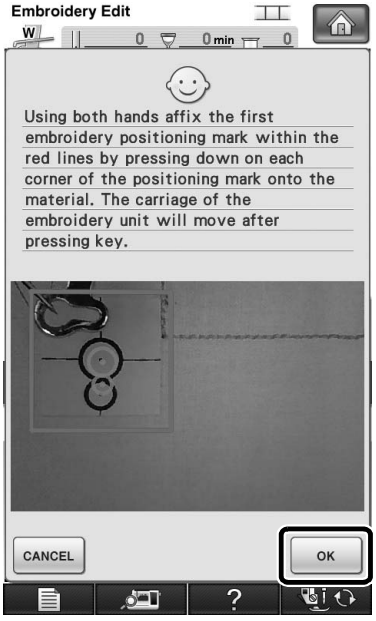
- Using + and − in this screen, the position of the second pattern can be changed. For details, refer to “SLIDING THE POSITION OF THE PATTERN TO BE CONNECTED” on page 29.

13 Prepare two embroidery positioning stickers. We will follow the on-screen instructions to affix these two stickers to the fabric so that the positioning marks can be detected by the camera.

Note

- Use the positioning stickers included with this product or purchase replacement stickers (SAEPS2, EPS2: XF0763-001) from your Brother dealer. If any other sticker is used, the camera may not recognize it.
- The 182 mm × 257 mm (7 inches × 10 inches) embroidery positioning sticker sheet with strong adhesive is most appropriate for connecting patterns (SAEPS2, EPS2: XF0763-001). If any other positioning sticker is used, it may peel off. If the sticker peels off, the patterns cannot be connected.

14 Affix the first embroidery positioning sticker onto the fabric within the red lines by using both hands to press down on each corner of the sticker. Affix the sticker with the large circle to the top as shown on machine. Then, press OK.

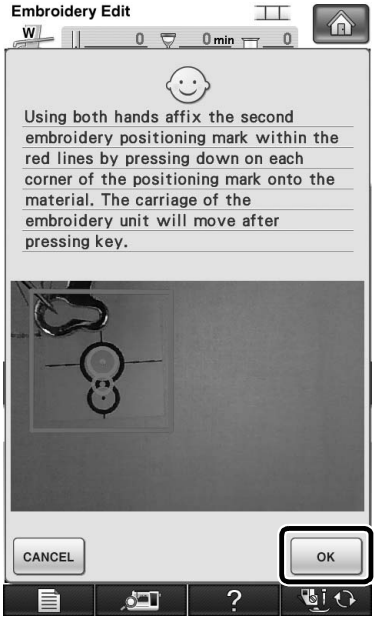


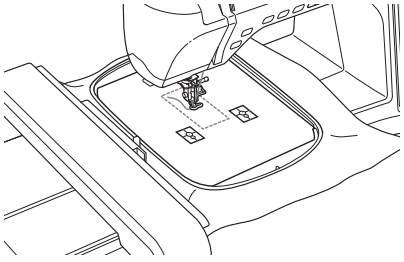
→ The camera detects the first positioning sticker.

Note

- Use new positioning stickers. If a sticker is reused, it may easily peel off. If the sticker peels off during this procedure, the patterns cannot be connected.
- Using fingers apply pressure to the corners of the positioning sticker to firmly affix it to the fabric. If the sticker is not firmly attached, the camera may incorrectly detect the sticker.
- If any of the following messages appear, reattach the positioning sticker in the correct position. Make sure that the sticker is affixed with the large circle at the top.

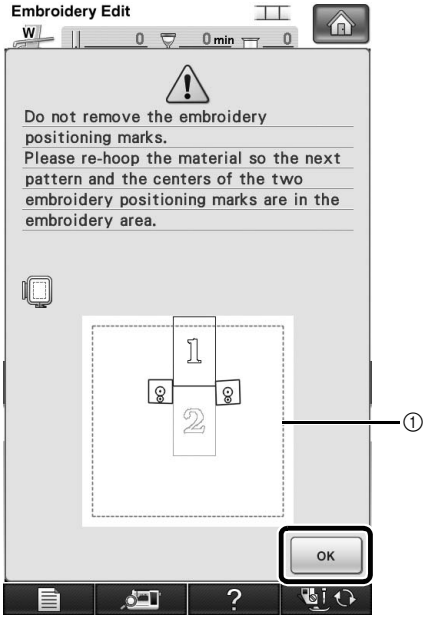
15 **Using both hands affix the second embroidery positioning mark within the red lines by pressing down on each corner of the positioning mark onto the material and then touch** OK **.**





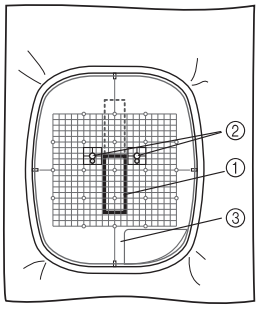
→ The camera detects the second positioning sticker.

16 **After the two positioning stickers have been detected, the following message appears.**



① Embroidering area

While making sure that the two positioning stickers do not peel off, remove the embroidery frame from the machine, and then rehoop the fabric. Be sure to hoop the fabric so the next pattern and both the positioning stickers are within the embroidery sewing area. Reattach the frame and press OK **.**

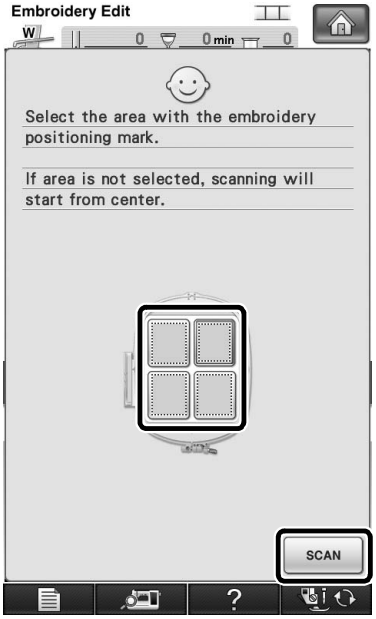


① Pattern to be embroidered next
② Centers of large circles for stickers
③ Embroidery sheet

Note

- If the machine detects that the next pattern and the centers of the large circles of the two positioning stickers do not fit within the embroidering area, the operation will be paused. Follow the on-screen instructions to reposition the positioning stickers. Refer to “Changing the Position of a Sticker” on page 22 to reposition the stickers.
- If the sticker peels off during this procedure, the patterns cannot be connected. If this occurs, restart the procedure from the beginning.

17 **Select the area containing one of the two stickers, and then press SCAN.**

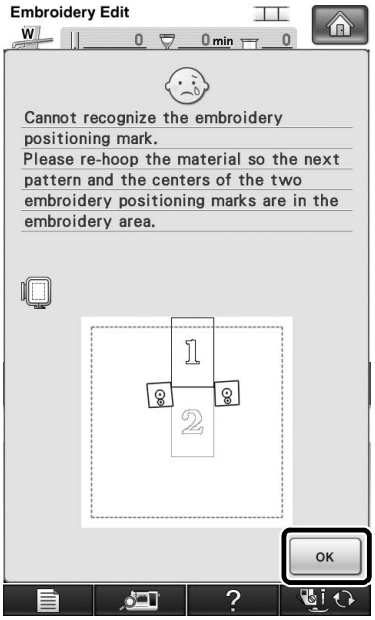


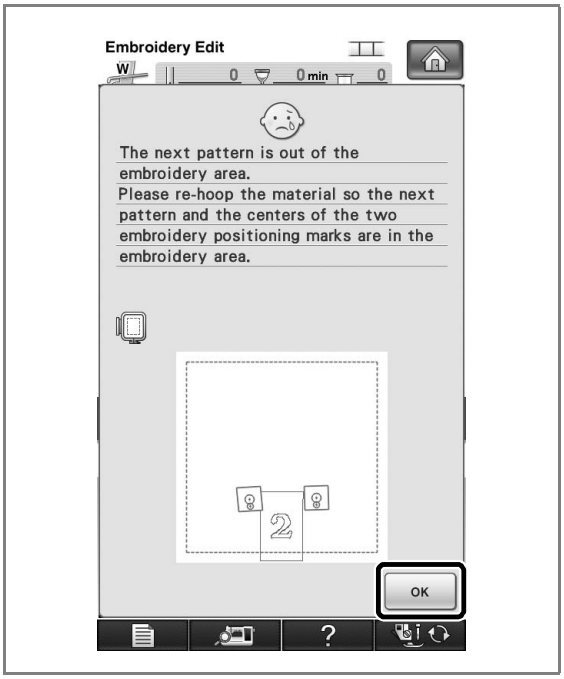
→ The camera detects the two positioning stickers.

Note

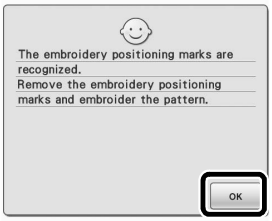
- If either of the following messages appear, rehoop the fabric so that the next pattern and both the positioning stickers are within the embroidery sewing area as indicated in the screen.

  Press OK, and then press SCAN to detect the positioning stickers.





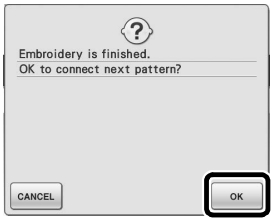
18 **After the positioning stickers have been detected, press OK, and then remove the stickers.**



19 **Lower the presser foot, and then embroider the second pattern.**

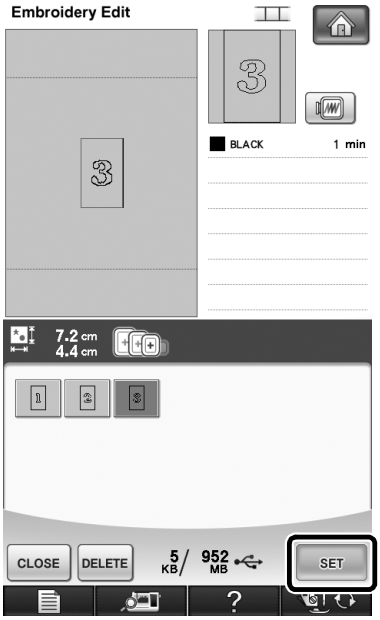
→ When embroidering is finished, the following message appears.

To connect a third pattern, press OK.

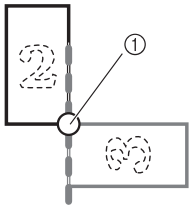


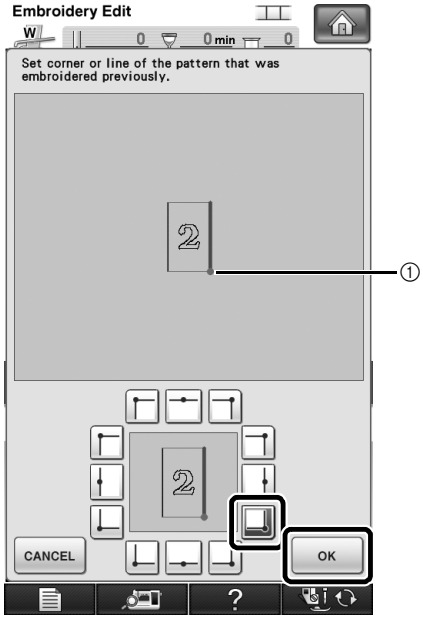
20 **When the following message appears, press OK.**

21 **Select the third pattern (3) for practicing, and press SET.**



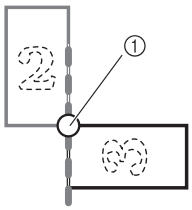
22 **Before embroidering, press to display the pattern connection setting screen. Select the reference edge and reference point for connecting the second and third patterns, and then press OK. In this example, we will select the bottom point of the right edge for the second pattern.**



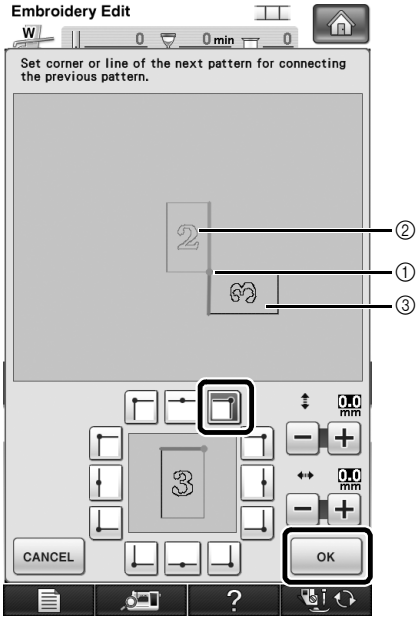


① Reference edge and reference point

23 **Select the connecting position for the third pattern, and then press [OK]. In this example, we will select the right point of the top edge for the third pattern.**



- Pattern rotates automatically when corner position is selected.

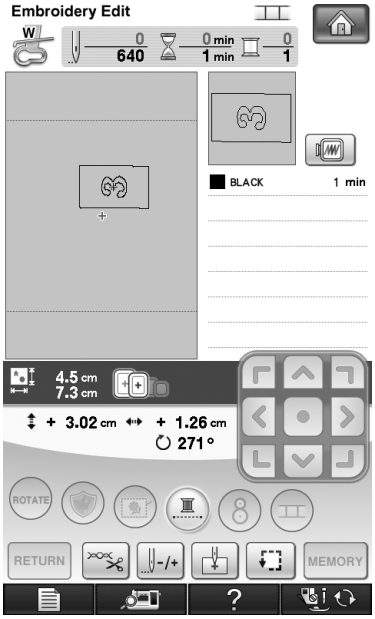


① Reference edge and reference point
② Second pattern (2)
③ Third pattern (3)

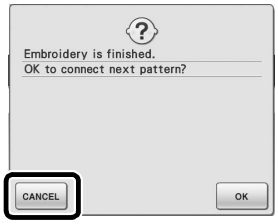
→ Message appears on screen and carriage will move after pressing [OK].

24 **Follow the on-screen instructions to perform steps 13 through 18.**

25 **Lower the presser foot, and then embroider the third pattern.**



→ When embroidering is finished, the following message appears. When finished connecting patterns, press [CANCEL].



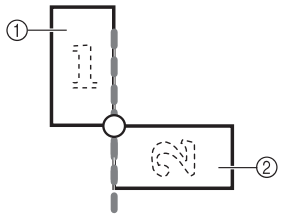
→ After embroidering is finished, is no longer highlighted or located at the top right of LCD screen.

The three patterns have been connected.

Press to clear the pattern.

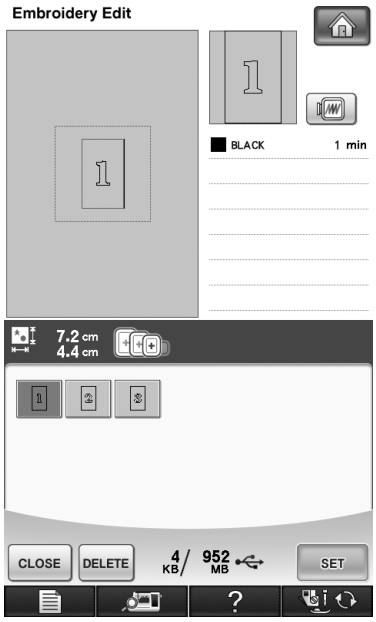
Changing the Position of a Sticker

If the selected pattern or positioning stickers for connecting the next pattern do not easily fit in the embroidering area, follow the on-screen instructions that appear after step 15 on page 18 in order to move the positioning stickers.
For an example, the on-screen instruction appears when you use the embroidery frame with a size of 10 cm × 10 cm (4 inches × 4 inches) to connect patterns as shown below.



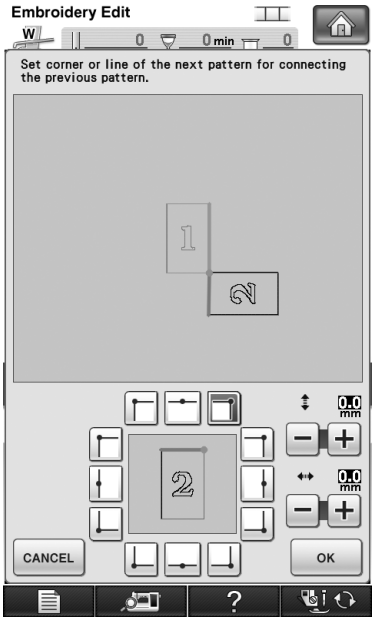
① Pattern1X.pes
② Pattern2X.pes

1 **Refer to steps 1 through 15 of "Practice (Connecting Three Patterns)" using the embroidery frame with a size of 10 cm × 10 cm (4 inches × 4 inches) to embroider the first pattern and to connect the second pattern.**

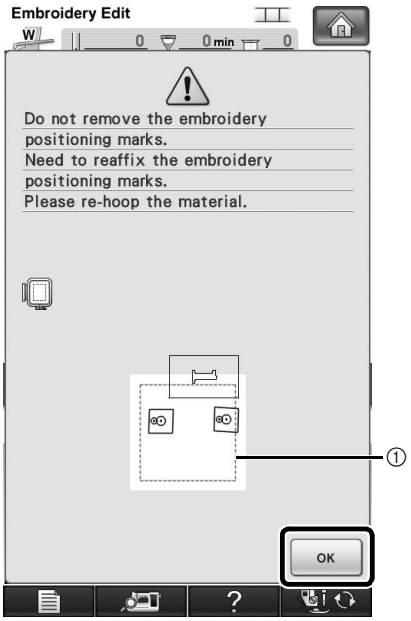


Note

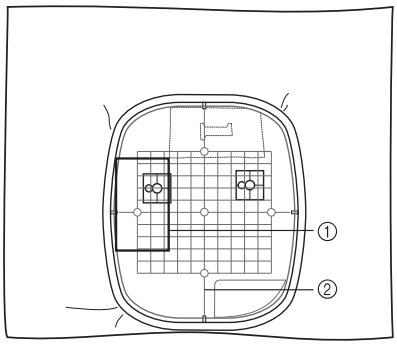
- When referring to steps 1 through 15, make sure you change the reference edge and reference point to reflect this exercise.



2 **Following message appears in step 16 if the next pattern or affixed positioning stickers are close to being out of the embroidering area. Follow the instructions and then press OK.**

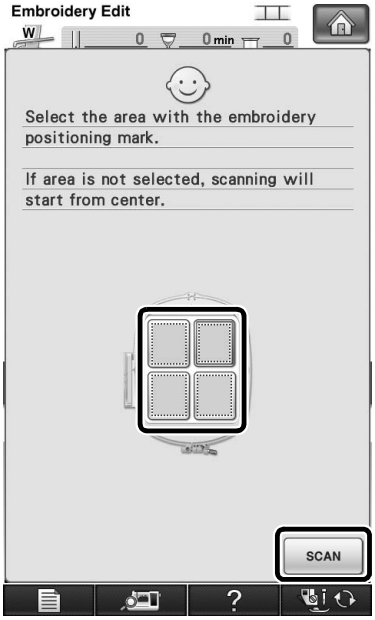


① Embroidering area



① Pattern to be embroidered next
② Embroidery sheet

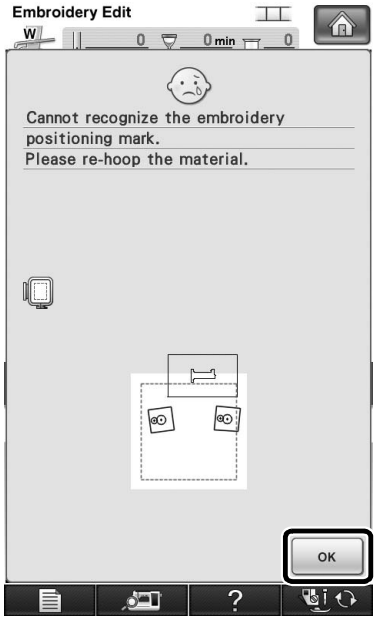
3 **Select the area containing one of the two positioning stickers, and then press SCAN.**



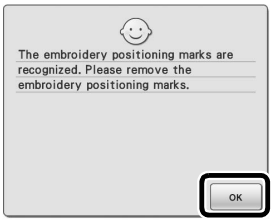
→ The camera detects the two positioning stickers.

Note

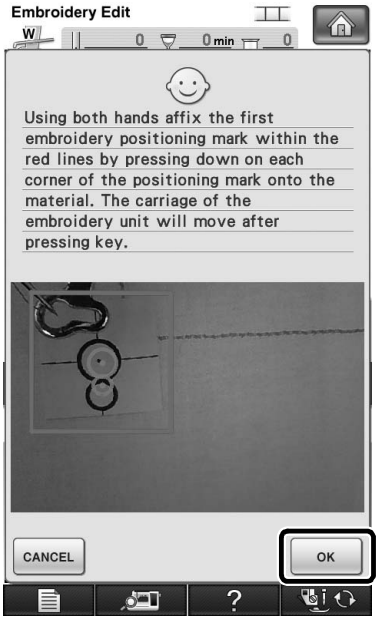
- If the following message appears, rehoop the fabric as indicated in the screen, and then press OK.



4 **After the sticker position is detected, press [OK], and then remove the stickers.**

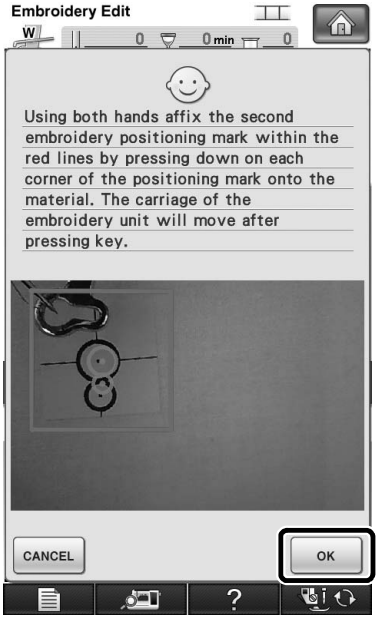


5 **Affix the two positioning stickers again according to the on-screen instructions so that the next pattern or positioning marks can fit in the embroidery area.**



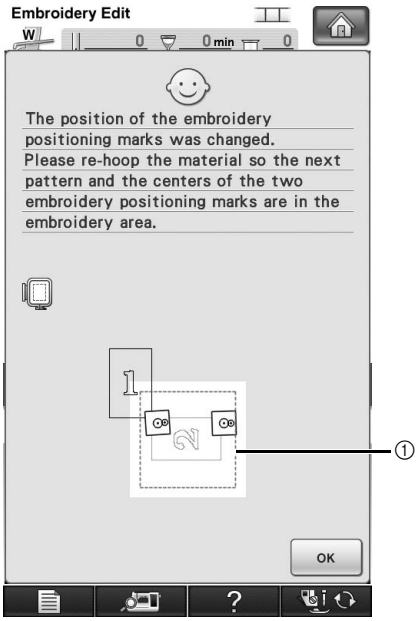
→ Press [OK] so that the camera detects the first positioning sticker.

6 **Affix the second sticker and then press [OK].**

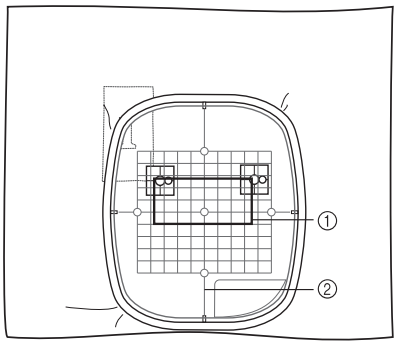


→ The camera detects the second positioning sticker.

7 **After the two positioning stickers have been detected, the following message appears. While making sure that the positioning stickers do not peel off, rehoop the fabric according to the example displayed on the on-screen instruction.**



① Embroidering area

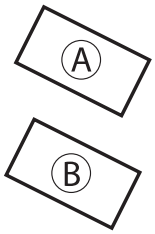


① Pattern to be embroidered next
② Embroidery sheet

8 **Continue the operation from step 17 on page 19 after pressing OK.**

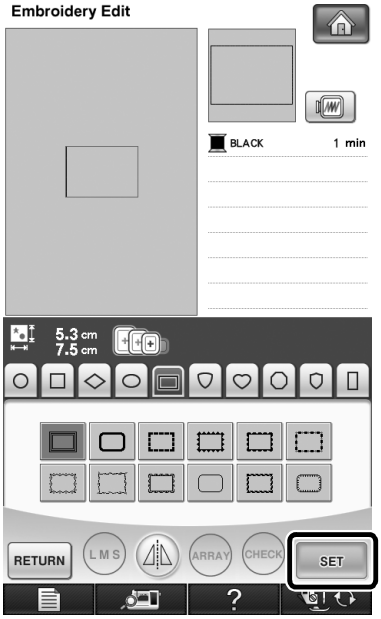
CONNECTING ROTATED PATTERNS

Greater design variations can be created by rotating patterns. The following procedure describes how to connect patterns that are rotated.



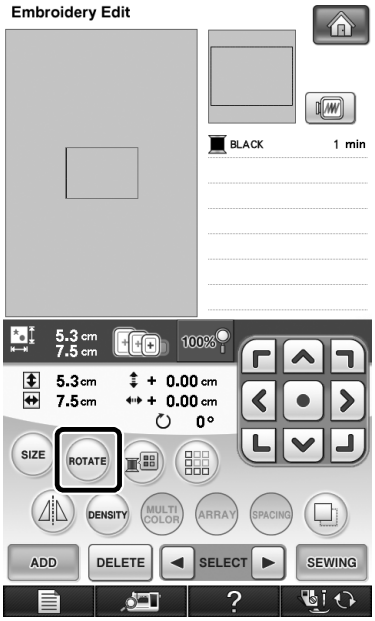
A: First pattern
B: Second pattern

1 **Select the pattern, and then press SET.**

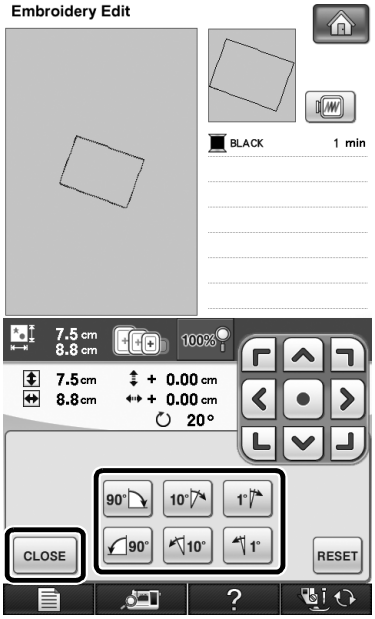


→ The pattern editing screen appears.

2 **Press ROTATE in the pattern editing screen.**



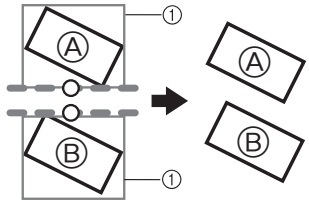
3 **Rotate the pattern, and then press CLOSE.**



Note

- Be sure to rotate the pattern from the pattern editing screen. The reference edge and reference point are specified along the smallest rectangle (not angled) that contains all patterns selected.

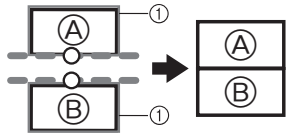
Rectangles and angled patterns



① Rectangle

Refer to "SLIDING THE POSITION OF THE PATTERN TO BE CONNECTED" listed on page 29, to join the first and the second patterns along an edge.

Rectangles and patterns (not angled)



① Rectangle

- Pressing ROTATE in the sewing screen changes the angle at which patterns are connected.

4 **Press SEWING to display the sewing screen.**

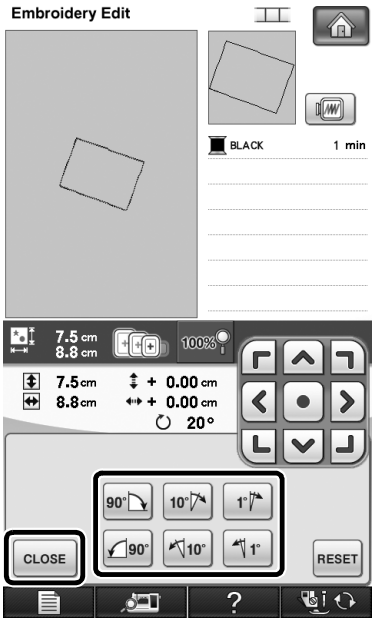
5 **Press .**

6 **Refer to steps 6 through 8 of "Practice (Connecting Three Patterns)" to embroider the first pattern.**

7 **Select the next pattern, and then press SET.**

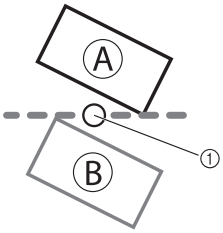
8 **Press ROTATE in the pattern editing screen.**

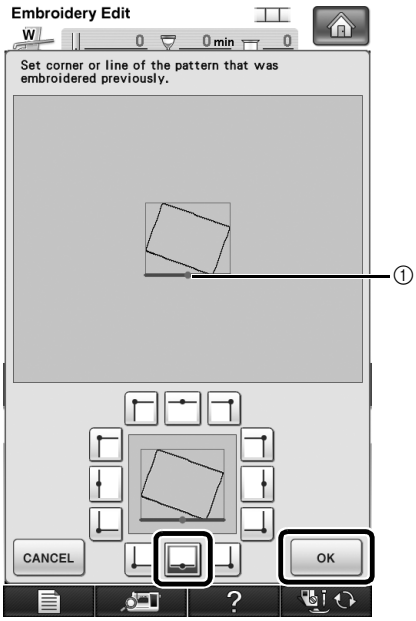
9 **Rotate the pattern to the same angle as the first pattern, and then press CLOSE.**



10 **Press .**

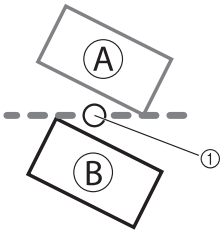
11 **Select the reference edge and reference point for connecting this pattern to the next one. Press [OK].**

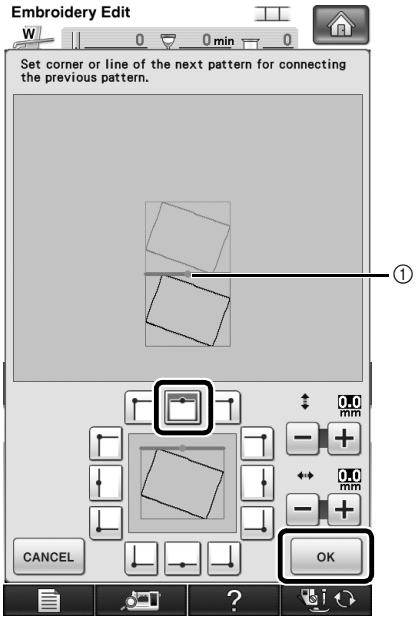




① Reference edge and reference point of first pattern

12 **Select the reference edge and reference point corresponding to those for the first pattern, and then press [OK].**





① Reference edge and reference point

→ Message appears on screen and carriage will move after pressing [OK].

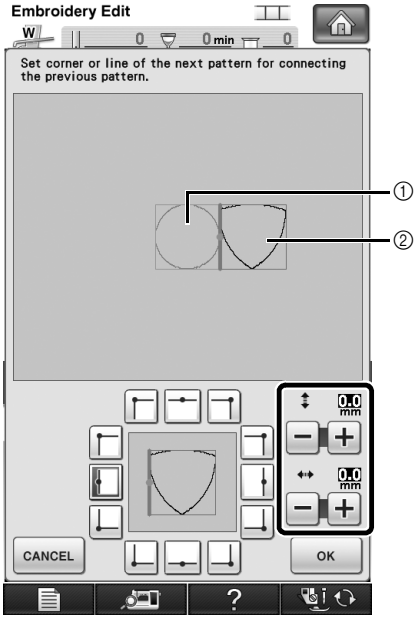
13 **Continue with step 13 of "Practice (Connecting Three Patterns)" to finish connecting the patterns.**

SLIDING THE POSITION OF THE PATTERN TO BE CONNECTED

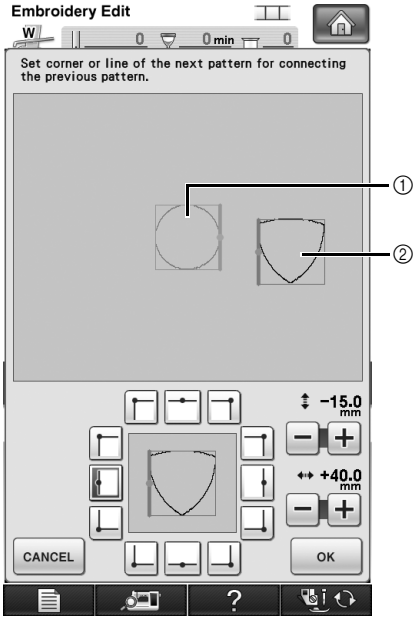
When using the pattern connecting function, patterns can be connected by sliding them, instead of only aligning patterns along reference edges and reference points. This can be done when you want the pattern to be equally spaced when embroidered. The vertical and horizontal shifts can be set up to ±99.9 mm.

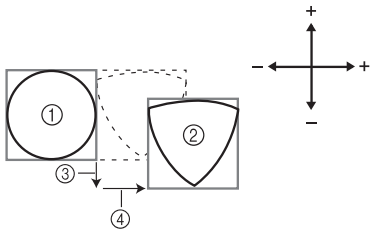
Note

- The arrangement of patterns displayed in the screen may differ slightly from the actual embroidery. Use a ruler to measure the vertical and horizontal shifts before changing the settings.



① First pattern
② Second pattern

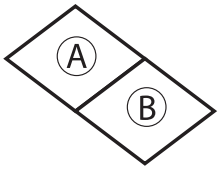




① First pattern
② Second pattern
③ Vertical distance : - 15.0 mm
④ Horizontal distance : + 40.0 mm

Connecting Patterns to be Joined Along an Edge

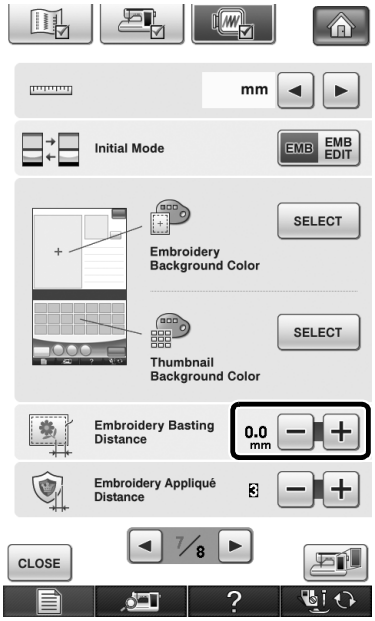
Greater design variations can be created by sliding the patterns being connected.
The following procedure describes how to use this function to connect patterns so they are joined along an edge. Before connecting the patterns, the basting function will be used to measure the distance that the pattern will be slid.



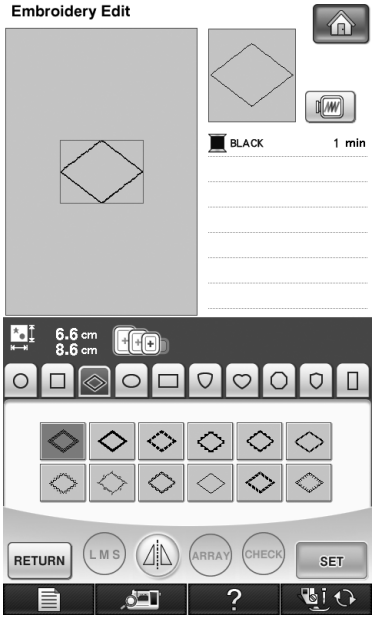
A: First pattern
B: Second pattern

■ Measuring the Distance That the Pattern Will Be Slid

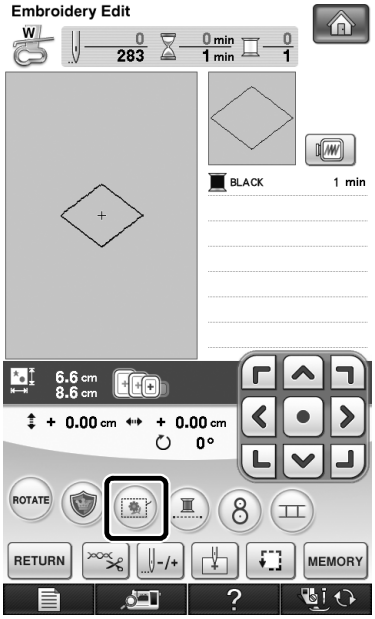
1 **Set "Embroidery Basting Distance" in the settings screen to "0.0".**



2 **Select the pattern whose slide distance is to be measured.**

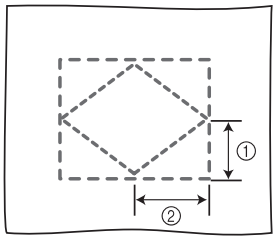


3 **Continue to the sewing screen, and then press to select the basting function.**



→ changes to .

4 **After the pattern is sewn, remove the fabric from the frame, and then measure the distance that the pattern is to be slid.**



① Vertical: 32.8 mm
② Horizontal: 42.8 mm

■ Trial Sewing

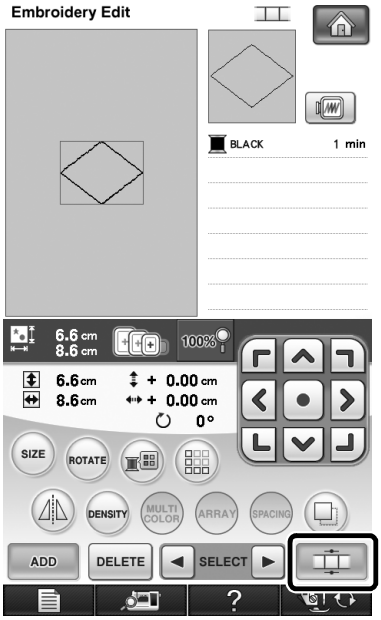
Sew trial embroidery to check that the pattern will be slid the correct distance.

1 **Select the pattern, and then continue to the sewing screen.**

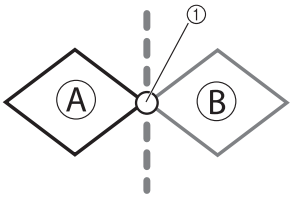
2 **Press in the sewing screen.**

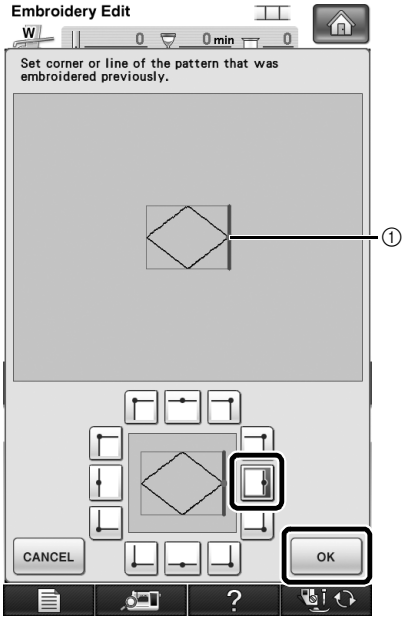
3 **Embroider the first pattern.**

4 **Refer to steps 7 through 10 of "Practice (Connecting Three Patterns)" to select the next pattern.**



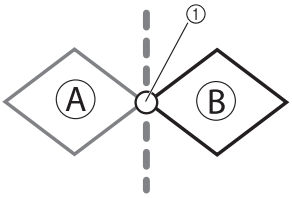
5 **Select the reference edge and reference point for connecting this pattern to the next one, and then press OK.**

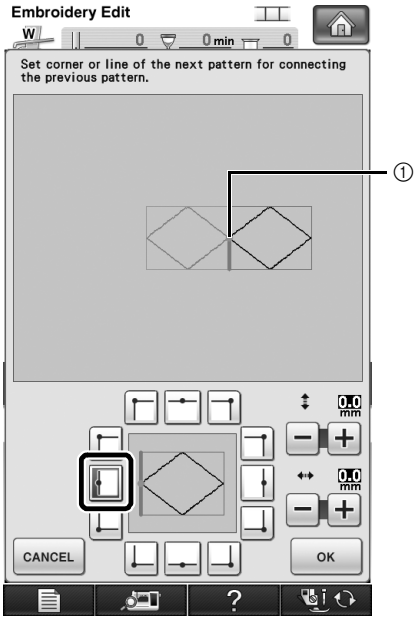




① Reference edge and reference point of first pattern

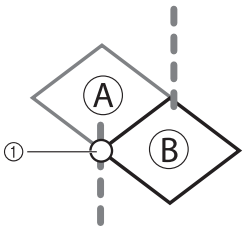
6 **When the pattern connection setting screen appears, select the reference edge and reference point corresponding to those for the first pattern.**

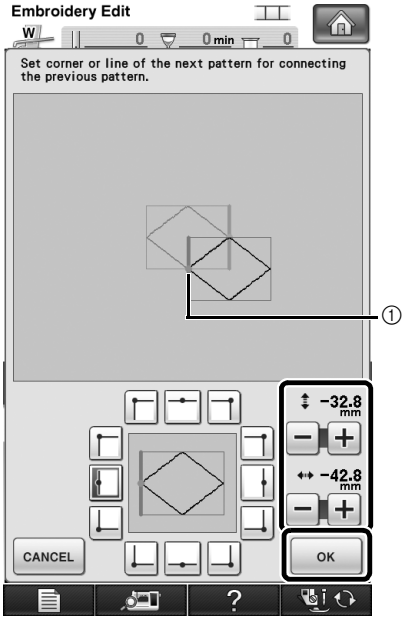




① Reference edge and reference point

7 **Specify the distance that the pattern is to be slid, and then press** OK **.**





① Reference edge and reference point

→ Message appears on screen and carriage will move after pressing OK.

8 **Continue with step 13 of "Practice (Connecting Three Patterns)" to finish connecting the patterns.**

Note

- After checking that the trial embroidery results are satisfactory, sew the actual embroidery. If you decide to change the distance that the pattern is slid after checking the trial embroidery, change the settings selected in step 7.

RESUME FEATURE

If the machine is turned off while the pattern connecting function is being used, the machine will return to the operation indicated below when it is turned on again. The machine operation will differ depending on when it is turned off.

Example: When connecting two patterns

Select the first pattern. Press the pattern connection key .

Begin embroidering the first pattern.

↓

Finish embroidering the first pattern. (A)

If the machine is turned off during any operation in this box, the machine will return to (A) when it is turned on again.

↓

Select the second pattern.

↓

Press .

↓

Specify the reference point for connecting the pattern.

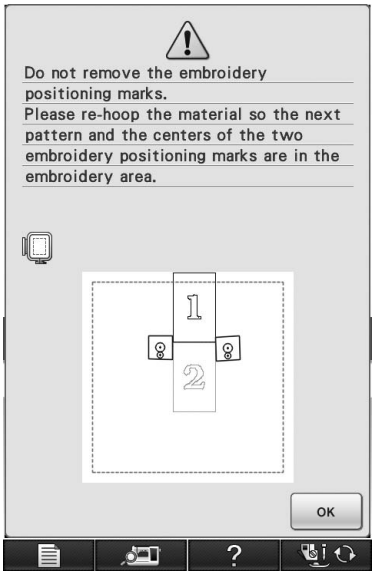
↓

Start detecting positioning stickers (2 locations).

↓

Finish detecting positioning stickers. (B)

If the machine is turned off during any operation in this box, the machine will return to (B) when it is turned on again.

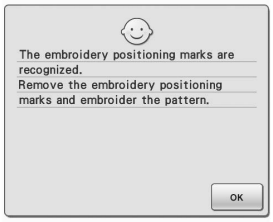


↓

Rehoop the fabric.

↓

Finish detecting positioning stickers (2 locations).



↓

Begin embroidering the second pattern.

↓

Finish embroidering the second pattern.

COLOR CHANGE TABLE FOR THE EMBROIDERY PATTERNS ON THE CD-ROM

Memo

- These files can be opened with PE-DESIGN Ver.8 or higher version on your computer.
- Patterns marked with ● have been rotated. Check your design placement prior to embroidering.
- In this section, the sizes of embroidery patterns describe the sizes when you recall the pattern to your sewing machine.

No. 01 : XKIT3B01.pes

43 min							
1	(406)						
2	(420)						
3	(399)						
4	(420)						
5	(399)						
6	(420)						
7	(406)						

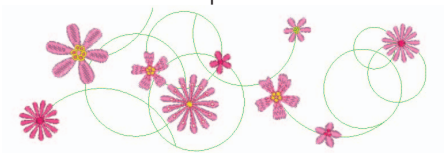
↕ 28.1 cm
↔ 9.2 cm

● No. 02 : XKIT3B02.pes

51 min							
1	(515)	5	(079)	9	(515)	13	(079)
2	(513)	6	(001)	10	(513)	14	(208)
3	(800)	7	(208)	11	(800)	15	(005)
4	(001)	8	(005)	12	(001)	16	(001)

↕ 28.3 cm ↔ 9.0 cm

● No. 03 : XKIT3B03.pes



18 min							
1	(513)	5	(086)	9	(085)	13	(206)
2	(001)	6	(107)	10	(206)		
3	(085)	7	(206)	11	(107)		
4	(206)	8	(513)	12	(513)		

↕ 26.7 cm ↔ 9.3 cm

● No. 04 : XKIT3B04.pes

43 min											
1	(800)	5	(513)	9	(205)	13	(405)				
2	(209)	6	(405)	10	(209)						
3	(205)	7	(513)	11	(800)						
4	(507)	8	(507)	12	(614)						

↕ 29.1 cm ↔ 9.4 cm

● No. 05 : XKIT3B05.pes

77 min							
1	(348)	7	(330)	13	(126)	19	(206)
2	(330)	8	(126)	14	(330)	20	(126)
3	(348)	9	(348)	15	(126)	21	(330)
4	(330)	10	(330)	16	(348)	22	(206)
5	(206)	11	(812)	17	(330)	23	(330)
6	(126)	12	(206)	18	(812)	24	(126)

↕ 28.4 cm ↔ 9.5 cm

● No. 06 : XKIT3B06.pes

35 min					
1	(542)	4	(399)	7	(542)
2	(019)	5	(810)	8	(810)
3	(007)	6	(019)	9	(007)

↕ 28.7 cm ↔ 9.4 cm

No. 07 : XKIT3B07.pes

17 min	
1	(406)
2	(509)
3	(206)
4	(337)
5	(406)
6	(509)
7	(206)
8	(337)
9	(406)
10	(509)
11	(206)
12	(337)
13	(406)

↕ 28.4 cm
↔ 9.4 cm

● No. 08 : XKIT3B08.pes

18 min			
1 (348)	5 (209)	9 (206)	13 (209)
2 (209)	6 (348)	10 (209)	
3 (323)	7 (209)	11 (348)	
4 (206)	8 (323)	12 (323)	

↕ 21.6 cm ↔ 6.9 cm

● No. 09 : XKIT3B09.pes

27 min			
1 (420)	6 (420)	11 (399)	16 (399)
2 (079)	7 (079)	12 (420)	17 (420)
3 (017)	8 (420)	13 (079)	18 (001)
4 (027)	9 (027)	14 (027)	19 (027)
5 (399)	10 (017)	15 (017)	20 (420)

↕ 26.7 cm ↔ 6.0 cm

● No. 10 : XKIT3B10.pes

55 min			
1 (509)	9 (614)	17 (807)	25 (807)
2 (810)	10 (612)	18 (534)	26 (085)
3 (515)	11 (202)	19 (509)	27 (612)
4 (534)	12 (085)	20 (515)	28 (614)
5 (086)	13 (807)	21 (534)	29 (202)
6 (085)	14 (612)	22 (202)	30 (807)
7 (534)	15 (085)	23 (807)	
8 (509)	16 (086)	24 (614)	

↕ 29.2 cm ↔ 8.9 cm

Version 3.1 or later
English
111-001