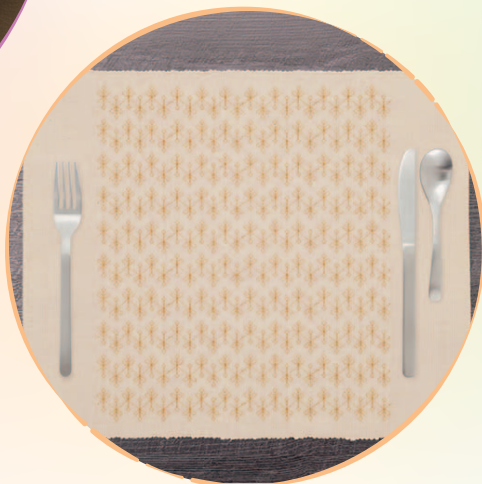


AVENEER

EV1/EV1-LE

Premium Pack I

Operation Manual



Be sure to read this document before using the machine.
We recommend that you keep this document nearby for future reference.
The latest manuals are available at Brother support website (<https://s.brother/cpdac/>).

Instructional Videos



brother

<https://s.brother/cvdae/>

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Introduction

This document describes the added/upgraded functions. Before performing the operations described in this document, upgrade your machine as instructed in the Installation Guide. For general operation, refer to the machine's Operation Manual.

Images in this document are for illustration purposes and may differ from actual items or displays.

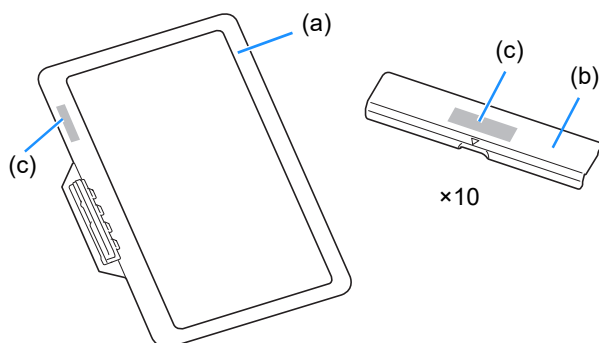
The instructional videos are available online and can be viewed on any mobile device or computer.
<https://s.brother/cvdae/>

Magnetic Frame

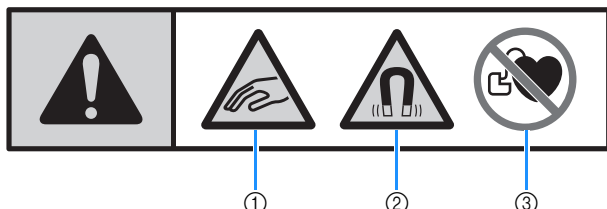
A magnetic frame with the following embroidering area is included:
 408 mm (H) × 272 mm (W) (approx. 16 inches (H) × 10-5/8 inches (W))

■ Precautions for Use

□ Warning Sign



(a) Base frame
 (b) Magnets
 (c) Warning signs



This product contains magnets.

- ① Be careful not to pinch your fingers between the base frame and magnet.
- ② Be sure to keep this product away from precision electronics (smartphones, etc.), computer disks, credit cards with a magnetic stripe, etc.
- ③ Do not use this product if you have a pacemaker.

⚠ CAUTION

- When embroidering large pieces of fabric, do not allow the excess fabric to hang down from the surface where the machine is set up. This may cause the needle to break or result in injury.

💡 Note

- Hold the base frame when attaching and removing the magnetic frame from the machine. Picking up by the magnet may cause the base frame to separate from the magnet.
- When using a magnetic frame, check that there are no items (metal objects such as needles and pins) stuck to the magnetic frame (back side of the magnet and base frame).
- Do not use stiff or elastic materials, or thick jackets, etc. The magnetic frame may not be able to hold such materials securely, causing them to shift.
- Use fabric with a thickness of no more than 2 mm (approx. 1/16 inch). However, embroidery may not be possible on specially processed fabrics, regardless of their thickness.

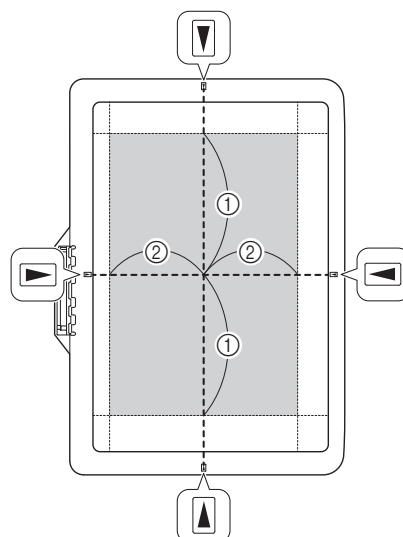
📝 Memo

- When storing, placing a piece of fabric between the base frame and the magnets will make it easier to remove the magnets.

■ Hooping Fabric and Attaching the Magnetic Frame

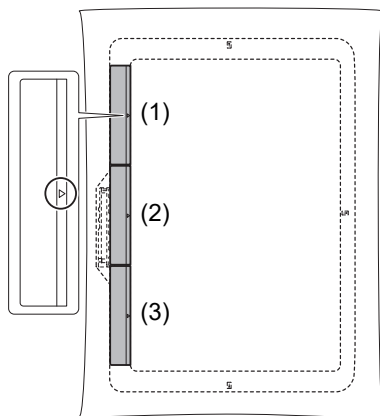
- 1 Place your fingers in either the inner or outer gaps of the magnets, lift the magnets, and remove them from the base frame.
- 2 Spread the stabilized fabric over the base frame.

* Use the ▼ marks on the base frame to confirm the embroidering area (the gray area in the illustration).

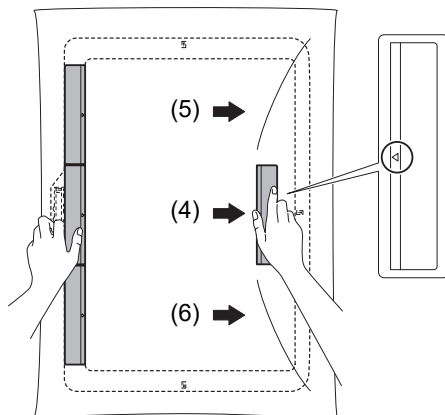


- ① 204 mm (approx. 8 inches)
- ② 136 mm (approx. 5-11/32 inches)

- 3 Attach 3 magnets to the left side of the base frame, making sure the ▽ marks face inward.**



- 4 While smoothing the fabric with the magnets, attach 3 magnets to the right side of the base frame, making sure the ▽ marks face inward.**

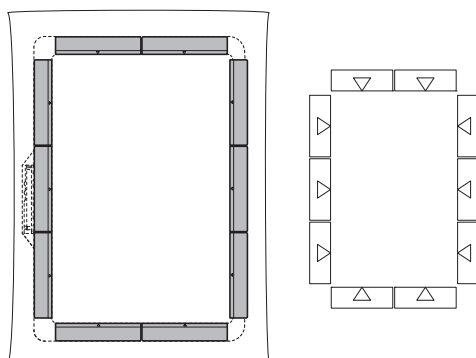


Memo

- When using pliable material such as lightweight fabric, or when the fabric cannot be smoothed, pull the fabric from outside of the frame when hooping it.

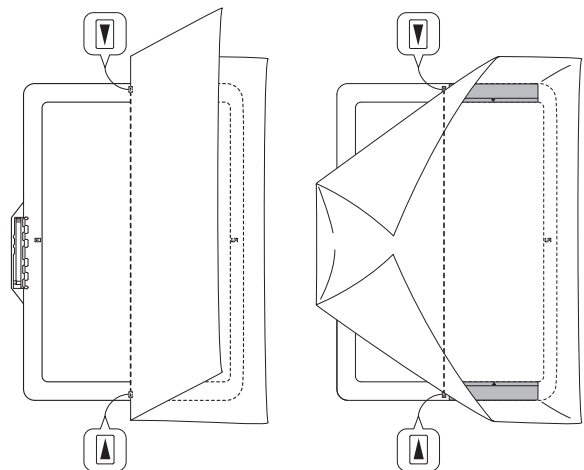
- 5 Attach 2 magnets to the top and bottom of the base frame, making sure the ▽ marks face inward.**

- * To secure the fabric properly, ensure that all the magnets' ▽ marks are facing inward.
- * Make sure that the fabric is taut and has no wrinkles.



Memo

- When positioning the magnetic frame according to the center line drawn on the fabric, align the center line of the fabric with the ▽ marks on the base frame, and temporarily fix the upper right and lower right corners with magnets. Next, follow steps **3** and **4** to attach the magnets, securing the left side first and then the right side. Finally, fix the upper left and lower left corners with magnets. If the fabric near the temporarily fixed upper right and lower right magnets is loose, adjust the magnets so that there is no slack.

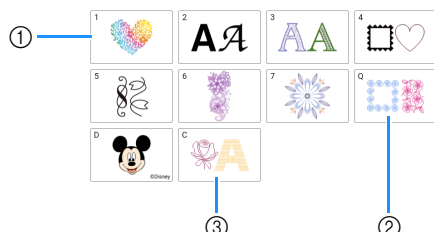


- 6 Grab the magnets one at a time and slightly lift up the frame to confirm that the magnets securely hold the fabric without coming off.**
- 7 Set the machine to embroidering mode, and then raise the needle and embroidery foot.**
- 8 While holding the base frame, attach the magnetic frame to the embroidery unit.**
- * Attach the support table (included with the machine) to support the magnetic frame and fabric.
- 9 Select the pattern, and then use the function for checking the embroidering area. Check that the embroidery foot does not hit the magnetic frame or get caught in the fabric.**

New Embroidery Patterns

Patterns have been added to the following categories. For details, refer to the Embroidery Design Guide.

<https://s.brother/cmdkg/>



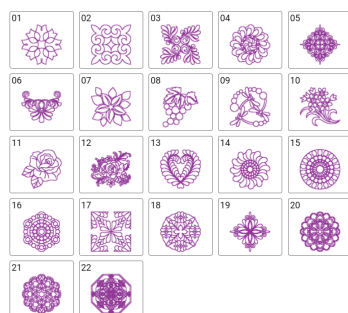
- ① The [French Knot] category has been added with 10 patterns. In addition, a total of 13 embroidery patterns have been added to the [Botanical], [Animals], [Applique], and [Quilt] categories.
- ② 5 Edge-to-Edge Quilting patterns have been added to the  category.
- ③ The  Crochet Couching category has been added with 7 patterns.

New Built-in Stamps

Trapunto-style quilt design stamps are available in My Design Center. They can be used as regular stamps and for Trapunto-style embroidery.



Closed shapes

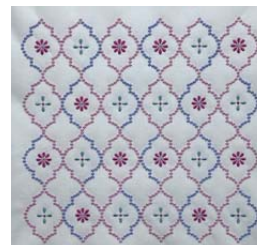


Memo

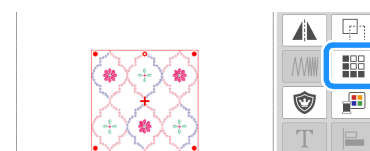
- For Trapunto-style quilting, refer to “Embroidering Trapunto-style Quilt Designs” on page 9.

Repeating Patterns Using the Matrix Copy

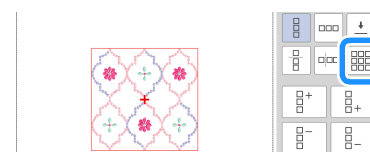
Place the pattern repeatedly throughout the embroidering area.



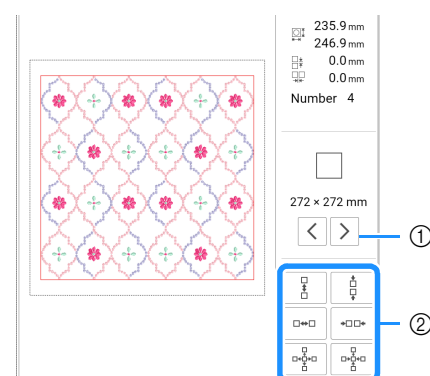
- 1 Select a pattern and touch [Edit].
- 2 Edit the pattern if necessary, and touch .



- 3 Touch .



- 4 Select the embroidery frame and adjust the spacing between repeated patterns.



- ① The patterns are repeated within the embroidering area of the selected embroidery frame size.
- ② Adjust the spacing of the repeated patterns.

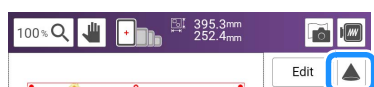
- 5 Touch [Set] then [OK].

Pattern Projection+ Function (Projecting the Entire Pattern onto the Fabric)

With this function, the embroidery frame will automatically move to change the projection area so that the entire pattern will gradually be projected onto the fabric. This allows you to check the area to be embroidered and how the pattern will be placed.

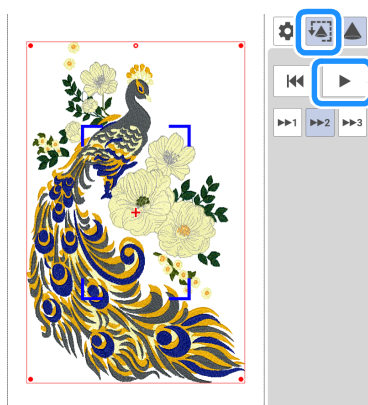
1 Make sure that the embroidery frame is attached to the machine, and then touch .

- * This function is available on the Embroidery Edit screen, Embroidery screen, and the Stitch Settings screen of My Design Center. Here, as an example, the entire pattern is projected on the Embroidery Edit screen.

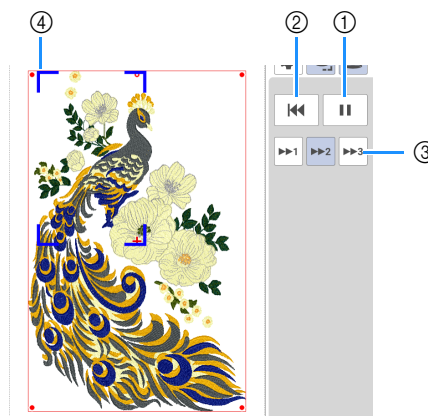


→ The embroidery pattern is projected onto the fabric.

2 Touch and to start projecting the entire pattern.



→ The embroidery frame moves, gradually changing the area of the pattern being projected, until the entire pattern has been projected onto the fabric.



- ① Touch to temporarily pause the embroidery frame.
- ② Touch to return the embroidery frame to its original position.
- ③ Select the speed at which the embroidery frame moves.
- ④ The part of the pattern indicated by blue lines at the four corners will be projected onto the fabric.

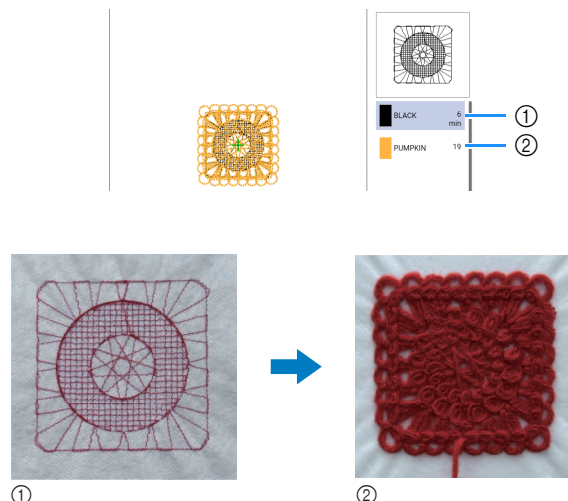
Memo

- The movement of the embroidery frame varies depending on the size and placement of the embroidery pattern.
- While paused, you can change the location of the projection area on the fabric by dragging the blue line at one of the four corners.

Embroidering Crochet Couching Patterns

Before You Start Crochet Couching

In crochet couching, first embroider the underlay onto a water soluble stabilizer. Next, set the yarn in the machine and perform the couching embroidery. After embroidery is complete, dissolve the water soluble stabilizer and finish off the yarn ends.



- ① Embroider the underlay. The thread color of the underlay embroidery is displayed as [BLACK].
- ② Perform couching embroidery (secure the yarn).

CAUTION

- When using yarn, we recommend selecting yarn of weight 4 (MEDIUM ). Medium yarn is often referred to as worsted weight, 20 knitted stitches per 10 cm, or 9-11 wraps per inch. The diameter of the yarn is approximately 2-3 mm (approx. 1/12-1/8 inch). If the yarn is extremely thin or thick, has an unusual shape (flat or furry), or more than 2 plies, the best finishing results may not be achieved, or injuries or damage may result.

Note

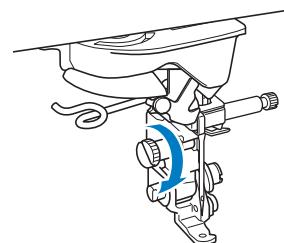
- Use washable yarn and non-woven type water soluble stabilizer.
- Before embroidering your project, do trial embroidery with the same materials as your project.

Memo

- For best results, use upper embroidery thread that matches the color of the yarn.

Preparing for couching embroidery

- 1 On the home page screen, touch [Embroidery]. Touch  to lock all keys and buttons, and then raise the presser foot lever.
- 2 Attach embroidery couching foot “Y”.

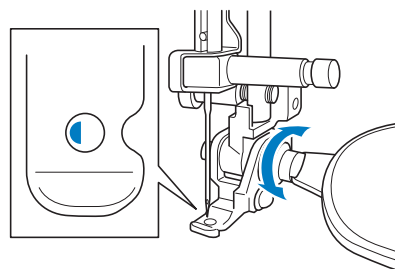


CAUTION

- When using embroidery couching foot “Y”, make sure the machine is in embroidery mode. Otherwise, the needle will strike the embroidery couching foot, causing the needle to break and possibly causing injury.

- 3 Rotate the handwheel and check that the needle is in the left half of the hole in embroidery couching foot “Y”.

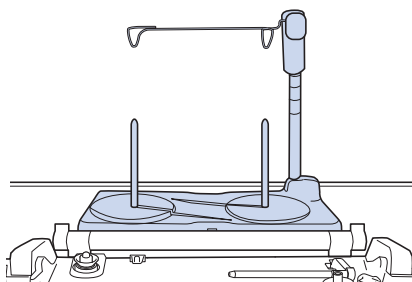
If the needle is not in the left half, use the multi-purpose screwdriver to turn the screw of embroidery couching foot “Y” to adjust the position of the embroidery foot. Turn the screw toward you to move the embroidery foot to the right. Turn the screw toward the back to move the embroidery foot to the left. After making adjustments, rotate the handwheel and check that the needle does not touch the presser foot.



- 4 Touch  to unlock all keys and buttons.

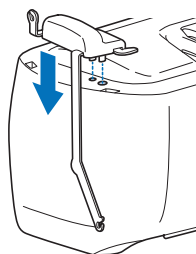
5 Attach the spool stand to the machine.

At this time, set the telescopic thread guide shaft to its lowest level. Refer to the height shown in the illustration.



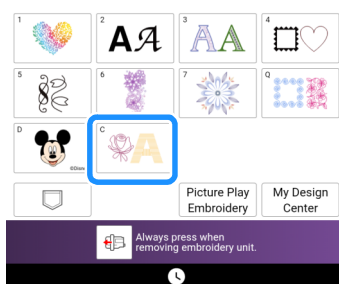
* For the assembly of the spool stand, refer to the machine's Operation Manual.

6 Insert the yarn guide into the slot on the top left of the machine.

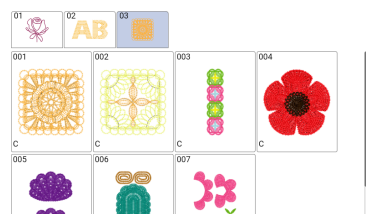


■ Selecting a Pattern and Stitching the Underlay

1 Touch .



2 Touch , then select a crochet couching pattern.

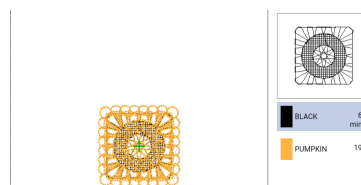


3 Touch [Set] then [Embroidery].

4 Set a bobbin fully wound with embroidery bobbin thread in the machine.

5 Prepare the spool of upper thread that matches the color of the yarn for the underlay, which is indicated as [BLACK] on the thread color list on the screen. Set it on the machine's spool pin and thread the machine.

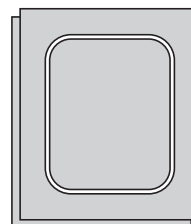
* For best results, use an upper thread that matches the color of the yarn; this will make the underlay less noticeable.



Note

- Do not use the spool stand for upper thread. Otherwise, thread may tangle with yarn.

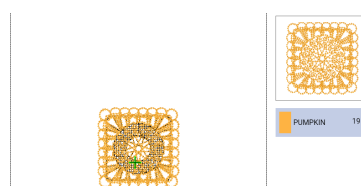
6 Layer two pieces of non-woven water soluble stabilizers, hoop them in the embroidery frame, and attach the frame to the machine.



7 Embroider the first color (the underlay).

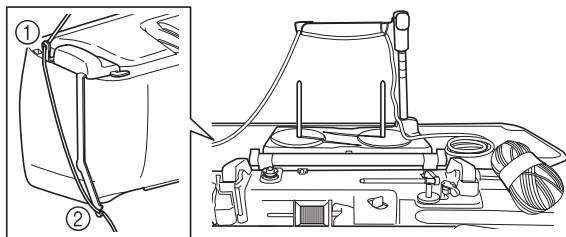
■ Setting the Yarn

1 Prepare washable yarn.



2 Touch to lock all keys and buttons, and then raise the presser foot lever.

- 3** Pass the yarn through the telescopic thread guide and the yarn guide (①) to (②).

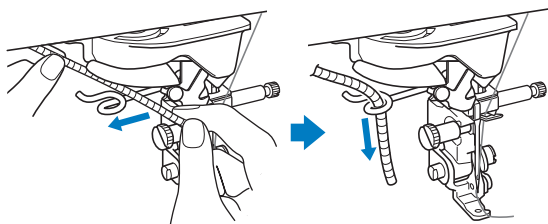


Note

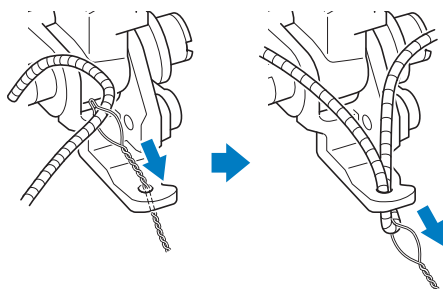
- Pull off an appropriate amount of yarn from the ball so that the yarn does not become taut.
- Make sure that the yarn does not become entangled as you work.

- 4** Pass the yarn through the guide on embroidery couching foot “Y”.

- * If passing the yarn is difficult, touch  to move the embroidery frame.



- 5** Thread the yarn through embroidery couching foot “Y”.
Pass the yarn through the loop in the yarn threader, and then pass the threader from top to bottom through the hole in embroidery couching foot “Y”. Pull the yarn to the front of the machine.

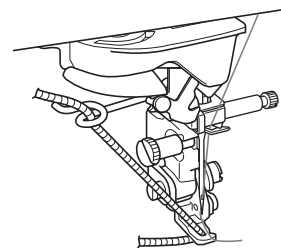


Note

- It may be helpful to lower the embroidery couching foot “Y” after the yarn threader has passed through the foot if the yarn is snagging on the needle.
- Place a sheet of paper under the presser foot to smoothly pass the yarn threader through the hole in embroidery couching foot “Y”.

- 6** Touch  to unlock all keys and buttons.

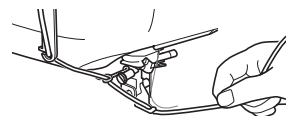
- 7** If necessary, replace the upper thread.



- * For best results, use an upper thread that matches the color of the yarn.

■ Couching Embroidery and Finishing Off Yarn Ends

- 1** Make sure that about 20 cm (approx. 8 inches) of yarn is pulled to the front of the machine.
- 2** While holding the yarn in your hand in front of you, press the “Start/Stop” button.



⚠ CAUTION

- Pulling the yarn upwards may cause it to catch on the needle, causing it to break. Be careful not to allow the yarn to catch on the needle.

Note

- Before embroidering, make sure that there is enough yarn, upper thread and bobbin thread.
- Make sure that the yarn passes smoothly through the guides. Unravel as much yarn from the ball as necessary so that the yarn does not become taut.
- Use yarn that has no knots.

- 3** After a few stitches, press the “Start/Stop” button to stop the machine.
- 4** Cut the beginning yarn tail at the edge of the stitches.
- 5** Press the “Start/Stop” button to resume embroidery.

Memo

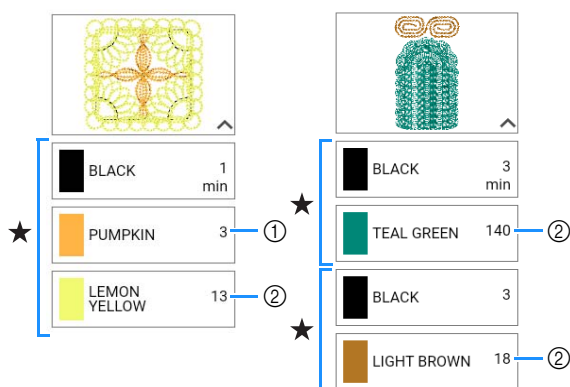
- When using a high-density yarn, the upper thread tension may be disturbed. If this happens, it is possible to improve it by raising the [Embroidery Foot Height] by about 1 mm (approx. 1/32 inch) on the settings screen.

6 When the embroidery is finished, cut the yarn according to the embroidery order.

In this example, since the last thread color of the part is embroidered with couching, leave about 20 cm (approx. 8 inches) of yarn when cutting to finish off the end.

Note

- Check the thread color list for the selected pattern, and after embroidering each color, cut the yarn. Patterns composed of multiple parts are designed so that you do the underlay stitching and then the couching embroidery for each part (★). Before starting the underlay for the next part, remove the yarn.
 - For a thread color used in the middle of a part (①), cut the yarn at the edge of the stitches after embroidery is finished.
 - For the last thread color of a part (②), leave about 20 cm (approx. 8 inches) of yarn and then cut it after embroidery is finished.



7 Remove the embroidery frame and remove the water soluble stabilizer.

8 Cut off the unnecessary portions of the water soluble stabilizer and wash or soak the embroidered piece in warm water until it no longer feels slippery. After the final rinse, dry the embroidery motif until slightly damp, shape by hand, and allow to dry completely.

9 Finish off the end of the yarn.

- * To finish, for example, you can thread the yarn through a tapestry needle and tie it at the back, or fold the yarn to the back side and secure it with glue. Trim any excess yarn.



Memo

- The Embroidery Design Guide contains a list of thread colors and examples of arrangements for each pattern.

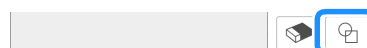
Embroidering Trapunto-style Quilt Designs

This section describes one example of embroidering trapunto-style quilt designs by using the machine's features to create dimensional patterns with batting.

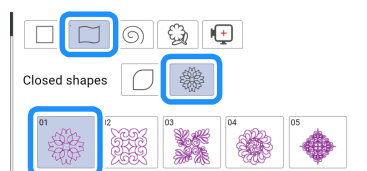


Creating a Trapunto-style Quilt Pattern

1 Touch [My Design Center], then touch



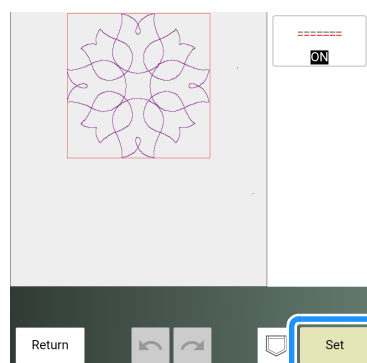
2 Select a trapunto-style quilt design stamp. Touch [OK].



3 Edit the pattern, then touch [Next].

- * Touch to change the size of the pattern as needed.
- * Keep the default stitch settings (line: [Running stitch], fill: [No stitches]).

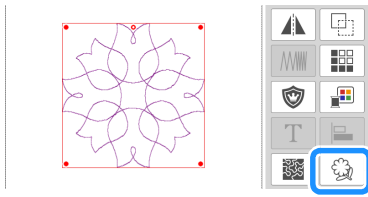
4 Touch [Set].



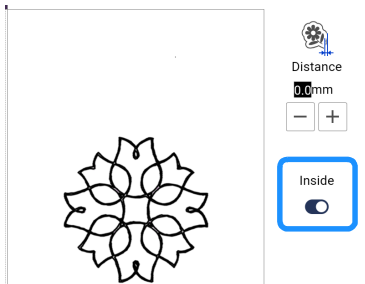
5 When a message appears, touch [OK].

→ The Embroidery Edit screen is displayed.

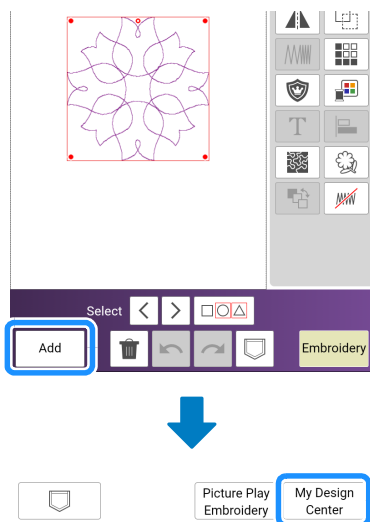
6 Touch [Edit], then touch .



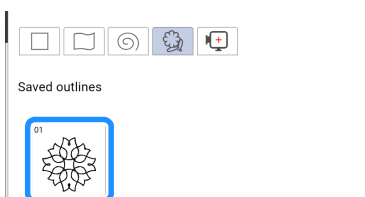
7 In this example, to extract the inner lines of the pattern, turn [Inside] on. Touch , then touch [OK] to send the outline of the pattern to [My Design Center].



8 Touch [Add], then touch [My Design Center].

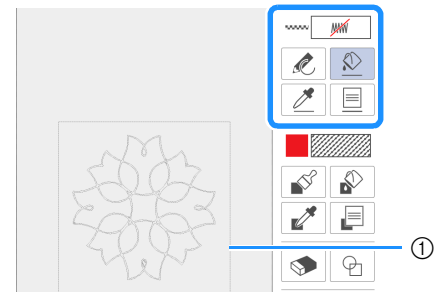


9 Touch  and touch , then select the saved outline. Touch [OK].



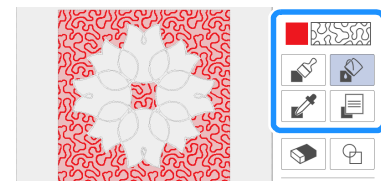
10 Touch , then add a shape for the decorative pattern frame. Change the frame size and [Line] settings as needed.

- * Place a frame that fits within the embroidering area, including the basting that will be added later on the Embroidery screen.
- * For more information about editing patterns refer to "Create a Stippling Design with the Basic Procedure" the machine's Operation Manual.

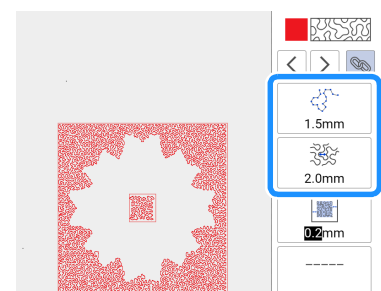


① Frame (in this example, set to [Line without stitch])

11 Add the decorative pattern. In this example, stippling is added. Touch [Next].



12 Change the stitch settings if necessary. In this example, change [Run Pitch] and [Spacing].



Memo

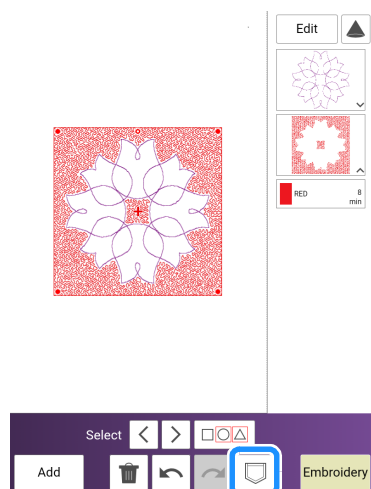
- For a more pronounced Trapunto effect:
 - When using a stippling background, decrease the [Spacing] setting and also decrease the [Run Pitch] setting accordingly.
 - When using a decorative fill background, decrease the [Size] setting.
- If you touch , all areas with the same stitch type are selected, allowing you to change the stitch settings at the same time.

13 Touch [Set] and then touch [OK].

- The Embroidery Edit screen appears. The trapunto-style pattern and decorative pattern are now combined.

Embroider with Batting Secured to Backing Fabric

- 1 Touch  to save the combined pattern to the machine's memory.

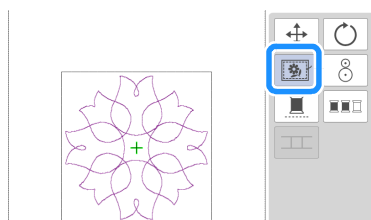


- 2 To embroider only the trapunto-style pattern, select the decorative pattern with  , and touch  to delete it. Touch [Embroidery].

- * Be sure to save the combined pattern before deleting the decorative pattern. The saved pattern is used in the next section.

- 3 Touch [Layout], then touch  to add basting stitches.

- * Do not move the pattern after adding the basting stitch to ensure that it stays in the center of the embroidery frame.
- * You can change the distance from the pattern to the basting stitches by using [Embroidery Basting Distance] on the settings screen. If you want to change the distance, touch  to remove the basting stitches, change the settings, and then touch  again to add the basting stitches.

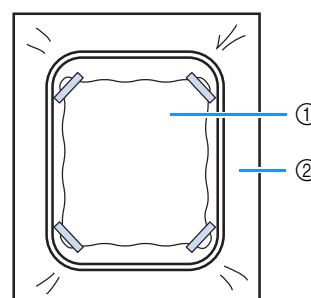


- 4 Hoop the backing fabric.

- * For best results, place the stabilizer material (such as a lightweight cutaway stabilizer) under the backing fabric to achieve a cleaner finish.
- * Using a magnetic frame, which keeps the fabric firmly in place, is recommended.

- 5 Place a single or double layer of batting on top of the backing fabric and temporarily secure the four corners with tape.

- * Use batting that is either a single layer or double layer and less than 10 mm (approx. 3/8 inch) thick. As a guide, raise the presser foot with the presser foot lifter button, and the batting should be thin enough to pass under the presser foot without touching it.
- * If you are embroidering a decorative pattern with batting, prepare batting larger than the decorative pattern.
- * Make sure the batting does not protrude from the embroidery frame.



- ① Batting (one or two layers)
- ② Backing fabric

CAUTION

- Using thick batting may cause the needle to break.

Memo

- If you use fluffy or fuzzy batting, place a water soluble stabilizer or a thin tear-away stabilizer as a topper on top of the batting, and secure it with tape. This will prevent the embroidery presser foot from catching on the batting during embroidery. After the embroidery is finished, remove the topper.

- 6 Set the embroidery frame in the machine and start the embroidery.

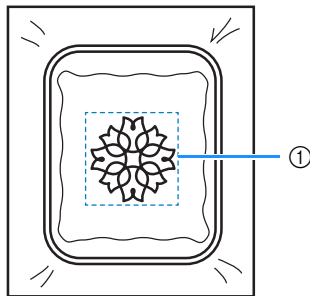
- * For best results, we recommend setting [Max Embroidery Speed] to [600 spm] on the settings screen.
- * If threading the upper thread is difficult, touch  to move the embroidery frame.

Memo

- If the basting stitch did not form at the beginning, press the reinforcement stitch button to sew reinforcement stitches before starting the basting stitch.

7 When embroidery is finished, remove the embroidery frame from the machine and remove the basting stitches.

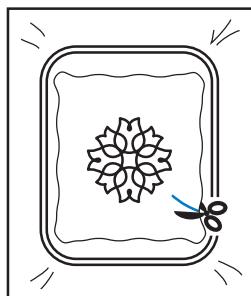
- * Do not remove the backing fabric and batting from the embroidery frame.



① Basting stitch

8 If you prefer, trim the batting along the edge of the stitching.

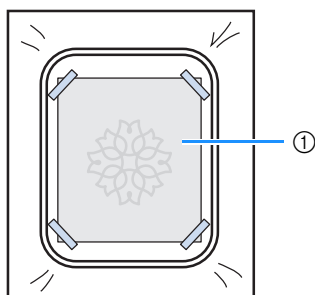
- * First, roughly cut the batting along the outer edge of the stitching, then carefully trim closer to the stitching line.
- * If you are using double layers of batting, you may trim only one layer.
- * You can also proceed to the next step without trimming the batting.



Embroidering by Securing the Top Fabric to the Backing Fabric

1 Place the top fabric on the backing fabric and secure it with tape. Set the embroidery frame in the machine.

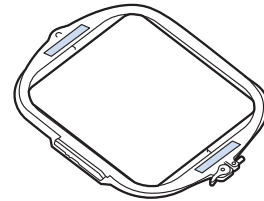
- * Attach the tape away from the embroidering area. Make sure to secure the top fabric firmly with tape so it does not shift.



① Top fabric

Note

- If the top fabric is larger than the embroidery frame, attach double-sided tape to the embroidery frame to secure the fabric.

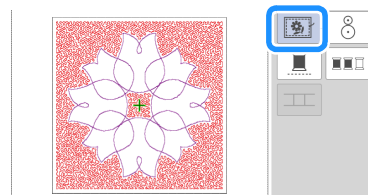


2 Touch to delete the displayed pattern. Retrieve the pattern saved in Step 1 of "Embroider with Batting Secured to Backing Fabric". Touch [Embroidery].



3 Touch [Layout], then touch to add a basting stitch.

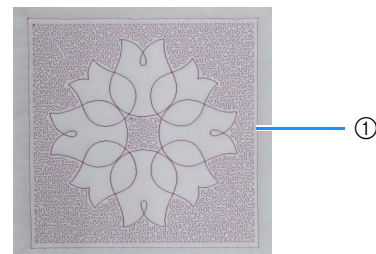
- * Do not move the pattern after adding the basting stitch to ensure that it stays in the center of the embroidery frame.



4 Start the embroidery.

5 When the embroidery is finished, remove the embroidery frame from the machine and remove the basting stitches.

- * Gently remove the basting stitches to avoid pulling or stretching the fabric.



① Basting stitch

Note

- If misalignment occurs or if wrinkles appear in the batting or fabric, adjust the [Embroidery Foot Height] in the settings screen.