Operation Manual
Addendum

Product Code: 884-T13

Be sure to read this document before using the machine.
We recommend that you keep this document nearby for future reference.
ABOUT THIS MANUAL

This manual provides details on My Design Center, which is available with the upgrade. Make sure that the machine has been upgraded to the most recent version.

When you find this icon on the title in this manual, you can find the tutorial video of the procedure in your machine.
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ABOUT MY DESIGN CENTER

With My Design Center, you can use the functions listed below:

- Hand-drawn functions - creating embroidery patterns by drawing on the LCD screen
- Scanning functions - creating embroidery patterns by not only scanning object with built-in camera, but also imported data from USB media, SD card or computer.

You can also combine patterns that you have created with the machine’s built-in patterns.

**Starting My Design Center for the First Time**

My Design Center will be activated once the scanning frame has been attached. After the initial activation is complete, you no longer have to attach the scanning frame. View the tutorial video that shows how to use My Design Center.

**Memo**
- This is required only for the first time that My Design Center is used. After the first time, My Design Center will be available even if the scanning frame is not attached.
- In order to use My Design Center after upgrading the machine, attach the scanning frame to enable My Design Center.

**Attaching the Scanning Frame**

1. Remove the two thumb screws securing the embroidery frame holder, and then remove the frame holder from the machine.

2. Install the needle plate cover included with the machine.

3. Align the holes in the scanning frame with the pins on the frame-mounting plate of the carriage.

4. Secure the scanning frame with the two thumb screws removed in step 1.
The My Design Center icon appears in the home screen.

Basics: Creating a Pattern

Start My Design Center by pressing \( \text{My Design Center} \) in the home page screen.

\[\text{CAUTION}\]
- Only touch the screen with your finger or the pen (stylus) included with the machine. Do not use a mechanical pencil, screwdriver or any other hard or sharp object. In addition, do not press the screen with extreme pressure. Otherwise the screen may be damaged.
- All or part of the screen may sometimes become darker or lighter due to changes in the surrounding temperature or other changes in the environment. This is not a sign of a malfunction. If the screen is difficult to read, adjust its brightness.

1. Draw a line drawing in the pattern drawing screen. (page 8)

2. Adding color to the pattern.
3. Select colors, fill stitches and desired patterns to complete your design.

5. Convert image data to embroidery data.
   → The embroidery image preview screen appears.
   (page 17)

4. Specify stitch settings. (page 15)
   * Further customize your pattern by specifying embroidery stitch settings, such as satin stitch width and density.

6. Edit the pattern in the embroidery edit screen, for example, by combining it with the machine’s built-in patterns.
   * For details on how to edit the pattern, refer to “Editing the Embroidery Pattern (Pattern Editing Screen)” in the Operation Manual.

→ Embroidering begins.

① Shows the stitch settings for the selected line.

② Shows the stitch settings for the selected region.
MEMO
• The actual dimension of the pattern area is the size of the embroidery frame, which is 360 mm × 200 mm (approx. 14 inches × 7-7/8 inches). The pattern you drew may be bigger than you expected. Please resize the pattern after converting the design to the embroidery pattern.
• When the pattern is enlarged so that only a part of it appears in the pattern drawing area, the entire pattern is displayed in the pattern preview area. The red frame in the pattern preview area indicates the part of the pattern displayed in the pattern drawing area. Move the red frame in the pattern preview area with the touch pen or your finger to display the corresponding area in the pattern drawing area.
### Key functions

<table>
<thead>
<tr>
<th>No.</th>
<th>Display</th>
<th>Key Name</th>
<th>Explanation</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td></td>
<td>Image scan key</td>
<td>Press this key to scan the attached frame and display on the screen as the background while using the My Design Center. You can scan the fabric as the background or scan the picture as the reference when creating the pattern.</td>
<td>19</td>
</tr>
<tr>
<td>②</td>
<td><img src="image" alt="Line" /></td>
<td>Line design key</td>
<td>Press this key to scan the line drawing to edit and convert to the embroidery data using the built-in camera. You can also import the line drawing image from USB media, computer or SD card and create the embroidery design.</td>
<td>21</td>
</tr>
<tr>
<td>③</td>
<td><img src="image" alt="Illustration" /></td>
<td>Illustration design key</td>
<td>Press this key to scan the illustration to edit and convert to the embroidery data using the built-in camera. You can also import the illustration from USB media, computer or SD card and create the embroidery design.</td>
<td>24</td>
</tr>
<tr>
<td>④</td>
<td></td>
<td>Magnify key</td>
<td>Press this key to magnify the pattern.</td>
<td>10</td>
</tr>
<tr>
<td>⑤</td>
<td></td>
<td>Stamp key</td>
<td>Press this key to select the stamp shape for pattern drawing.</td>
<td>12</td>
</tr>
<tr>
<td>⑥</td>
<td><img src="image" alt="Rotate" /></td>
<td>Rotate key</td>
<td>Press this key to rotate the selected section.</td>
<td>14</td>
</tr>
<tr>
<td>⑦</td>
<td><img src="image" alt="Size" /></td>
<td>Size key</td>
<td>Press this key to change the size of the selected section.</td>
<td>14</td>
</tr>
<tr>
<td>⑧</td>
<td><img src="image" alt="Erase" /></td>
<td>Erase key</td>
<td>Press this key to erase lines and shapes that have been drawn. You can select the size/shape of the eraser.</td>
<td>13</td>
</tr>
<tr>
<td>⑨</td>
<td><img src="image" alt="Paste" /></td>
<td>Paste key</td>
<td>Press this key to paste in the selected section duplicated with the duplicate key or a selected section using the cut key.</td>
<td>—</td>
</tr>
<tr>
<td>⑩</td>
<td><img src="image" alt="Duplicate" /></td>
<td>Duplicate key</td>
<td>Press this key to duplicate the selected section. The temporarily positioned section can immediately be rotated, enlarged, reduced or moved.</td>
<td>—</td>
</tr>
<tr>
<td>⑪</td>
<td><img src="image" alt="Cut" /></td>
<td>Cut key</td>
<td>Press this key to cut out the selected section.</td>
<td>—</td>
</tr>
<tr>
<td>⑫</td>
<td><img src="image" alt="Select" /></td>
<td>Select key</td>
<td>Press this key to select a section for moving by finger or pen, copying, deleting, changing size and rotating lines and shapes that have been drawn.</td>
<td>13</td>
</tr>
<tr>
<td>⑬</td>
<td><img src="image" alt="Next" /></td>
<td>Next key</td>
<td>Press this key to continue to the stitch settings screen.</td>
<td>—</td>
</tr>
<tr>
<td>⑭</td>
<td><img src="image" alt="Recall" /></td>
<td>Recall key</td>
<td>Press this key to recall image data created with My Design Center from the machine's memory, USB media, SD card or the computer.</td>
<td>—</td>
</tr>
<tr>
<td>⑮</td>
<td><img src="image" alt="Store" /></td>
<td>Store key</td>
<td>Press this key to store the pattern being created.</td>
<td>—</td>
</tr>
<tr>
<td>⑯</td>
<td><img src="image" alt="Undo" /></td>
<td>Undo key</td>
<td>Press this key to undo the last operation that was performed and return to the previous state. Each press of this key will undo one operation.</td>
<td>—</td>
</tr>
<tr>
<td>⑰</td>
<td><img src="image" alt="All Clear" /></td>
<td>All Clear key</td>
<td>Press this key to clear all the lines and shapes and start from the beginning. The background image is also cleared.</td>
<td>—</td>
</tr>
<tr>
<td>⑱</td>
<td><img src="image" alt="Cancel" /></td>
<td>Cancel key</td>
<td>Press this key to exit from the My Design Center. All lines and shapes are erased when you press this key.</td>
<td>—</td>
</tr>
<tr>
<td>⑲</td>
<td><img src="image" alt="Brush" /></td>
<td>Brush tool key</td>
<td>Paint with brush and set the color. You can select the brush type, fill type and color as you need. Painted lines and areas will be converted to the pattern embroidered with fill stitch. Press to pick up the color from a region in the pattern within the pattern drawing area. The picked up color is shown as the currently selected region color beside the button and as the selected color in the Region Property screen.</td>
<td>10</td>
</tr>
<tr>
<td>⑳</td>
<td><img src="image" alt="Line" /></td>
<td>Line tool key</td>
<td>Draw lines and set the color. You can select the line type, stitch type and color as you need. Press to pick up the color from a line in the pattern within the pattern drawing area. The picked up color is shown as the currently selected line color beside the button and as the selected color in the Line Property screen.</td>
<td>8</td>
</tr>
</tbody>
</table>
Before Creating Designs

Select the centerpoint marker or grid lines setting for “Frame Display” to apply the frame display to the pattern drawing area of My Design Center. For details on the types of embroidery frames and grids available, refer to “Changing the display guides” in the Operation Manual included with the machine.

1. Attach the frame to be used.

Memo
- The frame type cannot be changed in the settings screen.

2. Press .

3. Select the grid line of the “Frame Display”.

   Grid types
   * Select the grid size 10 mm (3/8 inch) or 25 mm (1 inch).

Drawing Lines

1. Press  and draw lines.

Memo
- When  is pressed, all regions will be displayed in the background to clarify the drawing lines on the screen.
Setting the line types, stitch types and colors

You can set or change the line types, stitch types and colors anytime. You can also specify the line types, stitch types and colors before drawing lines.

1. Press  to set the line types, stitch types and colors.

   ➔ The settings screen appears.

   ① Line types
   ② Stitch types
   ③ Line color selection: touch the color palette to activate the drawing pen color.

Line types

<p>| | |</p>
<table>
<thead>
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<th></th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>Freehand line with the end open.</td>
</tr>
<tr>
<td></td>
<td>Freehand line closing the end automatically.</td>
</tr>
<tr>
<td></td>
<td>Straight line with one stroke</td>
</tr>
<tr>
<td></td>
<td>Straight line changing directions to the point you select. If the end point is created near the start point, a closed object will be created.</td>
</tr>
</tbody>
</table>

Stitch types

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Zigzag stitch</td>
</tr>
<tr>
<td></td>
<td>Running stitch</td>
</tr>
<tr>
<td></td>
<td>Triple stitch</td>
</tr>
<tr>
<td></td>
<td>Candlewicking stitch</td>
</tr>
<tr>
<td></td>
<td>Chain stitch</td>
</tr>
<tr>
<td></td>
<td>Line without stitch for creating a region. Created region will be defined by the gray line.</td>
</tr>
</tbody>
</table>

2. Press  to return to the pattern drawing screen.

   ➔ The color bar on the line tool key is changed to the selected color.

   * The appearance of the line does not change even if the line type was changed. The specified line type can be checked in the stitch settings screen.
Press \[ \text{ Press } \] then press on the line to change its color.

\[ \rightarrow \] The connected line will be changed to the selected color.

### Memo
- Press \[ \text{ Press } \] to magnify the image when you cannot press on the line correctly. For details on magnify the image, refer to “Enlarge the pattern image on the screen” in the Operation Manual included with the machine.
- Press \[ \text{ Press } \], and then select a color within the pattern drawing area to apply the same color to other lines or parts of the pattern.

### Drawing Regions

#### 1 Press \[ \text{ Press } \] and draw with brush.

### Setting the brush types and fill colors

#### 1 Press \[ \text{ Press } \] to set the brush types and fill colors.

#### 1 Brush types
#### 2 Fill stitch types
#### 3 Fill color selection: touch the color palette to activate the paint brush color.

### Brush shapes/sizes

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<th>Appearance</th>
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</thead>
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<tr>
<td>Square brush</td>
<td><img src="image" alt="Square Brush" /></td>
</tr>
<tr>
<td>Round brush</td>
<td><img src="image" alt="Round Brush" /></td>
</tr>
<tr>
<td>Small brush</td>
<td><img src="image" alt="Small Brush" /></td>
</tr>
<tr>
<td>Medium brush</td>
<td><img src="image" alt="Medium Brush" /></td>
</tr>
<tr>
<td>Large brush</td>
<td><img src="image" alt="Large Brush" /></td>
</tr>
</tbody>
</table>
Fill stitch types

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Fill stitch</td>
<td>Select when you don’t want fill stitch.</td>
</tr>
<tr>
<td>Stippling</td>
<td>Press to return to the pattern drawing screen.</td>
</tr>
<tr>
<td>Decorative fill</td>
<td>The color bar on the brush tool key is changed to the selected color.</td>
</tr>
</tbody>
</table>

If a stippling pattern or decorative fill pattern has been specified, the settings are displayed.

Press and press on the brush line to change color and fill stitch types. You can also set the fill color, stitch type and fill pattern of a closed area made of the lines and brush lines.

Memo
- Press to magnify the image when you cannot press on the fill correctly.
- Press, and then select a pattern color in the pattern drawing area to apply that fill color to other patterns.
Using the stamp key

1 Press .

2 Select a stamp type and stamp shape.

Press  to return to the pattern drawing screen.

- Press  to set the selected stamp.

→ The pattern drawing screen is displayed.

* You can change size of, rotate or move the shape right after you create it by pressing .
**Using the erase key**

1. Press 🗑️.

2. Select the size and shape of the eraser.

   * If the selected key will be used, press 🗑️. → The pattern drawing screen is displayed.

3. Drag along the area or line that you want to erase while the key appears as 🗑️.

---

**Using the select key**

You can select the part of the design to move and/or edit. Some keys are available only after you select the part.

1. Press 🖼️.

2. Select the area you want to edit.

   * To select an area you want to edit, hold the stylus at a point on the screen and drag the stylus to create the red box around your selected area to be edited.
When **Size** is pressed, the pattern size is displayed in the screen.

① Shows the size for the selected part.
② Reverts to the original size.

When **Rotate** is pressed, the pattern rotation angle is displayed in the screen.

③ Shows the angle for the selected part.

Edit the design with available keys. (See “Key functions” on page 7 for the details of each key function.)

Press **Next**, and then specify the stitch setting.
Before creating the embroidery pattern, specify the stitch settings. Lines of the design are sewn with various stitches and areas are sewn with fill stitches or stippling stitches. Stitching of the areas was already selected in “Drawing Regions” on page 10, so specify values of detailed settings.

After specifying the settings, press \( \text{OK} \) to create the embroidery pattern.

If the design data is saved, the settings can be changed after a trial embroidering.

### Specifying individual stitch settings

Select a pattern in the stitch settings screen to specify its line and region stitch settings. If multiple patterns are selected, the settings are applied to those patterns.

#### Line settings

![Line settings screenshot]

1. Shows the stitch type and color for the selected line.
2. Shows the stitch settings for the selected line.

#### Line sew stitch settings

Select the type of stitching you want applied to your line art, from zigzag stitch (\( \text{zigzag} \)), running stitch (\( \text{running} \)), triple stitch (\( \text{triple} \)), candlewicking stitch or chain stitch (\( \text{chain} \)).

**Zigzag stitch**

- **Zigzag width** Specifies the width of the zigzag stitches used to sew the lines of the design.
- **Density** Specifies the density of the zigzag stitches used to sew the lines of the design.

**Running stitch** / **Triple stitch**

* Both includes an under sewing.

- **Run pitch** Specifies the length of the straight stitch of the design.

#### Region settings

![Region settings screenshot]

1. Shows the stitch type and color for the selected region.
2. Shows the stitch settings for the selected region.

#### Fill stitch settings

- **Direction** Specifies the sewing direction. Select “Manual” to change to the desired direction of fill stitch.
- **Density** Specifies the stitch density of fill stitch.
- **Pull compensation** Specifies to correct the shrinkage of the pattern by slightly shortening or lengthening the stitching. Change the setting after you embroider the pattern and can check the shrinkage.
- **Under sewing** Select if you need or do not need the under sewing for the stabilized fabric.
STITCH SETTINGS SCREEN

Stippling stitch settings

<table>
<thead>
<tr>
<th>Run pitch</th>
<th>Specifies the length of a stitch of the stippling stitch.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spacing</td>
<td>Specifies the spacing between the stitches when embroidering the stippling stitch.</td>
</tr>
<tr>
<td>Distance</td>
<td>Specifies the offset from the pattern outline.</td>
</tr>
</tbody>
</table>

Decorative fill

<table>
<thead>
<tr>
<th>Size</th>
<th>Increases/reduces the size of the pattern.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direction</td>
<td>Specifies the rotation angle of the pattern.</td>
</tr>
<tr>
<td>Outline</td>
<td>Select whether (ON) or (OFF) the outline is also converted to embroidery data. If “ON” is selected, the number of thread jumps can be reduced.</td>
</tr>
</tbody>
</table>

1 Use 🔄 🔄 to select the line or region to be changed.

→ Each press of 🔄 🔄 moves the highlighting of the selected pattern in order.

2 Select the setting to be changed, and then change the setting in the screen that appears. (In this example, the sewing direction will be changed.)

→ The setting screen appears.

3 Press 🔄, and then use 🍃 🍄 to change the direction.

4 Press 🔄 to apply the setting.

* 🍄 appears on the tab for settings that were changed.
* Change other settings in the same way.

Specifying global stitch settings

The same stitch settings can be changed at the same time for multiple patterns of the same type.

1 Use 🔄 🔄 to select the stitch whose settings are to be changed, and then press 🔄.

→ The same stitch type areas will be selected at the same time.

2 Follow steps 2 through 4 in “Specifying individual stitch settings” on page 15 to change the settings.

After specifying the settings generate embroidery pattern

Press 🔄 to create the embroidery pattern.
EMBROIDERY IMAGE PREVIEW SCREEN

You can check the total stitch number, embroidery time and spool thread color number to embroider the pattern. Press \( \text{ } \) to check the pattern image within the embroidery frame.

Press \( \text{ } \) to proceed to the embroidery edit screen.

**Note**
- Once you proceed to the embroidery edit screen, you cannot return to the My Design Center.

Press \( \text{ } \) to save the pattern as the embroidering data.

Press \( \text{ } \) to return to the stitch settings screen.
Using the Scanning Frame

1 Prepare the desired drawing/illustration.

**CAUTION**
- To avoid having the embroidery foot strike the frame during the scanning process and possibly causing injury, check the following: the thickness of the fabric or paper, creases or folds in the fabric or paper that may be rolled up too close to the frame.

**Memo**
- Only one sheet of paper can be placed in the scanning frame per scan.

2 Position the paper to be scanned so that it is aligned with the lower-left corner, securing the paper in place with the magnets.

* Place the magnets at six locations around the paper to secure it, making sure that the line drawing is not covered.

**Memo**
- If you want to scan an image from a small piece of paper that can’t be held with the magnets, copy that image onto a larger piece of paper, to then be placed on the scanning frame.

**Note**
- When placing the paper in the scanning frame, make sure that the white balance area is not hidden; otherwise, the drawing cannot be scanned correctly. At the same time, be sure to place the scan image within the scan area. The image out of the scan area will not be scanned.

- The scanning area is 300 mm x 200 mm (approx. 11-3/4 inches x 7-7/8 inches). There are scan area marks with the frame. Make sure that the paper is placed within the mark. Any part of the image that is outside the mark will not be scanned.

- Make sure that the white balance area or the scan area is not dirty or scratched; otherwise, the image cannot be scanned correctly.
- Be sure to use the magnets which are included with the scanning frame. If any other magnets are used, they may become attached to the machine during scanning, or other problems, such as a misaligned scan image, may occur.
- Be sure to place the magnets so that they secure the paper firmly. If the paper is placed unevenly, the image cannot be scanned correctly.
- If the scanning frame is dirty, wipe it with a cloth dampened with a diluted neutral detergent solution.
Scanning to Trace Background Image

If you have a favorite picture or drawing, it can easily be traced on the scanned background image and you can create your own pattern.

1 Press \[1\](image)

→ The image display screen appears.

2 Using the magnets, affix a picture to the scanning frame and attach the frame to the machine. Refer to “Using the Scanning Frame” on page 18.

3 Press [Scan](image)

→ Scanning begins.
* To stop scanning and return to the screen in step 3, press [Cancel](image)

→ When the following message appears, remove the scanning frame, install the needle plate cover, and then re-install the scanning frame, and then press [OK](image)

4 When scanning is finished, scanned image is displayed transparently in the pattern drawing area.

Note
• When scanning starts, some of the machine lights will turn off in certain circumstances, in order to increase the scan quality. The machine lights will return to their original brightness when scanning ends.
• You can import an image of 2 MB or smaller from USB media, computer or SD card.
Using the included touch pen, press \(\text{①}\), and then draw lines to trace the image.

* For details on drawing lines, refer to “Drawing Lines” on page 8.

**Transparency adjustment**

* Press \(\text{①}\) or \(\text{②}\) to adjust the transparency of the background.
  - Each press of \(\text{①}\) lightens the background, making the line pattern darker.
  - Each press of \(\text{②}\) darkens the background, making the line pattern lighter.

**After editing the pattern, press \(\text{③}\) to specify the settings for pattern.**

**Press \(\text{④}\) to create the embroidery pattern.**

**Importing the Background image**

Prepare the data file of your favorite picture so that you can create an embroidery pattern. Save data as a .jpg file type in your computer, on a USB media stick or SD card.

**Press \(\text{⑤}\).**

→ The image display screen appears.
Custom patterns can be created from drawings. You can create patterns by scanning your drawings using the included scanning frame or importing an image from USB media, computer or SD card.

Recommended line drawings for Line Scan

- Line drawings must be drawn clearly using lines with approximately 1 mm thickness.
- Line drawings should be drawn in a strong contrast.
- If the lines are too short or gathered too densely, they will not be scanned correctly.

Note
- For details on creating patterns using color illustrations, refer to “ILLUSTRATION SCAN” on page 24.
- If you cannot scan the drawings as expected, you can edit the design in the My Design Center. Refer to “PATTERN DRAWING SCREEN” on page 6.
- Line drawings are scanned without recognizing the thickness of lines. If you want to change the thickness of lines, specify in the Settings screen. Refer to “STITCH SETTINGS SCREEN” on page 15.
- Line drawings are scanned as black lines. If you want to change the colors, specify in the My Design Center. Refer to “Drawing Regions” on page 10.

Using the Scanning Frame to Create a Pattern with Line Scan

1. Press .

   → The image display screen appears.

2. Press .

   * To import an image from USB media, computer or SD card, press , , or . For details, refer to “Importing the Background image” on page 20.
   * If you scan the image, make sure that the scanning frame is attached to the machine. Refer to “Using the Scanning Frame” on page 18.

Note
- When scanning starts, some of the machine lights will turn off in certain circumstances, in order to increase the scan quality. The machine lights will return to their original brightness when scanning ends.
- You can import an image of 2 MB or smaller from USB media, computer or SD card.
→ When the following message appears, press OK.

→ Scanning begins.
  * To stop scanning and return to the screen in step 2, press Cancel.

3 When scanning is finished, specify the “Gray-Scale Detection level” on the screen if necessary.

   The “Gray-Scale Detection level” can change the black and white threshold for the image.

   * If you do not know how the settings should be changed, first continue the operation without specifying settings and check the results.
   * To enlarge the image, press .
   * To display the image before being converted, press . Compare the images before and after being converted, and then change the settings if necessary.
   * To return to the previous screen, press .

4 Move to frame the image for the pattern.

5 Press OK.

   → The screen for confirming the converted image appears.

6 In the screen for confirming the converted image, you can adjust the “Gray-Scale Detection level” again, if necessary.

   ① The settings for the lines to be sewn appear.
   * If you do not know how the settings should be changed, first continue the operation without specifying settings and check the results.
   * To enlarge the image, press .
   * To display the image before being converted, press . Compare the images before and after being converted, and then change the settings if necessary.
   * To return to the previous screen, press .

   → After changes to the settings for “Gray-Scale Detection level” is applied, Set changes to . Press to check that the image is as desired.

7 Press Set.

   → The pattern drawing screen is displayed.
8 If necessary, edit the scanned image.

* After the scanned image is converted to stitching, it appears as a background in the pattern drawing screen. Use gauge ① to adjust the transparency of the background. Each press of  lightens the background, making the line pattern darker. Each press of  darkens the background, making the line pattern lighter.

**Note**
- During scanning, the small dots that appear and unnecessary lines can be erased.
ILLUSTRATION SCAN

Custom patterns can be created from color illustrations. You can create patterns by scanning an illustration using the included scanning frame or importing an image from USB media, computer or SD card.

**Recommended illustrations for Illustration Scan**
- Patterns that are clearly drawn, with no gradation, fading or blurriness.
- Patterns that are at least a 5 mm square
- Patterns that are extremely simple images

**Using the Scanning Frame to Create a Pattern with Illustration Scan**

1. Press \[\text{Illustr.}\]

   → The image display screen appears.

2. Press \[\text{Scan}\].

   * To import an image from USB media, computer or SD card, press \[\text{Import Image} \]
   * When the following message appears, press \[\text{OK}\].

   → Scanning begins.

   * To stop scanning and return to the screen in step 2, press \[\text{Cancel}\].

**Note**
- When scanning starts, some of the machine lights will turn off in order to increase the scan quality. The machine lights will return to their original brightness when scanning ends.
When scanning is finished, specify the necessary settings in the scan image confirmation screen.

Change the settings to adjust the image so it can easily be converted to the desired pattern.

1. Max. Number of Colors
   - The number of colors in an image will be reduced less than the number specified here, and then the outline will be extracted.

2. Remove Background
   - Select whether or not the background color will be included as one of the colors.

3. Line
   - Select whether or not the outline will be detected as a line. A thick outline can also be detected as a region. When detected as a line, the line thickness and color can be specified.

* To stop scanning and return to the screen in step 2, press .

Memo
- Press to detect the outline. Line thickness can be specified from 1.0 mm (1/16 inch) to 5.0 mm (3/16 inch).

- Press to select the outline color. Select by touching the color, or moving icon using in the color selection screen.

Move to frame the image for the pattern.

Press OK .

The screen for confirming the converted image appears.

In the screen for confirming the converted image, adjust the image as necessary as in step 6.

* To enlarge the image, press .
* To display the image before being converted, press .
  - Compare the images before and after being converted, and then change the settings if necessary.
* To return to the previous screen, press .
  - After changes to the settings described above have been applied, OK changes to . Press to check that the image is as desired.

Press Set .

The pattern drawing screen is displayed.

If necessary, edit the scanned image.

* After the scanned image is converted to stitching, it appears as a background in the pattern drawing screen. Use gauge to adjust the transparency of the background. Each press of lightens the background, making the illustration pattern darker. Each press of darkens the background, making the illustration pattern lighter.

Note
- During scanning, the small dots that appear and unnecessary lines can be erased.
Basic Stippling with My Design Center

Create a stippling design with the basic procedure. Example:

1. Press 
2. Press 
3. Select the square shape, and then press 
4. Press 
5. Select the heart shape, and then press 
6. Press 

[Images of the steps are shown]
7 Press until the heart shape fits in the square shape, and then press OK.

8 Press , and then press .

9 Press , and then select the stitch color. Press OK after setting the color.

10 Select the area you want to set stippling effect.

11 Press .

12 Adjust the stippling settings to create the desired effect, and then press .

* For details, refer to “Specifying individual stitch settings” on page 15.

13 When the following message appears, press OK .

14 Press Set to convert into embroidery.
Follow the procedure described on “Editing the Embroidery Pattern (Pattern Editing Screen)” in the Operation Manual included with the machine to edit the pattern as desired.

**Scanning Drawing to Create Stippling Pattern**

Create a custom pattern with stippling design.

**Example:**

1. Place a drawing of your design on the scanning frame.
2. Press **Scan**.
3. Press **Line**.

   → The image display screen appears.

4. Position the scanning frame on the machine, and then press **Scan**.

   → Scanning begins.
   * To stop scanning and return to the screen in step 4, press **Cancel**.

5. When scanning is finished, move **Frame** to frame the image for the pattern, and then press **OK**.

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

**Note**

- When scanning starts, some of the machine lights will turn off in certain circumstances, in order to increase the scan quality. The machine lights will return to their original brightness when scanning ends.
- You can import an image of 2 MB or smaller from USB media, computer or SD card.
6 The screen for confirming the converted image appears, adjust the image if necessary and then press Set.

→ The pattern drawing screen is displayed.

7 To set the outline of the pattern, press 再 , and then .

8 Press 再 and then .

This will set the outline without a stitch.

9 Select the outline of the pattern.

10 Press 再 to select the color of the stitch around the stippling effect.

11 Press 再 and select the stitch color, and then press .
12 Select the stitch line around the stippling effect.

13 To set the stitch color and fill stitch type, press \( \text{ } \), and then \( \text{ } \).

14 Press \( \text{ } \), and then select the stitch color. Press \( \text{ } \text{OK} \) after setting the color.

15 Select the area you want to set stippling effect.

16 Follow the procedure from step 1 on page 26 of "Basic Stippling with My Design Center".

Scanning Fabric and Stippling

Use the fabric pattern to coordinate with the stippling pattern.

1 Set the fabric to the embroidery frame.
2 Press \( \text{ } \text{Set Up} \).  
3 Press \( \text{ } \).  

\( \rightarrow \) The image display screen appears.
Position the embroidery frame on the machine, and then press Scan. 

Select the circle shape, and then press OK. 

Press to increase or decrease the size of the circle.

Press until the size of circle fits the pattern on the fabric, and then press OK.

memo
• Although the instructions in the LCD screen refer to the scanning frame, this example uses an embroidery frame for scanning.

note
• When scanning starts, some of the machine lights will turn off in certain circumstances, in order to increase the scan quality. The machine lights will return to their original brightness when scanning ends.
• You can import an image of 2 MB or smaller from USB media, computer or SD card.

→ When the following message appears, press OK.

→ Scanning begins.
* To stop scanning and return to the screen in step 3, press Cancel.

Press .

Press to align the position of the circle to the pattern on the fabric.
To set the stitch color and fill stitch type, press \( \text{\textbullet} \) and then \( \text{\textbullet} \).

Press \( \text{\textbullet} \), and then select the stitch color. Press \( \text{\textbullet} \) after setting the color.

Select the area you want to set stippling effect.

To set the outline of the pattern, press \( \text{\textbullet} \) and then \( \text{\textbullet} \).

Press \( \text{\textbullet} \) and then \( \text{\textbullet} \). This will set the outline without a stitch.

Select the outline of the pattern.

Follow the procedure from step 1 on page 26 of “Basic Stippling with My Design Center”.

Start embroidering on the fabric that you scanned at first.
Decorative stitching around a pattern in embroidery (a quilting function)

Memo
• For best results, reduce the sewing speed.

A quilt can be created with stippling around an embroidery pattern.

1 Hoop the embroidery frame with batting sandwiched between two layers of fabric, and then attach the frame to the machine.

2 Select the pattern that decorative stitching will be added around, and then press in the embroidery edit screen.

→ The outline of the pattern is displayed.

3 Press .

→ A message appears, and the pattern outline is registered as a stamp shape in My Design Center.

Press .

4 Press , to continue to the embroidery screen, and then embroider the pattern.

5 Press in the home page screen to start the My Design Center.

6 Press to scan the embroidered fabric.
7 Press  , press  to recall the stamp shape registered in step 3, and then arrange it over the scanned pattern.

8 Use a stamp or rectangular frame to determine the area to be stitched.

9 Use the brush tool keys to select the pattern and color of the decorative stitching.

10 Fill the area to be stitched outside of the stamp shape outline.

11 Set the line type for the frame and pattern to  , and then press .

* Stitch settings can be adjusted in the stitch settings screen. For details, refer to “STITCH SETTINGS SCREEN” on page 15.

Note
- If the area is to be drawn by hand, be sure to draw a completely closed shape. If the area is not closed, it cannot be correctly filled with the decorating.
12 Specify the stitch spacing and length in the stitch settings screen, and then press .

→ Check the pattern, and then press set .

13 Embroider the stippling around the embroidery pattern.
Please visit us at http://support.brother.com/ where you can get product support and answers to frequently asked questions (FAQs).