

Personal Embroidery Design Software System

PE#DESIGN 10

Startup : Reference Guide



Be sure to read this document before using the software.
We recommend that you keep this document nearby for future reference.

Read the following before installing this software

Thank you for purchasing this software. Before installing this software, carefully read the following product agreement, which has been provided for this product. Use this software only if you agree to the terms of this agreement. By installing this software, you agree to the conditions of its use.

Product Agreement

1) General terms

This is an agreement between you (the end-user) and our company for this product.

2) Use of this product

You may install and use this product on only one computer.

3) Limitations on duplications

You may not duplicate this product, except for backup purposes.

4) Limitations on modifications

You may not modify or disassemble this product in any way.

5) Limitations on transfer

This software may not be transferred to or used in any other way by a third party.

6) Warranty

We accept no responsibility for your choice or use of this product or for any damages that may arise out of its use.

7) Others

This product is protected by copyright laws.

Portions of this product were created using technology from Softfoundry International Pte. Ltd.

IMPORTANT INFORMATION: REGULATIONS

Federal Communications Commission (FCC) Declaration of Conformity (For USA Only)

Responsible Party: Brother International Corporation
200 Crossing Boulevard
P.O. Box 6911
Bridgewater, NJ 08807-0911 USA
TEL : (908) 704-1700

declares, that the products

Product Name: Brother PE-DESIGN Software Key
Model Numbers: PE-DESIGN 10 / PE-DESIGN 10U

complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important

Changes or modifications not expressly approved by Brother Industries, Ltd. could void the user's authority to operate the equipment.

Industry Canada Compliance (For Canada Only)

CAN ICES-3(B)/NMB-3(B)

Congratulations on choosing our product!

Thank you very much for purchasing our product. To obtain the best performance from this unit and to ensure safe and correct operation, please read this document carefully, and then keep it in a safe place together with your warranty.

Please read before using this product

For designing beautiful embroidery designs

This system allows you to create a wide variety of embroidery designs and supports a wider range of sewing attribute settings (thread density, sewing pitch, etc.). However, the final result will depend on your particular sewing machine model. We recommend that you make a trial sewing sample with your sewing data before sewing on the final material.

For safe operation

- Do not save any files on the "PE-DESIGN Software Key" for transferring or storage.
- Do not insert the "PE-DESIGN Software Key" into your embroidery machine.

For a longer service life

- When storing the "PE-DESIGN Software Key", avoid direct sunlight and high humidity locations. Do not store the "PE-DESIGN Software Key" close to a heater, iron or other hot objects.
- Do not spill water or other liquids on the "PE-DESIGN Software Key".
- Do not drop or hit the "PE-DESIGN Software Key".

For repairs or adjustments

In the event that a malfunction occurs or adjustment is required, please consult your nearest service center.

Notice

Neither this Reference Guide nor the Instruction Manual explains how to use your computer under Windows®. Please refer to the Windows® manuals.

Trademarks / Copyright acknowledgments

Windows® and Windows Vista® are registered trademarks of Microsoft Corporation. Other product names mentioned in the Instruction Manual and Reference Guide may be trademarks of registered trademarks of their respective companies and are hereby acknowledged.

Important

Using this unit for unauthorized copying of material from embroidery cards, newspapers and magazines for commercial purpose is an infringement of copyrights which is punishable by law.

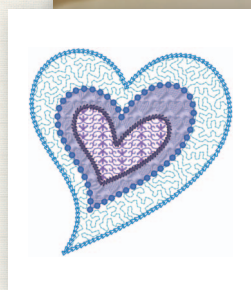
Caution

The software included with this product is protected by copyright laws. This software can be used or copied only in accordance with the copyright laws.

<p>SAVE THESE INSTRUCTIONS This product is intended for household use.</p>
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For additional product information and updates, visit our web site at:
<http://www.brother.com/> or <http://support.brother.com/>







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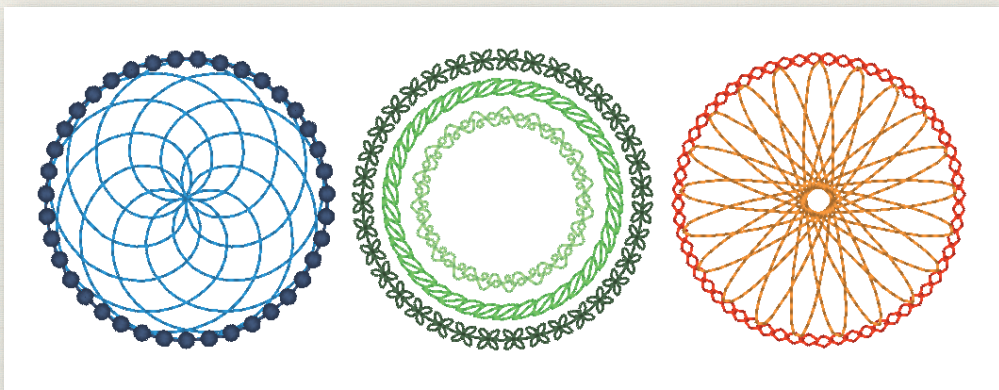
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Navigating This Guide for Best Results

Installation steps

Follow this initial steps to install the software.

- Installing PE-DESIGN 10 (For all users)
- Activating the “PE-DESIGN Software Key” (For upgrade users only)



Getting Started

For people who want to learn basic application operations

I am...

- a PE-DESIGN beginner.
- interested in reviewing basic operations.



Creating the
Desired
Embroidery
Pattern



Turning Your
Ideas Into
Embroidery

For people who want to immediately begin creating patterns

I am...

- an intermediate/advanced user of PE-DESIGN.
- interested in learning operations for specific applications and operation details.



Creating Various
Embroidery
Designs

How To Use the Manuals

Reference Guide

Read this guide before using the software. The guide begins with procedures for installing the software or upgrading from a previous version and includes precautions and tips for using this software. The second half is filled with tutorials that use key features to create embroidery patterns as well as project examples.

- Installation section
 - 1) Read the information about verifying the package contents and installation preparation. (▶ page 4)
 - 2) Install the software according to the instructions. (▶ page 5)
 - 3) Learn about the software support information and online registration. (▶ page 15)
- Basic operation section
 - 1) Learn about key features for creating embroidery patterns. (▶ page 17)
 - 2) Learn basic screen operations and functions. (▶ page 19)
 - 3) Try creating sample projects. (▶ page 29)
- Symbols used in the guide



: This indicates precautions to be observed during software operations. Since this information is necessary for correct operation, be sure to read it when you see this mark.



: This indicates useful operation tips. Understanding this information will make creating embroidery patterns easier and more enjoyable.

Instruction Manual (PDF format)


The manual covers the functions and operations as well as various settings of PE-DESIGN for all levels of learning from beginner to advanced users. This manual is available as a PDF file.

■ Viewing from the [Start] screen (for Windows® 8.1 users)

Position the mouse pointer in the **[Start]** screen to display the down arrow in the lower-left corner of the screen (below and left of the tiles), and click it.

From the list of applications that appears in the screen, click **[Instruction Manual]** under the title **[PE-DESIGN 10]**.



- For Windows® 8 users: Right-click the **[Start]** screen in an area where there is no tile, and then click **[All Apps]** in the lower-right corner of the screen to display the applications list.
- For Windows® 7 users: Click  and then **[All Programs]**. Click **[PE-DESIGN 10]** and then select **[Instruction Manual]**.

■ Viewing from the application

Click  in the upper-right corner of any application window other than **[Design Database]**, and then click **[Instruction Manual]** from the menu. In **[Design Database]**, click **[Help]** at the top of the window, and then click **[Instruction Manual]** from the menu.



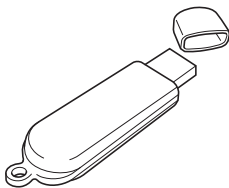
Adobe® Reader® is required for viewing and printing the PDF version of the Instruction Manual.

Getting Started

Introduction

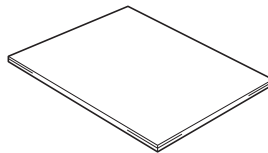
Package contents

Check that the following items are included. If anything is missing or damaged, contact your authorized dealer or Brother Customer Service.

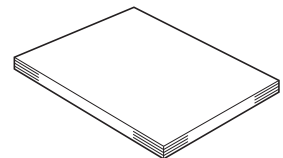


PE-DESIGN Software Key

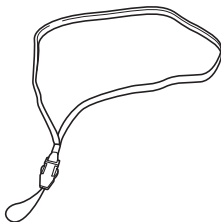
Containing the software and Instruction Manual (PDF format)



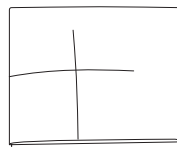
Reference Guide
(this manual)



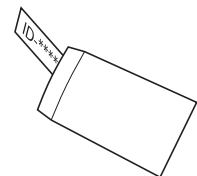
Instruction Manual



Strap



Positioning sheet



PRODUCT ID Key envelope

(Only for upgrade customers from previous versions to PE-DESIGN 10)

PRODUCT ID is printed on a strip of paper.

Precautions for using the "PE-DESIGN Software Key"

- Since this "PE-DESIGN Software Key" device is required to run the software, its replacement value is the retail price of the software. Please keep in a safe place when not in use.
- The "PE-DESIGN Software Key" prevents unauthorized use of this software. The software cannot be started if the "PE-DESIGN Software Key" is not plugged in.
- The "PE-DESIGN Software Key" cannot be used as USB media. Do not save embroidery files on the "PE-DESIGN Software Key" for transferring or storage.
- Do not insert the "PE-DESIGN Software Key" into your embroidery machine.
- Do not format the "PE-DESIGN Software Key".

- Keep the "PE-DESIGN Software Key" away from high humidity, direct sunlight, static electricity and strong shocks. Furthermore, do not bend the "PE-DESIGN Software Key".
- Before installing, back up the installer stored on the "PE-DESIGN Software Key".
- If the installed application is not operating properly, perform the installation again.
- Before activating the "PE-DESIGN Software Key", run **[PE-DESIGN 10 (Layout & Editing)]** as an administrator. (► page 10)

Installation

Please Read Before Installation

- Before beginning the installation, check that the computer meets the system requirements.
- In order to install the software on Windows® operating system, you must log on to the computer using an account with administrator privileges. For details on logging on to the computer using an account with administrator privileges, refer to the Windows manual.
- The installation procedure is described for Windows® 8.1. The procedure and dialog boxes for other operating systems may be slightly different.
- If the installation is canceled before it is completed or if the procedure is not performed as described, the software will not be installed correctly.
- Do not unplug the "PE-DESIGN Software Key" from the computer while the LED indicator is flashing.
- Do not remove the "PE-DESIGN Software Key" from the USB port of the computer while the installation is being performed. Remove the "PE-DESIGN Software Key" after the installation is completed.
- In order to activate the "PE-DESIGN Software Key", you must be able to connect to the Internet. If you cannot connect to the Internet, contact your authorized dealer or Brother Customer Service.
- In order to activate the "PE-DESIGN Software Key", be sure to perform "[STEP2] Activating the "PE-DESIGN Software Key" (only for users upgrading from PE-DESIGN version 5, 6, 7, 8 or NEXT)" on page 9.

System Requirements

Before installing the software on your computer, make sure that the computer meets the following minimum PC requirements.

Operating system	Windows Vista®, Windows® 7, 8, 8.1 (32 or 64 bit)
Processor	1 GHz or more
Memory	512 MB (1 GB or more is recommended.)
Hard disk free space	300 MB
Monitor	XGA (1024 × 768), 16-bit color or higher
Port	Two or more USB ports (used for connecting the "PE-DESIGN Software Key" and for transferring embroidery data to an embroidery machine)
Device	Mouse
Printer	Graphic printer that is supported by your system (if you wish to print your images)
Internet access	Required for activating and updating PE-DESIGN



- This product may not operate correctly with some computers.
-

Installation Procedure

The installation procedure will differ depending on the software that you have. For first-time users of PE-DESIGN 10, install the full version of PE-DESIGN 10. For users upgrading from PE-DESIGN version 5, 6, 7, 8 or NEXT, install the software and activate the "PE-DESIGN Software Key". Perform the installation according to the following instructions.

■ Installing PE-DESIGN 10 (full version)

- ▶▶ "[STEP1] Installing the Software" on page 6

■ Upgrading from version 5, 6, 7, 8 or NEXT

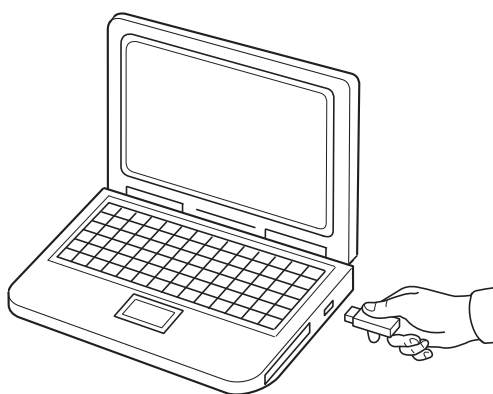
- ▶▶ "[STEP1] Installing the Software" on page 6
- ▶▶ "[STEP2] Activating the "PE-DESIGN Software Key" (only for users upgrading from PE-DESIGN version 5, 6, 7, 8 or NEXT)" on page 9

[STEP1] Installing the Software

This section describes how to install the application software.



- If the installation is interrupted or not performed as described, the software will not be installed correctly.
- In order to install the software, you must log on to the computer using an account with administrator privileges. If you are not logged on with the administrator account, the password for the administrator account may be requested with Windows® 8.1. Type in the password to continue the procedure.
- Before beginning the installation, follow the procedure below to back up the installer onto your computer.
 - 1) Create a backup folder on the computer.
 - 2) Copy the entire **[PE-DESIGN 10]** folder from the "PE-DESIGN Software Key" into the folder created in step 1).
- Do not delete the data in the **[PE-DESIGN 10]** folder on the "PE-DESIGN Software Key".






1 Plug the "PE-DESIGN Software Key" into the USB port on the computer.

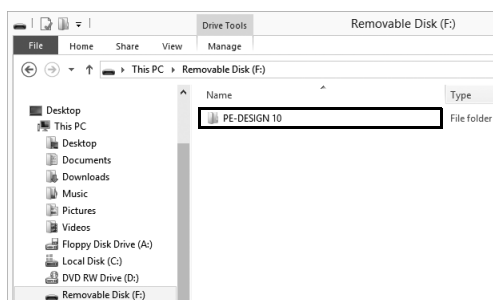
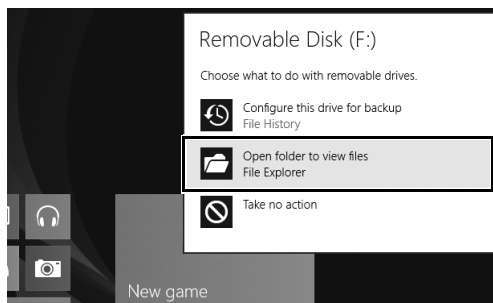
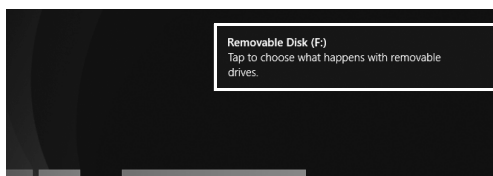
- After a short while, the **[AutoPlay]** dialog box automatically appears.
- For Windows® 7 users, follow step **3** after the **[AutoPlay]** dialog appears.



Do not unplug or plug in the "PE-DESIGN Software Key" until the installation is completed.



- If the **[AutoPlay]** dialog does not automatically start up:
 - 1) Move the pointer over the lower-left corner of the screen.
→  appears.
 - 2) Right-click  and select **[Run]** in the command list.
→ The **[Run]** dialog box appears.
 - 3) Type in the full path to the installer, and then click **[OK]** to start up the installer.
For example: F:\PE-DESIGN 10\setup.exe (where "F:" is the drive name used for "PE-DESIGN Software Key")
- For Windows® 7 users, click , then **[All Programs]**. Select **[Accessories]** and then click **[Run]** to display the **[Run]** dialog box. Type in the full path to the installer in the input window.



2 Click the message appearing in the top-right corner of the screen.

→ The **[AutoPlay]** dialog box continues to be displayed.

3 Click **[Open folder to view files]**.

→ The **[File Explorer]** window appears.

4 Open the **[PE-DESIGN 10]** folder, and then double-click the **setup.exe** file.

→ The **[User Account Control]** dialog box appears.

5 Click **[Yes]**.

→ After a short while, the following dialog box automatically appears.



- 6 Select the desired language, and then click [Next].**
 → The **[InstallShield Wizard]** starts up, and the first dialog box appears.

- 7 Click [Next] to continue with the installation.**
 → A dialog box appears, allowing you to select the folder where the software will be installed.

- 8 Check the installation location, and then click [Install] to install the application.**
 → When the installation is completed, the following dialog box appears.



To install the application into a different folder:

- 1) Click **[Change]**.
- 2) In the **[Browse For Folder]** dialog box that appears, select the drive and folder. (If necessary, type in the name of a new folder.)
- 3) Click **[OK]**.
 → The **[Database Folder]** dialog box of the **[InstallShield Wizard]** shows the selected folder.
- 4) Click **[Install]** to install the application into the selected folder.



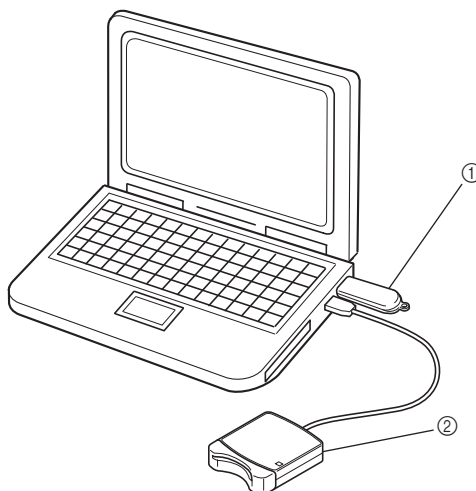
- 9** Click [Finish] to complete the installation of the software.



If a message appears, indicating that the computer be restarted, it is necessary to restart the computer.

[STEP2] Activating the "PE-DESIGN Software Key" (only for users upgrading from PE-DESIGN version 5, 6, 7, 8 or NEXT)

This section describes the procedure for activating the "PE-DESIGN Software Key" when upgrading from PE-DESIGN version 5, 6, 7, 8 or NEXT. After installing the software, plug the "PE-DESIGN Software Key" and your USB card writer module into the computer, and then immediately activate the "PE-DESIGN Software Key".



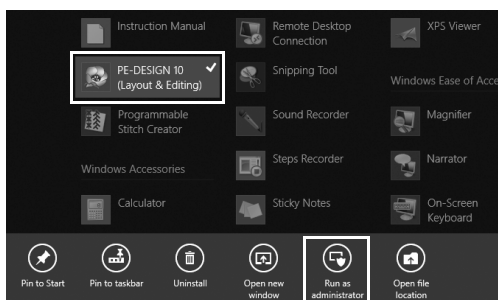
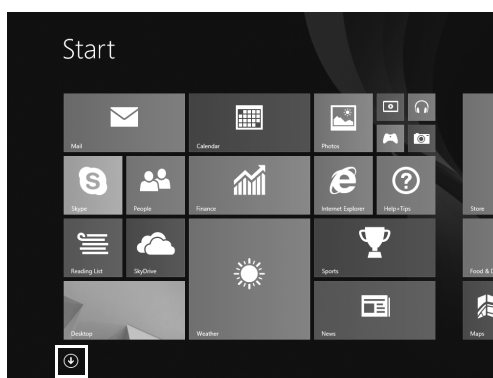
- ① PE-DESIGN Software Key
- ② USB card writer module



- In order to activate the "PE-DESIGN Software Key", you must be able to connect to the Internet. If you cannot connect to the Internet, contact your authorized dealer or Brother Customer Service.
- If a firewall is turned on, activation may fail. Turn off the firewall, and then complete the activation.
- Only one PRODUCT ID and one card writer module can be used for activating one "PE-DESIGN Software Key". A PRODUCT ID and card writer module that have already been used will not be valid for a different "PE-DESIGN Software Key".



No activation steps are required for first-time users of PE-DESIGN (those who have installed the full version software).



1 Plug the "PE-DESIGN Software Key" into the computer.

→ The **[AutoPlay]** dialog box appears. Select **[Take no action]** in the dialog not to use the **[AutoPlay]** dialog box.

2 Position the mouse pointer in the [Start] screen to display the down arrow in the lower-left corner of the screen, and click it.

→ The list of applications appears.


3 Right-click **[PE-DESIGN 10 (Layout & Editing)]**, which appears under the title **[PE-DESIGN 10]**.

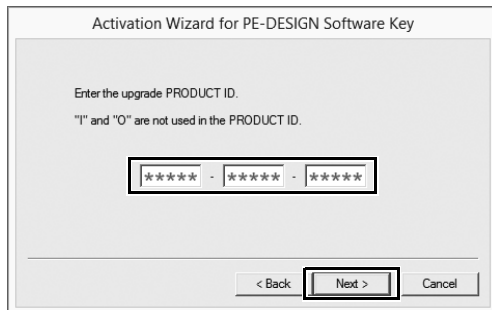
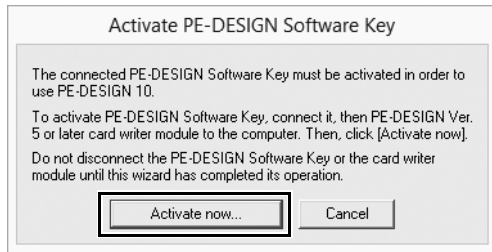
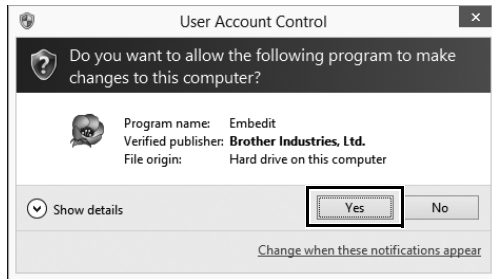
→ The taskbar appears at the bottom of the screen.

4 Click **[Run as administrator]** in the taskbar to run the application as an administrator.

→ The **[User Account Control]** dialog box appears.



For Windows® 7 users, click , then **[All Programs]**. Click **[PE-DESIGN 10]** and then right-click **[PE-DESIGN 10 (Layout & Editing)]**. Select **[Run as administrator]** in the command list.



5

Click [Yes].

→ After a short while, the following dialog box automatically appears.

6

Click [Activate now] to begin activation.

→ The activation wizard starts up, and the first dialog box, shown below, appears.

7

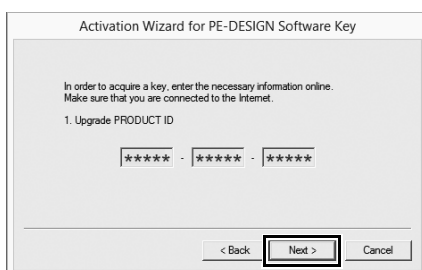
Click [Next].

8

Type in the 15-digit PRODUCT ID, and then click [Next].



- If the PRODUCT ID is incorrectly entered, the message "**The product ID is incorrect. Check that a mistake was not made during typing.**" appears.
- The uppercase letters "I" and "O" are not used in the PRODUCT ID.
- Each PRODUCT ID can be only used with one "PE-DESIGN Software Key". A PRODUCT ID already used with a "PE-DESIGN Software Key" cannot be used again.



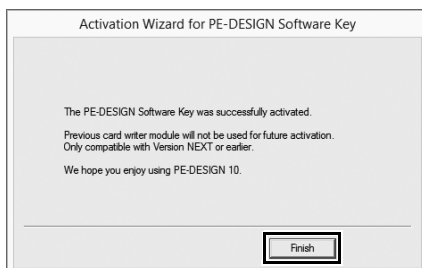
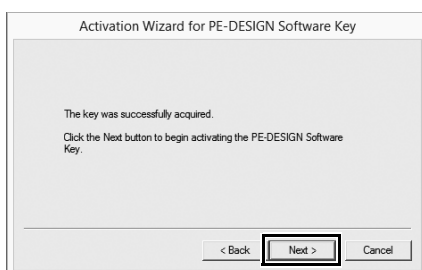
If a firewall is being used, set it so that the Internet can temporarily be accessed while the activation key is being obtained.

- 9** Connect USB card writer module compatible with PE-DESIGN Version 5, 6, 7, 8 or NEXT to the computer, and then click [Next].

→ The entered PRODUCT ID is displayed for confirmation before acquiring the activation key.

- 10** Click [Next] to access our server through the Internet and retrieve the activation key.

→ After the activation key has been successfully retrieved, the following dialog box appears.



- 11** Click [Next] to begin activating the "PE-DESIGN Software Key".

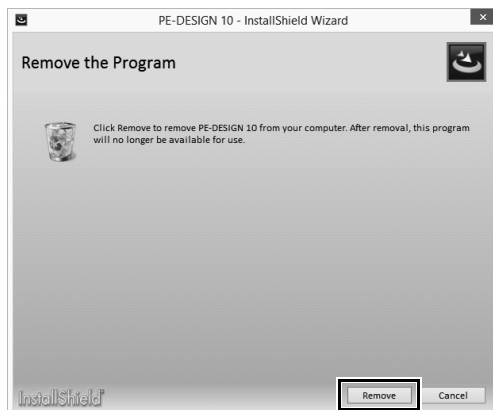
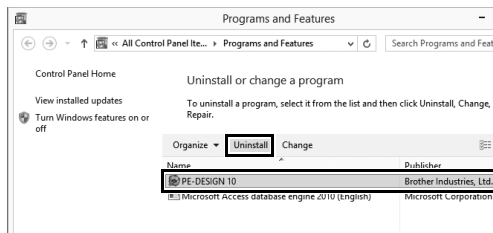
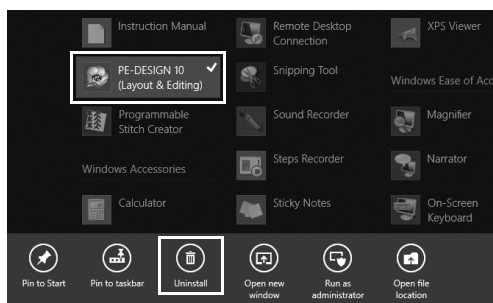
→ If the activation has been completed successfully, the dialog box shown below appears.

- 12** Click [Finish].

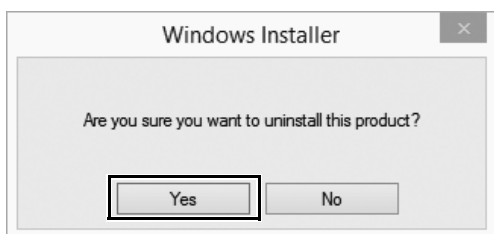


If a warning appears at any time, follow the instructions that are displayed.

Uninstalling the Software



- 1 **Position the mouse pointer in the [Start] screen to display the down arrow in the lower-left corner of the screen, and click it.**
→ The list of applications appears.
- 2 **Right-click [PE-DESIGN 10 (Layout & Editing)], which appears under the title [PE-DESIGN 10].**
→ The taskbar appears at the bottom of the screen.
- 3 **Click [Uninstall] in the taskbar to run the application as an administrator.**
→ The [Programs and Features] window appears.
- 4 **In the [Programs and Features] window, select [PE-DESIGN 10] and click [Uninstall].**
→ A dialog box appears.
- 5 **Click [Remove] to uninstall the application.**
→ The following message appears shortly after uninstallation begins.




- 6** Click **[Yes]**.
→ If the software has been successfully uninstalled, a dialog box appears.
- 7** Click **[Finish]**.



- The uninstallation procedure is described for Windows® 8.1.
- For Windows Vista® and Windows® 7, click the **[Start]** button, then **[Control Panel]**. Select **[Programs and Features]** in the **[Control Panel]** window. Select this software, and then click **[Uninstall]**.

Technical Support/Service

Technical Support

If a problem occurs, click  or **[Help]** in the screen and select **[Customer Support]** to visit the "Brother Solutions Center" at (<http://support.brother.com/>), where you can find causes and solutions to problems, answers to frequently asked questions and information for software updates.

Contact technical support if the problems are not addressed. Please check the company web site (<http://www.brother.com/>) to find the technical support in your area.




Before contacting web site:

- 1) Have your Windows® operating system updated to the most current version.
 - 2) Find the make and model number of the computer that you are using as well as the Windows® operating system version.
 - 3) Obtain information about any error messages that appear. This information will help expedite the processing of your inquiries.
 - 4) Check and update the software to the latest version.
-

Online Registration

If you wish to be contacted about upgrades and provided with important information such as future product developments and improvements, you can register your product online by following a simple registration procedure.

Click **[Online Registration]** on the  menu of **[Layout & Editing]** to start up the installed Web browser and open the online registration page on our Web site.

<http://www.brother.com/registration/>



Online registration may not be available in some areas.

Checking for the Latest Version of the Program



- 1 Click in [Layout & Editing], then [Check for Updates].
→ The software is checked to determine whether or not it is the latest version.
- 2 If the message shown on the left appears, click [OK].
The latest version of the software is being used.
- 3 If the message shown on the left appears, click [Yes] to start downloading the latest version of the software from the Web site.



- This feature cannot be used if the computer is not connected to the Internet.
- It may not be possible to check for the latest version if a firewall is turned on. Turn off the firewall, and then try performing the operation again.
- Administrator privileges are required.



If the **[Always check for most recent version at startup]** check box is selected, the software is checked at startup to determine whether or not it is the latest version.

Creating the Desired Embroidery Pattern

Key Features of Successful Embroidery Design

In order to complete your embroidery project, it is necessary to become proficient in performing operations using the following key features. PE-DESIGN is loaded with tools and functions to assist you in these "key" steps. These enable you to achieve your project goals.



Visualizing the finished project

I want ...

a sample project that I can follow.

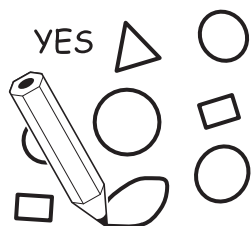
→ page 29

to see various sample patterns.

→ page 22

to embroider an image file that I have.

→ page 55



Creating patterns

I want ...

a design template.

→ page 40

to enter text.

→ page 34

to use a photo or illustration.

→ page 55



Arranging patterns

I want ...

to move patterns.

→ page 23

to enlarge/reduce patterns.

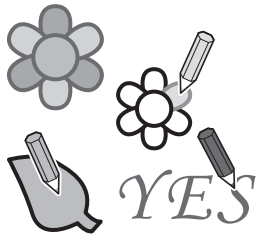
→ page 23

to rotate patterns.

→ page 23

to enjoy arranging patterns.

→ page 29



Adding colors

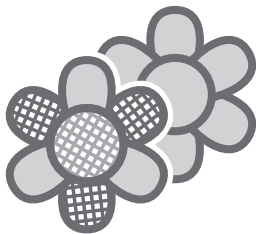
I want ...

to change color combination.

→ page 36

to simulate color schemes.

→ page 24



Enhancing with sewing attributes

I want ...

to change the sew types for patterns.

→ page 25

to make the pattern more expressive.

→ page 42
→ page 50



Creating embroidery data

I want ...

to know what I can do with the data.

→ page 26

to preview the finished embroidery.

→ page 26

to choose the sewing order.

→ page 26
→ page 67



Embroidering

I want ...

to embroider with my embroidery machine.

→ page 27

to save my favorite designs.

→ page 28

to manage embroidery data I create.

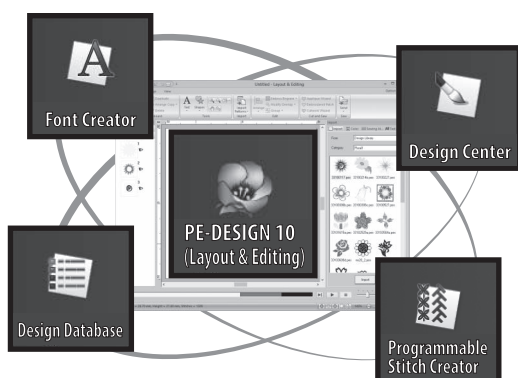
→ page 27

Turning Your Ideas Into Embroidery

Let's look at the basic sequence using each key feature of embroidery design in order to create an embroidery project.

Starting Applications

PE-DESIGN provides five applications helpful with embroidery design. First, let's start up **[Layout & Editing]**, which assists you in all "key" processes for creating an embroidery project from importing pattern, shape, image and text elements to checking the created/edited embroidery data.



Layout & Editing:

Provides all function necessary to create embroidery

Design Center:

Creates embroidery data from an image

Design Database:

Manages created/edited embroidery data

Programmable Stitch Creator:

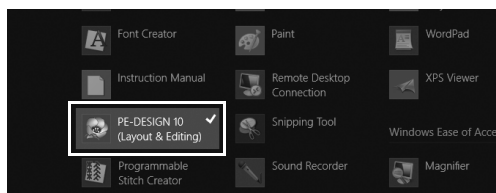
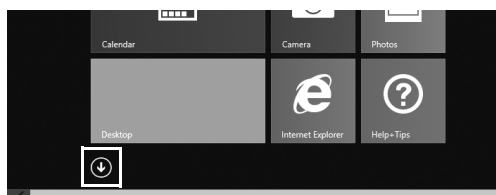
Allows different stitch patterns to be created

Font Creator:

Creates original fonts

Practical Exercise ①

Starting up Layout & Editing



1 Plug the "PE-DESIGN Software Key" into the computer.

Close the **[AutoPlay]** dialog box that appears.


2 Click the down arrow in the lower-left corner of the **[Start]** screen.

→ A list of all applications appears.

3 Click **[PE-DESIGN 10 (Layout & Editing)]**, which appears under the title **[PE-DESIGN 10]**.

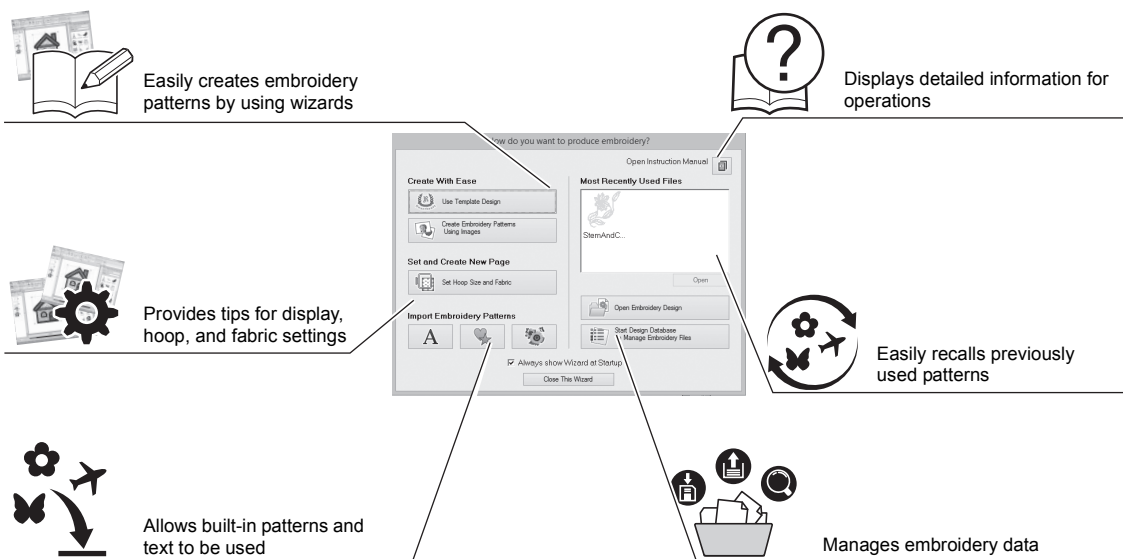
→ **[Layout & Editing]** starts up, and the startup wizard appears.



For Windows® 7 users, click  → **[All Programs]** → **[PE-DESIGN 10]** → **[PE-DESIGN 10 (Layout & Editing)]**.

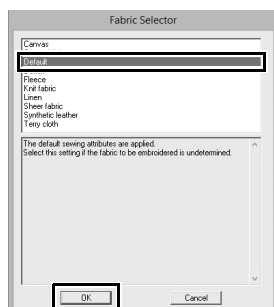
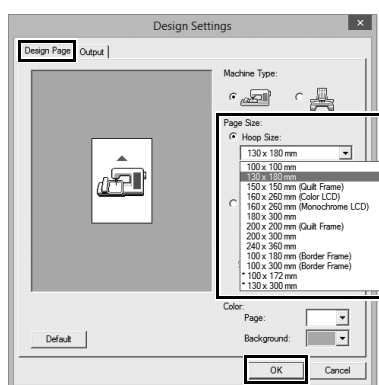
Using the Startup Wizard

The startup wizard allows you to access the desired functions and files with a single click.



Practical Exercise ②

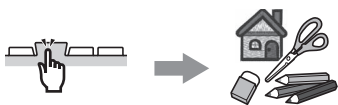
Using preset settings



- 1 Click **[Set Hoop Size and Fabric]** in the startup wizard window.
→ **[Design Settings]** dialog appears.
- 2 Click the **[Design Page]** tab, and then specify the display settings.
For this example, set the **[Design Page]** size to a **[Hoop Size]** of "130 × 180 mm", and then click **[OK]**.
→ The **[Fabric Selector]** dialog box appears.
- 3 Click **[OK]**.

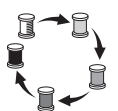
Understanding the Layout & Editing Window

On closing the startup wizard, the main (Layout & Editing) window appears. From this window, all functions and tools necessary to finish your embroidery project are available.



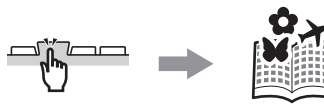
Menus and tools

Select the desired commands or tools grouped by functionality in the ribbon.



Viewing sewing order

Check the actual sewing order of each embroidered part of the pattern.



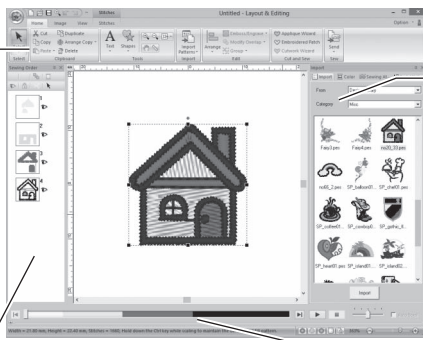
Importing attribute settings and patterns

View patterns to be imported, or detailed settings for colors, sew types and text.



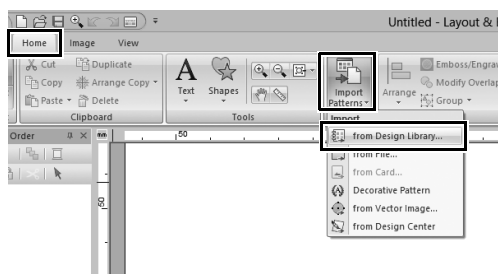
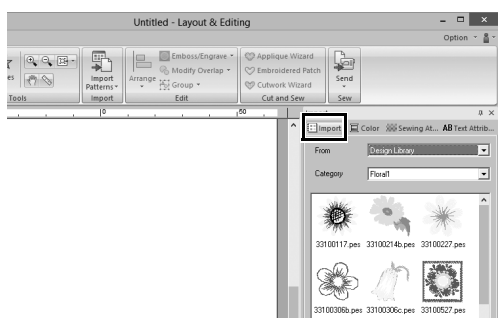
Checking embroidery data

View an embroidering simulation of the created/edited pattern.



Practical Exercise ③

Displaying the [Import] pane



- 1 Click the [Import] tab on the right side of the window.

→ A thumbnail list of patterns that can be imported appears.

- 2 Or, click the [Home] tab on the upper-left of the window. Click [Import Patterns] in the [Import] group, and then click [from Design Library] in the menu.

Importing Patterns

Begin creating embroidery patterns by first importing the various elements of the design into the editing area. Patterns, shapes and text can easily be imported, and your favorite photo can be converted to embroidery data by using the "Image to Stitch" functions and tools available in the **[Image]** tab.



Following instructions

Using the Photo Stitch wizard

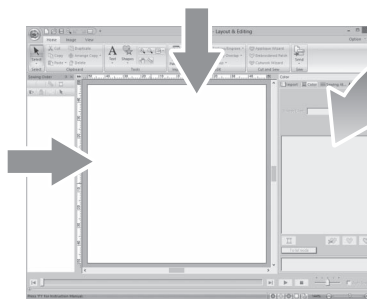
By using the image-importing wizards available from the **[Image]** tab, your photos can be easily converted into embroidery data.

Using path tools



Using the Text and Shapes tools

Enhance your designs by using input tools to intuitively draw shapes and lines.



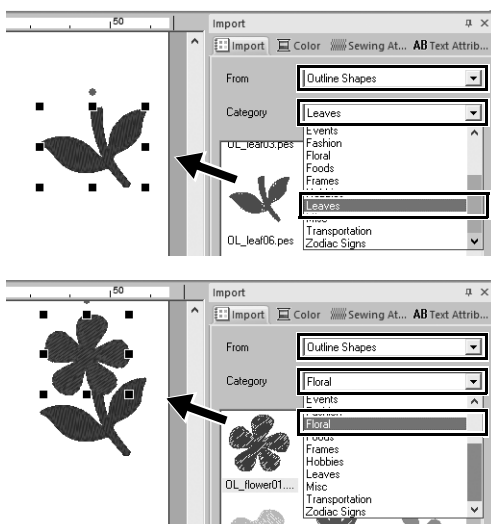
Dragging

From the Import pane

Shapes, text, design templates and more can be reused simply by dragging them from the pane.

Practical Exercise ④

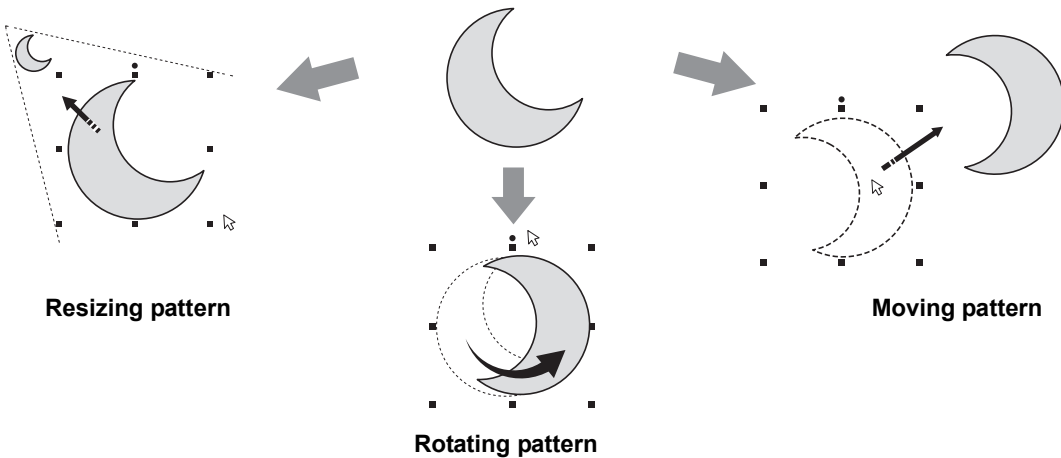
Importing outline shapes



- 1 Select **[Outline Shapes]** from the **[From]** selector of the **[Import]** pane.
- 2 Select **[OL_leaf06.pes]** from the **[Leaves]** category, and drag it into the **[Design Page]**.
- 3 Select **[OL_flower01.pes]** from the **[Floral]** category, and drag it into the **[Design Page]** so that it overlaps the first pattern slightly.

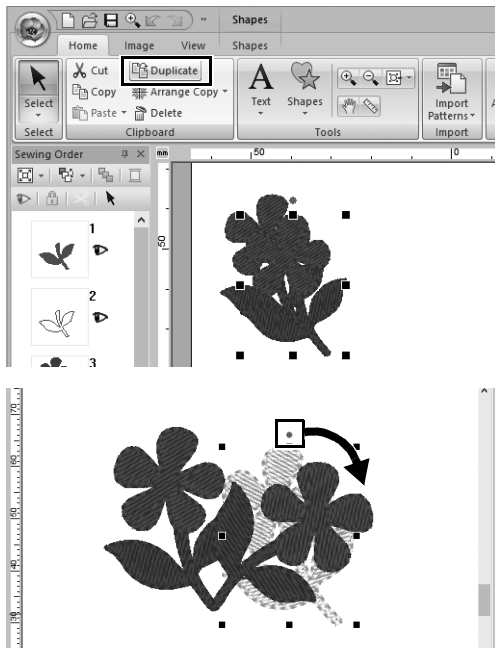
Laying Out Patterns

After importing the patterns, consider how you would move them around to customize the layout. The patterns can be not only rearranged, but also enlarged/reduced or rotated simply by dragging them. The more advanced functions to customize the arrangement are also available in the application.



Practical Exercise ⑤

Arranging outline shapes



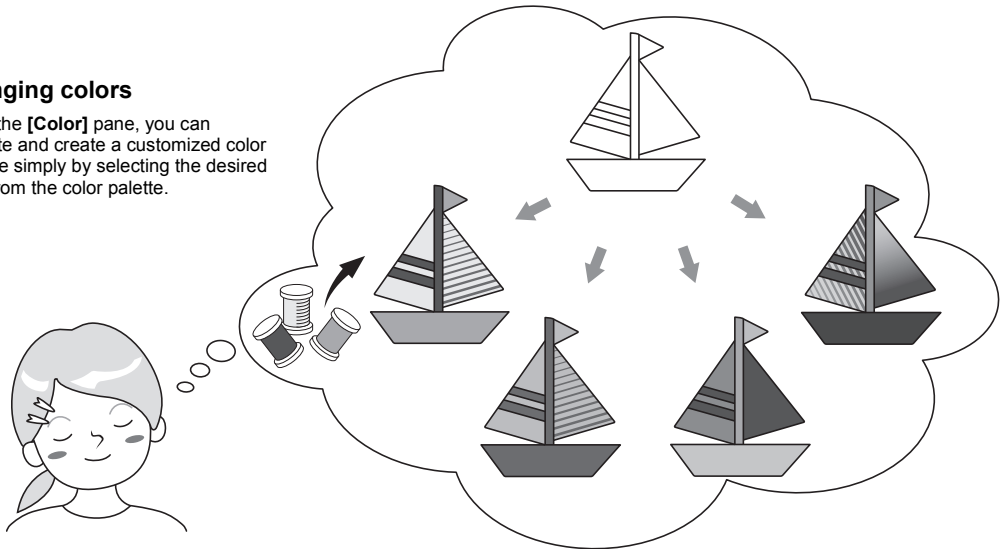
- 1** Drag the pointer to draw a selection frame around the two patterns to be selected.
- 2** Click [Duplicate] in the [Clipboard] group.
→ The duplicate appears, overlapping the original pattern and offset down and to the right.
- 3** Select the duplicate pattern, and drag it into the desired position.
- 4** Drag the red dot at the top of the pattern to the right.
→ The duplicate pattern is rotated clockwise.

Adding Colors to Patterns

Change the color of each pattern part as desired. In order to beautifully finish an embroidery design, the color scheme of the pattern must be considered.

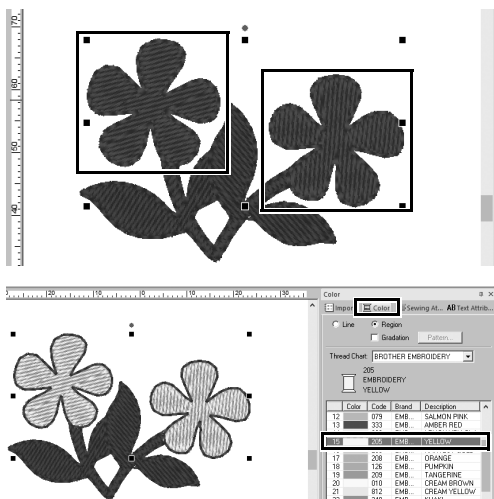
Changing colors


Using the [Color] pane, you can simulate and create a customized color scheme simply by selecting the desired color from the color palette.



Practical Exercise ⑥

Changing colors



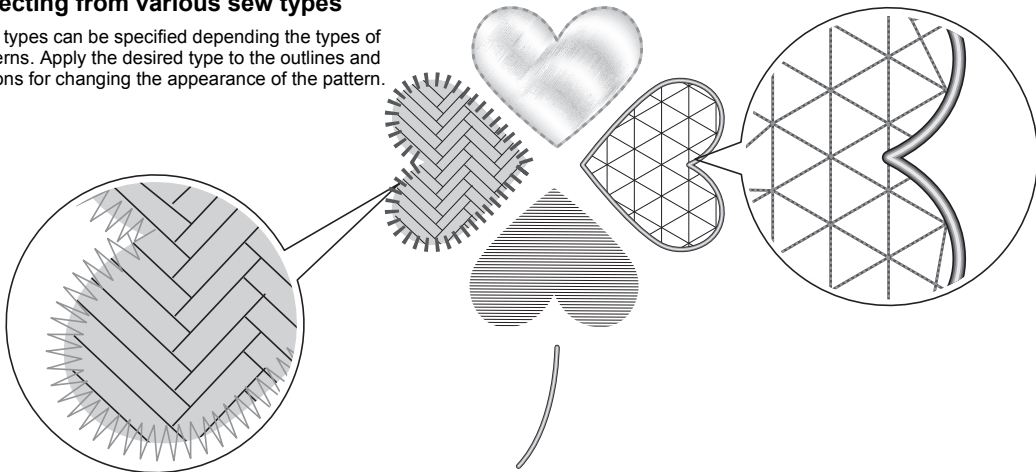
- 1 Click the [Home] tab, and then select .
- 2 Hold down the <Ctrl> key and click each of the two floral patterns.
- 3 Click the [Color] tab, and then click [To list mode] at the bottom of the pane.
→ The [Color] pane in thread list mode appears.
- 4 Select [YELLOW] from the list as the region color.
Both the line color and region color for shape patterns can be specified.
→ The color of the floral shapes changes to yellow.

Specifying Pattern Sew Types

Over twenty sew types can be applied to the lines and regions of a pattern, improving the look of the project. By adding detailed settings to the various stitching patterns, there is no limit to the range of ideas.

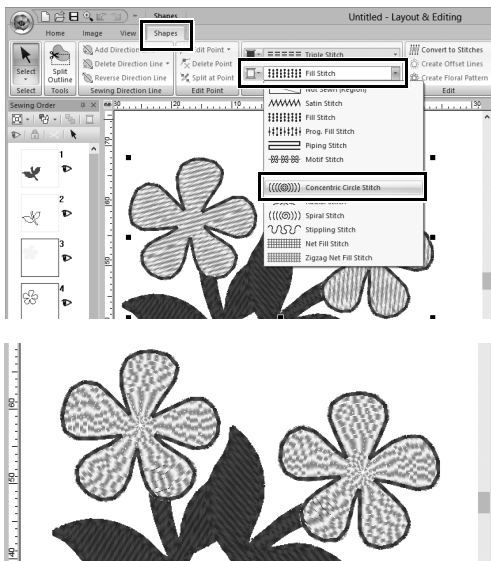
Selecting from various sew types

Sew types can be specified depending the types of patterns. Apply the desired type to the outlines and regions for changing the appearance of the pattern.



Practical Exercise ⑦

Changing the sew type




- 1 Hold down the <Ctrl> key and click the two floral patterns.
- 2 Select the [Shapes] tab.
- 3 Select [Concentric Circle Stitch] from the [Region sew type] selector in the [Sew] group.

→ The stitching pattern for the inside regions of the shapes is changed.


Viewing a Pattern as Embroidery Data

View the pattern as embroidery data when you near completion of a project that you have visualized, for example, to check how it will appear when sewn by the machine or what is the best sewing order.


Solid View



Stitch View

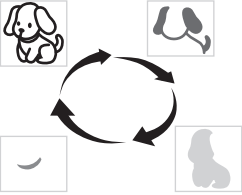


Realistic View



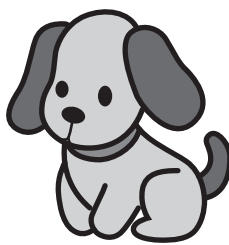
The pattern can be previewed in three modes. Use **[Stitch View]** to check the stitching or **[Realistic View]** to see how the sewn pattern will appear.

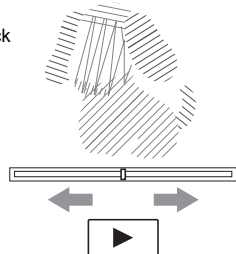
Previewing finished embroidery



View the sewing order in the **[Sewing Order]** pane, and adjust the order to reduce the number of thread color changes and jump.

Optimizing the sewing order



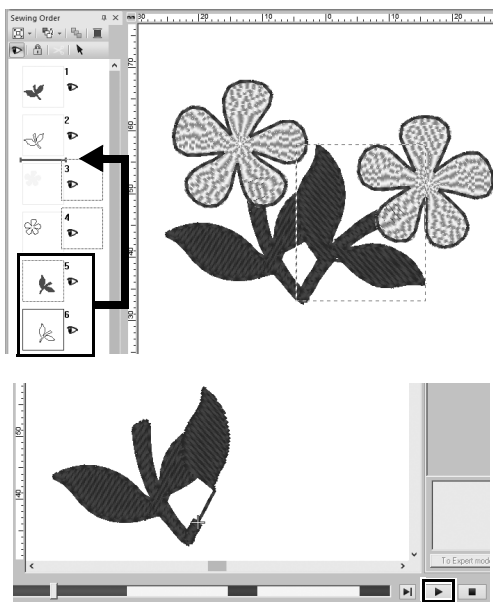



How the pattern will be sewn by the embroidery machine can be reproduced. Check the movement of stitching.

Viewing stitching in simulator

Practical Exercise ⑧

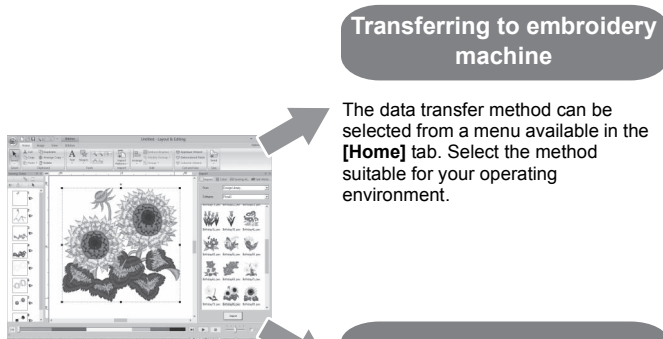
Changing the sewing order



- 1** Hold down the <Ctrl> key and click the duplicate leaf pattern (frame 5 and 6) in the **[Sewing Order]** pane.
- 2** Drag the selected frames between frames 2 and 3.
- 3** Click  at the bottom-right of the screen to begin the stitching simulation.

Sewing the Pattern

After checking the embroidery data you have designed, transfer it to the embroidery machine to sew. Select the method appropriate for the operating environment of your embroidery machine.

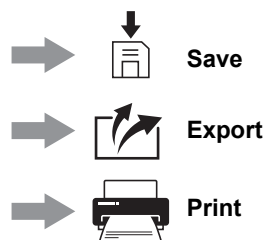
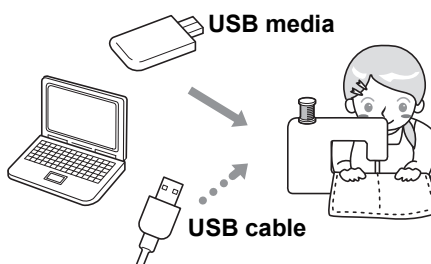


Transferring to embroidery machine

The data transfer method can be selected from a menu available in the **[Home]** tab. Select the method suitable for your operating environment.

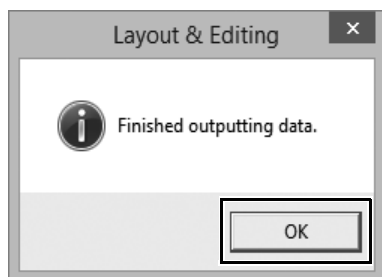
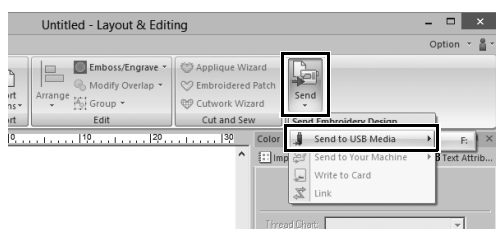
Managing data

The create/edited embroidery pattern can be saved as data and recalled at any time. The pattern can also be output in a variety of formats.



Practical Exercise ⑨

Transferring to an embroidery machine using USB media




- 1** Plug the commercially available USB media into the computer.
- 2** Click **[Send]** in the **[Sew]** group of the **[Home]** tab, select **[Send to USB Media]** and then click the appropriate drive.
→ When the patterns have been copied to the USB media, the message appears.
- 3** Click **[OK]**, and then unplug the USB media.
- 4** Insert the USB media into the USB port on the embroidery machine, and then import the data.

For details on importing data onto the embroidery machine, refer to the manuals supplied with it.

Saving/Opening/Printing pattern data file





- 1** Click  in the upper-left corner of the window.
→ The **[File]** menu appears.
- 2** Select the desired command from the menu.
A list of the most recently used files, starting from the top, appears under **[Most Recently Used Files]**.

Exiting the Application

Practical Exercise ⑩

Exiting Layout & Editing



- 1** Click  in the upper-left corner of the window.
→ The **[File]** menu appears.
- 2** Click **[Exit]** in the lower-right corner of the menu window.
The application can also be closed by clicking  in the upper-right corner of the **[Layout & Editing]** window.

Creating Various Embroidery Designs

This section will take a project introduced in the beginning of this guide as an example to describe the functions, tools and operations for creating a well-designed embroidery pattern. Learn practical skills and expand your range of ideas.

Practical Application ①

Floral wreath – Arranging stitch patterns –



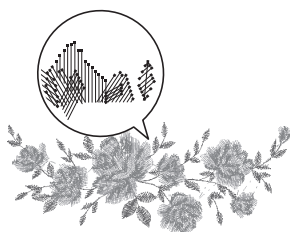
Step 1 Importing and rotating a pattern

Step 2 Duplicating a pattern

Step 3 Flipping a pattern

Step 4 Arranging patterns


About stitch patterns



We recommend using a built-in stitch pattern in its original size, or resizing it only slightly.

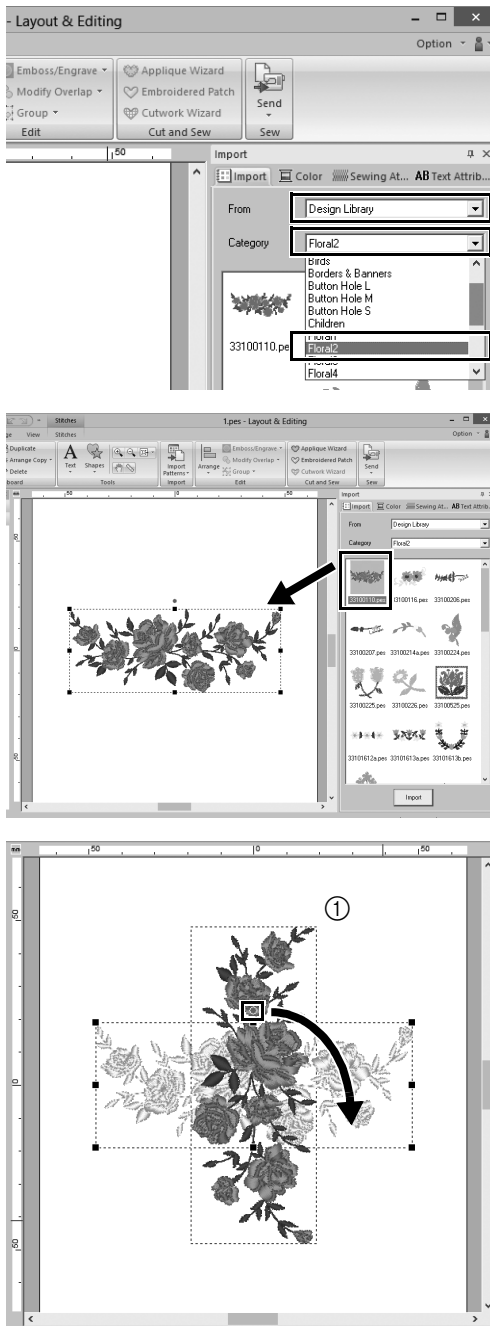
Stitch patterns contain a collection of information including needle drop points and thread color order. Upon being resized, the stitching becomes more dense or light while maintaining the unchanged needle drop point pattern. These changes may have an influence on the quality of your embroidery project.

Setting the Design Page size

Click  and select **[Design Settings]** in the command list. In the dialog box that appears, change **[Design Page]** size to "130 × 180" mm. (► page 20)

Step 1

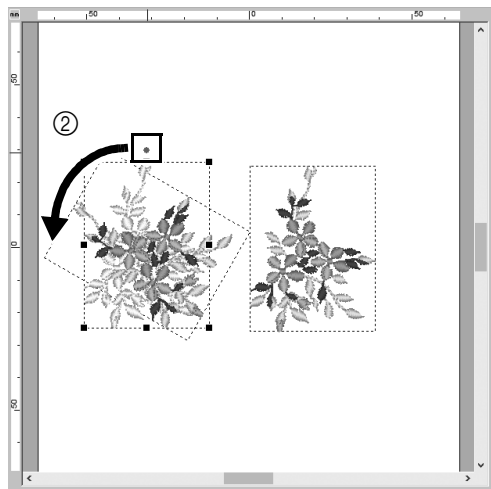
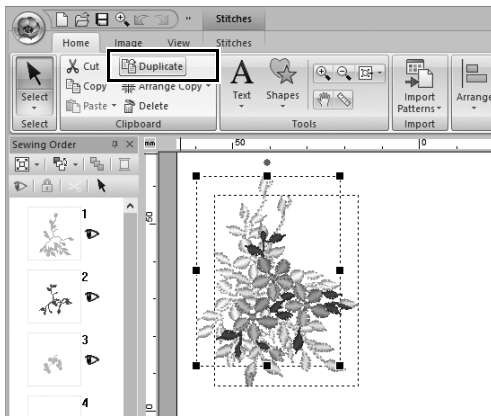
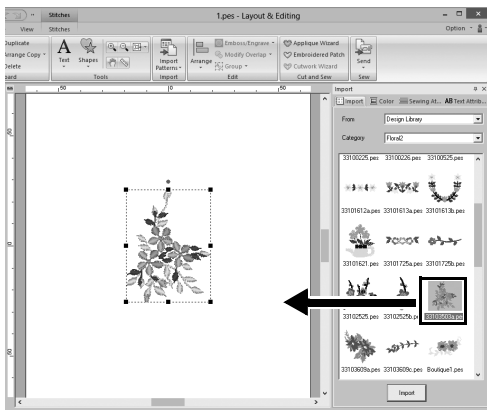
Importing and rotating a pattern



- 1 In the [Import] pane, select [Design Library] from the [From] selector, then [Floral2] from the [Category] selector.
- 2 Select [33100110.pes] from the list of patterns displayed in the pane, and then drag it into the [Design Page].
- 3 While holding down the <Shift> key, drag the red dot at the top of the pattern to the right to rotate the pattern 90° clockwise (①).
Holding down the <Shift> key while dragging the red dot rotates the pattern in 15° increments.

Step 2

Duplicating a pattern



1 As in "Step 1", import pattern [33103503a.pes] from the [Floral2] category in the [Import] pane.

2 After selecting the pattern, click [Duplicate] in the [Clipboard] group to duplicate the pattern.

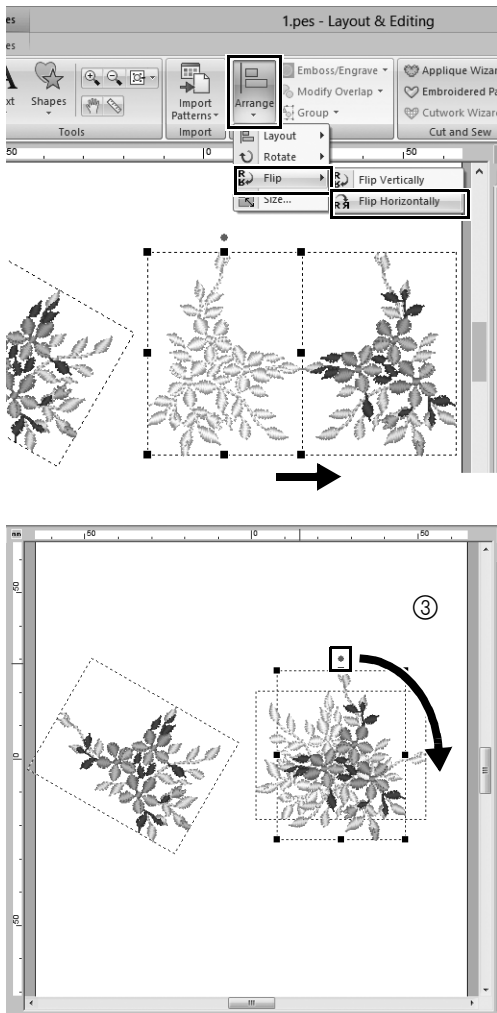
The [Duplicate] command can also be selected from the menu that appears after right-clicking the selected pattern.

→ The duplicate appears, overlapping the original pattern and offset down and to the right.

3 Rotate the original pattern 60° counterclockwise (②).

Step 3

Flipping a pattern



- 1 After selecting the duplicate pattern, click [Arrange] in the [Edit] group, select [Flip], and then click [Flip Horizontally].

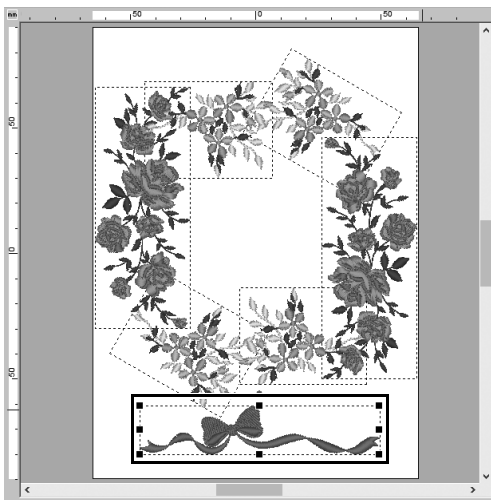
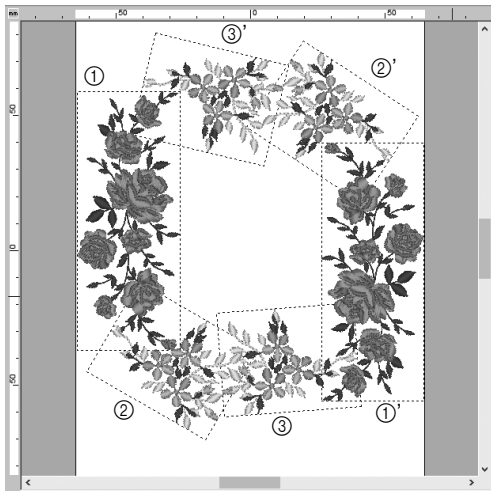
The [Flip] command can also be selected from the menu that appears after right-clicking the selected pattern.

→ The selected pattern is flipped horizontally.

- 2 Rotate the flipped pattern 90° clockwise (③).

Step 4

Arranging patterns



1 Arrange the imported patterns to create a circle as shown in the figure (left), using the [Duplicate], [Rotate] and other [Arrange] commands.

2 Select [no77_2.pes] in the [Lace & Ribbon] category of the [Import] pane, and then drag it below the flower patterns.

Practical Application ②

Team Jersey numbers – Combining text –



Step 1 Entering text

Step 2 Changing text color and sew type

Step 3 Importing transformed text

Step 4 Aligning patterns

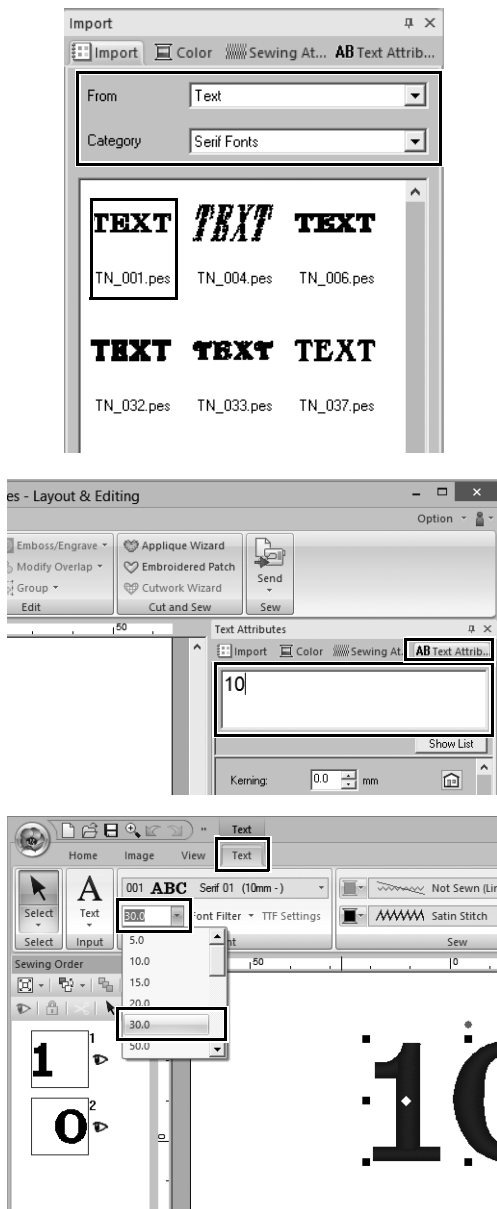
About text patterns



130 built-in fonts are available in text pattern. Most of them can be divided into blocks according to the shape of the character, and the sewing direction is different for each block. This allows the patterns to appear more like three-dimensional and manual embroidery. Their shape consist of a line (outline) and a region (inside area), each of which can be set to a different sew type and color.

Step 1

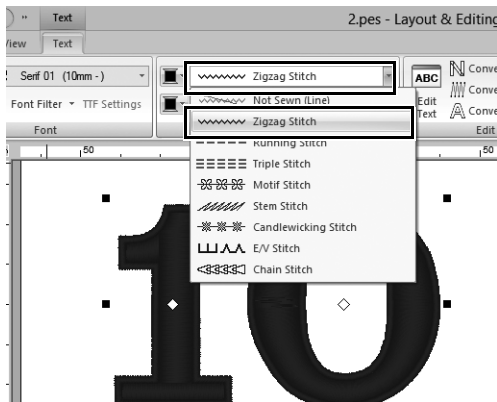
Entering text



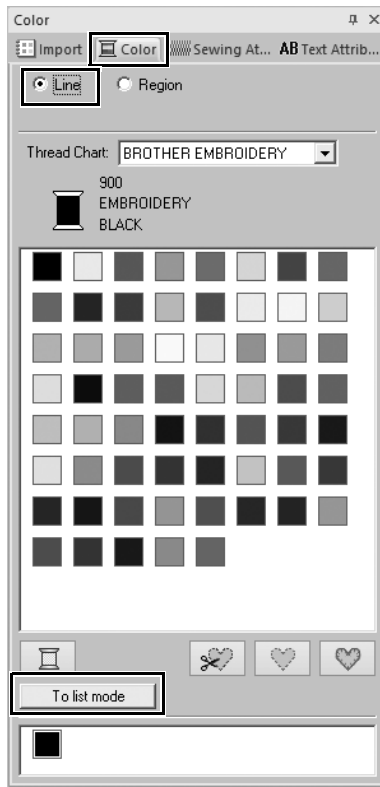
- 1 In the [Import] pane, select [Text] from the [From] selector, then [Serif Fonts] from the [Category] selector.
- 2 Select [TN_001.pes] (Serif 01), and then drag it into the [Design Page].
- 3 Click the [Text Attributes] tab.
- 4 After clicking in the text field to enter input mode, delete the text "TEXT", type in "10", and then press the <Enter> key.
- 5 After selecting the text "10", click the [Text] ribbon tab.
- 6 Click the down arrow to the right of the [Text Size] selector in the [Font] group, and then select "30.0" from the list.

Step 2

Changing text color and sew type

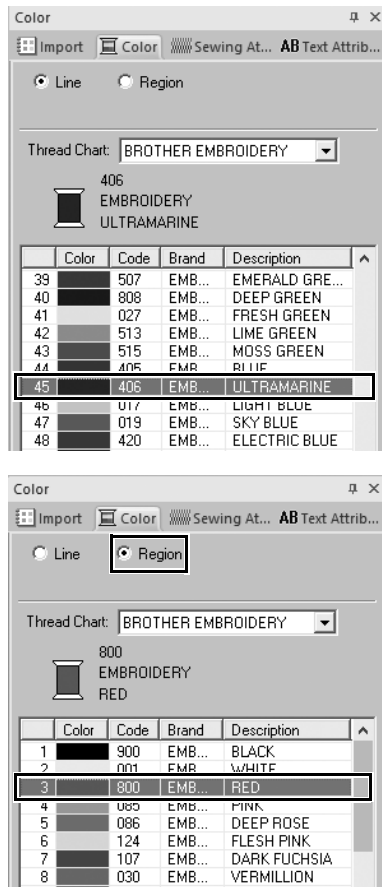


1 Click the [Text Outline Sew Type] selector in the [Sew] group, and then click [Zigzag Stitch] in the list.



2 Click the [Color] tab, select the [Line] check circle, and then click [To list mode] at the bottom of the pane.

→ The [Color] pane in thread list mode appears.

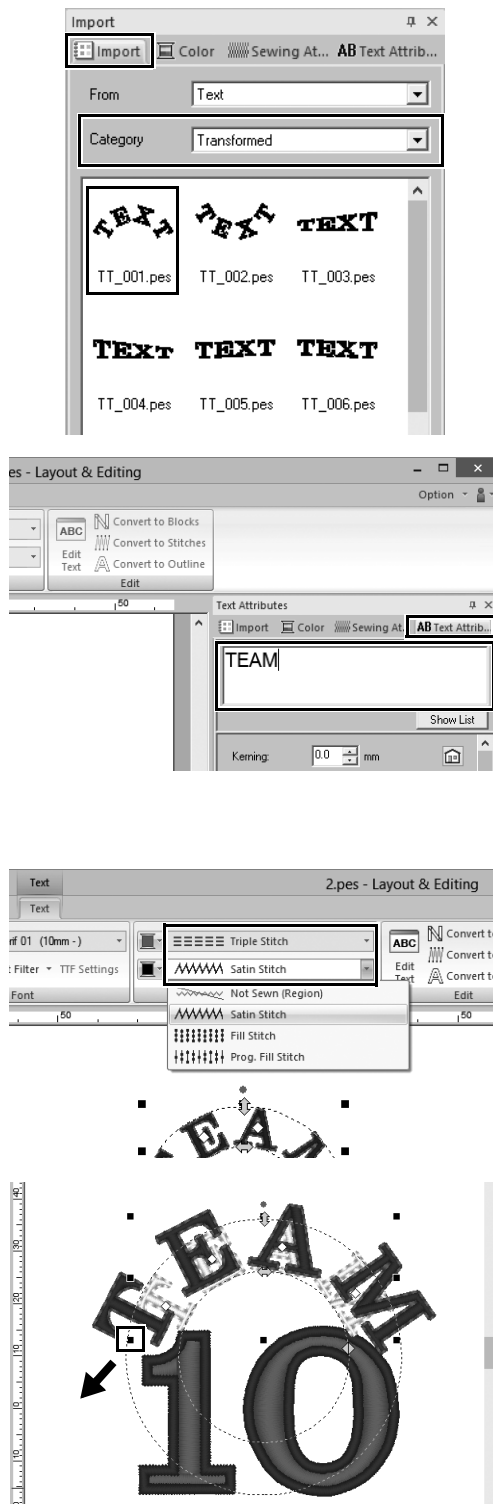


3 Select [ULTRAMARINE] from the list.

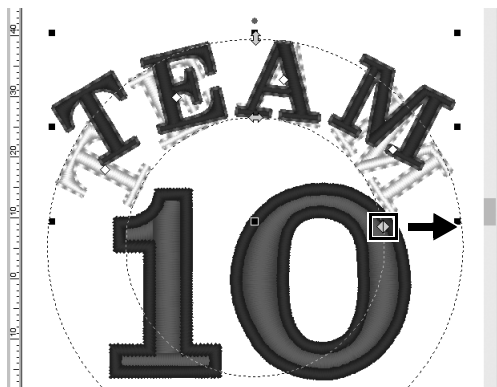
4 Select the [Region] check circle in the [Color] pane, and then select [RED] in the color palette.


Step 3

Importing transformed text



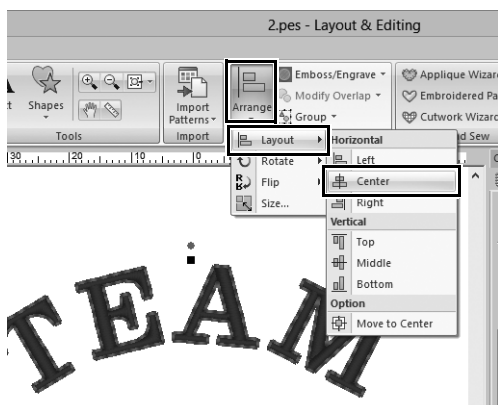
- 1 In the [Import] pane, select [Transformed] from the [Category] selector.
- 2 Select [TT_001.pes] (arched text), and then drag it into the [Design Page].
- 3 Click the [Text Attributes] tab.
- 4 After clicking in the text field to enter input mode, retype in "TEAM" and then press the <Enter> key.
- 5 After selecting the text "TEAM", click the [Text] ribbon tab.
- 6 As in "Step 2", select [Triple Stitch] from the [Text Outline Sew Type] selector in the [Sew] group and [RED] as the line color.
- 7 Select [ULTRAMARINE] as the region color.
- 8 After selecting the text "TEAM" with the [Select] tool, hold down the <Shift> key and drag a black dot in a corner of the pattern to enlarge the pattern to the desired size.



- 9 Drag  to adjust the radius of the circle that the text is formed on.

Step 4

Aligning patterns



- 1 Drag the pointer to draw a selection frame around the patterns "TEAM" and "10" to be selected.
- 2 Click the [Home] tab.
- 3 Click [Arrange] in the [Edit] group, select [Layout], and then click [Center] under [Horizontal].

Practical Application ③

Emblem – Using the Template wizard –

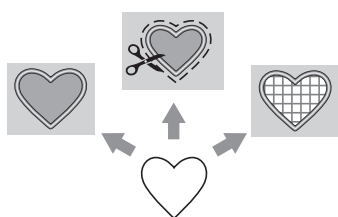


Step 1 Starting the wizard

Step 2 Editing the text

Step 3 Outputting the design data

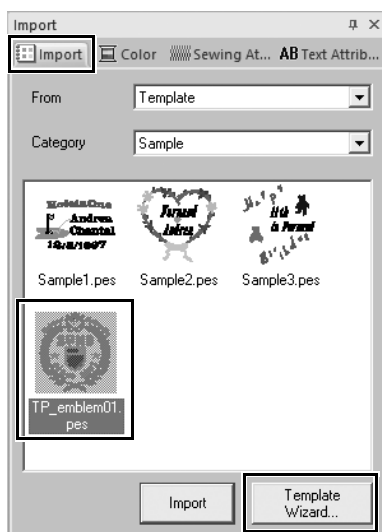
Using the wizard



Wizards for importing photos and using design templates can be started from the startup wizard that appears after the application is started, and wizards for creating appliqués and patches can be started from the **[Home]** tab in the main window of **[Layout & Editing]**. By following the application instructions to enter the necessary information, even a beginner can create a high-quality finished project.

Step 1

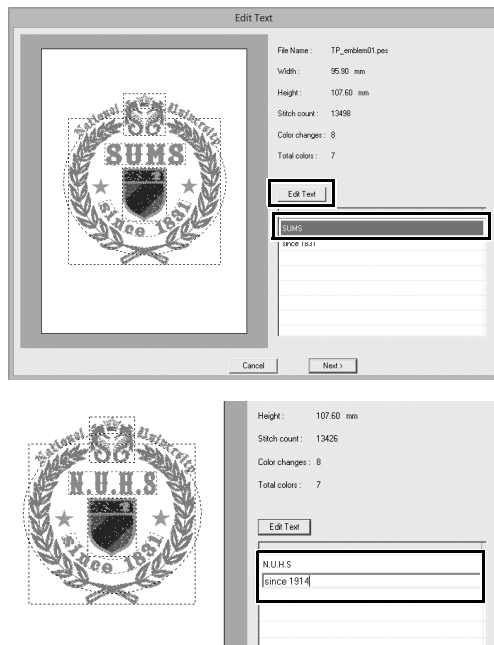
Starting the wizard



- 1** In the **[Import]** pane, select **[Template]** from the **[From]** selector, then **[Sample]** from the **[Category]** selector.
→ Thumbnails of the templates in the selected category appear.
- 2** Select the thumbnail **[TP_emblem01.pes]**, and then click **[Template Wizard]**.
→ The **[Template Wizard]** starts up.

Step 2

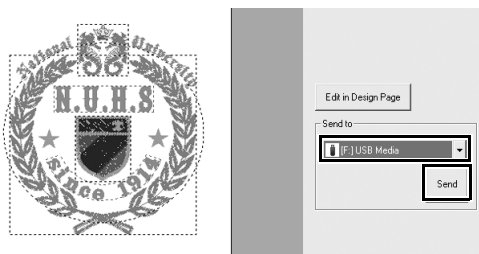
Editing the text



- 1 Click "SUMS" in the text edit box, and then click [Edit Text].**
→ The text "SUMS" is highlighted and can be edited.
- 2 Use the keyboard to type "N.U.H.S.", and then press the <Enter> key.**
→ The text "since 1831" in the second row is highlighted and can be edited.
- 3 Use the keyboard to type "since 1914", and then press the <Enter> key.**
→ The new text appears in the preview on the left side of the dialog box.
- 4 Click [Next].**
→ The [Output] dialog box appears.

Step 3

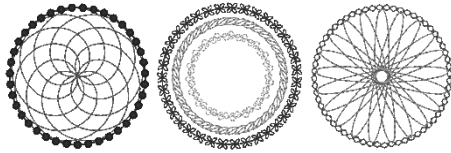
Outputting the design data



- 1 Click the [Send to] selector to select where to output the data, and then click [USB Media] in the appropriate drive.**
- 2 Click [Send].**
→ The data for the template design is copied to the selected USB media, and then the message "Finished outputting data." appears.
- 3 Click [OK].**
Transfer the data to an embroidery machine to sew your project.

Practical Application ④

Floral patterns – Creating a floral pattern from a shape –



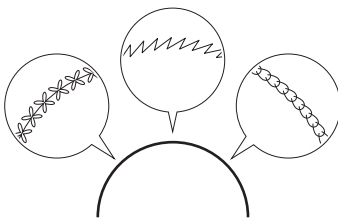
Step 1 Drawing base circles

Step 2 Drawing floral pattern (basic mode)

Step 3 Drawing floral pattern (detailed mode)

Step 4 Drawing using offset lines

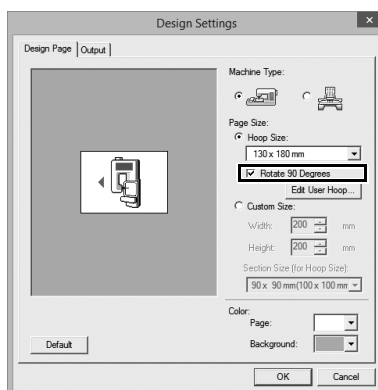
About line sew types




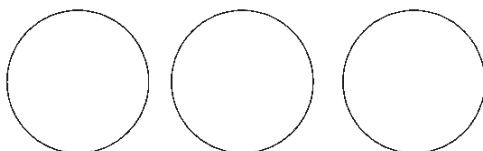
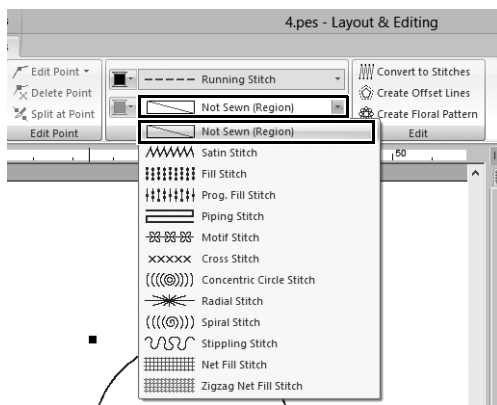
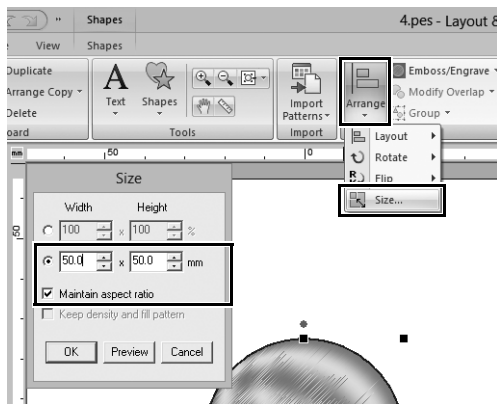
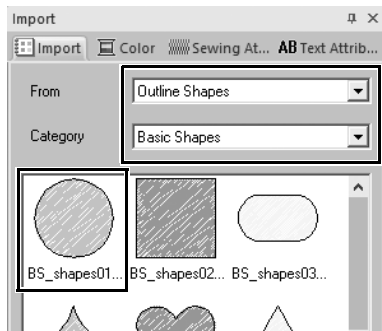
Shapes and text patterns consist of lines (outlines) and regions (areas within the outline), each of which can be set to a different sew type and color. In addition to the many line sew types available with the application, greater variation is possible by using the motif stitch, which can be customized.

Step 1

Drawing base circles



- 1** Click , and then select [Design Settings] from application button menu.
→ The [Design Settings] dialog box appears.
- 2** Select the [Rotate 90 Degrees] check box under the [Hoop Size] setting, and then click [OK].
→ The [Design Page] orientation is changed to landscape.



3 In the [Import] pane, select [Outline Shapes] from the [From] selector and [Basic Shapes] from the [Category] selector, and then import [BS_shapes01.pes] (circle shape).

4 Select the shape, and then click the [Home] tab.

5 Click [Arrange] in the [Edit] group, and then click [Size] in the menu.
→ The [Size] dialog box appears.

6 Set [Width] to "50.0" mm, and then click [OK].

When the [Maintain aspect ratio] check box is selected, the height-to-width proportion of the shape is maintained.

→ The diameter of the circle pattern is set to 50 mm.

7 Select the shape, and then click the [Shapes] tab.

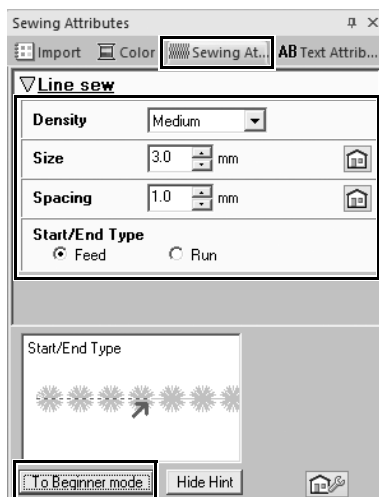
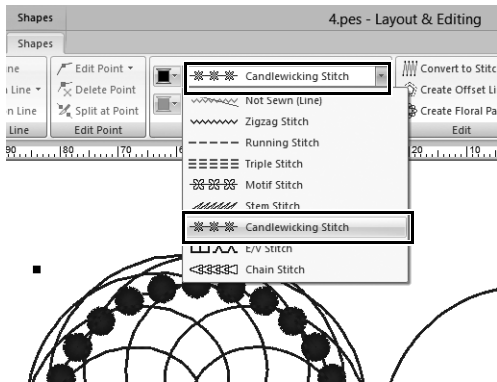
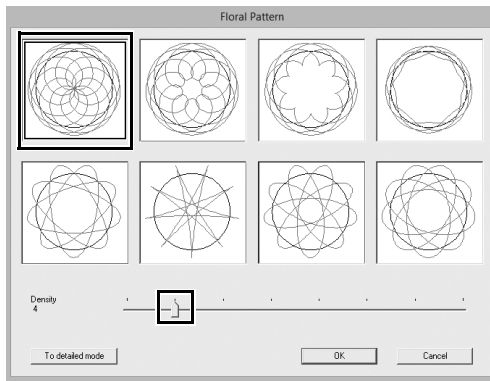
8 Click the [Region sew type] selector in the [Sew] group, and then click [Not Sewn (Region)] in the list.

→ Region sewing is turned off, and only the outline of the circle appears.

9 Create two copies of the circle pattern, and arrange all the three in a row.

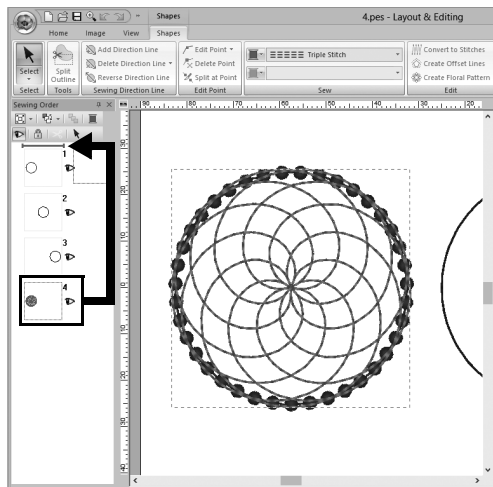
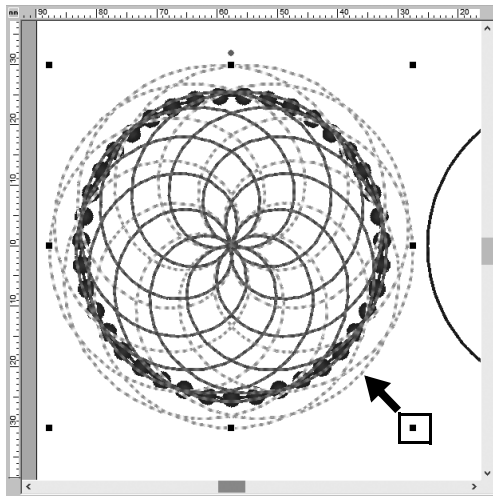
Step 2

Drawing floral pattern (basic mode)



- 1** Select the leftmost base circle pattern created in "Step 1", and then click the [Shapes] tab.
- 2** Click [Create Floral Pattern] in the [Edit] group.
→ The [Floral Pattern] (basic mode) dialog box appears.
- 3** Click the pattern in the upper-left corner, drag the slider to set [Density] to "4", and then click [OK].
→ The floral pattern is created according to the specified settings.
- 4** After selecting the base circle pattern, click the [Shapes] tab.
- 5** Click the [Line sew type] selector in the [Sew] group, and then click [Candlewicking Stitch] in the list.
→ The selected stitch type is applied to the outline of the circle pattern.
- 6** Click the [Color] tab, and then switch the pane to thread list mode.
- 7** Select [ULTRAMARINE] from the list.
- 8** Click the [Sewing Attributes] tab, and then click [To Expert mode] at the bottom of the pane.
- 9** Specify the following settings.

Density	Medium
Size	3.0 mm
Spacing	1.0 mm
Start/End Type	Feed



10 After selecting the floral pattern, hold down the <Shift> key and drag a black dot in a corner of the pattern to reduce its size so that the floral pattern fits into the circle outline.

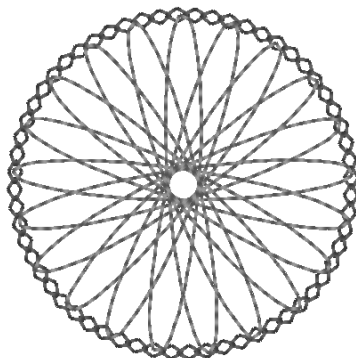
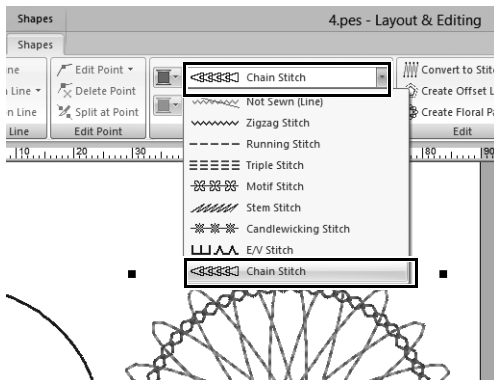
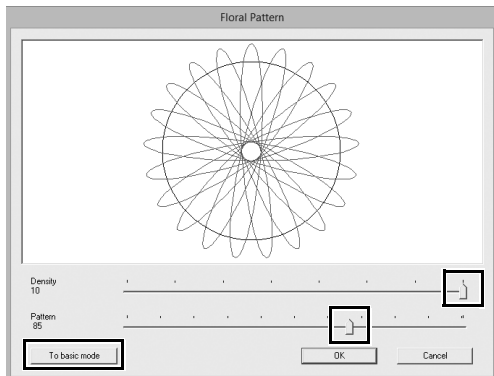
11 After selecting the floral pattern, specify the line sew type, color and following sewing settings by repeating steps **4** through **9**.

Line sew type	Triple Stitch
Color	SKY BLUE
Run pitch	2.0 mm

12 In the [Sewing Order] pane, drag frame 4 (floral pattern) to the top (above the circle outline).

Step 3

Drawing floral pattern (detailed mode)



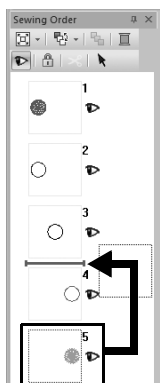
- 1 Select the rightmost base circle pattern created in "Step 1", and then click [Create Floral Pattern] in the [Shapes] tab.
- 2 Click [To detailed mode] in the lower-left corner of the dialog box to switch to detailed mode.
- 3 Drag the sliders to set [Density] to "10" and [Pattern] to "85", and then click [OK].

- 4 Select the base circle pattern, and then set the [Line sew type] to [Chain Stitch].
- 5 Click the [Color] tab, and then click [VERMILLION] in the color thread list.
- 6 Click the [Sewing Attributes] tab, and specify the following settings.

Stitch Type	
Size	3.5 mm
Time	5 times
Arrange	
Start/End Type	Feed

- 7 Select the floral pattern, and then reduce it so that the floral pattern fits into the circle outline.
- 8 After selecting the floral pattern, specify the line sew type, color and following sewing settings by repeating steps 4 through 9 in "Step 2".

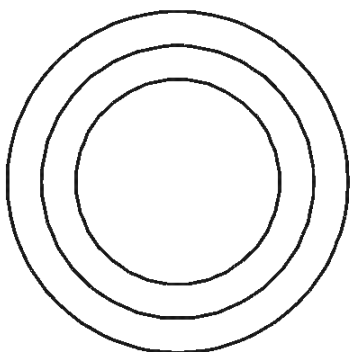
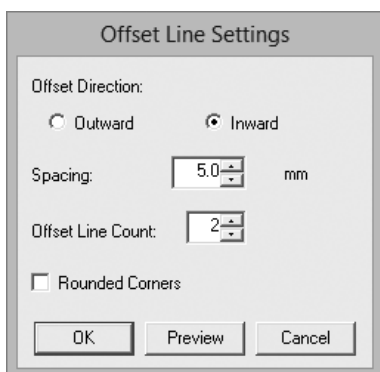
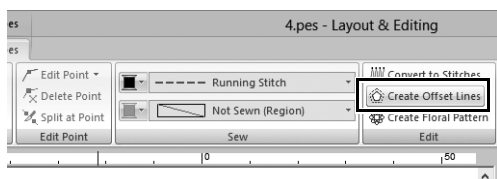
Line sew type	Triple Stitch
Color	TANGERINE
Run pitch	2.0 mm



- 9 In the [Sewing Order] pane, drag frame 5 (floral pattern) between frames 3 and 4.

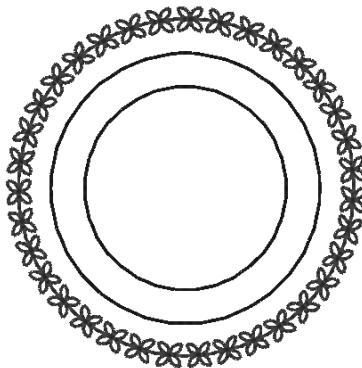
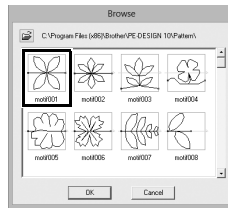
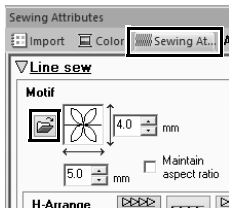
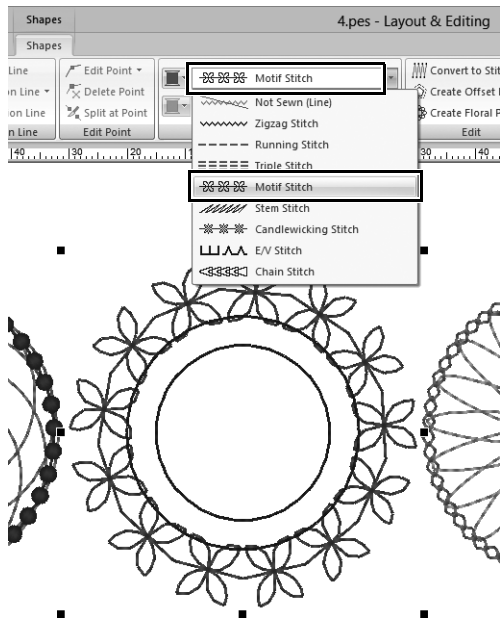
Step 4


Drawing using offset lines





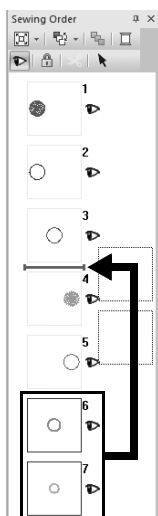
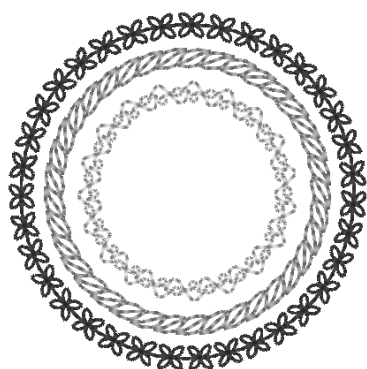
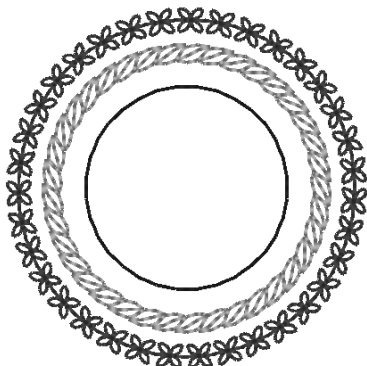
- 1 Select the center base circle pattern created in "Step 1", and then click the [Shapes] tab.
- 2 Click [Create Offset Lines] in the [Edit] group.
→ The [Offset Line Settings] dialog box appears.
- 3 In the dialog box, set [Offset Direction] to [Inward], [Spacing] to "5.0" mm, and [Offset Line Count] to "2", and then click [OK].

→ Two concentric circles are created at 5-mm intervals inside the base circle pattern.






- 4** Select the base circle pattern (outermost).
- 5** Click the [Shapes] tab.
- 6** Select [Motif Stitch] from the [Line sew type] selector in the [Sew] group.
- 7** Click the [Color] tab, and then click [MOSS GREEN] in the color thread list.
- 8** Click the [Sewing Attributes] tab, and then click .
→ The dialog box appears.
- 9** Select the desired motif stitch pattern from the thumbnails in the [Browse] dialog box, and then click [OK].
For this example, select [motif001].
- 10** Specify the following settings for the motif pattern.




Motif height	4.0 mm
Motif width	5.0 mm
H-Arrange	
V-Arrange	
Offset	0.0 mm
Spacing	-0.5 mm
Run pitch	5.0 mm
Start/End Type	Feed
- 11** Specify settings for motif patterns for the two inner circle patterns by repeating steps **5** through **10**.



■ Second circle pattern from the outside

Line color	LEAF GREEN
Motif pattern	motif011 
Motif height	5.0 mm
Motif width	5.0 mm
H-Arrange	
V-Arrange	
Offset	0.0 mm
Spacing	0.0 mm
Run pitch	5.0 mm
Start/End Type	Feed

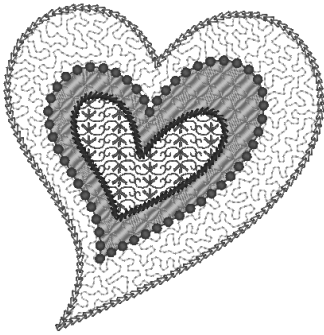
■ Innermost circle pattern

Line color	MINT GREEN
Motif pattern	motif010 
Motif height	6.0 mm
Motif width	6.0 mm
H-Arrange	
V-Arrange	
Offset	0.0 mm
Spacing	-1.0 mm
Run pitch	4.5 mm
Start/End Type	Feed

12 In the [Sewing Order] pane, drag frames 6 and 7 (inner circle patterns) between frames 3 and 4.

Practical Application ⑤

Heart pattern – Changing the stitching for each shape pattern –



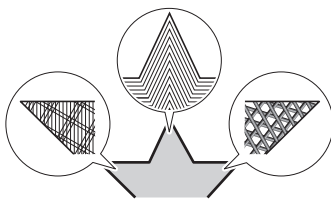
Step 1 Importing an outline shape

Step 2 Applying patterned stitches to a shape

Step 3 Applying programmable stitches to a shape

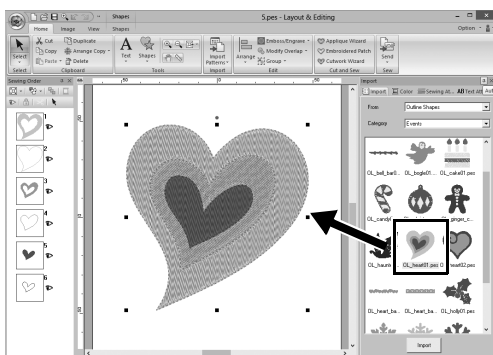
Step 4 Applying motif stitches to a shape

About region sew types



The sew type for areas within closed outlines of text patterns or shapes can be specified. You can create both gorgeous and simple projects just by selecting the desired sew type from a list. The application includes patterned and motif stitches that can be customized using the [Programmable Stitch Creator].

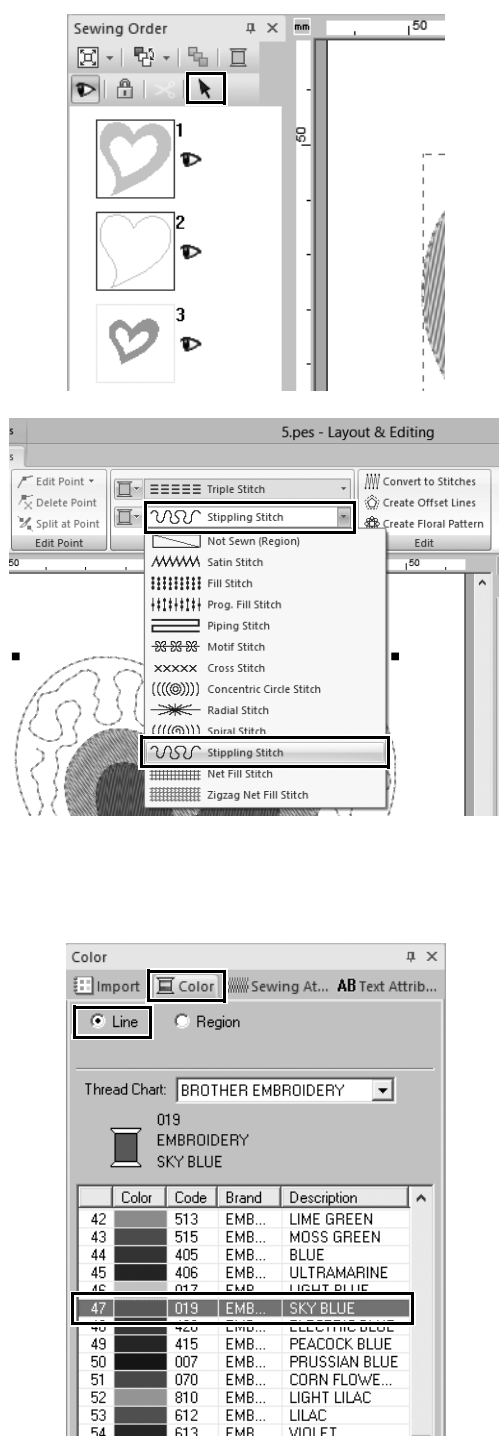
Step 1 Importing an outline shape




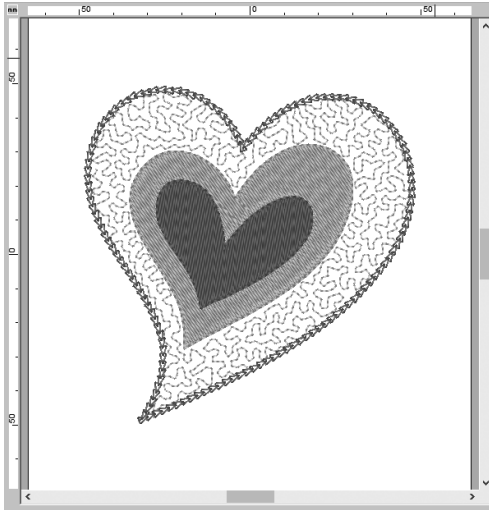
- 1** In the [Import] pane, select [Outline Shapes] from the [From] selector, then [Events] from the [Category] selector.
- 2** Select pattern [OL_heart01.pes], and then drag it into the [Design Page].

Step 2

Applying patterned stitches to a shape



- 1** While holding down the <Ctrl> key, click the line (frame 2) and region (frame 1) of the largest heart pattern arranged in the [Sewing Order] pane.
- 2** Click  at the top of the [Sewing Order] pane.
- 3** Click the [Shapes] ribbon tab.
- 4** Click the [Region sew type] selector in the [Sew] group, and then select [Stippling Stitch] in the list.
- 5** Click the [Line sew type] selector in the [Sew] group, and then select [Chain Stitch] in the list.
- 6** Click the [Color] tab, and then switch the pane to thread list mode.
- 7** Select the [Line] check circle, and then click [SKY BLUE] in the list.



- 8** Click the [Sewing Attributes] tab. Switch the pane to expert mode, and then specify the following settings.

■ Line sew

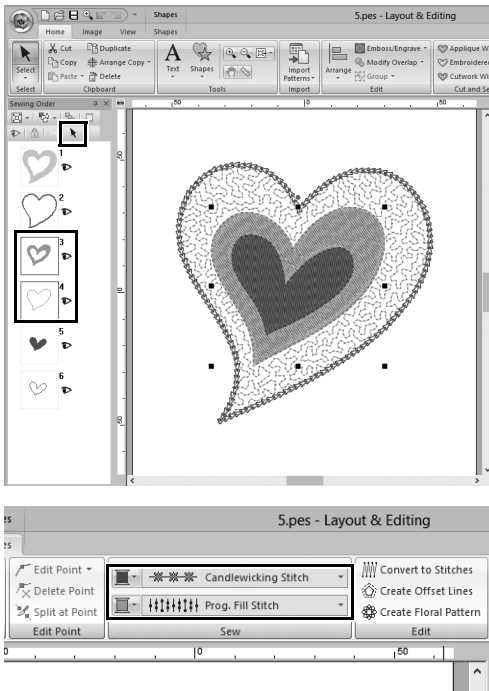
Stitch Type	
Size	3.0 mm
Time	5 times
Arrange	
Start/End Type	Feed

■ Region sew

Run pitch	1.8 mm
Spacing	2.0 mm
Use Motif	Off

Step 3

Applying programmable stitches to a shape



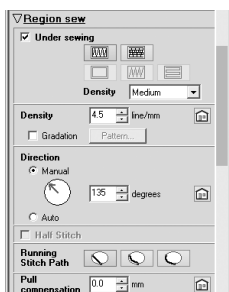
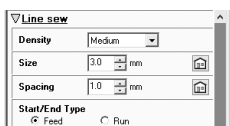
- 1** Select the second-largest heart pattern (frames 3 and 4) in the [Sewing Order] pane.

- 2** Set a color and sew type for each shape as follows.

Line sew type	Candlewicking Stitch
Line color	CORN FLOWER BLUE
Region sew type	Prog. Fill Stitch

Practical Application ⑤

Heart pattern – Changing the stitching for each shape pattern –





3 Click the [Sewing Attributes] tab, and then specify the following settings.


■ Line sew

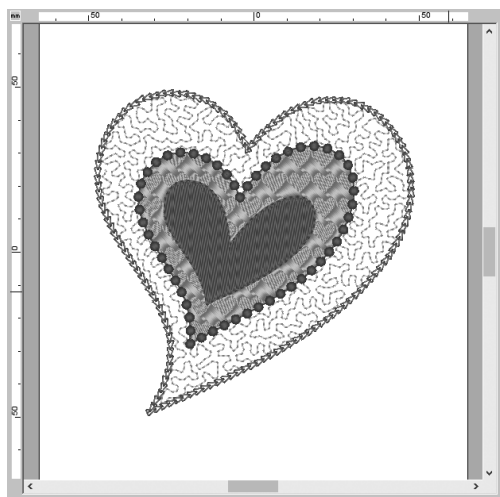
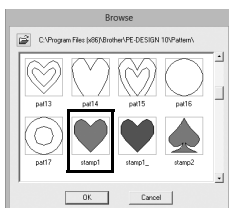
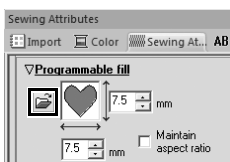
Density	Medium
Size	3.0 mm
Spacing	1.0 mm
Start/End Type	Feed

■ Region sew

Under sewing	 , Medium
Density	4.5 line/mm
Direction	Manual, 135 degrees
Running Stitch Path	
Pull compensation	0.0 mm

Programmable fill

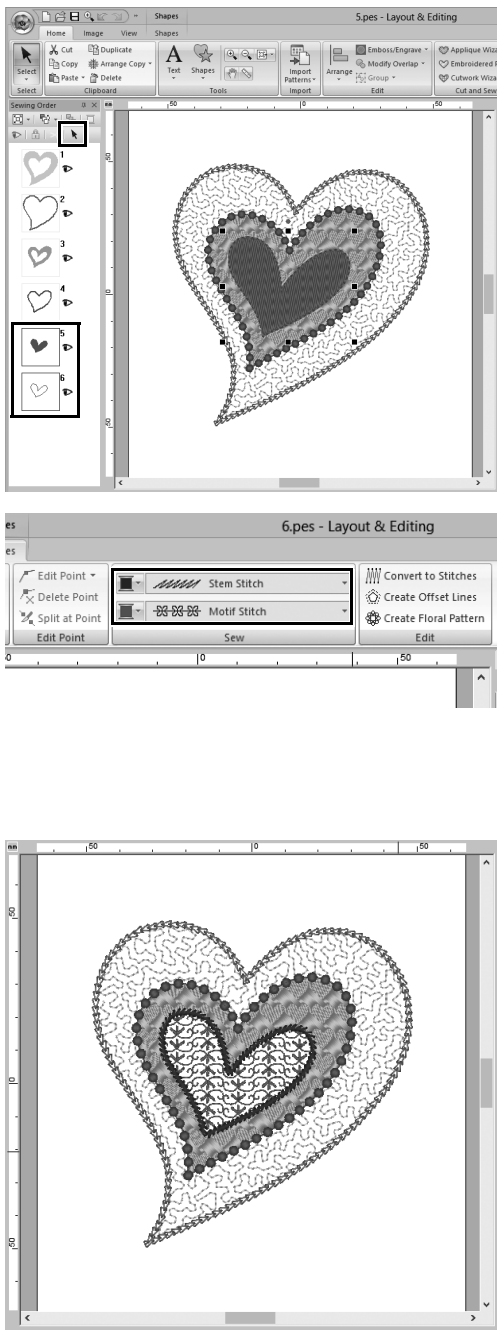
Click , select the desired pattern in the [Browse] dialog box, and then click [OK]. For this example, select [stamp1].



Fill stitch pattern	stamp1 
Pattern height	7.5 mm
Pattern width	7.5 mm
Direction	0 degree
Offset	row, 0 %

Step 4

Applying motif stitches to a shape



- 1

Select the smallest heart pattern (frames 5 and 6) in the [Sewing Order] pane.
- 2

Click the [Shapes] tab.

Line sew type	Stem Stitch
Line color	PURPLE
Region sew type	Motif Stitch
- 3

Click the [Sewing Attributes] tab, and then specify the following settings.

■ Line sew

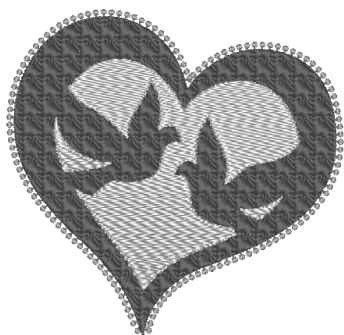
Width	2.0 mm
Spacing	1.5 mm
Angle	45 degrees
Stitch Type	(Triple)
Start/End Type	Feed

■ Region sew

Motif pattern	motif074
Motif	Pattern1 only
Motif height	10.0 mm
Motif width	9.5 mm
H-Arrange	
V-Arrange	
H-Offset	0.0 mm
V-Offset	1.0 mm
H-Spacing	0.0 mm
V-Spacing	-6.0 mm

Practical Application ⑥

Bird of peace – Applying gradation to a vector image –



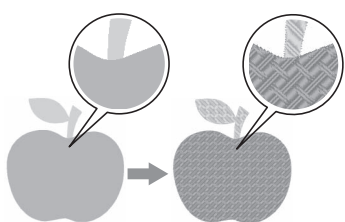
Step 1 Importing vector images (SVG files)

Step 2 Displaying hidden objects

Step 3 Decorating the outer heart shape

Step 4 Applying gradation

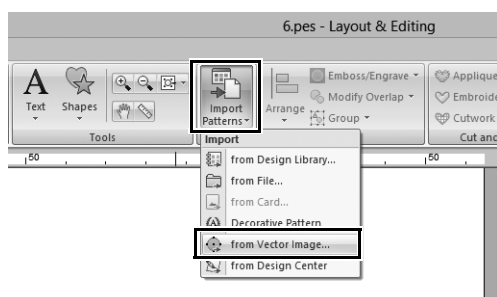
Creating embroidery patterns using images



An embroidery pattern can be created from an image, such as photo or illustration. Use the **[Import from Vector Image]** command for converting WMF, EMF and SVG image files to embroidery patterns. The various **[Stitch Wizard]** functions are also available to create embroidery patterns from BMP, JPG and PNG image files.

Step 1

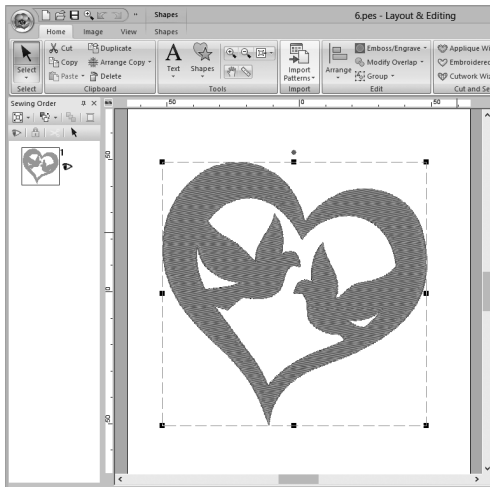
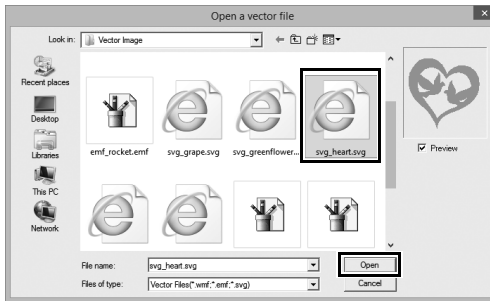
Importing vector images (SVG files)



1 Click the **[Home]** tab.

2 Click **[Import Patterns]** in the **[Import]** group, and then select **[from Vector Image]** in the menu.

→ The **[Open a vector file]** dialog box appears.

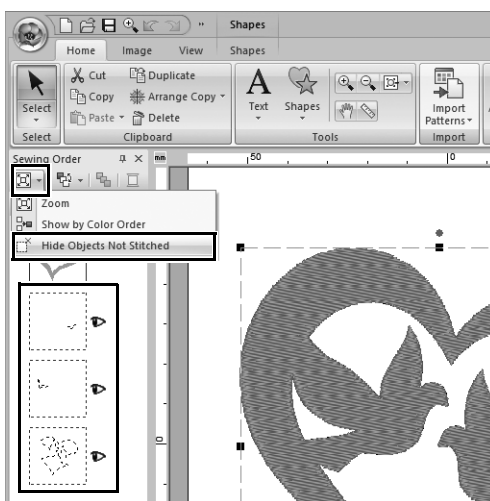


3 Select the file to be imported, and then click [Open].

For this example, we will import [svg_heart.svg].

→ The image appears in the [Design Page] as a shape pattern.

Step 2 Displaying hidden objects

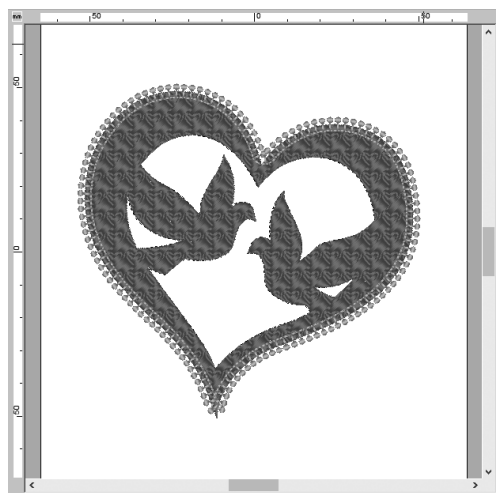
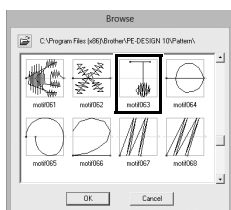
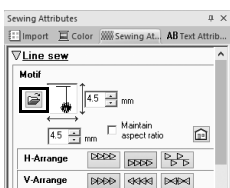
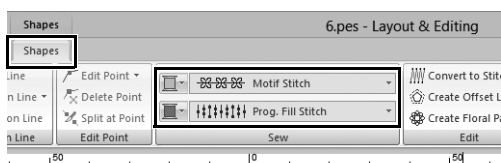


1 Click [] in the toolbar at the top of the [Sewing Order] pane, and then click [Hide Objects Not Stitched] in the menu.

→ Hidden objects that are not to be stitched appear in the pane.

Step 3

Decorating the outer heart shape



1 Select the colored area of the heart shape, and then click [Shapes] tab.

2 Specify a color and sew type for each shape as follows.

Line sew type	Motif Stitch
Line color	SALMON PINK
Region sew type	Prog. Fill Stitch
Region color	DEEP ROSE

3 Click the [Sewing Attributes] tab. Switch the pane to expert mode, and then specify the following settings.

■ Line sew

Motif pattern	motif063
Motif height	4.5 mm
Motif width	4.5 mm
H-Arrange	
V-Arrange	
Offset	0.0 mm
Spacing	0.0 mm
Run pitch	5.0 mm
Start/End Type	Feed

■ Region sew

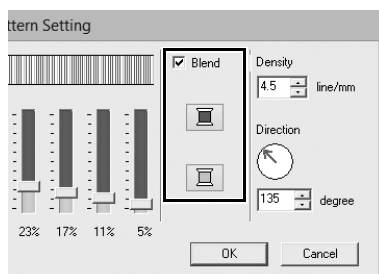
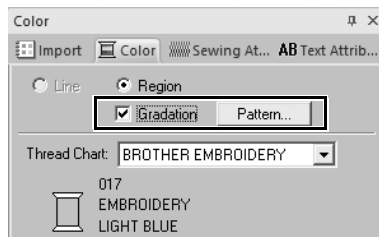
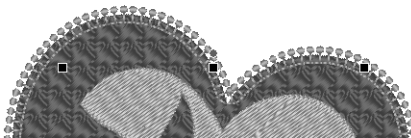
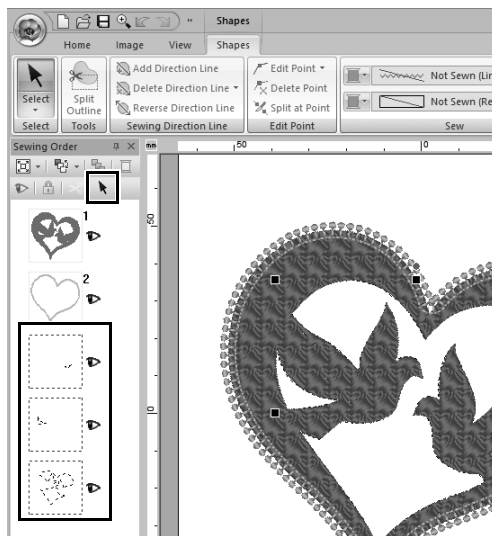
Under sewing	, Medium
Density	4.8 line/mm
Direction	Manual, 45 degrees
Running Stitch Path	
Pull compensation	0.0 mm


Programmable fill

Pattern	pat13
Pattern height	6.0 mm
Pattern width	6.0 mm
Direction	0 degree
Offset	row, 0 %

Step 4

Applying gradation




1 Move the pointer into the [Sewing Order] pane and drag it to draw a selection frame around all the inner patterns, and then click  at the top of the pane.

2 Specify a color and sew type for each shape as follows.

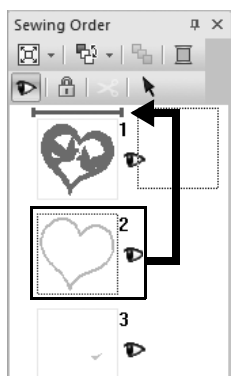
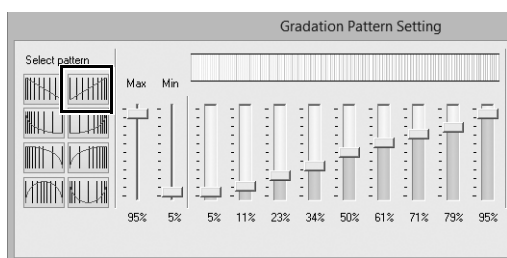
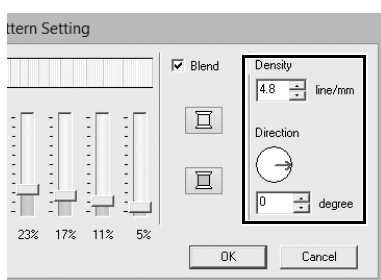
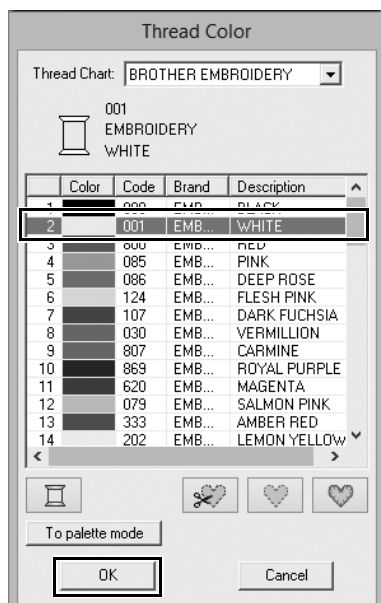
Region sew type	Fill Stitch
Region color	LIGHT BLUE

3 Select the [Gradation] check box, and then click [Pattern].
→ The [Gradation Pattern Setting] dialog box appears.

4 Select the [Blend] check box on the right side of the dialog, and then click  (top).
→ The thread color list appears.

Practical Application ⑥

Bird of peace – Applying gradation to a vector image –



- 5** Select the color to be used in the two-color gradation, and then click [OK].

For this example, select [WHITE].

- 6** Specify the following settings using the right side of the [Gradation Pattern Setting] dialog box.

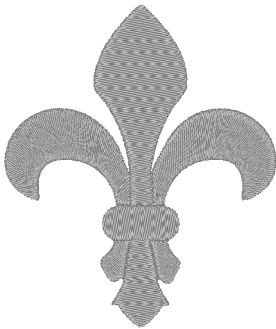
Density	4.8 line/mm
Direction	0 degrees

- 7** Select  for gradation pattern, and then click [OK].

- 8** In the [Sewing Order] pane, drag frame 2 (heart shape outline) to the top (above the outer heart shape).

Practical Application ⑦

Symbol – Specifying the sewing direction for each separate shape –



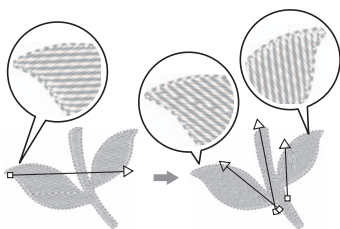
Step 1 Splitting patterns

Step 2 Setting a sewing direction

Step 3 Optimizing the sewing order

Step 4 Grouping pattern parts

Changing sewing direction




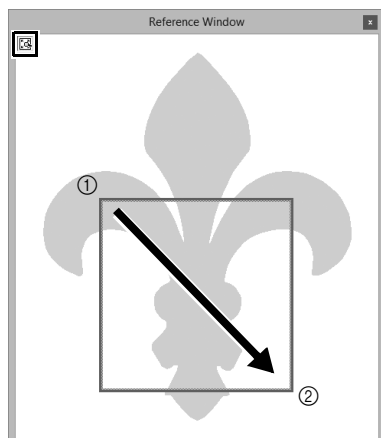
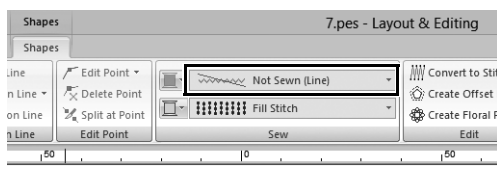
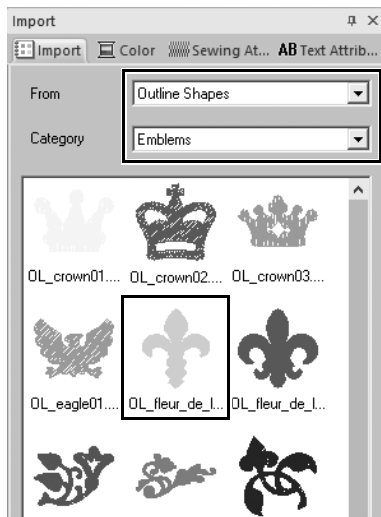
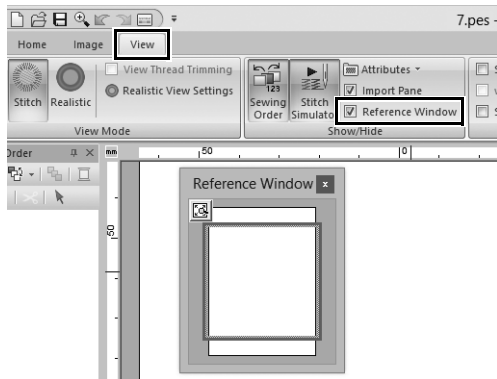
When closed regions are created using **[Shapes]** tools, a uniform sewing direction, indicated by a sewing direction line (red arrow), is applied to the entire region. The direction line can be edited by moving the end points, or new sewing direction lines can be added. Since the direction can be set intuitively by dragging it, try various sewing directions to find the optimum direction for the pattern shape.

Step 1

Splitting patterns



- 1 Click  at the bottom-right of the screen to switch to the [Stitch View] mode.



- 2** Click the [View] tab, and then select the [Reference Window] check box in the [Show/Hide] group.
→ The [Reference Window] appears.

- 3** In the [Import] pane, select [Outline Shapes] from the [From] selector, then [Emblems] from the [Category] selector.

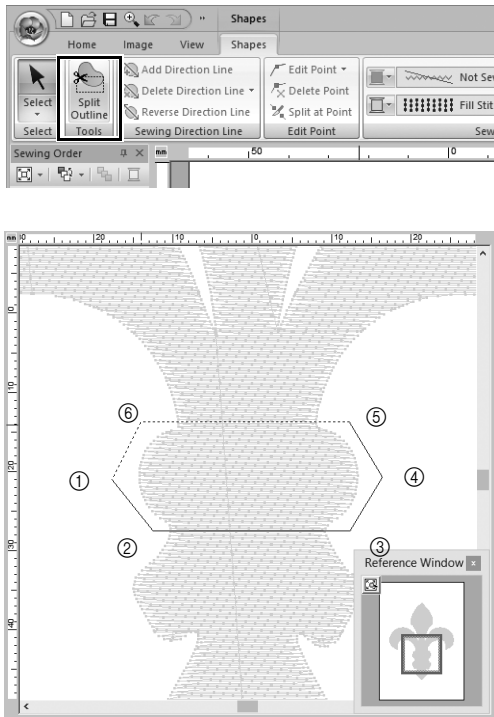
- 4** Select pattern [OL_fleur_de_lys01.pes], and then drag it into the [Design Page].
→ If necessary, enlarge or reduce the pattern to an easy-to-edit size.

- 5** Select the pattern using the [Select] tool, and then click the [Shapes] tab.

- 6** Click the [Line sew type] selector in the [Sew] group, and then click [Not Sewn (Line)] in the list.
→ The outline is removed.

- 7** Click  in the [Reference Window].

- 8** Drag the pointer in the window to draw a display area frame around the desired part of the pattern to zoom to.
→ The selected display area is enlarged in the [Design Page].



9 Select the pattern, and then click **[Split Outline]** in the **[Tools]** group of the **[Shapes]** tab.

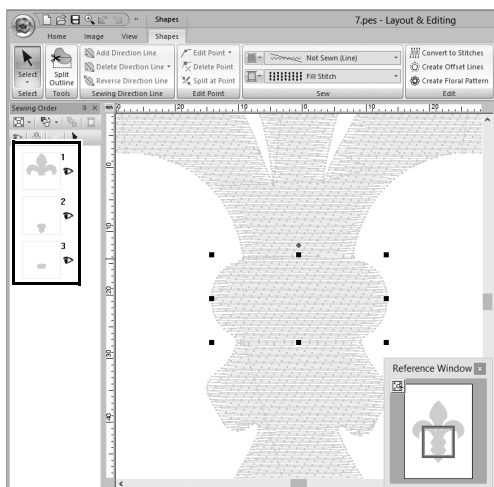
→ The mode for specifying splitting is entered. In this mode, a section of the pattern can be split off by enclosing it in a polygon.

10 Click in the **[Design Page]** to create a polygon that encloses the area of the pattern to be split off.

The polygon will appear with the first clicked point as the beginning of the polygon and subsequent clicked points as vertices. For this example, we will enclose the middle section of the pattern with a polygon in order to split it off.

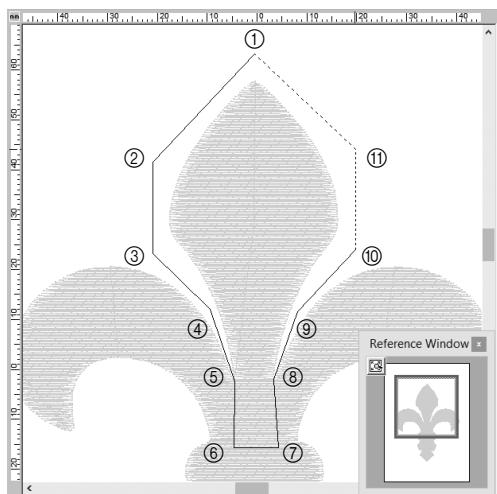


- A section of pattern cannot be split off and an error message appears, if a polygon has intersecting lines.
- Right-click to cancel the previous point that was clicked.
- By displaying the pattern enlarged, the area to be split off can be selected more accurately.

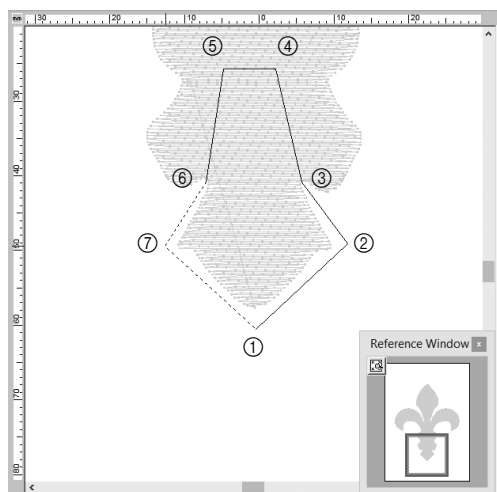


11 Double-click on the final vertex (⑥) of a polygon to confirm the displayed polygon as the area to be split off.

→ The single shape is split into three parts, which appear in the **[Sewing Order]** pane.



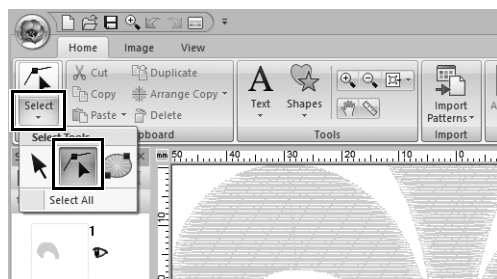
12 After selecting the upper section from the three pattern parts, repeat steps **8** through **11** to split off the center section.



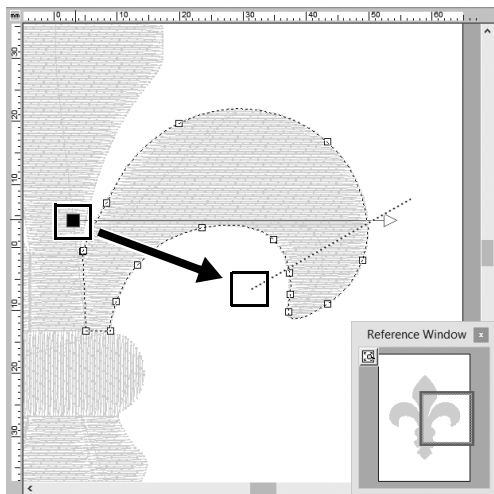
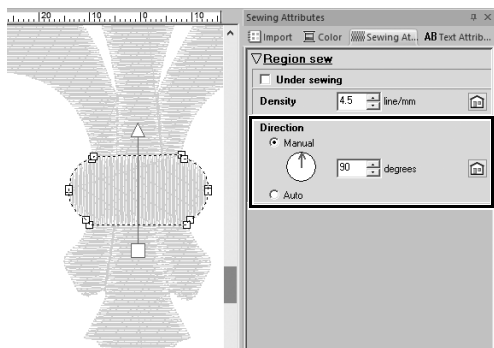
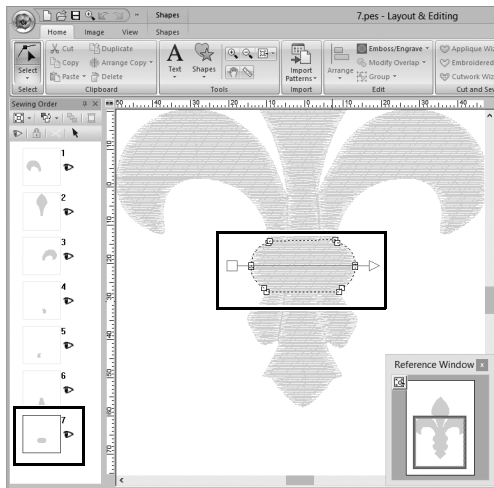
13 After selecting the lower section from the five pattern parts, repeat steps **8** through **11** to split off the center section.

Step 2

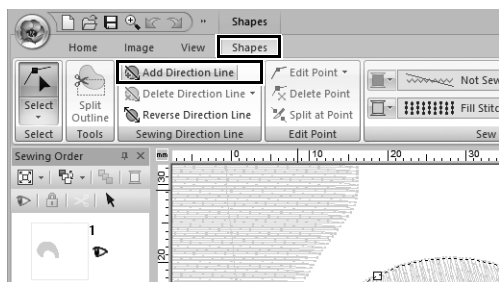
Setting a sewing direction



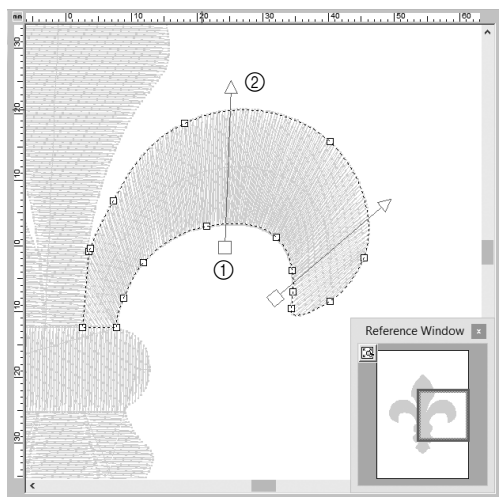
1 Click [Select] in the [Select] group, and then click  (Select Point).



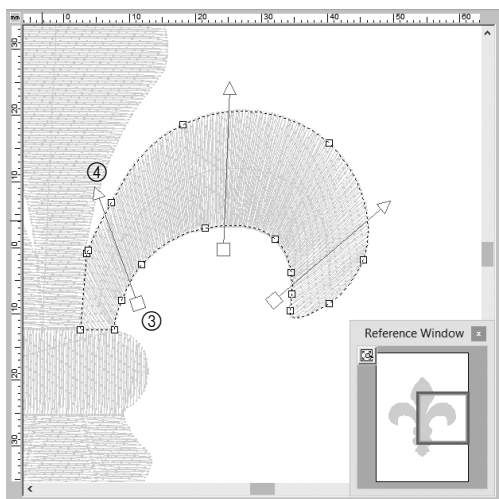
- 2** Select the middle section of the pattern that was first split off.
→ The selected pattern is displayed in shape editing mode, and the points forming the shape as well as the sewing direction line (arrow) appear.
- 3** Click the [Sewing Attributes] tab. Select [Manual] under [Direction], and then type "90" in the input box to set the sewing angle.
- 4** Using , select the upper-right section of the pattern.
- 5** Drag the end (red square) of the direction line (arrow) to specify the sewing direction for the right side of the pattern part.
The sewing direction is specified from the end to the point of the direction line.



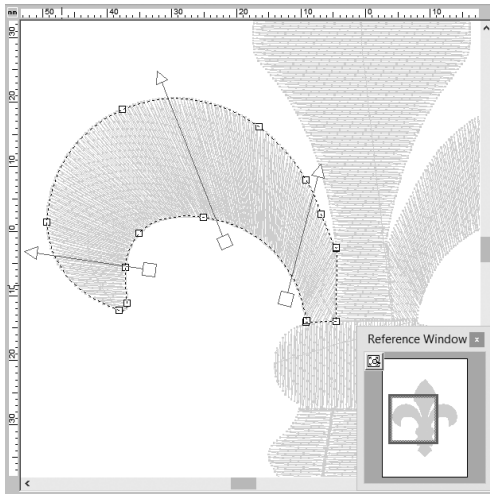
- 6** Click the [Shapes] tab, and then click [Add Direction Line] in the [Sewing Direction Line] group.
A direction line (arrow) for specifying the sewing direction can be added.



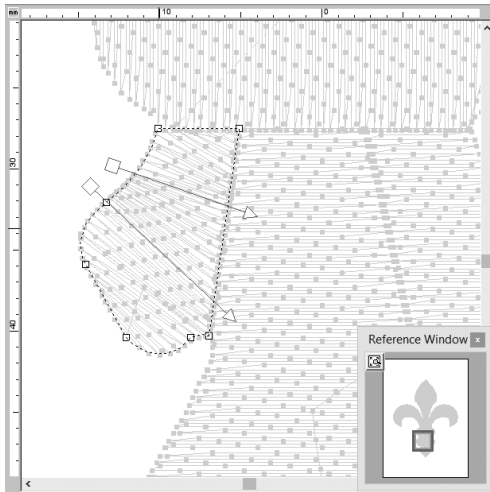
- 7** Click below and toward the center of the selection, move the pointer across the pattern part, and then click again above of the selection.
→ The second direction line appears between the two clicked points.



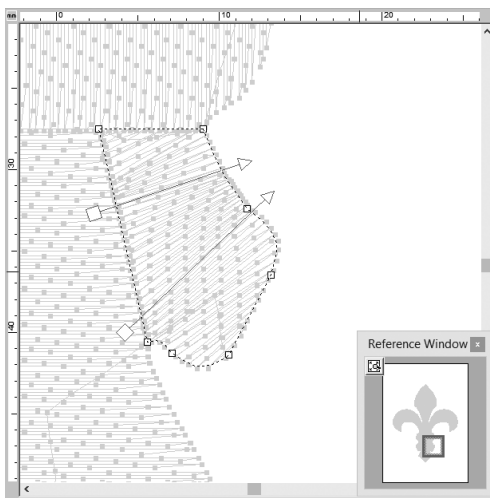
- 8** Repeat step **7** to set additional direction lines.



- 9** Repeat steps **4** through **8** to specify the sewing directions for the upper-left section of the pattern.



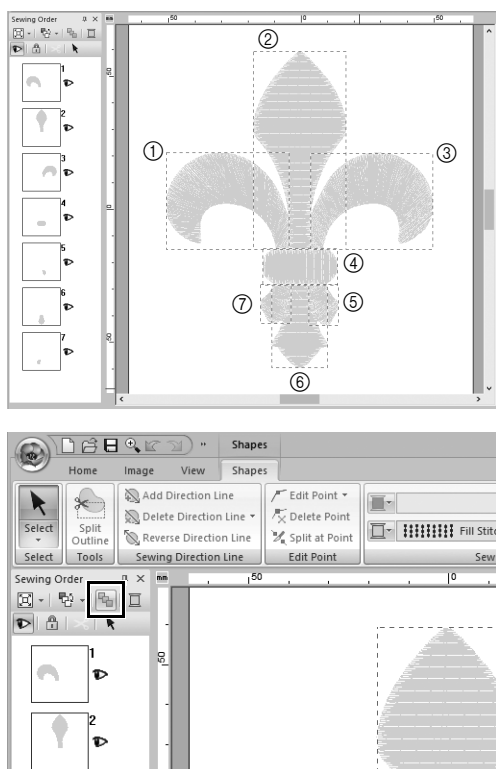
- 10** Repeat steps **4** through **8** to specify the sewing directions for the lower-left section of the pattern.




- 11** Repeat steps **4** through **8** to specify the sewing directions for the lower-right section of the pattern.

Step 3

Optimizing the sewing order



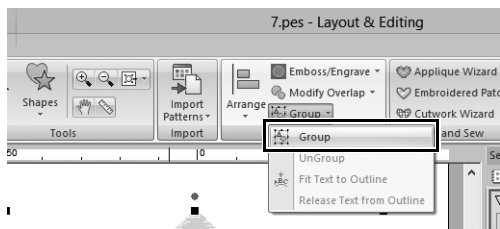
- 1** In the [Sewing Order] pane, change the sewing order by dragging the frames to the desired positions.
For this example, change the order as shown in the figure left.
- 2** In the [Sewing Order] pane, drag the pointer to draw a selection frame around all the pattern parts.
- 3** Click  at the top of the [Sewing Order] pane to automatically optimize the sewing order.




Find the most efficient sewing order by viewing the pattern in the [Design Page] in [Stitch View] mode to check the stitching or by previewing the stitching with the [Stitch Simulator].

Step 4

Grouping pattern parts



- 1** Select , and then drag the pointer in the [Design Page] to draw a selection frame around the entire pattern.
- 2** Click [Group] in the [Edit] group, and then click [Group] in the menu.
By grouping multiple patterns, they can be enlarged/reduced or rotated together in a single operation.

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