



Mastering Your BERNINA^{CD} Embroidery Software V6.0





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Class 5 - Digitizing Class Overview

Digitizing Tutorial

Quick Start Guide, Chapter 9, page 127

Blackwork Run

For more information on Blackwork Run, refer to Chapter 20, page 207

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DesignerPlus

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Class 5 - Digitizing Tutorial

Notes:



OPEN the Quick Start Guide Help > Quick Start Guide Access Chapter 9 page 127for the step-by-step instructions to create the motif shown above.

The <u>Auto-Digitizing Tutorial</u> will introduce the basics of automatically digitizing a design as well how to enhance embroidery that was automatically generated

Learn how to adjust the stitching sequence as well as optimize the stitch-out.

Upon completion of the Tutorial, be sure to Save the design file (File>Save As).

The design is ready to send to the machine of choice for stitching.

Review Chapters 29 and 30, beginning on page 344 of the Onscreen Manual.

These chapters outline information for printing design templates/ worksheets as well as sending the design to the embroidery machine.

- Review and Print your design worksheet
- · Send design to the embroidery machine to be stitched

Software level

DesignerPlus. . . . yes

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Class 5 - Blackwork Run

An outline can make or break an embroidery design - a GREAT outline just adds the perfect finishing touch!

The software offers the Blackwork Run feature to assist in creating GREAT outlines. As described in the Onscreen manual Blackwork Run is designed to join selected outlines to form a single grouped, reinforced outline, correctly sequenced for efficient stitchout.

Important notes regarding Blackwork Run - - -

- 1. Always follows the color of the first object in the sequence.
- 2. Works with Open and Closed Objects, Circle/Oval and Rectangle Objects.
- 3. Works with the following outline types: Single, Triple, Backstitch, Stemstitch, Satin, and Blanket.

Select Art Canvas Mode

Load Picture > My Designs > Artwork folder > BERNINA heart folder.

Select Files of type > All Picture Files > Multicolored Heart w straight edges.wmf Press the Enter key to place the artwork on the workspace.



Select the Embroidery Canvas.

Q Show All

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Select Closed Object tool

Select Outline Stitch > Single

Digitize the outline of the heart (within the lace borderpurple area) with a series of right and left clicks.

Touch <Enter> key to confirm

Select Open Object tool

Digitize the various separate straight lines within the heart. Be sure the lines are touching either the heart outline or another interior line.

Remember to press <Enter> after each separate line.

Hide Picture.

Select View > Slow Redraw. Notice all of the jump stitches resulting from each of the separate outline stitches. This will not be a very professionally sewn design!

⊖ Select Edit > Select All

Select Blackwork Run tool; follow the prompts in the Status line to Enter Entry point; the software automatically re-sequences the stitching to eliminate jump stitches.

Select View > Slow Redraw and notice the changes!

Save design file. File>Save As Blackwork Run.ART

Notes:

For more information on Blackwork Run, refer to Chapter 20, page 207

Software level

DesignerPlus....yes

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Class 6 - Special Effects

Class Overview

TrueType Fonts

For more information on TrueType fonts, refer to Chapter 27, beginning on page 317

Elastic Lettering

For more information on Elastic Lettering, refer to Chapter 27, beginning on page 325

Buttonholes

For more information on Buttonholes, refer to Chapter 20, beginning on page 213

Gradient Fills

For more information on Gradient Fills, refer to Chapter 21, beginning on page 227

Color blending

For more information on Color Blending, refer to Chapter 21, beginning on page 229

Craft Stitches

For more information on Craft Stitches, refer to Chapter 23, beginning on page 255

Pattern Run Stitches

For more information on Pattern Run Stitches, refer to Chapter 22, beginning on page 234

Create a Pattern

For more information on Creating Pattern, refer to Chapter 22, beginning on page 243

Pattern Stamps

For more information on Pattern Stamps, refer to Chapter 22 beginning on page 234

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Class 6 - TrueType Fonts

The DesignerPlus level incorporates the ability to create embroidered lettering from fonts that are installed on your computer. These are known as TrueType fonts.

IMPORTANT TIP: Remember that some TrueType fonts may not be suitable for embroidery. Experiment with the fonts and settings to find one that works for your creation.

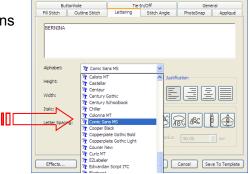
🗋 🛛 File > New

Press <A> key on the keyboard to open the Lettering Object Properties box.

Type <BERNINA> in the text box.

The Scroll through the alphabets to find True Type fonts.

Select Comic Sans



Change Height to 20mm

Click **OK**; left click on screen to generate the lettering Change the lettering color to Color C3 - Red

Experiment with at least 2 additional fonts.

Save design file.

File > Save As TrueType fonts.ART



Font: Comic



Font: Jokerman



Notes:

For more information on TrueType fonts, refer to Chapter 27, beginning on page 317

Software level

DesignerPlus. . . . yes

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Class 6 - Elastic Lettering

Using Elastic Lettering features is a great way to add personality to ettering creations!

DesignerPlus software offers the ability to Bulge, Arch, Stretch, or Compress your lettering.

In the Elastic Lettering menu, there are 4 options available - - -Straight, Curved, Perspective, Diamond

File > New

R

Press <A> key on the keyboard to open the Lettering Object Properties box. Type <ABC> into the text box Select Veranda Alphabet Change the height to 16mm Click **OK**; left click on screen to generate the lettering

Change the lettering color to Color C3 - Red

Quick Clone 7 more copies for a total of 8 - "ABC"'s on the screen.

Select the first copy of <ABC>

Edit > Elastic Lettering > Straight

The selected lettering is now in a box with 4 yellow corner handles. The handles can be dragged independently or as pairs using either the <Ctrl> or <Shift> keys.

(For specific information, refer to page 325 of the manual)

Change each of the "ABC" lettering groups to reflect the 4 elastic lettering options; one with a single handle being moved and one with a pair of handles being moved.

Save design file. File > Save As Elastic Lettering.ART

[[ABC	ABC
	ABC	АВС
	ABC	ABC
	АВС	ABC

Notes:

For more information on Elastic Lettering, refer to Chapter 27, Special Lettering Effects beginning on page 325.

ABC	ABC
ABC	ABC
ABC	ABC
ABC	ABC
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Software level

DesignerPlus. . . . yes

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Class 6 - Buttonholes

DesignerPlus software gives you the freedom to incorporate buttonholes as a functional or decorative feature in you embroidery creations. Adding a buttonhole and merging it into your embroidery motif couldn't be any easier!

Open Design

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File>Open>My Designs folder > Borders folder > FM902.ART Select the design

- Right click 1x on Rotate 45 deg CCW / CW
- Left click on Scale by 20% Down / Up

Quick Clone a second copy of the motif. Align the motifs vertically, with the corner points just touching.

Envision a garment front with these embroidery motifs stitched down the front with buttonholes in each one.

Arrange > Add Buttonhole

A shadow of a buttonhole is now attached to the cursor. Click on the screen to place a buttonhole.

Click in the corner area of each lace motif to add a buttonhole. Touch Esc on the keyboard to deactivate the buttonhole tool.

Select a buttonhole

Right mouse click to open Object Properties box; there are 9 buttonhole styles to choose from. It is also possible to change the angle of the buttonhole and buttonhole size.

Select Round buttonhole.

Change the buttonhole to Horizontal orientation; Slit length > 18mm.

Click OK.

Move the buttonhole into a pleasing position. Repeat the above process with the second buttonhole

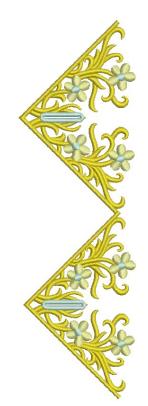
To align both buttonholes perfectly, hold down the <Ctrl> key and select both buttonholes; use one of the vertical alignment tools.

To remove the stitches from under the buttonhole:

- Select the buttonhole.
- Select the Remove Overlaps tool; stitches are automatically removed.

Repeat the process for the remaining buttonhole.

Save the design file. File > Save As Buttonholes.ART



Notes:

For more information on Buttonholes, refer to Chapter 20, Specialized Digitizing Techniques beginning on page 213.

Software level

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Class 6 - Craft Stitch Borders

The DesignerPlus software level provides an entire category of Craft Stitches to design and create with. These stitches are designed to "mimic" hand-worked embroidery. The Craft Stitch category includes the following: Blackwork, Candlewicking, Lacework, Stipple, Backstitch, and Stemstitch.

Craft stitches can be used to create borders and/or fills.

Let's start with creating Craft Stitch borders. Select the Closed Object tool Select Outline > Single Digitize a heart shape, using the Grid as a guide; touch <Enter> key to generate the stitches. Create 5 more copies, for a total of 6 hearts, arranged two across and three Left clicks down. Select top hearts; change the outlines to a

Select bottom left heart; change the outline to a Stemstitch. Select bottom right heart; change the outline to a Backstitch.

Select top right heart; right click to open Object Properties box.

both the size and spacing of the selected pattern.

Change the Size and Spacing to 6mm; Apply to view changes;

pattern is very large on the heart.

Select middle right heart; open Object Properties box. Choose pattern Half Knot-3-5mm; Apply.

click OK to accept changes.

Select from different patterns to apply as well as changing

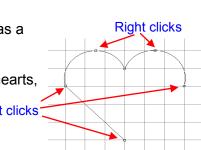
Change Spacing to 4mm; Apply to view changes; click OK.

Blackwork Border.

Save design file.

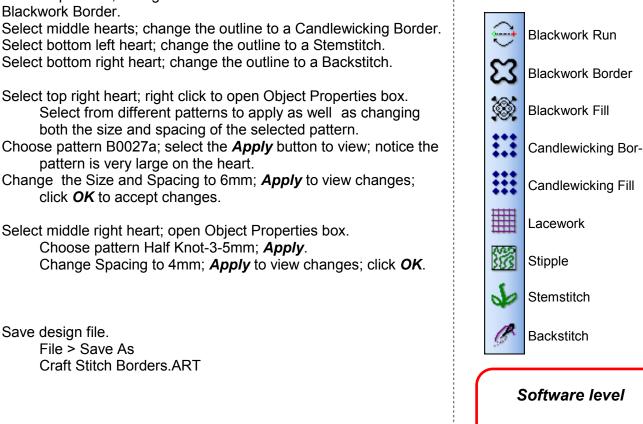
File > Save As

Craft Stitch Borders.ART



Notes:

For more information on Craft Stitches, refer to Chapter 23, Craft Stitch Borders and Fills beginning on page 255.



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Class 6 - Gradient Fills

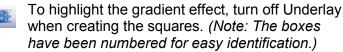
Using Gradient Fills to add perspective or shading to embroidery creations. Gradient fills vary the stitch spacing between dense and open fills. The software offers several different Gradient Fill effects to choose from.



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File > New

Begin by digitizing several square shapes using the Rectangle tool Create a total of 6 squares; to create a perfect square with the Rectangle tool, hold down the <Ctrl> key.



Select Box 1

Right click to open Object Properties box. Select the *Effects* button > Gradient Fill tab.

Click in the Gradient Fill box to turn the feature on, select the First Profile.

Go to the Others tab, notice the *Travel on Edges* option is selected.

Click on OK.

Select Box 2; repeat the above process, selecting Second Profile. Select Box 3; repeat the above process, selecting Third Profile. Select Box 4; repeat the above process, selecting Fourth Profile.

Select Box 5; repeat the above process, selecting the first Profile again.

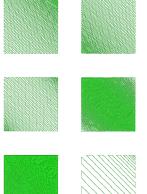
Adjust the Maximum Spacing value to 0.1mm

Select Box 6; repeat the above process, selecting the first Profile again.

Adjust the Maximum Spacing value to 10mm.

Save the design file. File > Save As Gradient Fills.ART





Notes:

For more information on Gradient Fills, refer to Chapter 21, Artistic Stitch Effects beginning on page 227

Software level

DesignerPlus. . . . yes

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Class 6 - Color Blending

Color Blending is another way in which to add shading, perspective, three-dimensional looks and interesting color effects to embroidery creations. The DesignerPlus level of software offers several Color Blending options to choose from.

File > New

Begin by digitizing six circle shapes using the Circle / Oval tool To highlight the color blending effect, deactivate auto Underlay turned off when creating the circle. (*Note: The circles have been numbered for easy identification.*)



Select Circle 1

Select the Color Blending tool. Select Profile 1; leaving Maximum Spacing at default settings.

Adjust the Colors as follows - - -Bottom Layer - C5; Top Layer - C11 Click *OK* and click away from the circle to view the changes.

- Select Circle 2; select Color Blending tool Select Profile 2; leaving Max. Spacing and Colors at the new default; Click **OK**.
- Select Circle 3; select Color Blending tool Select Profile 3; leaving Max. Spacing and Colors at the new Default; Click *OK*.
- Select Circle 4; select Color Blending tool Select Profile 4; leaving Max. Spacing and Colors at the new Default; Click **OK**.
- Select Circle 5; select Color Blending tool Select Profile 1;change Maximum Spacing for both Bottom / Top layers to 5mm; Click **OK**.
- Select Circle 6; select Color Blending tool Select Profile 1; change Maximum Spacing for both Bottom / Top layers to 1mm; Click **OK**.

Select Artistic View mode to see the various profile combinations.

Save design file: File > Save As Color Blending.ART









Notes:

For more information on Color Blending, refer to Chapter 21, Artistic Stitch Effects beginning on page 229.

Software level

DesignerPlus. . . . yes

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Class 6 - Craft Stitch Fills

We've created Craft Stitch borders, now let's create some unique fills using the Craft Stitches

Open the previous file > Craft Stitch Borders.ART Select top left heart; change the outline to a Blackwork Fill. Select top right heart; change the outline to a Candlewicking Fill. Select middle left heart; change the outline to Lacework. Select middle right heart; change the outline to Stipple Fill; accept

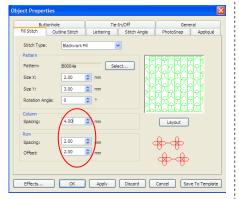
the default settings by clicking on OK.

As with Craft Stitch borders, Object Properties can be changed on Craft Stitch fills.

Select bottom left heart; change the outline to a Blackwork Fill. Right click to open the Object Properties box; select Fill Stitch tab. Choose pattern B0004a; select the *Apply* button to view; this is a fairly small pattern and fills the shape nicely.

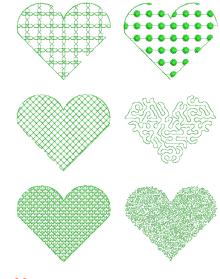
Let's make some changes - - -

Change Column Spacing > 4mm Change Row Spacing > 2mm Change Row Offset > 2mm Select the *Apply* button between each change to view the motif When complete, click *OK*.



Select bottom right heart; change the outline to Stipple Fill; open Object Properties to adjust the Stitch Length and Loop Spacing. Change the Stitch Length > 1mm Change the Loop Spacing > 1mm Select OK.

Save design file. File > Save As Craft Stitch Fills.ART



Notes:

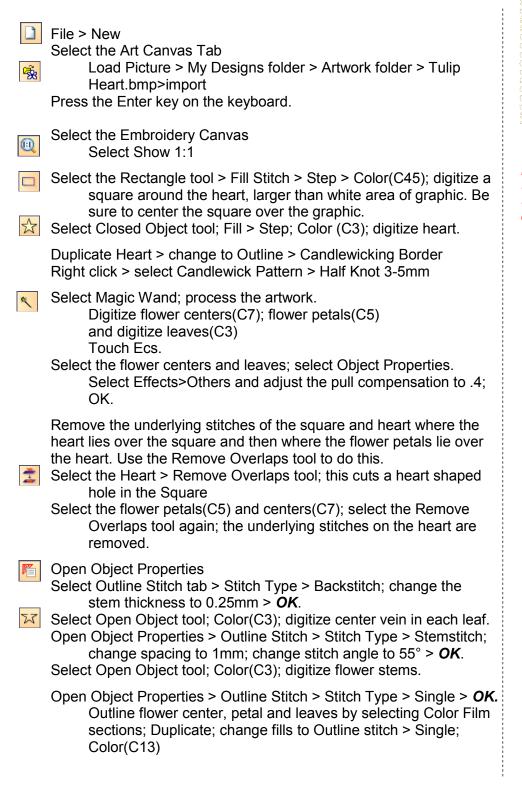
For more information on Craft Stitches, refer to Chapter 23, Craft Stitch Borders and Fills beginning on page 255.

€	Blackwork Run			
ដ	Blackwork Border			
	Blackwork Fill			
:::	Candlewicking Bor-			
##	Candlewicking Fill			
	Lacework			
	Stipple			
\$	Stemstitch			
Ø.	Backstitch			
Software level				
DesignerPlusyes				

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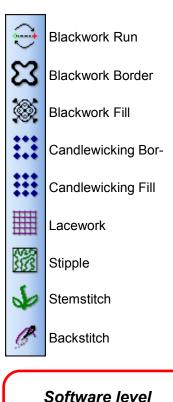
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Class 6 - Craft Stitch Sampler



Notes:

For more information on Craft Stitches, refer to Chapter 23, Craft Stitch Borders and Fills beginning on page 255.



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Class 6 - Craft Stitch Sampler (cont'd)

Select a flower petal.

Open Object Properties > Fill Stitch tab > Blackwork Fill > select B0004a > change Rotation angle to $35^{\circ} > OK$.

Repeat for other petal, using a Rotation angle value of -35° > OK.

Select Heart

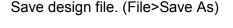
8

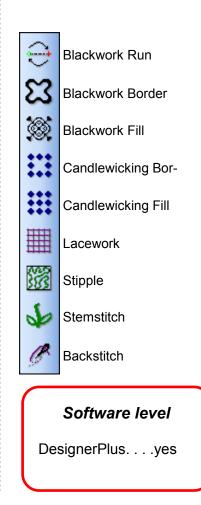
Open Object Properties > Fill Stitch tab > Stitch Type > Lacework. Select lace pattern L0003a > *OK*.

Select background square > Stipple . Open Object Properties to change Stitch Length and Loop Spacing to 2mm > *OK*.

Notes:

For more information on Craft Stitches, refer to Chapter 23, Craft Stitch Borders and Fills beginning on page 255.





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Class 6 - Pattern Run Outlines

Pattern Run stitches are pre-defined simple design elements that can be applied to outlines, fills and even used as "stamps".

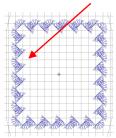
🗋 File > New

Settings > Options > Grid tab > Snap to Grid > OK.

- Open Object Properties box > Outline stitch > Pattern Run > NP005a pattern set > 660a
- Select Open Object tool > Outline stitch > Pattern Run Digitize from left to right in a zigzag pattern forming a rectangle. Note the grid lines turning red when placing a mouse click directly at the intersecting lines.

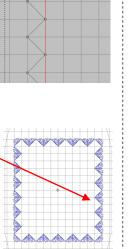
Press the <Enter> key.

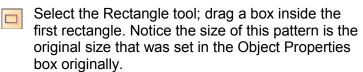
The resulting image shows the selected Pattern Run stitch not fitting the digitized line very well.



Select the Pattern Run frame > right click to open Object Properties box > change Size of Pattern to 15mm > **OK**.

The Pattern now fits the digitized line much better.





- File > Insert Design > My Designs folder > Florals folder > Fl940.ART
- Rotate design into a pleasing position within the Pattern Run Frames.

Save the design file. File > Save As Pattern Run frame.ART



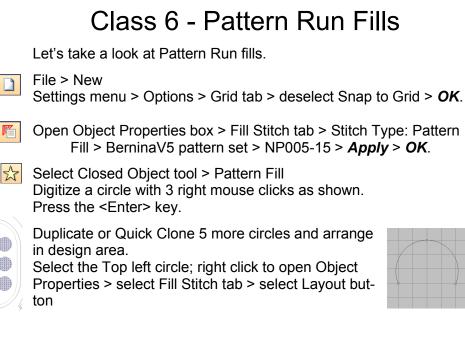
Notes:

For more information on Pattern Run Stitches, refer to Chapter 22, Pattern Stamps, Runs and Fills, beginning on page 234.



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Within the Object Properties box numerical changes to the pattern fill may be entered to change the look of the pattern fill. The Layout option provides a visual method to make pattern changes.

(For specific details on the functions of the guide pattern stitches (blue stitches) refer to Onscreen manual, page 241.)

To close the layout view, simply touch the <Esc> key. The Object Properties box reappears.

Make the following changes to the circles -

<u>Top left circle</u> - no changes <u>Top right circle</u> - Size X and Size Y: 10mm <u>Middle left circle</u> - Rotate 45° <u>Middle right circle</u> - Column Spacing: 10mm <u>Bottom left circle</u> - Row Offset: 3mm <u>Bottom right circle</u> - Colum Spacing: 10mm; Row Spacing: 10mm; Row Offset: 5mm

Click OK to close the Object Properties box.

Save the design file. File > Save As Pattern Run Fills.ART













Notes:

For more information on Pattern Run Stitches, refer to Chapter 22, Pattern Stamps, Runs and Fills, beginning on page 234.

Software level

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Class 6 - Create a Pattern

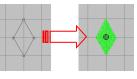
DesignerPlus software offers unlimited create options; including the ability to create custom patterns!



Select the Closed Object tool.

Digitize a small diamond shape as shown press the <Enter> key to generate stitches.

Select the diamond Settings > Create Pattern; a series of dialog boxes will appear.



Name the new pattern, or create a new Pattern Set to save it in.



Create the new Pattern Set > enter new Pattern Name > OK.



After giving the Pattern a name > OK, the software will ask for digitized reference points at the beginning and end of the pattern

to determine the direction of the stitch out. Follow the prompts in the Status line. Once completed, the following dialog box appear.

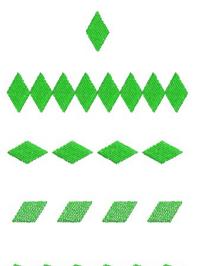
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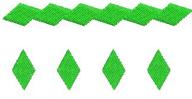
Each stitch within the Pattern will connect with the next based on where the reference points were placed. (Refer to page 243 in the Onscreen manual)

Create several different connection options for the same diamond shape. Each pattern variation will require a different name. Repeat the above listed process for each new pattern.

After creating a different pattern, select the Open Object tool > $\overline{\mathcal{X}}$ Outline > Pattern Run; digitize a row of stitching

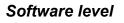
Save the design file. File > Save As Create Pattern.ART





Notes:

For more information on Creating Patterns, refer to Chapter 22, Pattern Stamps, Runs and Fills, beginning on page 243.



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Class 6 - Pattern Stamps

Place individual pattern stitches anywhere on the design composition!

File>Open > My Designs folder > Children folder > Cj406.ART

Arrange > Pattern Stamp; the Select Pattern dialog box opens. Select Symbol Set: 01Monogram Ornaments > pattern M052a > **OK**.

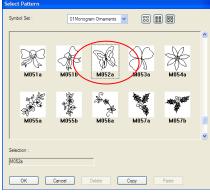
The dialog box closes; the pattern is now attached to the cursor. Move the cursor to place the pattern; left click 1x.

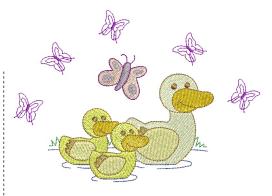
The stamp is connected to a rotating anchor point. Click a second time to set the stamp.

Place several butterfly patterns around the "duck family" as desired. These patterns can also be scaled and rotated.

When pleased with the design, touch the <Esc> key to deactivate the Pattern Stamp feature.

Save the design file: File > Save As Pattern Stamps.ART





Notes:

For more information on Pattern Stamps, refer to Chapter 22, Pattern Stamps, Runs and Fills, beginning on page 234.

Software level

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