

# Mastering Your **BERNINA<sup>+</sup>** Embroidery Software V6.0



## *Owner's Workbook - Part 2*

## Table of Contents

<b>Index.....</b>	<b>2</b>
<b>Class 5: Digitizing .....</b>	<b>3</b>
Class Overview .....	3
Digitizing Tutorial .....	4
Blackwork Run.....	5
<b>Class 6: Special Effects .....</b>	<b>6</b>
Class Overview .....	6
TrueType Fonts .....	7
Elastic Lettering .....	8
Buttonholes.....	9
Gradient Fills.....	10
Color Blending .....	11
Craft Stitch Borders.....	12
Craft Stitch Fills.....	13
Craft Stitch Sampler.....	14
Pattern Run Outlines.....	16
Pattern Run Fills .....	17
Create a Pattern .....	18
Pattern Stamp.....	19

## 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*

This class is formatted for owners of  
the following levels of BERNINA  
Embroidery Software, V6

- DesignerPlus

## Class 5 - Digitizing Tutorial



### Notes:

OPEN the Quick Start Guide  
Help > Quick Start Guide

*Access Chapter 9 page 127 for the step-by-step instructions to create the motif shown above.*

The Auto-Digitizing Tutorial 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 On-screen 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

## 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 stitch-out.

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.

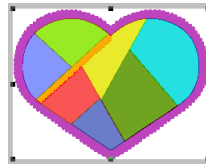
Select Art Canvas Mode



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.



Show All



Select Closed Object tool

Select Outline Stitch > Single

Digitize the outline of the heart (within the lace border-purple 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

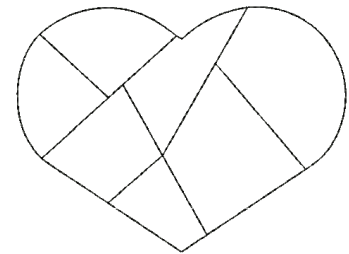
Select Blackwork Run tool; follow the prompts in the Status line to Enter Entry point; the software automatically re-sequences the stitching to eliminate jump stitches.

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

## 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*

This class is formatted for owners of  
the following levels of BERNINA<sup>®</sup>  
Embroidery Software, V6:

- DesignerPlus

## 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

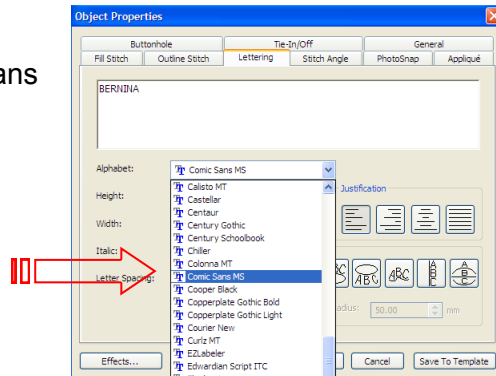
Press <A> key on the keyboard to open the Lettering Object Properties box.

Type <BERNINA> in the text box.



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

BERNINA

Font: Comic

BERNINA

Font: Jokerman

BERNINA

Font: Harrington

### Notes:

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

### Software level

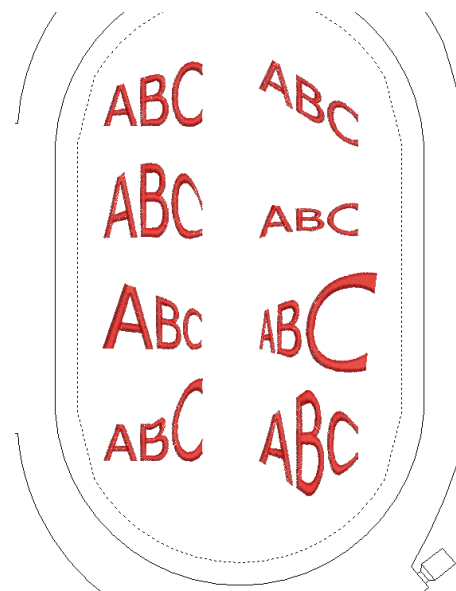
DesignerPlus. . . yes

## Class 6 - Elastic Lettering

Using Elastic Lettering features is a great way to add personality to lettering 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



### Notes:

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



File > New

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.

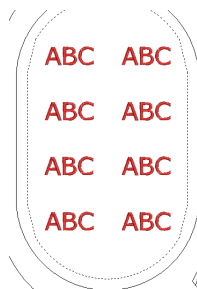
Select the first copy of <ABC>

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

### Software level

DesignerPlus. . . yes



## Class 6 - Buttonholes

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



### Open Design

File>Open>My Designs folder > Borders folder > FM902.ART



### Select the design

Right click 1x on Rotate 45 deg CCW / CW



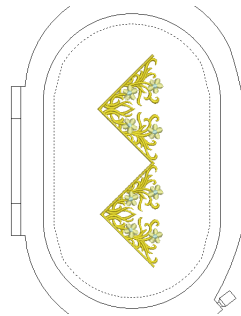
Left click on Scale by 20% Down / Up



### 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.

### Notes:

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



### 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.

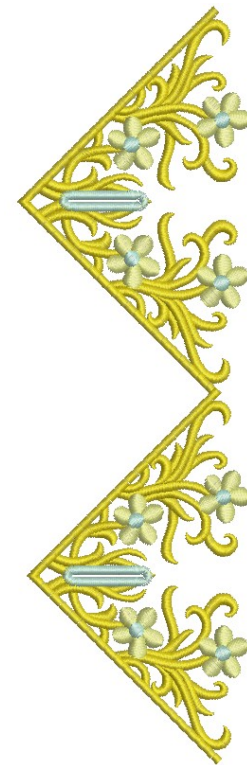
Repeat the process for the remaining buttonhole.



Save the design file.

File > Save As

Buttonholes.ART



### Software level

DesignerPlus. . . yes

## 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.



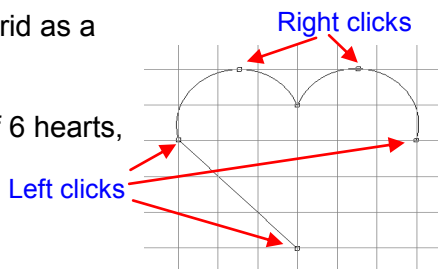
Let's start with creating Craft Stitch borders.

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 down.



Select top hearts; change the outlines to a Blackwork Border.

Select middle hearts; change the outline to a Candlewicking Border.

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.

Select from different patterns to apply as well as changing both the size and spacing of the selected pattern.

Choose pattern B0027a; select the **Apply** button to view; notice the pattern is very large on the heart.

Change the Size and Spacing to 6mm; **Apply** to view changes; click **OK** to accept changes.

Select middle right heart; open Object Properties box.

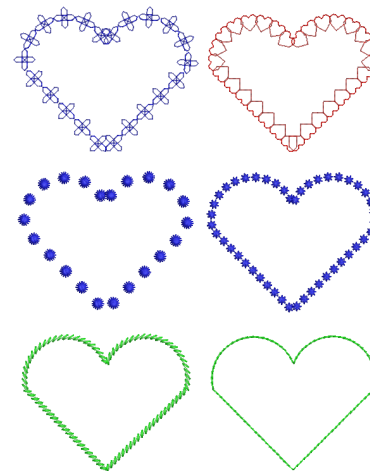
Choose pattern Half Knot-3-5mm; **Apply**.

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

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.



Blackwork Run

Blackwork Border

Blackwork Fill

Candlewicking Bor-

Candlewicking Fill

Lacework

Stipple

Stemstitch

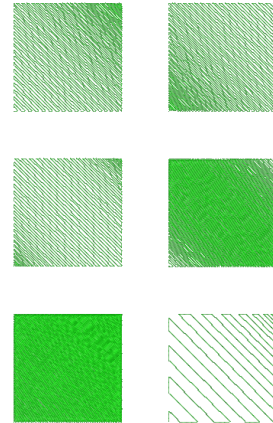
Backstitch

### Software level

DesignerPlus. . . yes

## 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.



### Notes:

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



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.



To highlight the gradient effect, turn off Underlay when creating the squares. (Note: The boxes have been numbered for easy identification.)



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

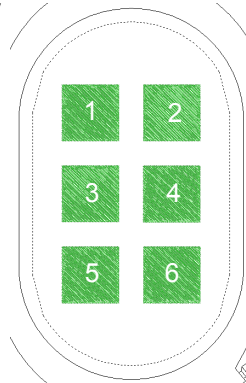
Select Box 6; repeat the above process, selecting the first Profile again.

Adjust the Maximum Spacing value to 10mm.

Save the design file.

File > Save As

Gradient Fills.ART



### Software level

DesignerPlus. . . yes

## 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



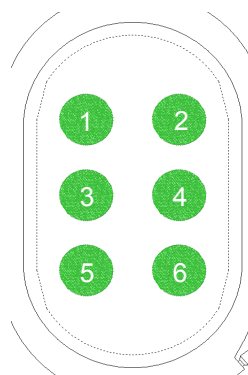
Select the Color Blending tool.

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

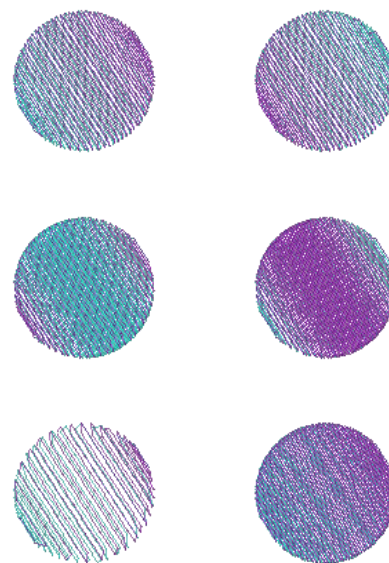
Select Profile 1; change Maximum Spacing for both Bottom / Top layers to 1mm; Click **OK**.

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

## Class 6 - Craft Stitch Fills

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



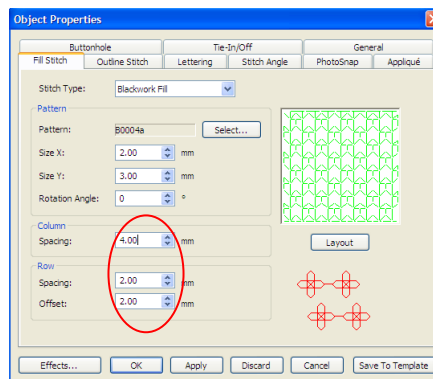
Open the previous file > Craft Stitch Borders.ART  
Select top left heart; change the outline to a Blackwork Fill.  
Select top right heart; change the outline to a Candlewicking Fill.  
Select middle left heart; change the outline to Lacework.  
Select middle right heart; change the outline to Stipple Fill; accept the default settings by clicking on **OK**.

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



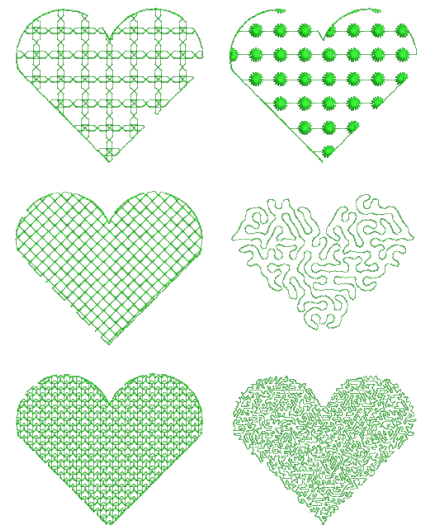
Select bottom left heart; change the outline to a Blackwork Fill.  
Right click to open the Object Properties box; select Fill Stitch tab.  
Choose pattern B0004a; select the **Apply** button to view; this is a fairly small pattern and fills the shape nicely.  
Let's make some changes - - -

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

Blackwork Border

Blackwork Fill

Candlewicking Bor-

Candlewicking Fill

Lacework

Stipple

Stemstitch

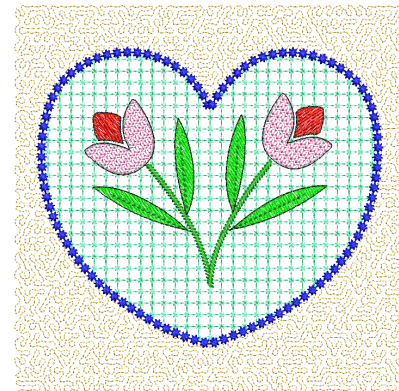
Backstitch

### Software level

DesignerPlus. . . yes












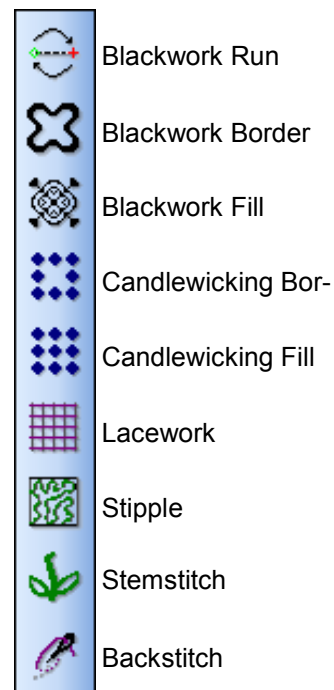
## Class 6 - Craft Stitch Sampler



### Notes:

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

-  File > New  
Select the Art Canvas Tab
-  Load Picture > My Designs folder > Artwork folder > Tulip Heart.bmp>import  
Press the Enter key on the keyboard.
-  Select the Embroidery Canvas  
Select Show 1:1
-  Select the Rectangle tool > Fill Stitch > Step > Color(C45); digitize a square around the heart, larger than white area of graphic. Be sure to center the square over the graphic.
-  Select Closed Object tool; Fill > Step; Color (C3); digitize heart.  
  
Duplicate Heart > change to Outline > Candlewicking Border  
Right click > select Candlewick Pattern > Half Knot 3-5mm
-  Select Magic Wand; process the artwork.  
Digitize flower centers(C7); flower petals(C5) and digitize leaves(C3)  
Touch Ecs.  
  
Select the flower centers and leaves; select Object Properties.  
Select Effects>Others and adjust the pull compensation to .4; OK.  
  
Remove the underlying stitches of the square and heart where the heart lies over the square and then where the flower petals lie over the heart. Use the Remove Overlaps tool to do this.
-  Select the Heart > Remove Overlaps tool; this cuts a heart shaped hole in the Square  
Select the flower petals(C5) and centers(C7); select the Remove Overlaps tool again; the underlying stitches on the heart are removed.
-  Open Object Properties  
Select Outline Stitch tab > Stitch Type > Backstitch; change the stem thickness to 0.25mm > **OK**.
-  Select Open Object tool; Color(C3); digitize center vein in each leaf.  
Open Object Properties > Outline Stitch > Stitch Type > Stemstitch; change spacing to 1mm; change stitch angle to 55° > **OK**.  
Select Open Object tool; Color(C3); digitize flower stems.  
  
Open Object Properties > Outline Stitch > Stitch Type > Single > **OK**.  
Outline flower center, petal and leaves by selecting Color Film sections; Duplicate; change fills to Outline stitch > Single; Color(C13)



### Software level

DesignerPlus. . . yes

## 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° > **OK**.

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

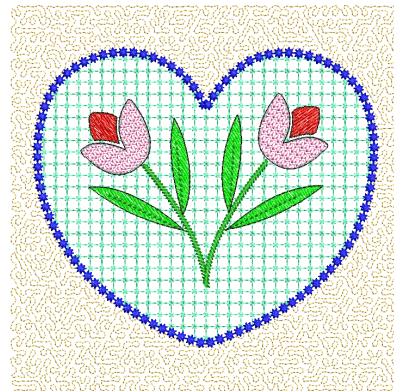
Select Heart

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**.

Save design file. (File>Save As)



### Notes:

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



Blackwork Run

Blackwork Border

Blackwork Fill

Candlewicking Bor-

Candlewicking Fill

Lacework

Stipple

Stemstitch

Backstitch


### Software level


DesignerPlus. . . yes

## 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”.

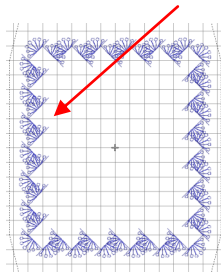
 File > New  
Settings > Options > Grid tab > Snap to Grid > **OK**.

 Open Object Properties box > Outline stitch > Pattern Run > NP005a pattern set > 660a

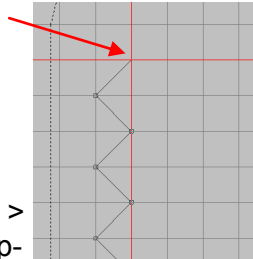
 Select Open Object tool > Outline stitch > Pattern Run  
Digitize from left to right in a zigzag pattern forming a rectangle. Note the grid lines turning red when placing a mouse click directly at the intersecting lines.

Press the <Enter> key.

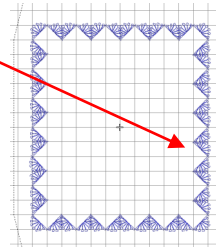
The resulting image shows the selected Pattern Run stitch not fitting the digitized line very well.




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.



 Select the Rectangle tool; drag a box inside the first rectangle. Notice the size of this pattern is the original size that was set in the Object Properties box originally.

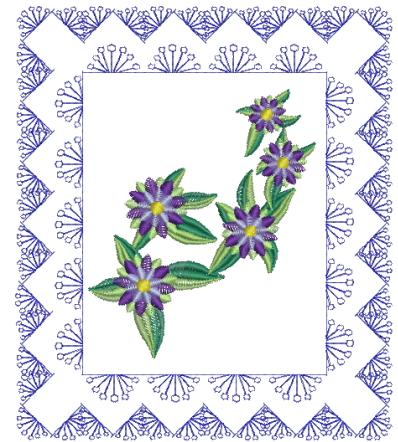
File > Insert Design > My Designs folder > Florals folder > FI940.ART

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.*

### Software level

DesignerPlus. . . yes



## Class 6 - Pattern Run Fills

Let's take a look at Pattern Run fills.



File > New

Settings menu > Options > Grid tab > deselect Snap to Grid > **OK**.



Open Object Properties box > Fill Stitch tab > Stitch Type: Pattern Fill > BerninaV5 pattern set > NP005-15 > **Apply** > **OK**.

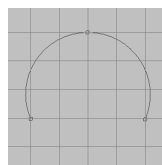


Select Closed Object tool > Pattern Fill

Digitize a circle with 3 right mouse clicks as shown. Press the <Enter> key.

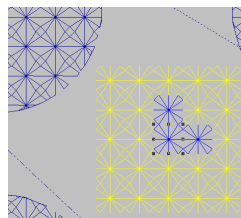
Duplicate or Quick Clone 5 more circles and arrange in design area.

Select the Top left circle; right click to open Object Properties > select Fill Stitch tab > select Layout button



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 -

Top left circle - no changes

Top right circle - Size X and Size Y: 10mm

Middle left circle - Rotate 45°

Middle right circle - Column Spacing: 10mm

Bottom left circle - Row Offset: 3mm

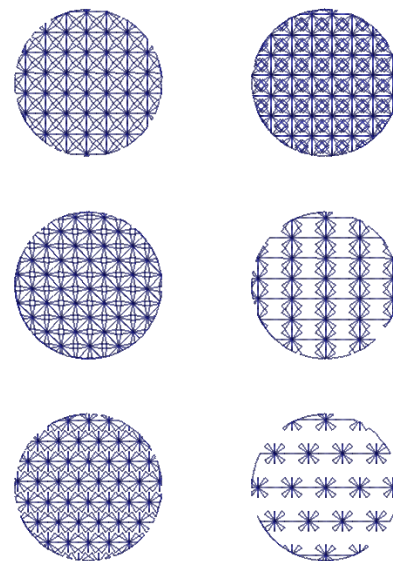
Bottom right circle - Column Spacing: 10mm; Row Spacing: 10mm; Row Offset: 5mm

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

DesignerPlus. . . yes


## Class 6 - Create a Pattern

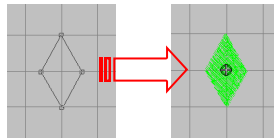
DesignerPlus software offers unlimited create options; including the ability to create custom patterns!

 File > New

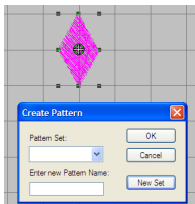
 Select the Closed Object tool.

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

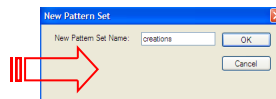
 Select the diamond  
Settings > Create Pattern; a series of dialog boxes will appear.



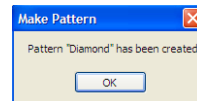
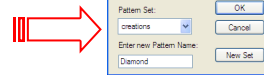
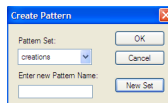
Name the new pattern, or create a new Pattern Set to save it in.



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.

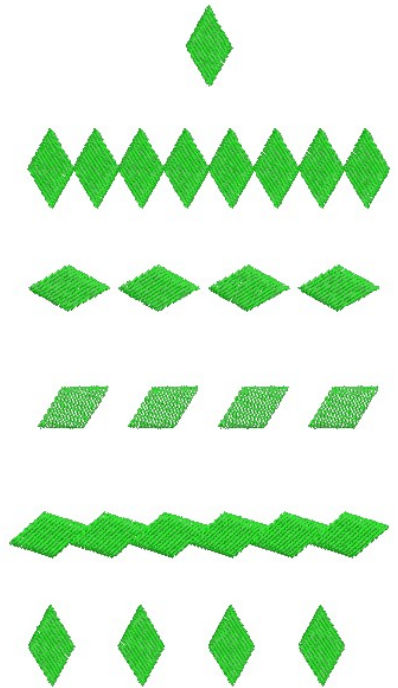


Each stitch within the Pattern will connect with the next based on where the reference points were placed. *(Refer to page 243 in the Onscreen manual)*

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 > 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.*

### Software level

DesignerPlus. . . yes

## Class 6 - Pattern Stamps

Place individual pattern stitches anywhere on the design composition!



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

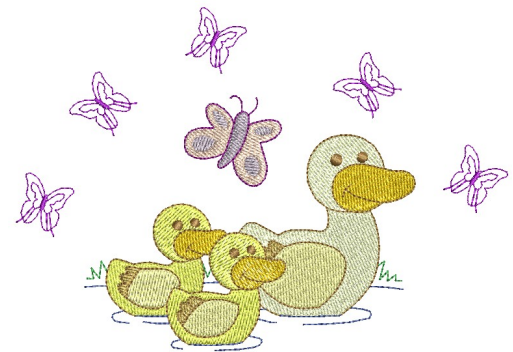
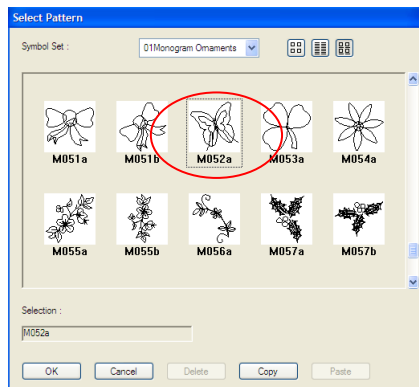
Arrange > Pattern Stamp; the Select Pattern dialog box opens.  
Select Symbol Set: 01Monogram Ornaments > pattern M052a > **OK**.

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

DesignerPlus. . . .yes

## Buttonholes



### Open a new file

- Select *File/New* or click on the icon.
- Select *File/Save As*.
- Navigate to the v6 Training folder.
- Name the design Buttonholes and click on save.



### Set Hoop Size

- Right click on the *Show Hoop* icon.
- Make sure Display Hoop is checked.
- Select artista 400 X 150 MEGA—Auto Split Machines from the choices of hoops.
- Click on the Grid tab and make sure *Snap to Grid* is checked.
- Make sure *Show Grid* is checked.

*Note: Since patterns with buttonholes are drafted so that the distance from the fold line to the beginning of the buttonhole is equal to the diameter of the button, we can change the grid spacing to be equal to the diameter of the button for proper placement.*

- Change the horizontal grid spacing to equal the distance between the finished edge of the jacket and the start of the buttonhole. Use 20 mm in this exercise.
- Click OK to close the dialog box and activate the changes.

### Digitize a placement line for the front of a jacket



- Select the *Open Object Tool*.
- Left click on a horizontal grid line intersection.
- Move cursor to the right and left click one vertical grid space away. Use *Snap to Grid* to make sure you are staying on the grid line.
- Move the cursor straight down and left click on another horizontal grid space. The line can be any length.
- Hit enter to activate the stitches.
- Hit Esc.
- Select *Arrange/Start and End*.
- Set the Start Needle Position at the First Stitch of the Design.
- Set the End Needle Position at the Last Stitch of the Design.
- Press OK.
- Make sure the placement line is selected and right click on the line to open *Object Properties*.
- Select the General tab.
- Change the height of the line to 530 mm, a little longer than the distance between the first and the last buttonhole on the jacket pattern plus.
- Click on Apply.
- Deselect the line.



### Notes:

*When the cursor is placed at a grid intersection, the horizontal and the vertical line turn red.*

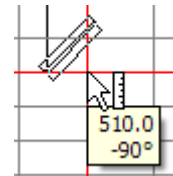
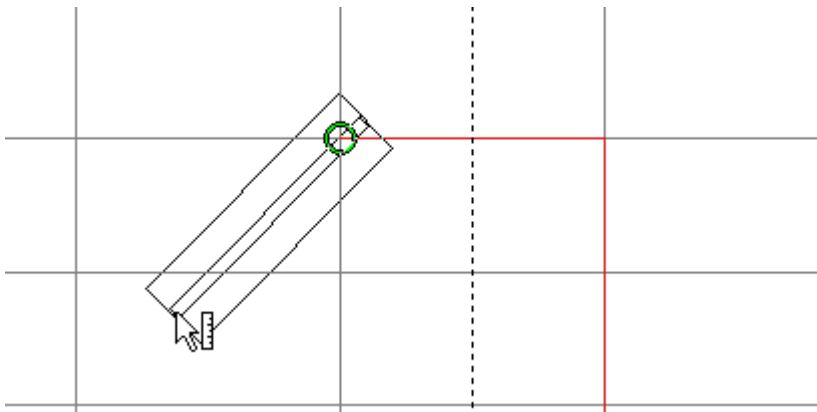
## Selecting the properties of the buttonhole

- Select the buttonhole tab.
- Select the Round buttonhole type.
- Set the Slit length at 20 mm.
- Change the angle to 45 degrees.
- Click OK.



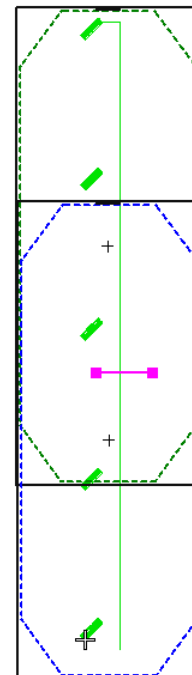
## Adding buttonholes

- Choose a new color from the Color Bar.
- Select Arrange/Add Buttonholes.
- Change the number in the dialog box to 5.
- Click OK.
- Click on the horizontal grid spacing marked with the digitized horizontal line so the buttonhole opening is just one grid space from the left of the vertical line. (see picture below)
- Drag the cursor until the cursor flag measures 510 mm.
- Click to activate the buttonholes.



## Multi-hooping the buttonholes

- Click on *Show All*.
- Select *Hoop Layout mode*.
- Click on *Add a Hoop* and move it directly below the first hoop.
- Notice that the vertical line is black because it is one object. This object must be split.
- Click on the *Splitting Guide Tool* and digitize a line across the vertical line with two left clicks.
- Click Enter to activate the split. The line should turn green.
- Return to the embroidery canvas.
- Save the file.





## Carving Stamps

### Open a New File



- Select *File/New* or click on the New File icon.
- Right click on the *Show Hoop icon*.
- Make sure Display Hoops is checked and select artista 400 x 150 Mega—Auto Split Machines.



### Draw the rectangle background fills

- Select C42 from the Color Bar.
- Select the rectangle tool and draw a rectangle by clicking in the upper left hand corner and dragging to the lower right hand corner.
- Hit escape.
- Select the rectangle and open *Object Properties*. Click on the General tab. Make sure *Proportional Scaling* is turned off.
- Change the width of the rectangle to 70 mm and the height to 85 mm. Click OK.
- Make a copy of the rectangle by Quick Cloning. Right click and drag on the object.
- Move the copy in a below the first rectangle.
- Make another copy by right clicking and dragging on the second rectangle and move it below the second object.
- Select *File/Save As*.
- Navigate to the v6 Training folder and name the file Carving Stamps. Click on Save.



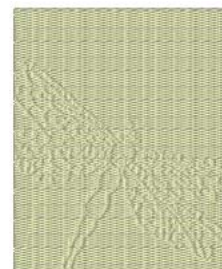
### Using an Object for a Stamp

- Select *File/Insert Design*.
- Navigate to My Computer/C: My Designs Embroidery Software 6. Select the Animal folder. Open the folder.
- Select FB 253-48. Open the file.
- Decrease the size of the dragonfly by clicking and dragging on one of the corner black sizing handles. Move it away from the rectangles.

*Note: You can decrease an object so that it will fit within the rectangle, or you can use the stamp so that only part of the object will stamp the background.*



- Open the *Carving Stamp* dialog box.
- Click on the *Use Object Tab*.
- Click on the *Start Selecting* button and use one of the selection tools to select the dragonfly. The dragonfly will appear in the *Use Object* window. Hit Esc.
- Select one of the rectangles.
- Click on Use Stamp—you will see an outline of the stamp.



#### Notes:

*Carving stamp allows you to define a pattern of needle penetrations on a fill. There are three different ways to stamp—you may use a design, use a built-in stamp, or create your own.*

*Any of the selection tools can be used to select the object you wish to use for a stamp.*

*You can select part of the object by drawing the bounding box only on part of the design or by using Polygon Select, but you must ungroup the object first.*

*You can add stamps to only selected background objects or you may choose to not pre-select an object and add the stamp to other objects.*

*Check the status bar for next steps.*

- Click on one of the rectangles at the point you wish to place the stamp and move the cursor to rotate the dragonfly as desired. Click a second time to set the stitches. Hit Esc to deactivate the stamp.
- Click on the inserted dragonfly and hit the delete key to remove it from the design.

## Changing the background + stamp appearance properties

- Select the rectangle. *Open Object Properties.*
- Click on the Fill Stitch Tab. Select Step Stitch 6. Then click on Apply.
- Click on the Stitch Angle Tab and change the stitch angle to 0.°
- Click on OK to activate the changes and close the dialog box.
- Click on the Appearance tab of the Carving Stamp dialog box and select Softened Stamp.

## Using a pattern for a stamp

- Select the *Use Pattern* tab from the Carving stamp dialog box.
- From the *Set selection* drop down choices, choose Carving Stamps and scroll down to select Ring Ellipse from the choices.
- Select the ellipse. Notice that it now appears in the window.
- Select another rectangle.
- Click on *Use Stamp*.
- To set the stamps, click on the base fill and rotate the cursor to rotate the stamp as desired; click again to set the stamp at that angle.
  - ⇒ If you wish to increase the size of the stamp, hold the shift key down, and drag the cursor away from the first click and click again once the stamp reaches the desired size.
  - ⇒ If you wish to decrease the size of the stamp, hold the shift key down and drag the cursor toward the first click and click again once the stamp reaches the desired size.
- Stamp the background fill as desired. Hit Esc.
- Select the background rectangle. *Open Object Properties* and select the Angle tab. Set the stitch angle to 90° and click on OK.
- If you do not like the stamps that you have created, you can select the object; then choose, Clear All Stamps in the Appearance tab.

### Notes:

*You may use the stamp more than once. It will remain active until the escape key has been selected.*

*You may also stamp multiple objects. Just click on the object you wish to stamp and place the stamp.*

*If you wish to save the object as a stamp for future use, it must be saved by adding it to the library.*

*By changing the type of the background fill and the angle of the fill, you can get different effects.*

*Carving stamps can be used with satin, step or fancy fills. They may also be used with satin outlines.*



## Digitizing a pattern stamp

- Click on the *Digitizing tab* of the Carving stamp dialog box.
- Click on *Start Digitizing* button.
- Digitize the shape you want on the embroidery screen.
  - ⇒ Use right clicks for curves.
  - ⇒ Use left clicks to change directions or to draw a straight line.
  - ⇒ Digitize the last point directly on top of the first digitized point to draw a closed shape.
  - ⇒ Hit enter *twice* to place the digitized shape within the digitized drawing box.

## Adding a stamp to the library

- To add the digitized shape to the Carving Stamp Library, click on *Add to Library*.
- Click on *New Set* and name the set. Click on OK.
- Name the new stamp and click OK.
- You will be asked to digitize the first reference point and the second reference point. You digitize these with two left clicks. You can hit enter to allow the software to set the reference point for you instead.
- You will see a dialog box that verifies that the pattern stamp has been created. Click OK.
- The created stamp is saved in the Use Stamp tab under the named folder.

## Using the created stamp

- Select the third rectangle.
- Click on Use Stamp to place the pattern stamps on the background.
  - ⇒ Hold the shift key and drag the cursor away from the first click to enlarge the stamp as desired.
  - ⇒ Hold the shift key and drag the cursor toward the first click to decrease the size of the stamp.
  - ⇒ If you extend the stamp beyond the parameters of the background fill, the stamp will partially be shown on the fill.
- Place the stamps as desired on the background.
- Open *Object Properties* and click on the Fill Stitch tab.
- Select step fill # 4.
- Click on Apply.
- Select the Stitch angle tab.
- Change the angle to 95°. Click on OK.
- Make sure the rectangle is selected.
- Click on the Appearance tab.
- Select the Raised stamp option.
- Save the design.



*You will need to enclose a complete shape rather than hitting enter to enclose the open object.*

*No spaces or punctuation should be in the name of the file.*

*The reference line sets the baseline of the stamp.*

*You can rename and delete stamps you have created by right clicking and choosing the desired option.*

*You can also reshape the carving stamps by selecting the background object and selecting the Reshape icon.*

*You can then move, rotate, scale, reshape, or delete. See pages 251-253 in the Help Manual.*

*You can also use Vectors shapes from Art Canvas as carving stamps.*

*Care must be used when changing the Raised appearance of a stamp since satin stitches are added. Switch to Design View and check for any streaked lines in the stitching—these indicate satin stitches are too long.*



## Version 6 Fills

### Setup

- Select *File and New*.
- Right mouse click on *Show Hoop*. From the menu of available hoops select Jumbo Hoop #26. Make sure *Display Hoops* is shown. Click OK to confirm and close Options.
- If not displayed, left click on *Show Grid*.
- Right click on the *Automatic Underlay icon* to open the Effects dialog box. Select the Underlay tab. Make sure *Use Underlay Settings for New Objects* is not checked (activated). Click OK.
- Select the *Circle / Oval Tool*.
- Click on a grid intersection. Move the mouse 4 grid lines down and click. Touch Enter to create the filled circle. Hit Esc.
- Right click and drag to clone seven circles and arrange the circles in the hoop.

### Save the File

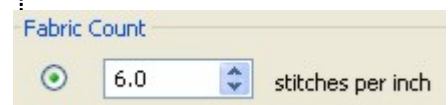
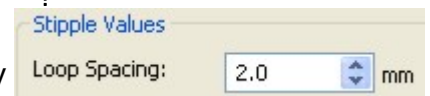
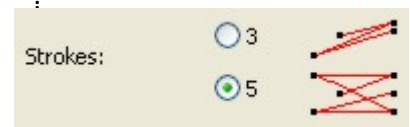
- Select *File and Save As*.
- Navigate the v6 Training folder and name the file v6 Fills.
- Click on Save.

### Stipple Fills

- Select the **1st circle** and click on the Fill down arrow to display the Fill Menu.
- Select Stipple Backstitch to change the fill.
- With the 1st circle selected, open *Object Properties*. Change Strokes to 5.
- Click on Apply.
- Select the **2nd circle** and click on the Fill down arrow to display the Fill Menu.
- Select Stipple Stemstitch to change the fill.
- Change Angle to 90.
- Click on Apply.
- Select the **3rd circle** and click on the Fill down arrow to display the Fill Menu.
- Select Stipple Run to change the fill.
- Change Loop Spacing to 2.
- Click on Apply.

### Cross Stitch Fill

- Select the **4th circle** and click on the Fill down arrow to display the Fill Menu.
- Select Cross Stitch to change the fill.
- With the 4th circle selected, change Fabric Count to 6.
- Click on Apply.



## Contour Fill

- Select the **5th circle** and click on the Fill down arrow to display the Fill Menu.
- Select Contour to change the fill.
- With the 5th circle selected, change Stitch Spacing to 6.
- Click on Apply.

## Ripple Fill

- Select the **6th circle** and click on the Fill down arrow to display the Fill Menu.
- Select Ripple to change the fill.
- With the 6th circle selected, change Stitch Spacing to 4.
- Click on Apply.

## Star Fill Effect

- Select the **7th circle** and from the Stitches and Color Bar, click on Star Fill Effect icon to change the fill.
- Change the Stitch Spacing to 3.5. Click on Apply.
- Click on *Effects* button and the *Others tab*. Select Travel on Edges and Apply .
- Click on the *Star & Wave Fill tab*. Change both Hole dimensions to 9.
- Click on OK to close *Object Properties*.
- With the **7th circle** selected, click on *Reshape Objects* and move the hole center by clicking and dragging on the center square. Touch Enter to view the change.

## Save the File

- Select Save file.

**Contour fill is a special fill that can be used with the Circle Tool or the Block Digitizing Tool.**

Stitch Values

Stitch Length: 2.50 mm

Stitch Spacing: 6.00 mm

Stitch Values

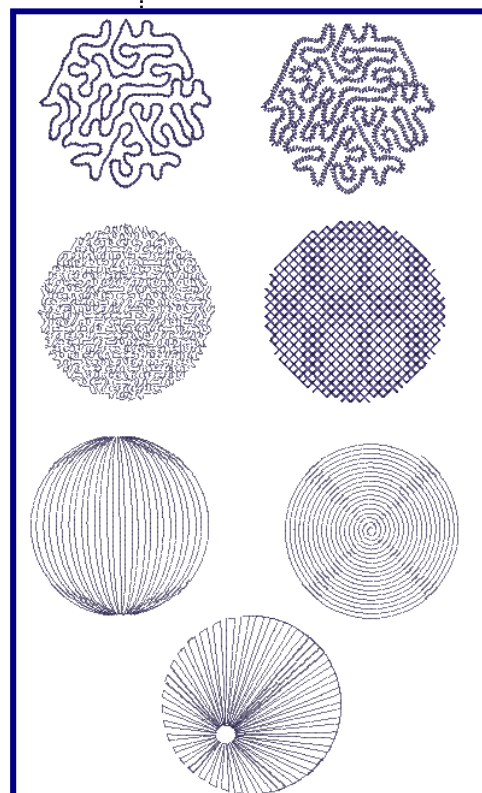
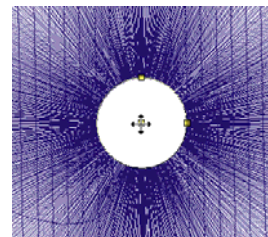
Stitch Spacing: 3.50 mm

☒ Star Fill

Hole Dimensions

Width: 9.0 mm

Height: 9.0 mm



## Morphing

### Setup

- Select File and Open.
- Navigate to My Computer/ C: My Designs Embroidery Software 6 Folder, select and open the Borders Subfolder. Locate and Open FB039.
- Right mouse click on *Show Hoop*. Make sure *Display Hoops* is checked. From the menu of available hoops, select Jumbo Hoop #26. Click OK to confirm and close.
- Select the design and *Open Object Properties*.

### Changing the design size and cloning the design

- Click on the General Tab and check Proportional Scaling.
- Enlarge the design to 130%. Click OK to confirm and close Object Properties.
- Clone by right clicking and dragging the design to create 6 designs. Arrange the 6 designs in the hoop as pictured.
- Select the three designs on the left while holding down the Control key. Select *Align Left Vertical*.
- Select the three designs on the right while holding down the Control key. Select *Align Right Vertical*.

### Turning off Auto Scroll

- Select *Settings/Options*.
- Click on the *Auto Scroll* tab. Deselect Auto Scroll.
- Click OK.

### Applying Morphing

- Open *Morphing*.
- Open *Color Film*.
- The first design will be left unchanged.

### 2<sup>nd</sup> design

- Select the design and *Ungroup*.
- Select flower petals using *Color Film* and *Group*.
- Zoom in with the scroll mouse.
- From the Morphing Tool Bar, click on Ripple 1x.  
⇒ Adjust Ripple Amplitude = 26 by clicking and dragging the horizontal adjustment bar.  
⇒ Adjust Ripple Frequency = 46 by clicking and dragging the vertical adjustment bar.
- ESC to turn off all tools and deselect.

### 3<sup>rd</sup> design

- Select the design and *Ungroup*.
- Select flower petals using *Color film* and *Group*.
- From the Morphing Tool Bar, click on Twirl 2x.
- ESC to turn off all tools and deselect.

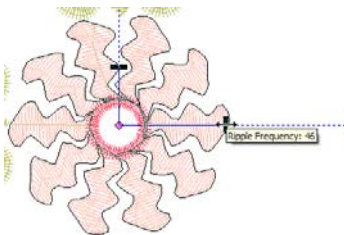


**Note:**  
Changing to Thumbnail View will make it easier to find the floral design

The software automatically groups all morphed objects

Objects can be double-morphed and can be morphed with two different types....but ALWAYS do a stitch out

Fine tune the morphing effect using the sliding adjustment bars



Notice when the 3<sup>rd</sup> design is selected, Color Film automatically moves to the objects of the selected design.

## 4<sup>th</sup> design



- Select the design and *Ungroup*.
- Select entire upper greenery using *Polygon Select*.
- From the Morphing Tool Bar, click on Skew Horizontal.
- ESC to turn off all tools and deselect.
- Select entire left greenery using *Polygon Select*.
- From the Morphing Tool Bar, click on Skew Vertical.
- ESC to turn off all tools and deselect.



## 5<sup>th</sup> design and Ungroup.



- Select the design and *Ungroup*.
- Select entire upper greenery using *Polygon Select*.
- From the Morphing Tool Bar, click on Wave Horizontal.
  - ◊ Adjust Wave Horizontal Amplitude = 6
  - ◊ Adjust Wave Horizontal Frequency = 27
- ESC to turn off all tools and deselect.
- Select entire left greenery using *Polygon Select*.
- From the Morphing Tool Bar, click on Wave Vertical.
  - ◊ Adjust Wave Vertical Amplitude = 7
  - ◊ Adjust Wave Vertical Frequency = 14
- ESC to turn off all tools and deselect.

## Note:

*When using Polygon Select, remember to let the software close the drawn line. Also, it is ok to cross over an object that you wish to exclude from the selection.*

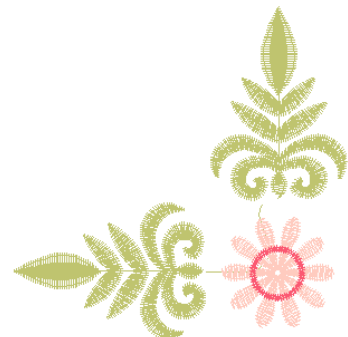


## 6<sup>th</sup> design



- Select the design and *Ungroup and Zoom In*.
- Using color film, select the flower petals.
  - ◊ From the Morphing Tool Bar, click on Pinch 2X.
  - ◊ Escape to turn off Pinch Morphing.
- Using color film, select the flower center.
  - ◊ From the Morphing Tool Bar, click on Punch 2X.
  - ◊ Escape to turn off Punch Morphing.

*It is easier to make the adjustments when you zoom in on the object.*



## Save the File



- Select Arrange/Stitch Sequence.
- Select *File and Save As*.
- Name the file Morphing Sampler and Save.



## Halo Outline



### Open a new blank file

- Select *File/Open*.
- Navigate to My Computer/C: My Designs Embroidery Software 6: Floral.
- Click on the drop down box of the View icon and change the view to thumbnail view.
- Select FM 538. Select Open.
- Select the zoom icon and zoom out by right clicking on the screen.
- Select *File/Save As* and navigate to your v6 Training folder and name the file Halo Outline. Save the file.



### Select a new hoop size.

- Right click on the *Show Hoop icon*.
- From the drop down menu, select Jumbo Hoop # 26.
- Make sure *Display Hoop* is checked and click on OK.



### Add a design.

- Select *File/Insert Design*.
- Navigate Up One Level and select the Ornament folder.
- Double click to open the folder.
- Select Gilded Silver 1 and open the design.
- While the design is selected, move it off of the rose and place in the lower left hand corner.
- Click on the Color Selection bar; then click on Thread Colors to open the Thread Colors dialog box.
- Click on color 0142 from the upper part of the box.
- Select Isacord 40 wt. numerical from the Thread Chart brands.
- In the Search box, type in 5422; then click on assign; then click on OK.



### Mirror Merge

- Select the inserted design and click on *Mirror Merge Horizontal & Vertical*.
- Move your cursor to place a frame around the rose.
- When you get the frame in position, click to activate the stitches.
- While the frame is still selected, group the design.
- Select *Edit/Select All*.
- Click on the *Align Centers icon* to place the rose in the center of the frame.



### Notes:

Switching to thumbnail view makes it easy to locate designs.

Click refers to a single left click unless otherwise specified.

Control A is a shortcut that will select all the objects in the design.

## Adding a border

- Select the *Zoom tool* and right click on the screen to zoom out from the design.
- Make sure that all of the design is still selected.
- Hit *Esc* if you need to deactivate the *Zoom tool*.
- Group the entire design by clicking on the *Group icon*.
- Select the *Rectangle tool*.
- Click on the Outline box and choose Satin stitch from the drop down menu.
- Draw a rectangle around the design by left clicking in the upper left hand corner and dragging to the lower right hand corner. Click on the screen to set the stitches. Make sure that the design stays within the hoop boundaries.
- Hit Escape to deselect the *Rectangle tool*.
- Select *Edit/Select All* and click on *Align Centers* to align the design within the border.

## Notes:

*Switch to Design View so that it is easier to know what is selected.*

## Adding the halo effect

- Select the *Outline Design icon*.
  - ⇒ Change the offset to 5.
  - ⇒ Change the outline count to 8.
  - ⇒ Make sure that Outline Holes is checked.
  - ⇒ Select triple for the type of outline stitch.
  - ⇒ Click on OK.
- Select the outline furthest out from the frame.
- While holding the Shift key, select the outline just beyond the satin frame.
- Hit the delete key.
- Save the file by clicking on the *Save icon*.

*The outline holes option places the outline around all objects in the design and blends the shape of the outline based on the objects.*

## Artistic View

- Select the *Show All icon*.
- Change to Artistic View by clicking on the *Show Artistic View icon*.

*The shortcut key for showing the artistic view is "T" on your keyboard.*

## Stipple Stitch



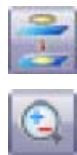
### Open a New File/Blank File

- Click on the New icon or select *File > New*.
- Right click on *Show Hoop*. Select artista 255 x 145 Oval. Check *Display Hoop*. Click OK.



### Creating Stipple Fill Shapes

- Select *Stipple Run* icon.
- Select *Rectangle Tool*. Draw a rectangle that fills the hoop.
- Select *File/Insert Design*.
- Navigate up one level and open the Floral folder by double clicking on the folder.
- Find NZ651. Open the design.
- Select *File/Save As* and navigate to the v6 Training folder.
- Save the design as Stippling.



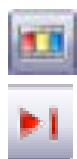
### Editing the Stipple Stitches

- If you are in *Artistic View*, Hit "T" on the keyboard.
- Make sure the sunflower is selected, click on *Remove Overlaps*.
- The stipple stitches will be removed under the sunflower.
- Select the stipple and open *Object Properties* by right clicking on the stipple stitches.
- Change the Stitch Length to 3 and the Loop Spacing to 5.
- Change the Inset Step to 2. Click OK.
- You may also wish to reshape the stipple.
- While the stipple is selected, click on *Reshape*.
- Select a reshape point and move the reshape points that you wish to move by clicking and dragging.
- Hit enter to activate the changes.



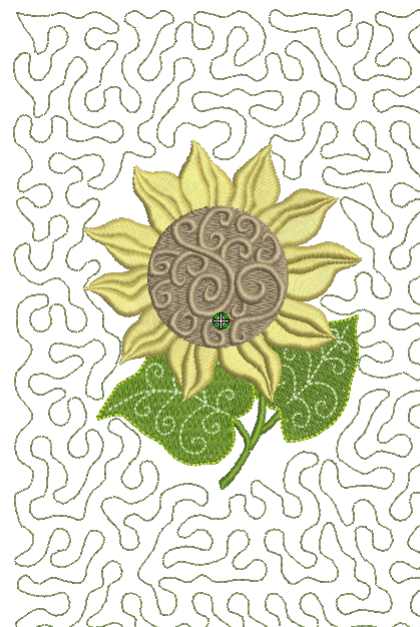
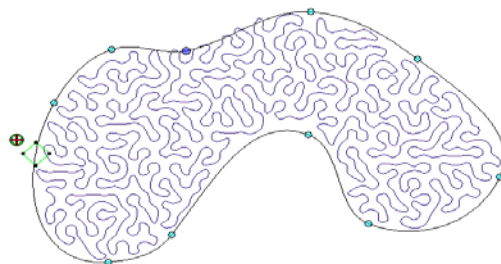
### Resequencing through Color Film

- Open Color Film.
- Select the stipple stitches and then Sequence to End.
- Save the file.



### What's New With Stipple Fill?

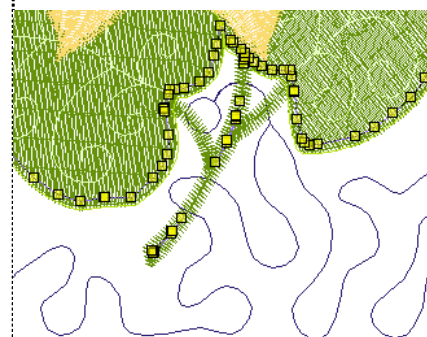
- The way a stipple fill is reshaped is new to version 6.
- Click on reshape and reshape the border of the stipple.



### Notes:

*Stippling creates a fill made up of fun stitches that meander within a border.*

*You reshape the stipple by adjusting the control points around the stipple border.*



*Inset Step changes the distance that the stipple is from the design.*

*Run Count defines the number of needle penetrations and affects the bulk of the stitch. You may wish to increase the run count if you plan to use a fine thread.*