

## Converting Vectors to Decorative Stitches

### Opening the Design

- If you have just opened the software, click on Next in the wizard. Otherwise, select File> New.
- In the Fabric dialog box, click on the + sign in front of Embroidery Normal and select None from the choices. This gives a non-textured, white backdrop for the design. Click Next.
- From File is selected by default.
- Click on Browse.
- Browse to the BERNINA DesignWorks Samples and select ASC-00069.cmx. Click on Open.
- Click Next.
- In the Color Reduction dialog box, click on Finish.



### Sequence Manager

- Make sure Auto Sequence Control is not enabled (not gold).
- If disabling, click OK in the dialog box that opens.
- The left symbol for the various components in the design is a painted fill; the right symbol indicates no outline.
- Click on Auto Sequence Control again to enable.



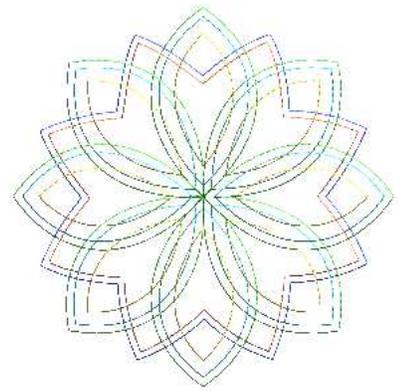
### Converting the Vectors to Outlines

- While holding the Ctrl key, click on the outline of the red petals that have blue within the petal to select all these petals. (see picture) Zoom in to select.
- Use the right scroll arrow in the Threads Palette to find the green color chips.
- Click on the upper left corner of a green color chip in the Threads Palette to add a green outline.
- While this color is still selected, click on the lower right corner of the Empty Color Chip in the Brushes Palette to eliminate the painted fill.
- In Object Properties, Running is selected.
- While all components are still selected, right click and select Group.



### Converting the Vectors to Outlines

- Right click on the yellow color chip in the Brushes Palette, choose Select By> Fill Color.
- While this color is selected, click on the lower right corner of the Empty Color Chip in the Brushes Palette to eliminate the painted fill.



*By default, vector objects are converted to painted fill designs with no outline when all modules are activated.*

*Notice that as the colors are changed to stitches, the color chips are now shown in the Threads Palette.*



*Grouping the colors makes it much easier to change the outline if you change your mind about which outline to use.*

- Click on the upper left corner of the yellow color chip in Threads Palette to add an outline.
- While the yellow outlines are selected, right click and select Group.
- Right click on the royal blue color chip in the Brushes Palette and choose Select by> Fill color.
- Repeat the steps above to add a turquoise outline and eliminate the fill.
- Group this color as well. Deselect.
- Zoom in to click on the large orange area of the design. Notice that the entire filled area is selected in this case, so there is no need to group this, but it is still a fill with no outline.
- Click in the upper left corner of the orange color chip in the Threads Palette to add an outline; click on the lower right hand corner of the Empty color chip to remove the fill.



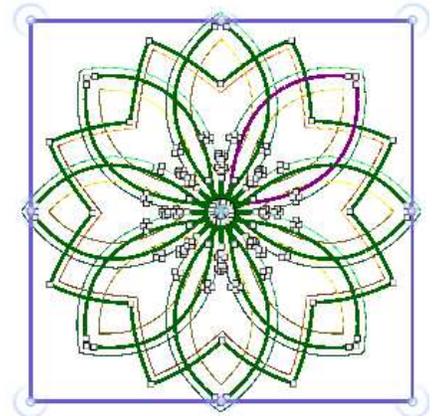
### Deleting the Remaining Painted Areas

- Notice that there are three painted areas that remain; one is orange, the other is turquoise, and the third is red.
- If anything is selected, deselect.
- Right click on the orange color chip in the Brushes Palette.
- Choose Select By> Fill Color.
- Select Delete on the keyboard.
- Repeat this process for the other color chips in the Brushes Palette.

### Removing the Remaining areas.

- Select the turquoise outline. Notice that selecting this also selected the tiny blue ovals and the center of the design.
- Right click and select Ungroup.
- Deselect.
- Select one of the turquoise petal outlines, hold the Ctrl key and select all the turquoise large petals; then, right click and group.
- Deselect.
- Zoom in and select the other turquoise outline and change the color to royal blue by clicking on the upper left corner of a royal blue color chip in the Threads Palette.
- Hold the Ctrl key and select the orange, yellow, turquoise, royal blue, and green outlines.
- In the Edit Menu, select Invert Selection.
- Press Delete to delete the small ovals.
- Select Ctrl + A.
- Make sure Proportional is checked in Tool Options.
- Change the size of the design to 150% by changing the Scale X or Y to 150. Press Enter.
- Select File> Save As and navigate to the location to save the file. Name the file, Base File.
- Click Save.

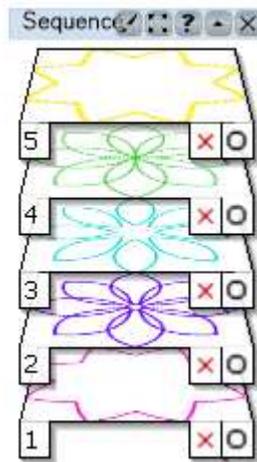
*You may also remove the fill by switching to the Fill Tab and selecting None.*



*The percentage goes back to 100% after the change is made.*

### Editing the Base Design

- Now for the fun!
- Select each color by clicking on the outline.
- Select the type of running stitch you wish to apply.
- Repeat for each color.
- Save as Spirograph 1.
- Select Export and choose the appropriate method for exporting the file to your machine.
- Click OK in the dialog box that opens.
- Select other stitches and other colors, save as Spirograph 2.
- This one design with different colors used, parts rotated, fewer colors, parts resized etc. can be used over and over to create different looks.
- You can even rearrange the colors for stitching to create different looks.
  - ◆ Click on Auto Sequence Control, click Ok in the dialog box.
  - ◆ Click on Group by Color.
  - ◆ In Sequence Manager, click and drag on the different layers of colors to combine them.
  - ◆ Experiment with the stitch order of the designs.



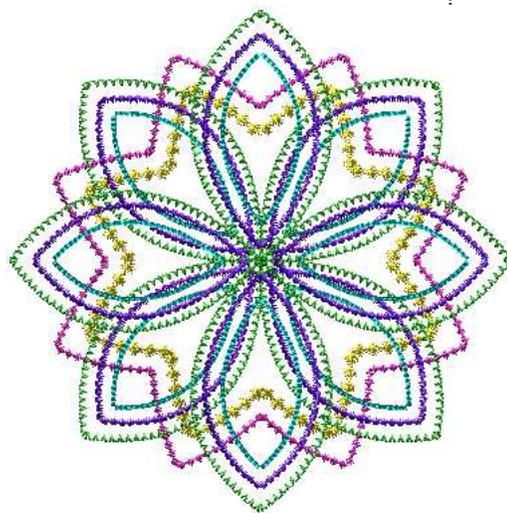
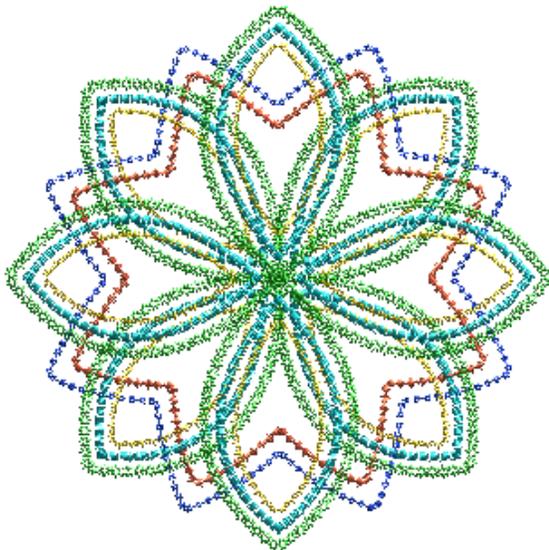
*In the first sample file, these stitches were used:*

- Yellow: Stitch #31
- Turquoise: Stitch #45
- Orange: Stitch #35
- Green: Stitch #04
- Royal: Stitch #39

*In the first sample, the orange object was resized by selecting it, using the corner control handles while holding the Shift key to make the object slightly smaller.*

*In the second sample file, these stitches were used:*

- Green changed to Lime: Stitch #53 with Mirror activated, Increased to 105%
- Turquoise to Purple: Stitch #36
- Yellow to Turquoise: Stitch #74
- Royal Blue to Fuchsia: Stitch #35
- Orange to Yellow: Stitch #158; Resized to 90%





### Adding One Crystal at a Time

- Select Create Crystal Shape.
- Select the color you wish to choose from the drop-down choices in Tool Options.
- Select Size 16 SS.
- Click in the center to add a crystal.
- Right click to deselect the crystal; then select the crystal.
- Change the position of the crystal to 0 position in X as well as Y.



### Converting a Shape to Crystals

- Select Create Ellipse.
- Hold the Shift + Ctrl keys and click in the center and drag to create a circle the size you want.
- Release the mouse before releasing the Ctrl + Shift keys.
- Press the space bar.
- Change the X and Y values to 0.
- Press Enter.
- In Object Properties, Fill Tab, select None.
- In the Outline Tab, select Crystals.
- Adjust the color, size, and spacing of the crystals as desired.
- You may rotate the circle to place the crystals as desired.



### Converting a Line to Crystals

- Select Create Freehand.
- Hold the Ctrl key and click within the right football-shaped design.
- Release the mouse and move to another area and click again.
- Right click to end the line.
- Press the space bar to select the line.
- In Tool Options, change the Y value to 0. Press Enter.
- In Object Properties, Outline tab, select Crystals.
- Select the color, size, and spacing to be what you wish.
- If needed, use the right or left arrow keys to fine-tune the position of the crystals.



### Adding the Array

- With the row of crystals selected, select Create Circular Array.
- In Tool Options, change the Start and End Angle to 90.
- Change the Step Count to 8.
- Press Enter.
- Select Apply Circular Array.
- Select File> Save As Spirograph 1 with Crystals.
- Select File> Export> Crystals to Machine. Select Export to export the crystal template.

