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Intermediate Software –
Splitting for the
creative Grand Dream Hoop

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In this exercise, we will create a creative Grand Dream Hoop embroidery design using Encore, then split it for the creative Grand Dream Hoop using 4D Design Aligner.

1. Open 4D Embroidery Extra.
2. Click Preferences.
3. Set the Grid Size to 15 mm.
4. Make sure Remove Overlap When Combining Embroideries is checked.
5. Set the Splitting for Multi-Part Hoops on Combine to Intelligent and set the Tolerance to 1 mm. These settings are found in 5D Configure under the Stitches Tab
6. Make sure Alignment Stitches for Turnable Hoop is checked then click OK.
7. Click Hoop.
8. Set the Hoop Group to My Hoops or Pfaff creative vision.
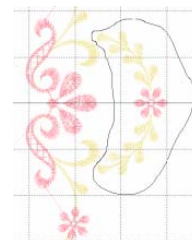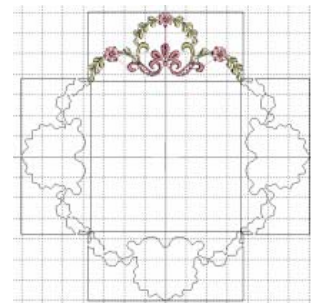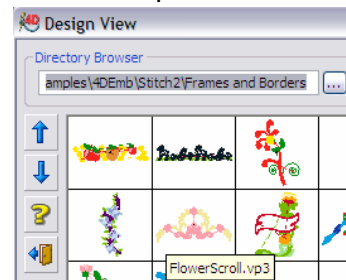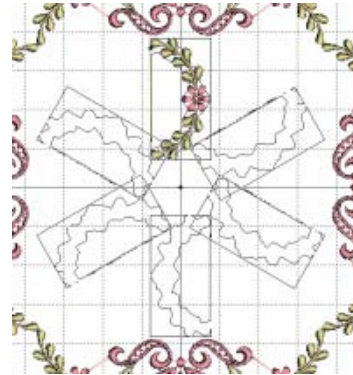9. Set the Hoop Size to 360mm x 350mm – creative Grand Dream Hoop.
10. Set the Orientation to Vertical then click OK.

11. Click View.
12. Browse to set the Folder to C:\4DEmbroidery\Samples\4DEmb\Stitch2\Frames and Borders then click OK. 5D Emb
13. Select FlowerScroll.vp3 then click Close Viewer.
14. Click Encore. 5D - If Needed Click on Design to select it.
15. Set the Type to Circle, the Position to Standard and the Repeats to 4.
16. Make sure ColorSort and Remove Overlap are checked then click OK.
17. Click and drag the visible designs down slightly until the designs are almost touching. It may help to Zoom In for better placement.
18. Right click to set the Encore.

19. Go to the Edit tab.
20. Zoom In on the right section of the design.
21. Click FreeHand Select or Polygon Select (whichever you prefer).
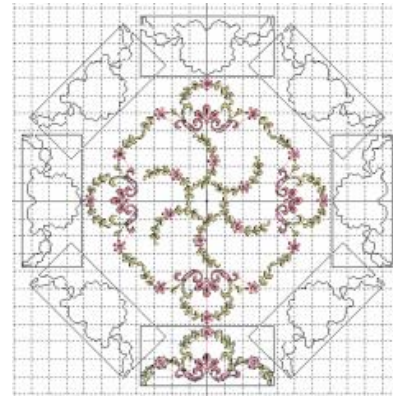22. Click around the right section of the design as shown.
23. Click Copy.

24. Go back to the Design tab.
25. Click Paste 🗎. 5D - If Needed Click on Design to select it.
26. Click Encore ✸.
27. Leave everything as is, just change the Repeats to 6 then click OK.
28. Hold down the Ctrl key on your keyboard and press 7. This will Zoom In on the center of the hoop.
29. Click and drag the visible design in towards the center of the hoop almost touching each other as shown.
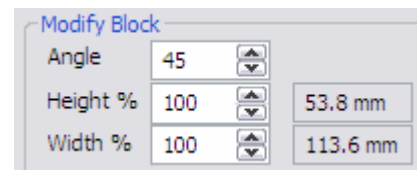30. Right click to set the encore.

31. Click View 📷.
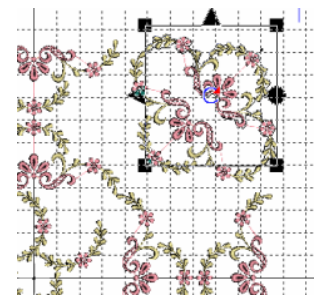32. The Folder C:\4DEmbroidery\Samples\4DEmb\Stitch2\Frames and Borders should still be selected.
33. Select FlowerScroll.vp3 then click Close Viewer 🚪.
34. Click Copy 🗎. 5D - If Needed Click on Design to select it.
35. Click Encore ✸. 5D Click Triangle to Mirror top/bottom
36. Leave everything as is, just change the Repeats to 8 then click OK.
37. Click on the visible design and drag it thru the center towards the bottom of the hoop. Line it up leaving a little bit of space between the first circle of the design and this group as shown.
38. Right click to set the encore.
39. Click Paste 🗎.
    5D - If Needed Click on Design to select it.
40. Go to the Edit tab.
41. Click Make Block from Visible Area 🖱 to select the single design.
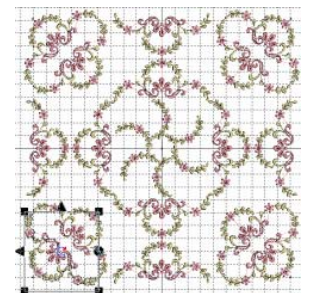42. Under Modify Block, set the Angle to 45 then click Apply.

43. Go back to the Design tab.
44. Move the angled design to the upper right corner of the hoop making it a mirror image of the existing design leaving a little space in between as shown.
                    5D - If Needed Click on Design to select it.
45. Click Copy 🗎 then click Paste 🗎.
46. Click the triangle on the left to mirror the design.
47. Move the new design to the upper left corner lining it up like you did the upper right corner.
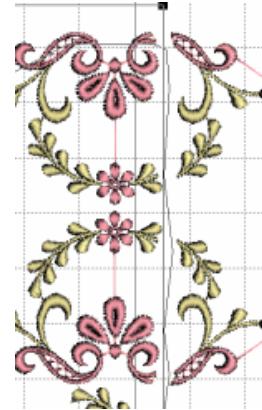   5D - If Needed Click on Design to select it.
48. Click Paste 🗎 again and click the triangle on the top of the selection box to mirror the design horizontally.
49. Move it to the lower right corner.
50. Click Paste 🗎 one last time and click both triangles to flip the design both directions.
51. Move the last design to the lower left hand corner.
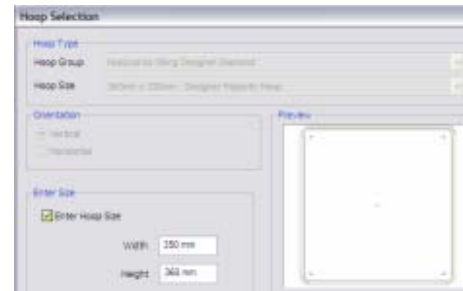
52. To combine and split the design, click Combine.

<p style="text-align:center; color:red">5D Combine All</p>

53. Zoom In on the split section. It may help to click and drag one side out a little to see where it split the design. Notice it split thru some sections. It would work better to avoid some of the section if possible.
54. Click Zoom to Fit.
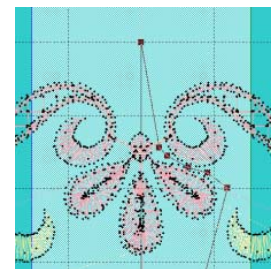55. Click Undo as many times as necessary to get back to the design before it was split.

56. Click Hoop.
57. Under Enter Size, click Enter Hoop Size then click OK. The measurements are set based on the hoop you had selected.
58. Click Combine to combine all the sections together.
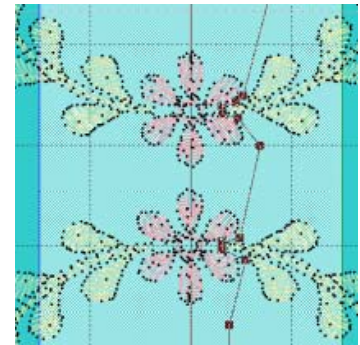59. Click ColorSort to reduce the number of colors.
60. Click Copy.

61. QuickLink to 4D Design Aligner.

62. Under Hoop Size, click Change Hoop.
63. Set the Hoop Group to My Hoops or Pfaff creative vision.
64. Set the Hoop Size to 360mm x 350mm – creative Grand Dream Hoop.
65. Set the Orientation to Vertical then click OK.
66. The Overlap can not be changed because it is always 30mm for the creative Grand Dream Hoop.
67. Set Alignment Stitch Style to None. They are not necessary because of Precise Positioning.
68. Set the Compensation to None because we will hopefully not be cutting thru any of the design elements.
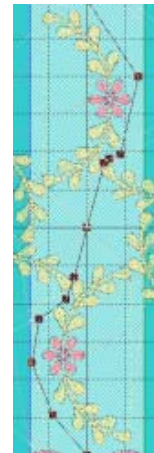69. Click Next.
70. Click Paste then click Finish.
71. Click Zoom In and zoom in on the top of the splitting area.
72. There isn't a lot of space between elements of the design, but there is enough space to cut thru the design. Begin by moving black boxes around the center of the top section and thru the pink 'petals as shown. It may help to click 3D View to turn off 3D View. It is easier to line up the boxes when you can see the stitch points instead of the thread.
73. To add addition points, click Insert Point. A very nice feature of Insert Point is the ability to click where you want the point to go and a point will appear. You do not have to add the points on the actual black splitting line – the line will follow your inserted points! **Make sure to RIGHT CLICK to release Insert Points!**

74. Move down to the next element of the design.

75. Insert Points📐 to go around a yellow section in-between the pink petals – thus not cutting thru any stitches!
76. The third element down is the same as the second.
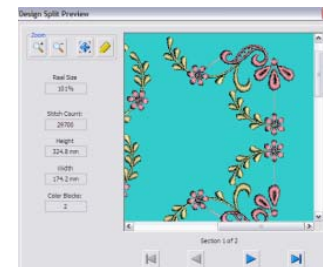77. The fourth element down is the same as the first.

78. When you arrive at the center group of elements, Insert Points📐 to split right thru two of those elements then right thru the second set of elements that make the center circle.
79. Continue working down the splitting area continuing the same process until you arrive at the bottom!
80. Click Zoom to Fit⊕.
81. Click 3D View📦 to turn 3D View back on.

82. Click Split Design🔷.

83. On the Design Split Preview pages, click Zoom In🔍 and double check to make sure you split the design correctly. If it is not correct, click Cancel and move your black boxes.
84. If everything is split correctly, click Save As💾 and save the design in your C:\4DEmbroidery\MyDesigns folder as 'grand dream creation.vp3' then click Save.

85. QuickLink to 4D Organizer📖.
86. Under Folder List, open My Computer, C:\4DEmbroidery\MyDesigns.
87. Find 'grand dream creation.vp3' and select it.
88. Click Send 1 1️ to send the design directly to your creative vision or as configured in 4D Configure.

DO NOT click Add Trim Commands to add trim commands to this design. If you add them, the design will no longer be split.

Also, if you go back to 4D Embroidery Extra to Send the design, make sure to open the 'grand dream creation.vp3' design then click Send 1 1️. DO NOT click Combine or Save As! If you do, the software will split the design again.